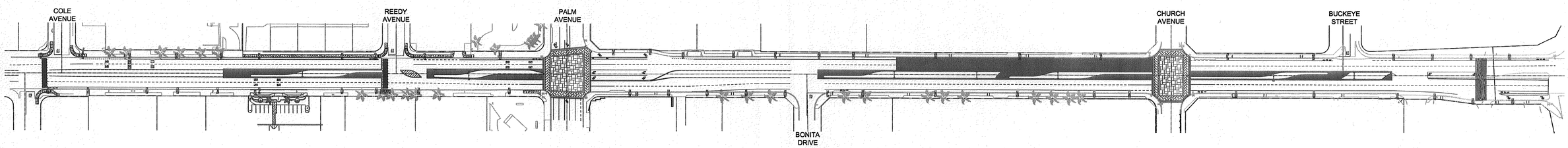
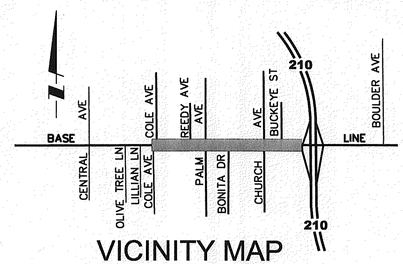
CITY OF HIGHLAND

City of HIGHLAND Inc. 1987

PROJECT No. STR07003
SCHEDULE I



BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)



VICINITY MAP
N.T.S

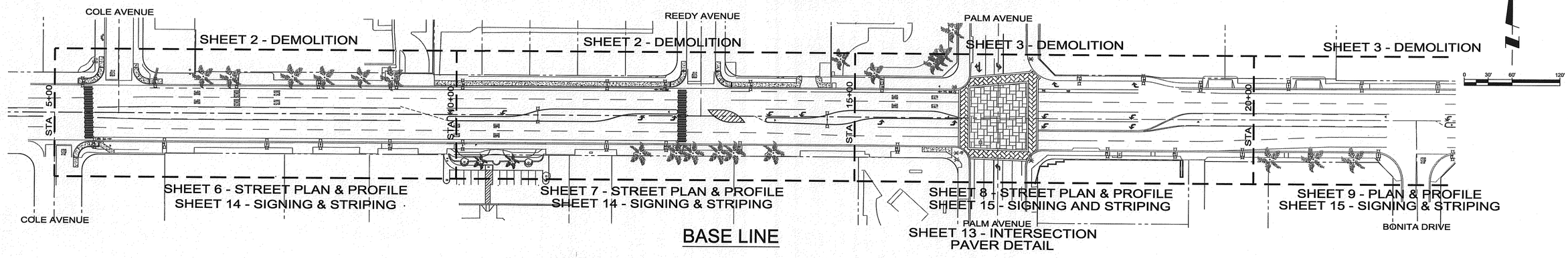
NOVEMBER 2011

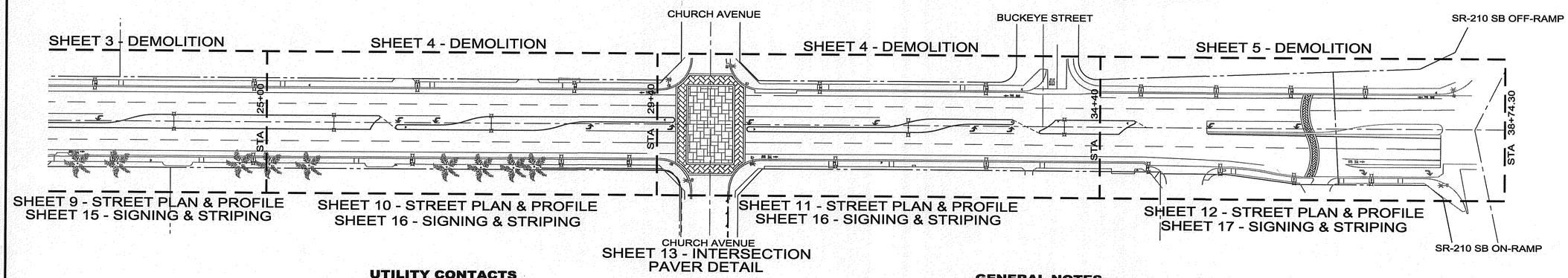
Associated Engineers
451 E. VANDERBILT WAY, SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889-1884
A subsidiary of PARSONS BRINCKERHOFF

Job No. 07-010-0703

Underground Service Alert
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

SHEET INDEX AND LOCATION MAP





ABBREVIATIONS

EXIST	= EXISTING
MIN	= MINIMUM
PCC	= PORTLAND CEMENT CONCRETE
APWA	= AMERICAN PUBLIC WORKS ASSOCIATION
SBCTD	= SAN BERNARDINO COUNTY TRANSPORTATION DEPARTMENT
STD	= STANDARD
AC	= ASPHALT CONCRETE
TH	= THICK
CL	= CLASS
AB	= AGGREGATE BASE
NTS	= NOT TO SCALE
R/W	= RIGHT-OF-WAY
@	= AT
PL	= PROPERTY LINE
C&G	= CURB AND GUTTER
TC	= TOP CURB
FS	= FINISH SURFACE

HATCH LEGEND

- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT
- CONSTRUCT AC
- CONSTRUCT PCC

UTILITY CONTACTS

TIME WARNER
ATTN: BRUCE DEWESE
1500 SOUTH AUTO CENTER DRIVE
ONTARIO, CA 91761
909/721-8589

EAST VALLEY WATER DISTRICT
ATTN: SCIPIO IBARRA
3654 HIGHLAND AVE., STE. 18
HIGHLAND, CA 92346
MAILING ADDRESS:
PO BOX 3427, SAN BERNARDINO, CA 92413
TEL: 909/888-8986

SBC
ATTN: RANDY SEABERT
3073 ADAMS STREET
RIVERSIDE, CA 92504
TEL: 951/359-2511

SCE
ATTN: RYAN JASSO
287 TENNESSEE STREET
REDLANDS, CA 92373
TEL: 909/307-6750

SOUTHERN CALIFORNIA GAS COMPANY
ATTN: DEVERY JENNINGS
1981 WEST LUGONIA AVENUE
REDLANDS, CA 92374-9796
MAILING ADDRESS:
PO BOX 3303
REDLANDS, CA 92374-9796
TEL: 909-335-7772

VERIZON
ATTN: FERNANDO URMENETA, NETWORK ENGINEER
NETWORK ENGINEERING & PLANNING
1980 ORANGE TREE LANE, STE. 100
REDLANDS, CA 92374-7880
TEL: 909/748-6647

AT&T
CABLE PROTECTION SUPERVISOR
455 W. 2ND STREET, ROOM 200
SAN BERNARDINO, CA 92401-1525

SHEET INDEX

SHEET #	DESCRIPTION
–	COVER SHEET
1	GENERAL NOTES & SHEET INDEX
1A	CONSTRUCTION NOTES & SECTIONS
2	BASE LINE DEMOLITION PLANS (STATION 5+00–15+00)
3	BASE LINE DEMOLITION PLANS (STATION 15+00–25+00)
4	BASE LINE DEMOLITION PLANS (STATION 25+00–34+40)
5	BASE LINE DEMOLITION PLANS (STATION 34+40–38+74.30)
6	BASE LINE STREET PLAN & PROFILE (STATION 5+00–9+75)
7	BASE LINE STREET PLAN & PROFILE (STATION 9+75–15+00)
8	BASE LINE STREET PLAN & PROFILE (STATION 15+00–20+00)
9	BASE LINE STREET PLAN & PROFILE (STATION 20+00–25+00)
10	BASE LINE STREET PLAN & PROFILE (STATION 25+00–29+40)
11	BASE LINE STREET PLAN & PROFILE (STATION 29+40–34+40)
12	BASE LINE STREET PLAN & PROFILE (STATION 34+40–38+74.30)
13	BASE LINE INTERSECTION PAVER DETAILS
14	BASE LINE SIGNING & STRIPING (STATION 5+00–15+00)
15	BASE LINE SIGNING & STRIPING (STATION 15+00–25+00)
16	BASE LINE SIGNING & STRIPING (STATION 25+00–34+40)
17	BASE LINE SIGNING & STRIPING (STATION 34+40–38+74.30)
18	BASE LINE TRENCHING PLAN (5+00–15+00)
19	BASE LINE TRENCHING PLAN (15+00–25+00)
20	BASE LINE TRENCHING PLAN (25+00–35+50)
21	BASE LINE TRENCHING PLAN (35+50–38+74.30)
22	BASE LINE TRAFFIC SIGNAL PLAN – BASE LINE AT PALM AVENUE

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS," LATEST EDITION, AND THE STANDARD DRAWINGS OF THE COUNTY OF SAN BERNARDINO AND THE CITY OF HIGHLAND.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOW ON THESE PLANS. NEITHER THE CITY OF HIGHLAND NOR THE ENGINEER WILL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND FACILITIES.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL THE CITY ENGINEER'S OFFICE AT (909) 864-8732, EXT. 240, FOR INSPECTION 24 HOURS PRIOR TO PERFORMING ANY WORK. WORK PERFORMED WITHOUT CALLING FOR INSPECTION SHALL BE REJECTED AND SHALL BE REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.
5. UTILITY CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TESTS OF ALL TRENCH BACKFILL AND STREET SUBGRADES AND SUBMITTING THEM TO THE CITY ENGINEER FOR APPROVAL. NOTIFY CITY ENGINEER'S OFFICE AT (909) 864-8732, EXT. 240, 24 HOURS PRIOR TO TESTS.
6. CUT SHEETS SHALL BE SUBMITTED TO THE CITY FOR RECORD PURPOSES PRIOR TO CONSTRUCTION. ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE ACCURACY OF CUT SHEETS.
7. THE CONTRACTOR SHALL SATISFY HIMSELF THAT ESTIMATED QUANTITIES SHOWN (IF ANY) ARE CORRECT BEFORE BIDDING ON ANY ITEM.
8. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES. WORK SITE AND EXTERIOR STREETS SHALL BE IN A NEAT, CLEAN, HAZARD FREE, ORDERLY STATE THROUGHOUT CONSTRUCTION. SITE SHALL BE CLEANED UPON REQUEST OF THE INSPECTOR.
9. ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SAWCUT OR WHEELCUT AND REMOVED TO CLEAN STRAIGHT LINES.
10. AT ALL LOCATIONS WHERE NEW PAVEMENT JOINS EXISTING, THE EXISTING PAVEMENT SHALL BE COATED WITH AN ASPHALTIC EMULSION.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY VALVES, BOXES AND COVERS, AND ADJUSTING OF ALL WATER VALVE BOXES AND COVERS TO FINISH GRADE.
12. THE CONTRACTOR SHALL RESET MANHOLE RINGS TO SURROUNDING A.C. PAVEMENT GRADE.
13. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL OF THE CITY ENGINEER.
14. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NUMBER 811, TWO WORKING DAYS BEFORE DIGGING. NO INSPECTION WILL BE PROVIDED BY THE CITY ENGINEER'S OFFICE AND NO CONSTRUCTION PERMIT ISSUED INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES WILL BE VALID UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY USA.
15. ALL IRRIGATION LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED WITH 12 GAUGE MINIMUM DIPPED AND WRAPPED-WELDED STEEL PIPE.
16. WHEN IMPROVEMENTS ARE TO BE PLACED ON NATIVE SOIL WHICH CONSISTS OF A ROCKY MATERIAL, THE SUB-GRADE SHALL BE PREPARED BY REMOVING ALL ROCKS WHICH PROTRUDE ABOVE THE SUB-GRADE AND ALL VOIDS OR DEPRESSIONS SHALL BE FILLED WITH A FINE GRADE MATERIAL OF A QUALITY BETTER THAN THE NATIVE MATERIAL.
17. NO WORK SHALL COMMENCE WITHIN PUBLIC RIGHT OF WAY WITHOUT OBTAINING A PUBLIC IMPROVEMENTS PERMIT AND NOTIFYING THE CITY INSPECTOR TO SCHEDULE A PRECONSTRUCTION MEETING 24-HOURS PRIOR TO START OF WORK.
18. ASPHALT CONCRETE SHALL BE SPREAD AND COMPACTED IN AT LEAST TWO LIFTS, WITH EACH LIFT NO THICKER THAN 2". UPON THE COMPLETION OF CONSTRUCTION, A FINAL INSPECTION OF THE PAVEMENT SURFACE SHALL BE PERFORMED AND ANY NOTED DEFICIENCIES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY'S PAVEMENT REPAIR POLICY.
19. THERMOPLASTIC SHALL BE USED FOR ALL PAVEMENT STRIPING AND MARKINGS UNLESS SPECIFIED OTHERWISE.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE AS AMENDED BY ASSEMBLY BILL 1414, WITH RESPECT TO ALL MONUMENTS.

BASIS OF BEARING

THE BEARING OF EAST PER TRACT No. 4830, MB 62/25 CENTERLINE OF BASE LINE WAS USED AS THE BASIS OF BEARINGS FOR THIS MAP.

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/12 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER R.C.E. 37413 EXP. 6-30-12 DATE 11/7/11

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
GENERAL NOTES & SHEET INDEX

DRAWER NO. G1

SHEET 1 OF 22

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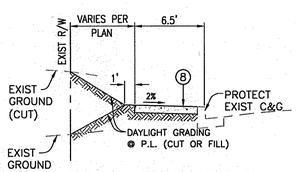
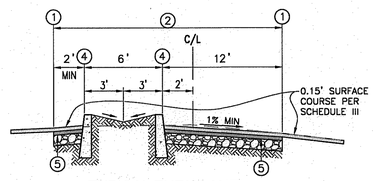
SCHEDULE I
CONSTRUCTION NOTES

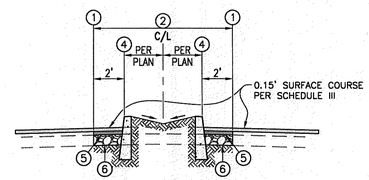
1. SAW CUT (HORIZONTAL CUT ON 8" CURB WITHIN SPANDREL)
2. REMOVE EXISTING AC PAVEMENT (STREET SECTION)
3. NOT USED
4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
7. NOT USED
8. CONSTRUCT PCC SIDEWALK PER SBCTD STD 109 TYPE "C"
9. REMOVE EXISTING PCC PAVEMENT
10. REMOVE AND REPLACE 8" CURB AND GUTTER
11. CONSTRUCT CURB RAMP PER CONST STD 310, CASE E (OR AS MODIFIED ON PLANS)
12. REMOVE EXISTING AC PAVEMENT (PARKING LOT SECTION)
13. ADJUST TELEPHONE MANHOLE COVER TO FINISH GRADE (BY AT&T)
14. ADJUST SEWER MANHOLE TO FINISH GRADE (BY EVWD)
15. ADJUST WATER VALVE COVER TO FINISH GRADE
16. ADJUST WATER METER TO FINISH GRADE
17. ADJUST STORM DRAIN MANHOLE TO FINISH GRADE
18. ADJUST GAS VALVE COVER TO FINISH GRADE
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
20. NOT USED
21. APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 9
22. APPLY 8" CHANNELIZING LINE PER CALTRANS STD A20D DETAIL 38A
23. APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39
24. APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39A
25. APPLY 4" SOLID LANE LINE PER CALTRANS STD
26. APPLY TYPE IV (L) ARROW PER CALTRANS STD A24A
27. APPLY TYPE IV (R) ARROW PER CALTRANS STD A24A
28. APPLY 2-WAY LEFT TURN LANE STRIPING PER CALTRANS STD A20B. DETAIL 31
29. APPLY TYPE VII (R) PER CALTRANS STD A24A
30. APPLY BIKE LANE ARROW PER CALTRANS STD A24A
31. NOT USED
32. APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 12
33. NOT USED
34. NOT USED
35. APPLY LEGEND "PED" PER CALTRANS STD A24D
36. APPLY LEGEND "XING" PER CALTRANS STD A24D
37. APPLY LEGEND "BIKE" PER CALTRANS STD A24D
38. APPLY LEGEND "LANE" PER CALTRANS STD A24D
39. CONSTRUCT PCC PAVERS (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, DESERT SAND BLEND, 58% 9x12, 20% 9x9, 27% 6x9) PER DETAIL SHEET 1A
40. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD PER SPEC (OR APPROVED EQUAL)
41. INSTALL "BIKE LANE" SIGNS R81 AND R81A OR R81B PER PLAN
42. INSTALL "XX MPH" SPEED LIMIT R2-1 SIGN (SPEED PER PLAN)
43. APPLY LEGEND "STOP" PER CALTRANS STD A24D
44. APPLY TYPE VI, DROP LANE ARROW PER CALTRANS STD A24A
45. APPLY YELLOW GORE STRIPING PER 2003 CA MUTCD, FIGURE 3B-8
46. FURNISH AND INSTALL R4-7 SIGN AND OM2-1H ON 1 POST SET 8 FEET BACK OF MEDIAN NOSE BC/EC
47. FURNISH AND INSTALL SIGN (AND POST IF NECESSARY) AS DESIGNATED ON THE PLAN. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
48. FURNISH AND INSTALL STREET NAME SIGN AND POST PER CITY STANDARD PLAN 218
49. FURNISH AND INSTALL R8-3A, NO PARKING SIGNS. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
50. APPLY DOUBLE YELLOW STRIPING PER CALTRANS A20A, DETAIL 22
51. INSTALL SCE CARPENTERIA = AMERON POLE 5B1-26 AND ARM (1AZB6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (KB04-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
53. APPLY DOTTED LINE MARKINGS PER 2003 CA MUTCD, FIGURE 3B-11, DETAIL D
54. CONSTRUCT PCC PAVER CROSSWALK (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, CATINA BLEND, 31% 9x9, 41% 6x9, 28% 6x6) PER DETAIL SHEET 1A
55. APPLY LEGEND "SCHOOL" PER CALTRANS STD A24D
56. CONSTRUCT SUMP DRAIN PER DETAIL ON SHEET 1A
57. PROTECT IN PLACE
58. CONSTRUCT 2'-WIDE X 16"-DEEP PCC STRIP
59. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN AS INDICATED ON PLANS AND AS DIRECTED BY PUBLIC WORKS INSPECTOR INCLUDING 12" DIAMETER CORE X 6" DEEP PCC SIDEWALK REPAIR
60. REMOVE AND SALVAGE EXISTING STREET LIGHT (BY SCE)
61. APPLY LEGEND "SLOW" PER PER CALTRANS STD A24D
65. INSTALL IN-ROADWAY WARNING LIGHT SYSTEM PER SPEC
66. NOT USED
67. APPLY 12" WHITE STOP LIMIT-LINE PER 2003 CA MUTCD, SECTION 3B.16 & CONSTRUCTION STD 219
68. INSTALL YARD INLET WITH ATRIUM GRATE AND CONNECT TO EXISTING STORM DRAIN PIPE PER APWA STANDARD 350-1
69. REMOVE & DISPOSE EXISTING BRICKS
71. CONSTRUCT TRENCH REPAIR PER CONSTRUCTION STD 221
72. FURNISH AND INSTALL PULL BOX WITH TRAFFIC RATED LID
73. APPLY WHITE PIANO BAR STYLE CROSSWALK, TYPE I PER CITY STANDARD PLAN 226
74. APPLY YELLOW PIANO BAR STYLE CROSSWALK, TYPE I PER CITY STANDARD PLAN 226
81. THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE CONTROLLER AND AUXILLARY EQUIPMENT PRIOR TO PERFORMING INSTALLATIONS AND MODIFICATIONS OF THE LOOP DETECTION.
82. THE CONTRACTOR SHALL INSTALL TYPE "E" LOOP DETECTORS WHERE SHOWN ON THE PLAN. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH CALTRANS STANDARD PLANS AND SPECIFICATIONS FOR THE 2006 EDITION.
83. THE CONTRACTOR SHALL REUSE THE EXISTING DLC IN PLACE BY PROVIDING LEAD-IN OF THE NEW TYPE E LOOPS TO THE EXISTING LEAD-IN CONDUIT WHERE SHOWN.



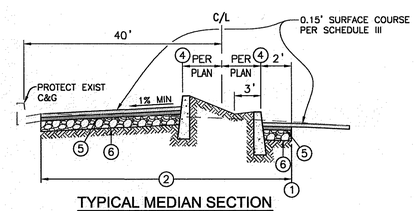
TYPICAL SIDEWALK SECTION
BASE LINE
NTS



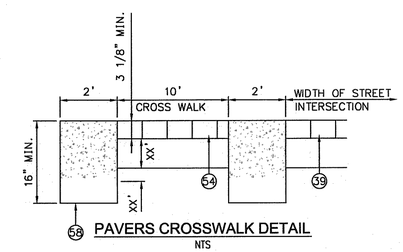
TYPICAL TURN LANE
SECTION



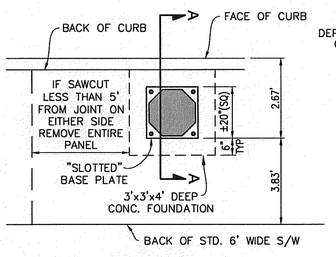
TYPICAL MEDIAN SECTION
BASE LINE
NTS



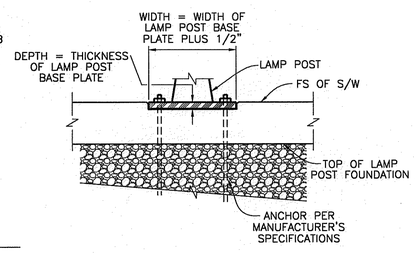
TYPICAL MEDIAN SECTION
STA 25+50 TO STA 28+50
NTS



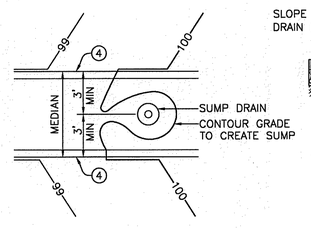
PAVERS CROSSWALK DETAIL
NTS



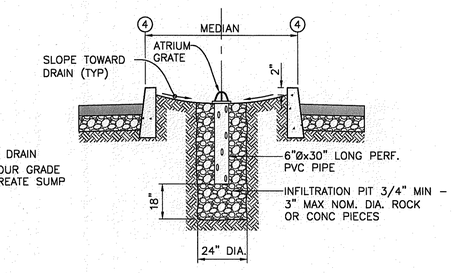
STREET LIGHT IN SIDEWALK
NTS



SECTION "A" - SLOTTED BASE
NTS



PLAN VIEW



SECTION VIEW

SUMP DRAIN DETAIL 56
NTS

SIGN	DESCRIPTION	SIZE (INCHES)	MIN. SIZE
R81	BIKE SIGN	12 X 8	
R81A	BEGIN	12 X 5	
R81B	END	8 X 5	
R2-1	SPEED LIMIT	24 X 30	
R4-7	KEEP RIGHT	24 X 30	18 X 24
OM2-1H	OBJECT MARKER	12 X 6	
R8-3A	NO PARKING (SYMBOL)	24 X24	12 X12
S1-1	SCHOOL ADVANCE WARNING	36 X36	30 X30
W16-7p	ADVANCE WARNING ARROW	24 X 12	
W16-9p	ADVANCE AHEAD SIGN	24 X 12	
R3-7	MANDARTORY MOVEMENT LANE CONTROL	30 X 30	
R3-2	TURN PROHIBITION	24 X 24	
OMNITRANS	BUS SIGN	BUS SIGN PER OMNI TRANS SPECIFICATIONS	
NO PARKING TRUCK	NO PARKING (NO TRUCK SYMBOL) ANY TIME	REPLACE SIGN PER EXISTING SIZE AND VERBAGE	

SIGNAGE DIMENSION SCHEDULE

BASIS OF BEARING

THE BEARING OF EAST PER TRACT No. 4830, MB 62/25 CENTERLINE OF BASE LINE WAS USED AS THE BASIS OF BEARINGS FOR THIS MAP.

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11/7/11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
CONSTRUCTION NOTES AND SECTIONS

DRAWER NO. G1A

SHEET 1A OF 22

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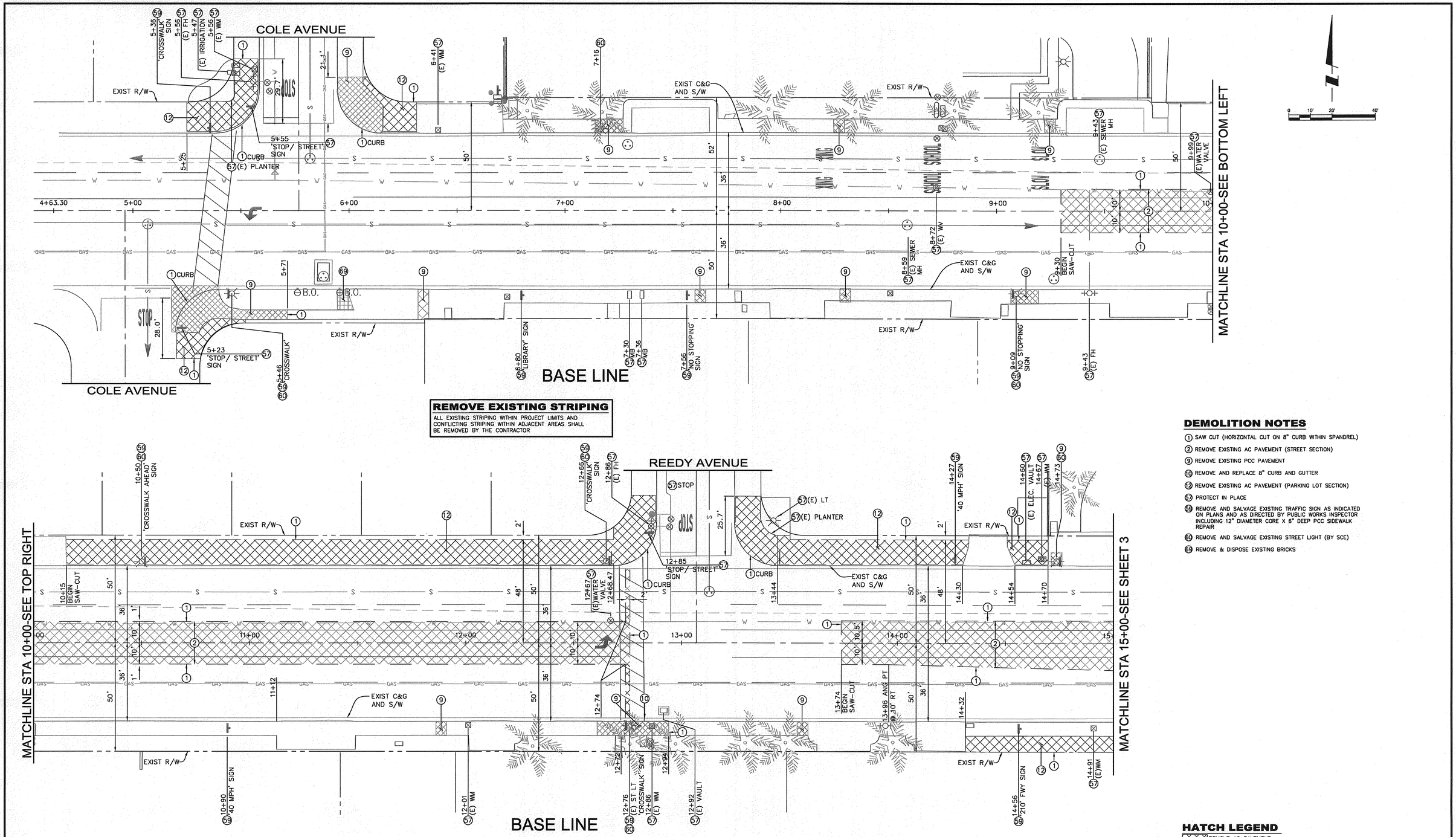

REMOVE EXISTING STRIPING

ALL EXISTING STRIPING WITHIN PROJECT LIMITS AND CONFLICTING STRIPING WITHIN ADJACENT AREAS SHALL BE REMOVED BY THE CONTRACTOR

DEMOLITION NOTES

1. SAW CUT (HORIZONTAL CUT ON 8" CURB WITHIN SPANDREL)
2. REMOVE EXISTING AC PAVEMENT (STREET SECTION)
9. REMOVE EXISTING PCC PAVEMENT
10. REMOVE AND REPLACE 8" CURB AND GUTTER
12. REMOVE EXISTING AC PAVEMENT (PARKING LOT SECTION)
57. PROTECT IN PLACE
59. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN AS INDICATED ON PLANS AND AS DIRECTED BY PUBLIC WORKS INSPECTOR INCLUDING 12" DIAMETER CORE X 6" DEEP PCC SIDEWALK REPAIR
60. REMOVE AND SALVAGE EXISTING STREET LIGHT (BY SCE)
69. REMOVE & DISPOSE EXISTING BRICKS

HATCH LEGEND

- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT
- REMOVE BRICKS

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
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SAN BERNARDINO, CA 92408
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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

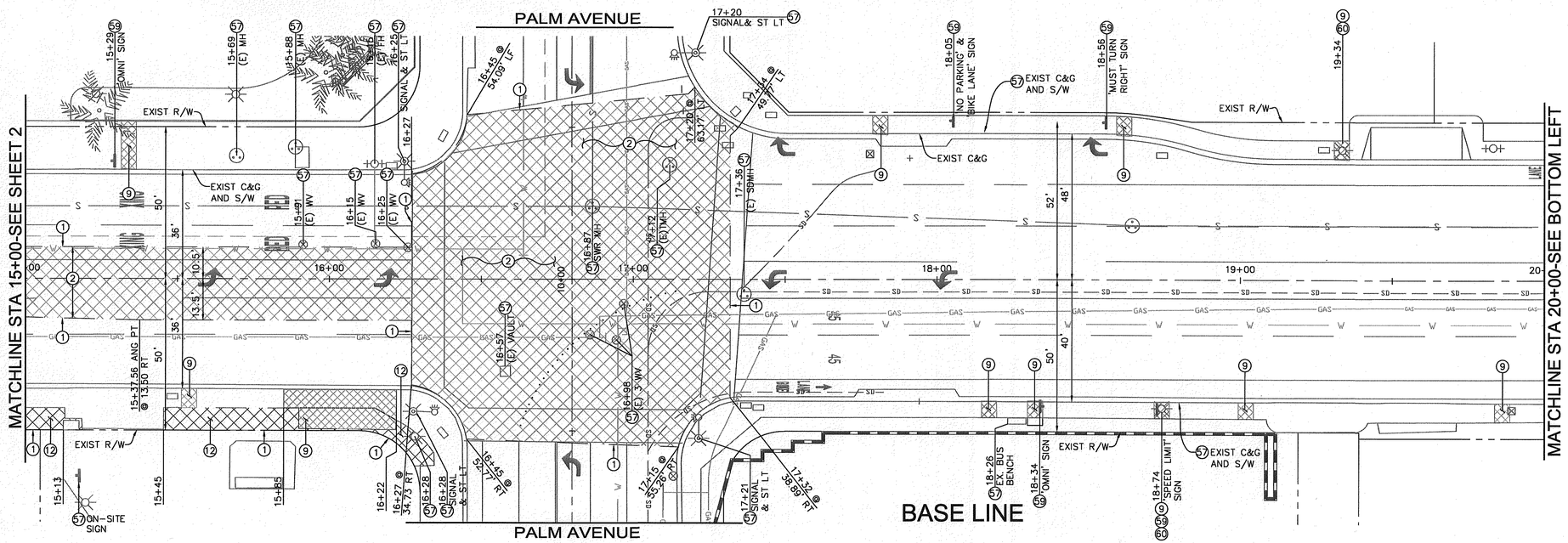
BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
DEMOLITION
STA 5+00 TO STA 15+00

DRAWER NO. D1

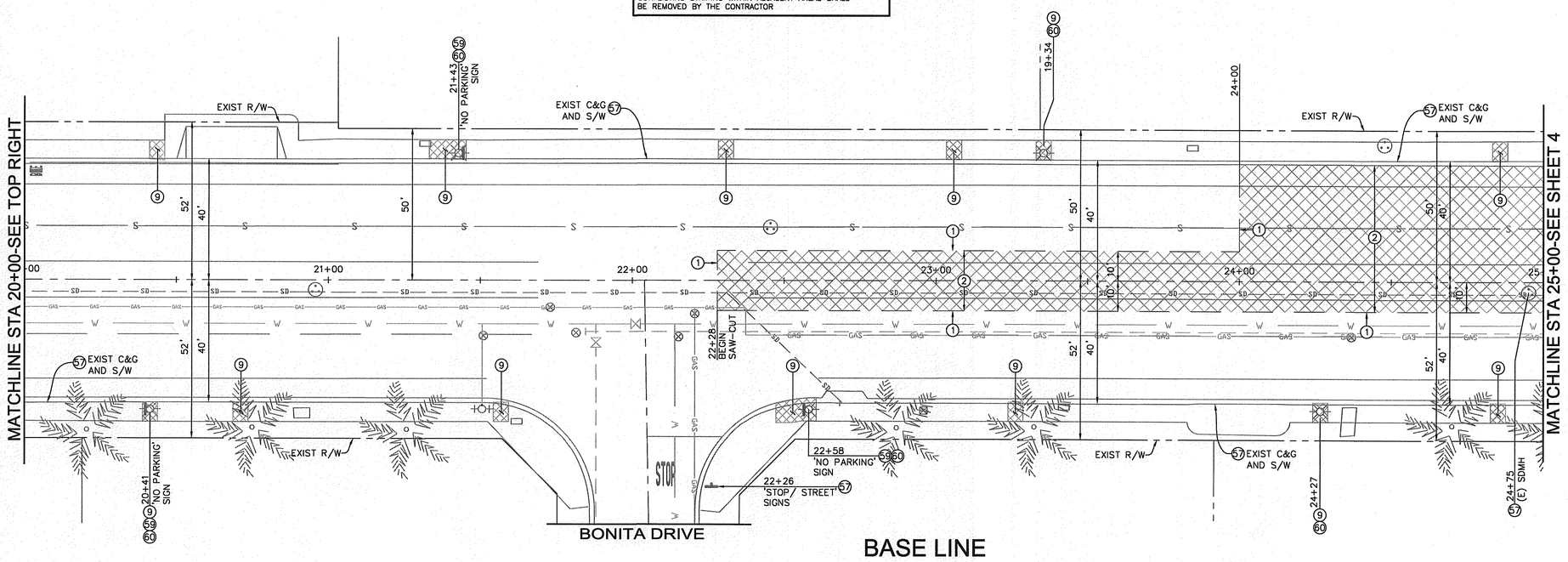
SHEET 2 OF 22

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\02-D1.dwg Nov 04, 2011 - 9:12pm meiter



REMOVE EXISTING STRIPING

ALL EXISTING STRIPING WITHIN PROJECT LIMITS AND CONFLICTING STRIPING WITHIN ADJACENT AREAS SHALL BE REMOVED BY THE CONTRACTOR



DEMOLITION NOTES

1. SAW CUT (HORIZONTAL CUT ON 8" CURB WITHIN SPANDREL)
2. REMOVE EXISTING AC PAVEMENT (STREET SECTION)
9. REMOVE EXISTING PCC PAVEMENT
12. REMOVE EXISTING AC PAVEMENT (PARKING LOT SECTION)
57. PROTECT IN PLACE
59. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN AS INDICATED ON PLANS AND AS DIRECTED BY PUBLIC WORKS INSPECTOR INCLUDING 12" DIAMETER CORE X 6" DEEP PCC SIDEWALK REPAIR
60. REMOVE AND SALVAGE EXISTING STREET LIGHT (BY SCE)

HATCH LEGEND

- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER R.C.E. 37413 DATE 11-7-11 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
DEMOLITION
STA 15+00 TO STA 25+00

DRAWER NO. **D2**

SHEET 3 OF 22

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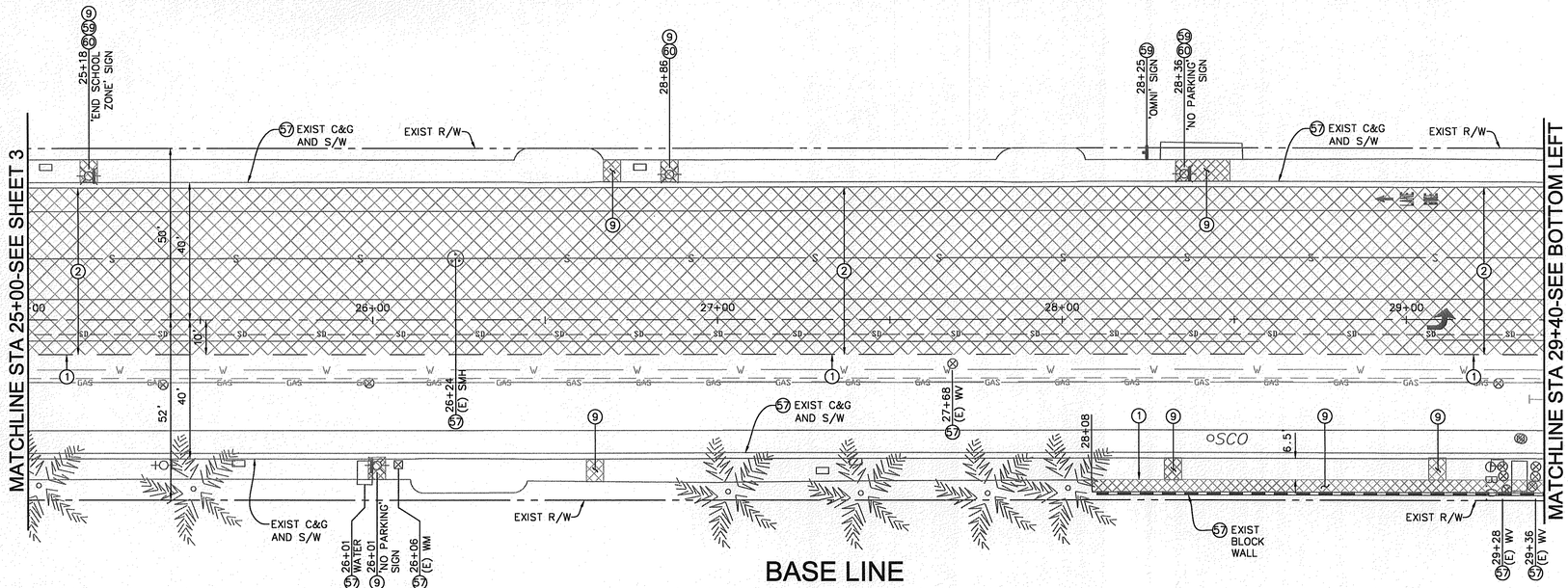

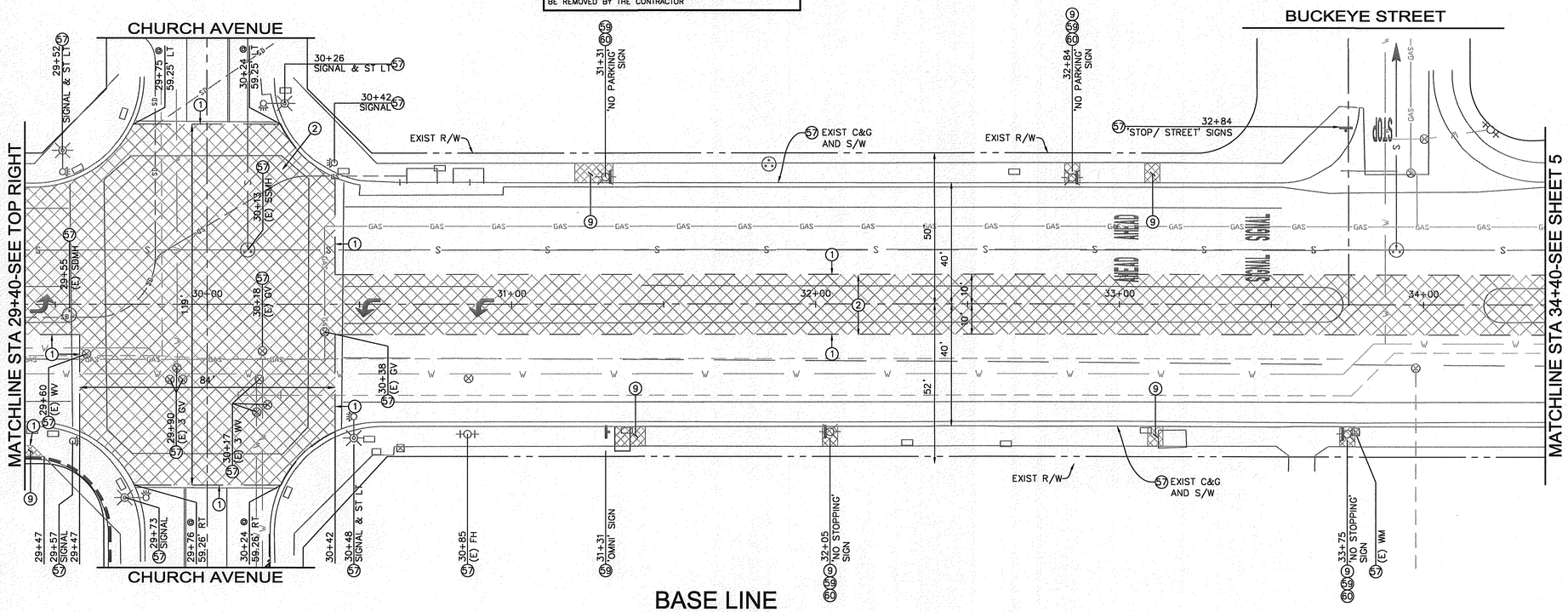

REMOVE EXISTING STRIPING

ALL EXISTING STRIPING WITHIN PROJECT LIMITS AND CONFLICTING STRIPING WITHIN ADJACENT AREAS SHALL BE REMOVED BY THE CONTRACTOR

DEMOLITION NOTES

1. SAW CUT (HORIZONTAL CUT ON 8" CURB WITHIN SPANDREL)
2. REMOVE EXISTING AC PAVEMENT (STREET SECTION)
9. REMOVE EXISTING PCC PAVEMENT
57. PROTECT IN PLACE
59. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN AS INDICATED ON PLANS AND AS DIRECTED BY PUBLIC WORKS INSPECTOR INCLUDING 12" DIAMETER CORE X 6" DEEP PCC SIDEWALK REPAIR
60. REMOVE AND SALVAGE EXISTING STREET LIGHT (BY SCE)

HATCH LEGEND

- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. METTER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. METTER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
DEMOLITION
STA 25+00 TO STA 34+40

DRAWER NO. **D3**

SHEET **4** OF **22**

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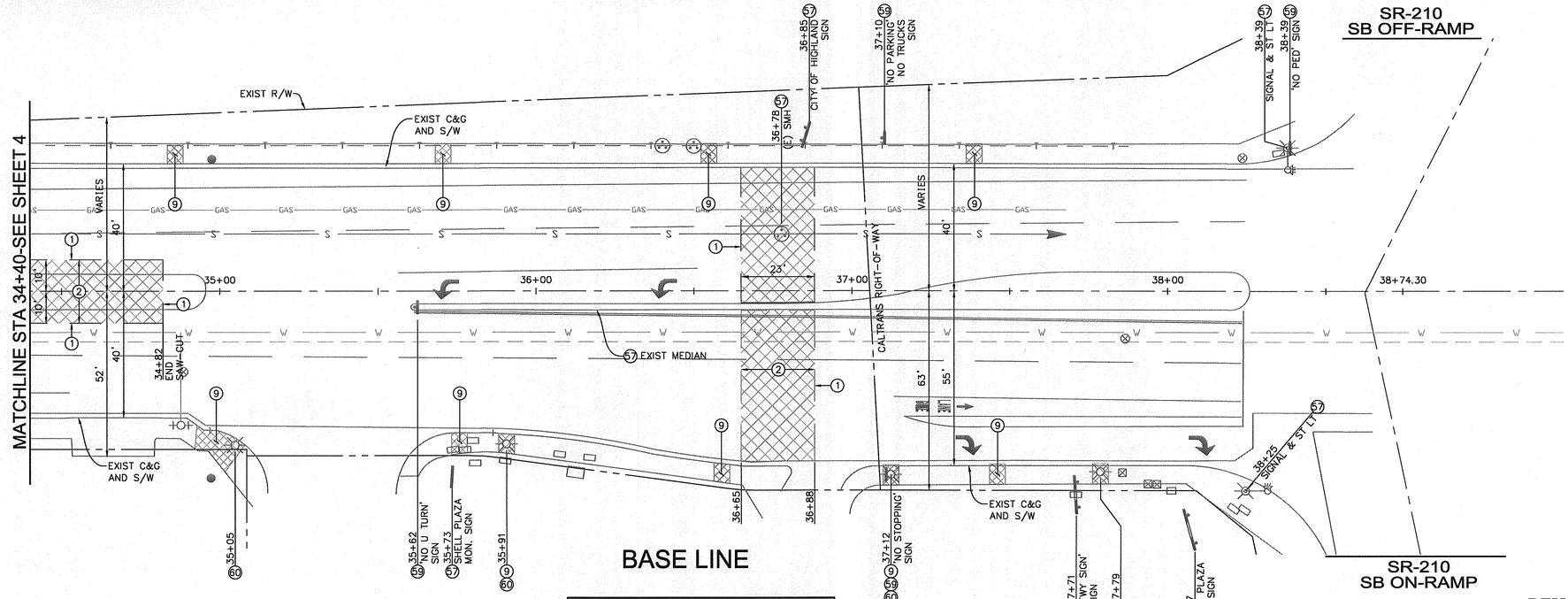

REMOVE EXISTING STRIPING

ALL EXISTING STRIPING WITHIN PROJECT LIMITS AND CONFLICTING STRIPING WITHIN ADJACENT AREAS SHALL BE REMOVED BY THE CONTRACTOR

DEMOLITION NOTES

1. SAW CUT (HORIZONTAL CUT ON 8" CURB WITHIN SPANDREL)
2. REMOVE EXISTING AC PAVEMENT (STREET SECTION)
56. CONSTRUCT SUMP DRAIN PER DETAIL
58. CONSTRUCT 2'-WIDE X 16"-DEEP PCC STRIP
59. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN AS INDICATED ON PLANS AND AS DIRECTED BY PUBLIC WORKS INSPECTOR

HATCH LEGEND

- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. METTER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. METTER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

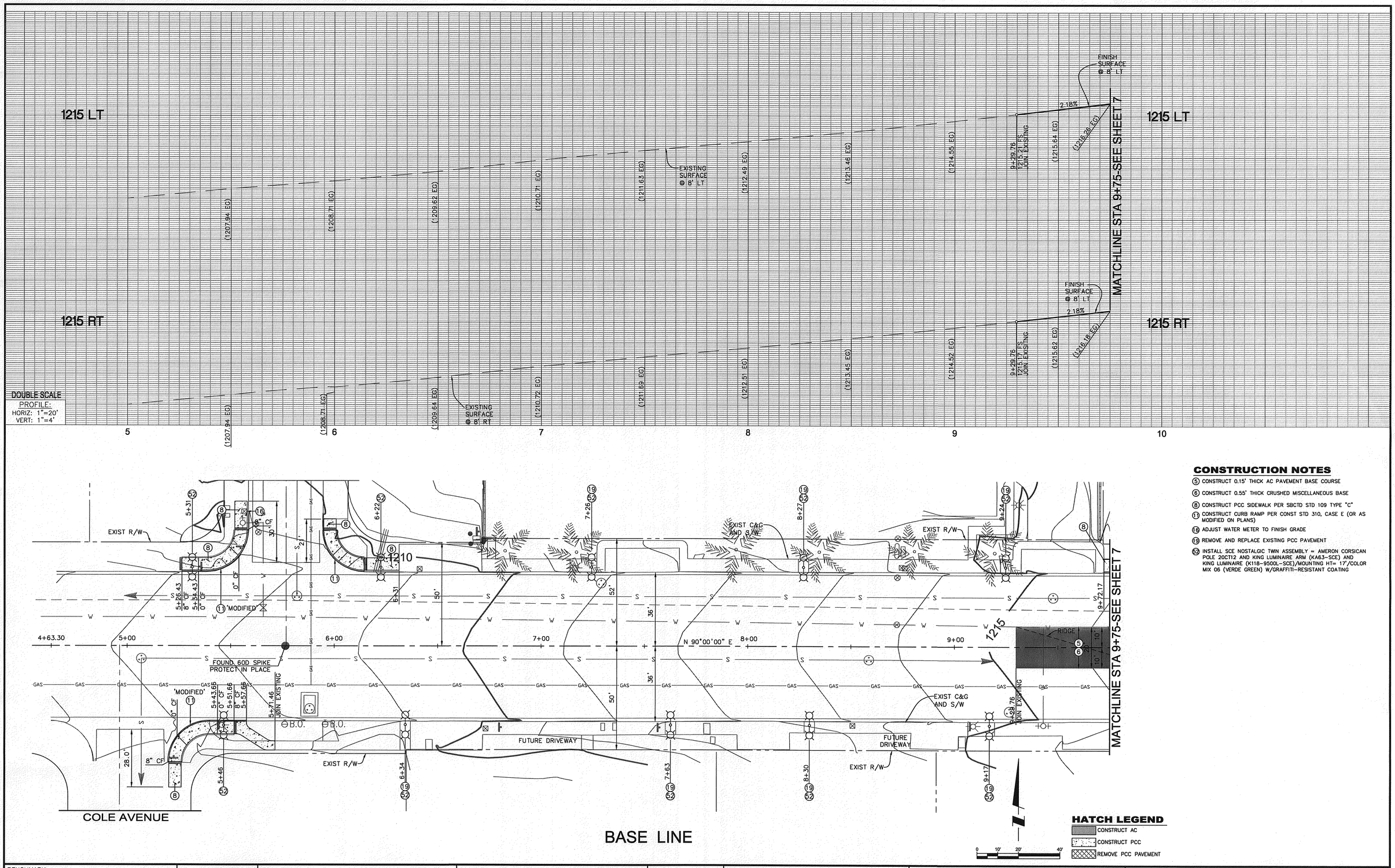
BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
DEMOLITION
STA 34+40 TO STA 38+74.30

DRAWER NO. **D4**

SHEET **5** OF **22**

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\05-D4.dwg Nov 04, 2011 - 9:43pm meiter



CONSTRUCTION NOTES

(5) CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE

(6) CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE

(8) CONSTRUCT PCC SIDEWALK PER SBCTD STD 109 TYPE "C"

(11) CONSTRUCT CURB RAMP PER CONST STD 310, CASE E (OR AS MODIFIED ON PLANS)

(16) ADJUST WATER METER TO FINISH GRADE

(19) REMOVE AND REPLACE EXISTING PCC PAVEMENT

(52) INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. METER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11/4/11

JEFFEREY D. METER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

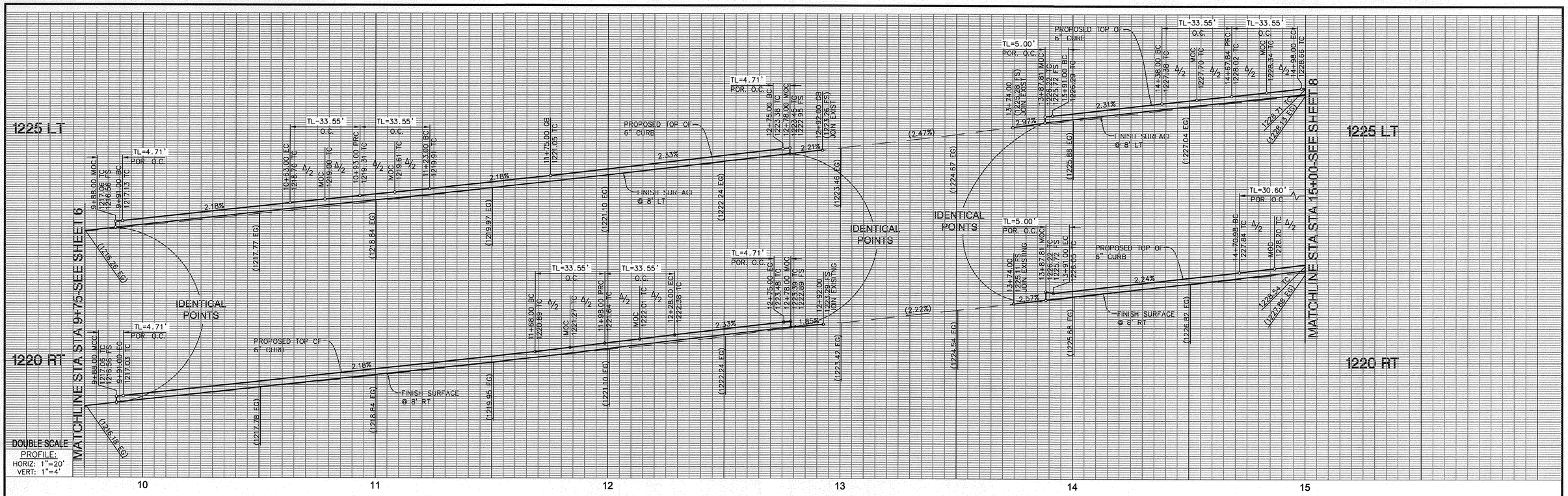
BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

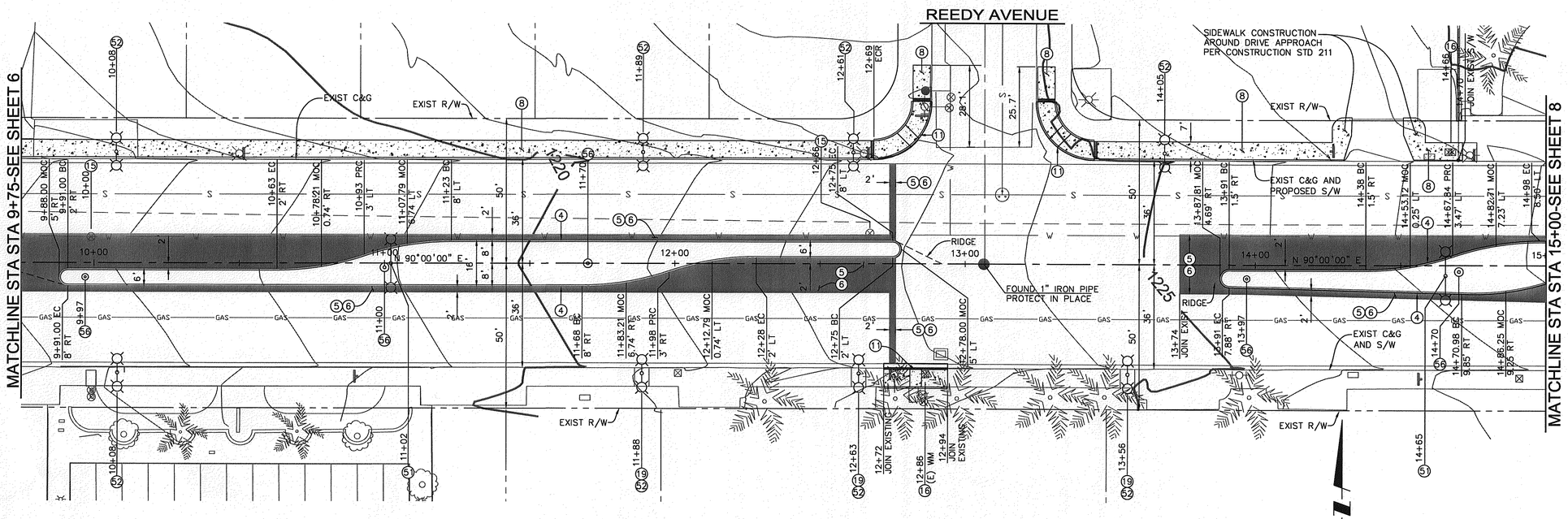
PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 5+00 TO STA 9+75

DRAWER NO. **ST1**

SHEET 6 OF 22

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\06-ST1.dwg Nov 04, 2011 - 9:55pm meiter





CONSTRUCTION NOTES

4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
8. CONSTRUCT PCC SIDEWALK PER SBCTD STD 109 TYPE "C"
11. CONSTRUCT CURB RAMP PER CONST STD 310, CASE E (OR AS MODIFIED ON PLANS)
13. ADJUST WATER VALVE COVER TO FINISH GRADE
16. ADJUST WATER METER TO FINISH GRADE
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
51. INSTALL SCE CARPENTERIA = AMERON POLE 5B1-26 AND ARM (1AZB6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
56. CONSTRUCT SUMP DRAIN PER DETAIL ON SHEET 1A

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- REMOVE PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 9+75 TO STA 15+00

DRAWER NO. **ST2**

SHEET 7 OF 22

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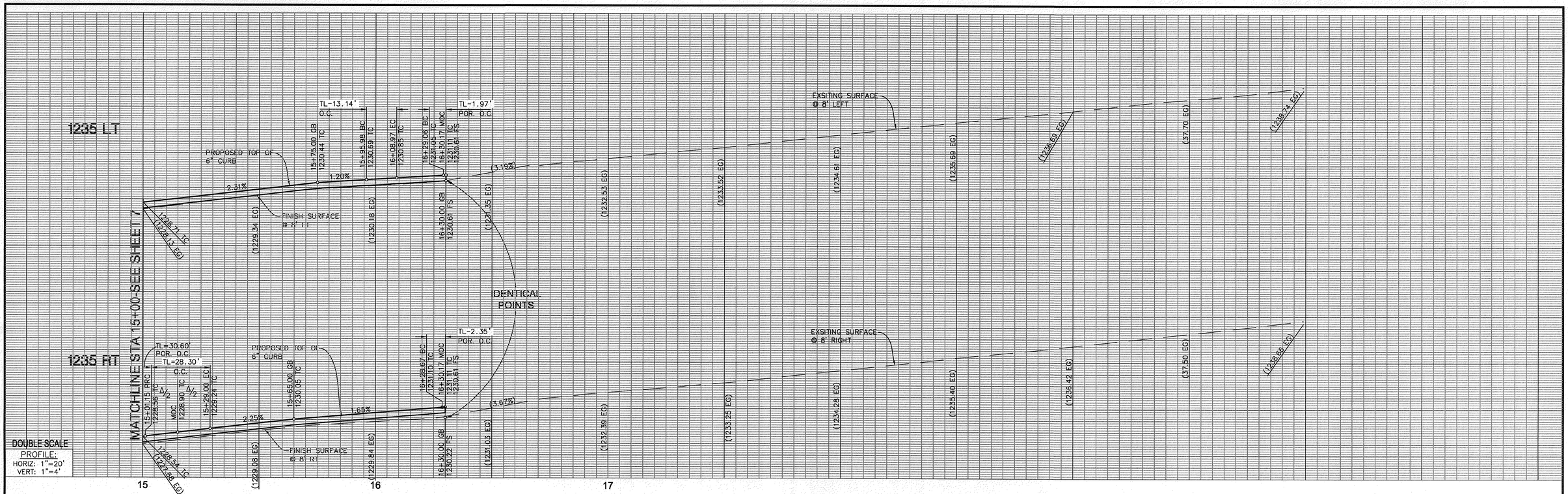

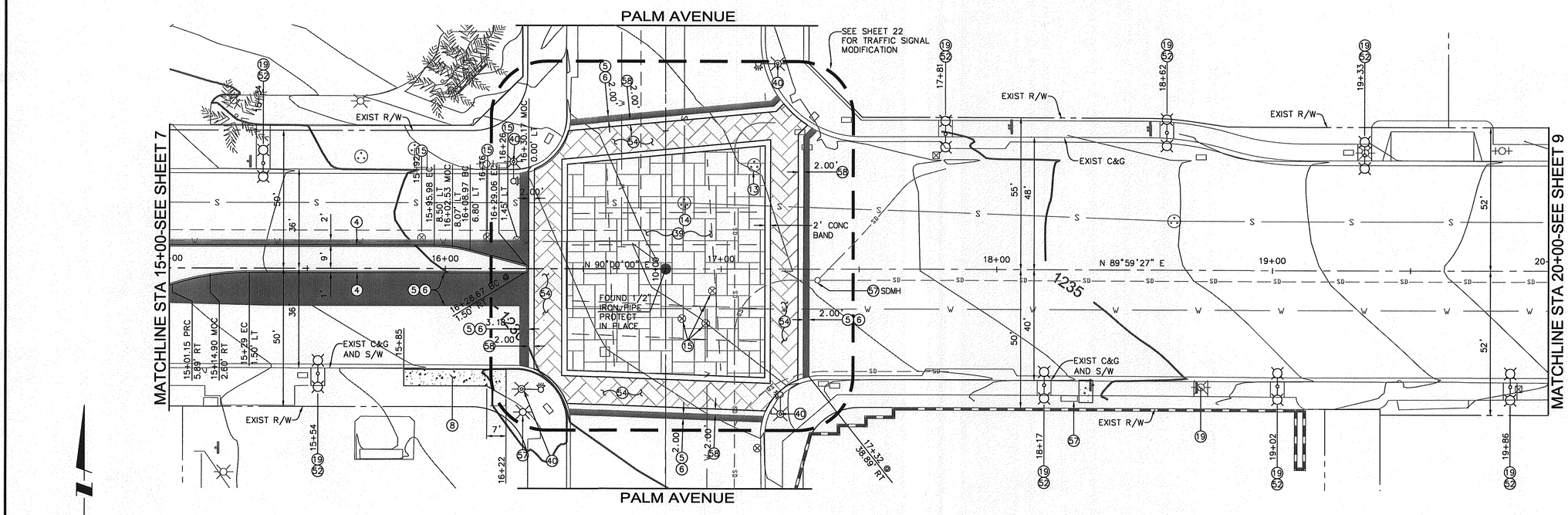

CONSTRUCTION NOTES

4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
8. CONSTRUCT PCC SIDEWALK PER SBCTD STD 109 TYPE "C"
13. ADJUST TELEPHONE MANHOLE COVER TO FINISH GRADE (BY AT&T)
14. ADJUST SEWER MANHOLE TO FINISH GRADE (BY EVWD)
15. ADJUST WATER VALVE COVER TO FINISH GRADE
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
39. CONSTRUCT PCC PAVERS (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, DESERT SAND BLEND, 58% 9x12, 20% 9x9, 27% 6x9) PER DETAIL SHEET 1A
40. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD PER SPEC (OR APPROVED EQUAL)
51. INSTALL SCE CARPENTERIA = AMERON POLE 5B1-26 AND ARM (1A2B6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
54. CONSTRUCT PCC PAVER CROSSWALK (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, CATINA BLEND, 31% 9x9, 41% 6x9, 28% 6x6) PER DETAIL SHEET 1A
57. PROTECT IN PLACE
58. CONSTRUCT 2'-WIDE X 16"-DEEP PCC STRIP

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- CONSTRUCT PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 15+00 TO STA 20+00

DRAWER NO. ST3

SHEET 8 OF 22

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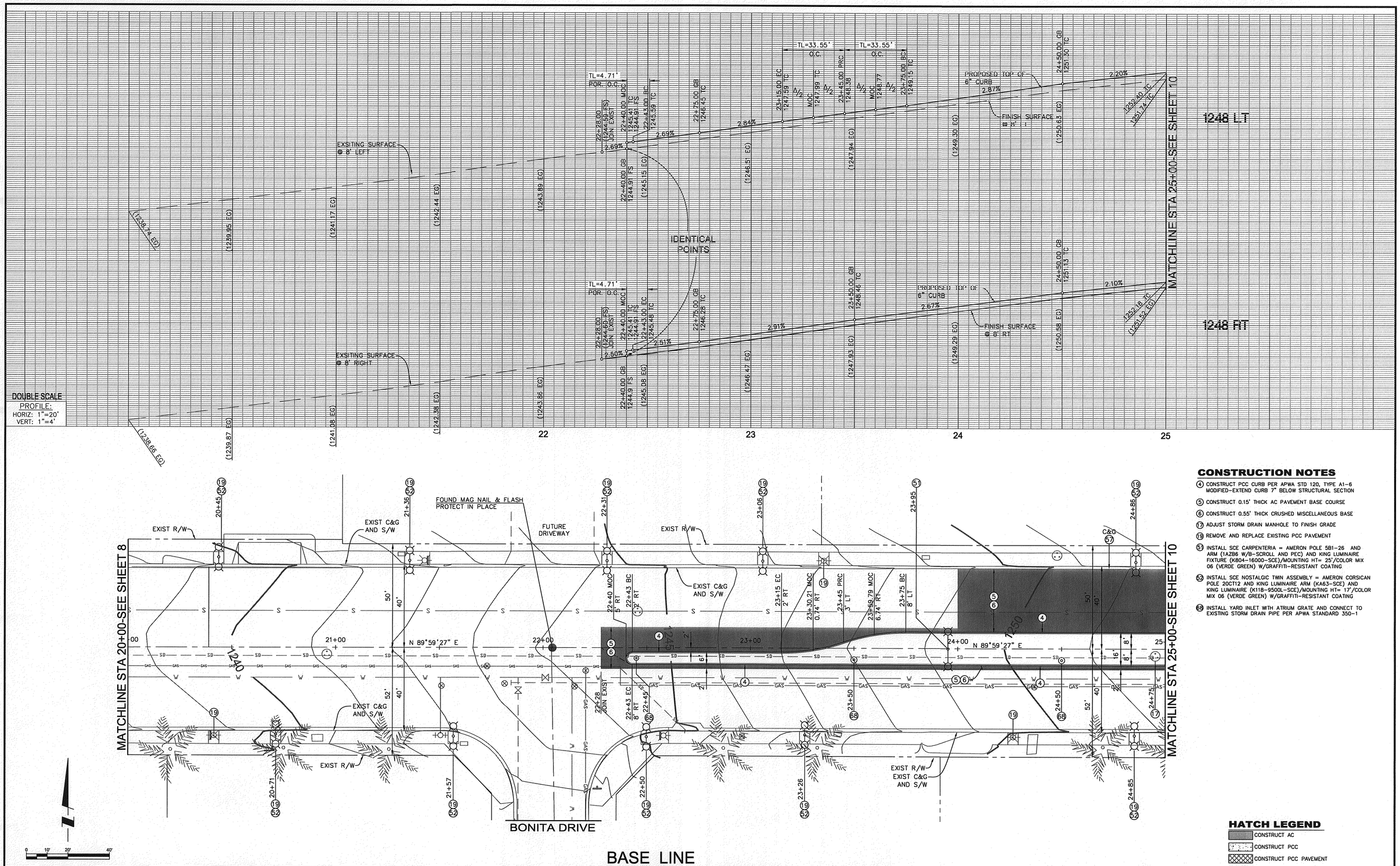

CONSTRUCTION NOTES

(4) CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION

(5) CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE

(6) CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE

(17) ADJUST STORM DRAIN MANHOLE TO FINISH GRADE

(19) REMOVE AND REPLACE EXISTING PCC PAVEMENT

(51) INSTALL SCE CARPENTERIA = AMERON POLE 5B1-26 AND ARM (1AZ86 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING

(52) INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING

(58) INSTALL YARD INLET WITH ATRIUM GRATE AND CONNECT TO EXISTING STORM DRAIN PIPE PER APWA STANDARD 350-1

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- CONSTRUCT PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

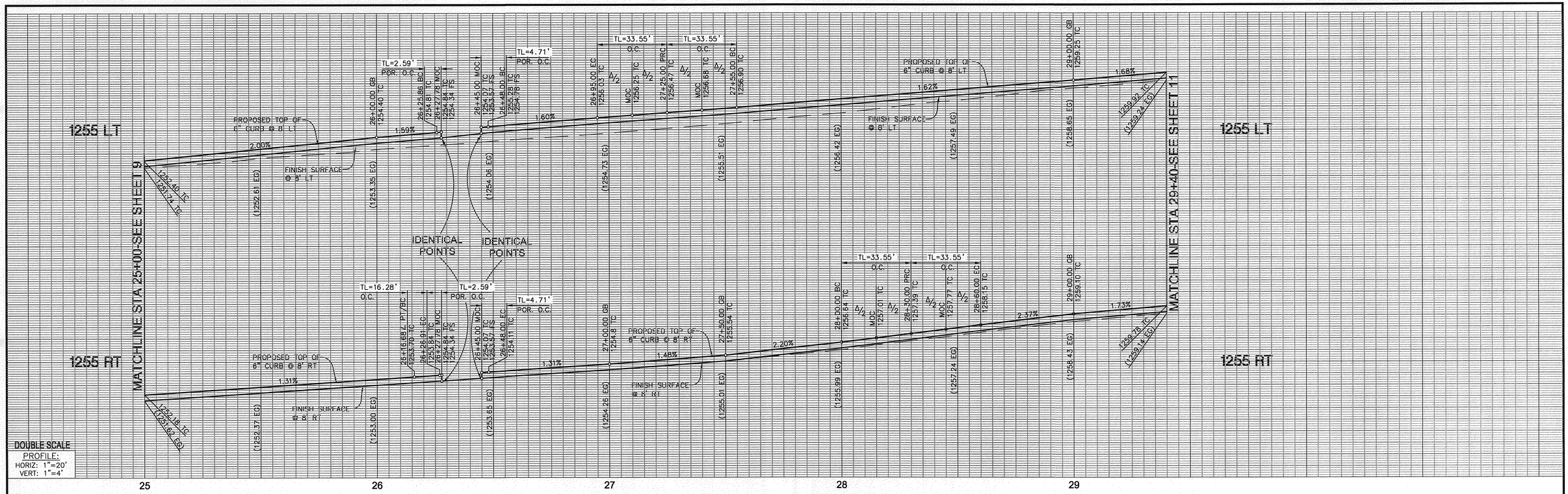
BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

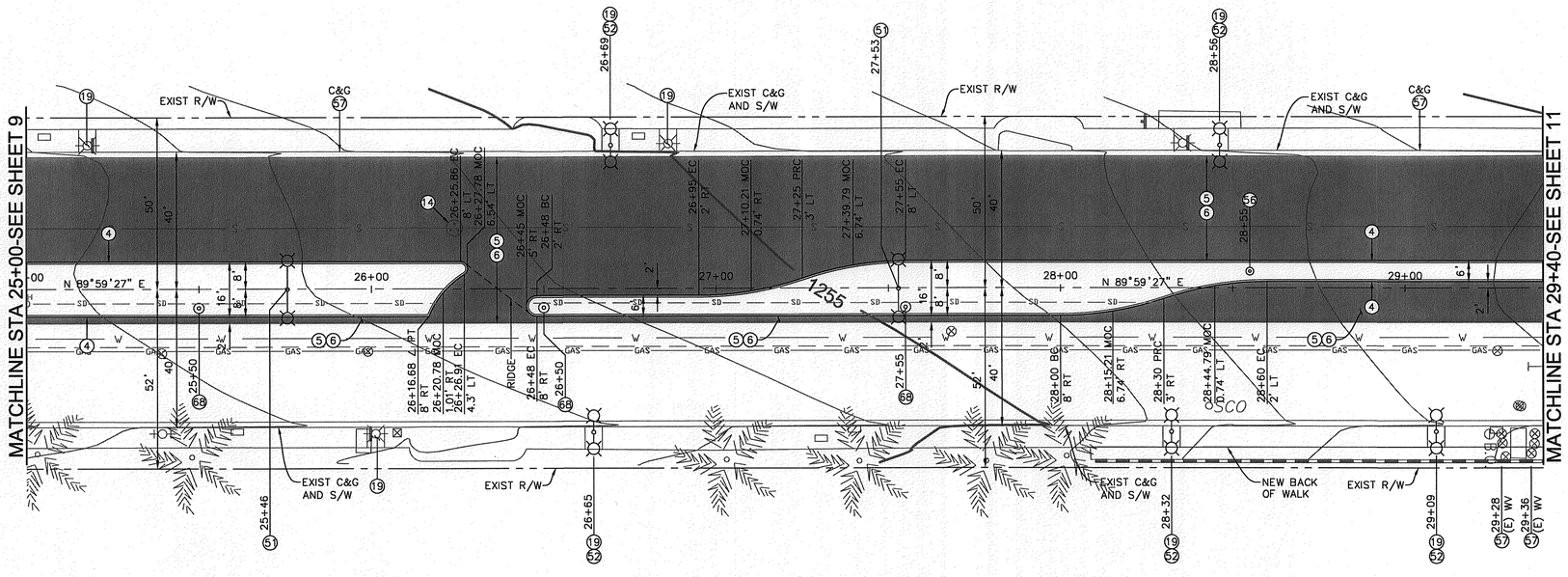
PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 20+00 TO STA 25+00

DRAWER NO. **ST4**

SHEET 9 OF 22

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\09-ST4.dwg Nov 04, 2011 - 10:37pm meiter





CONSTRUCTION NOTES

4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
14. ADJUST SEWER MANHOLE TO FINISH GRADE (BY EVWD)
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
51. INSTALL SCE CARPENTERIA = AMERON POLE 5B1-26 AND ARM (1AZB6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
56. CONSTRUCT SUMP DRAIN PER DETAIL ON SHEET 1A
57. PROTECT IN PLACE
68. INSTALL YARD INLET WITH ATRIUM GRATE AND CONNECT TO EXISTING STORM DRAIN PIPE PER APWA STANDARD 350-1

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- CONSTRUCT PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
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SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 25+00 TO STA 29+40

DRAWER NO. **ST5**

SHEET **10** OF **22**

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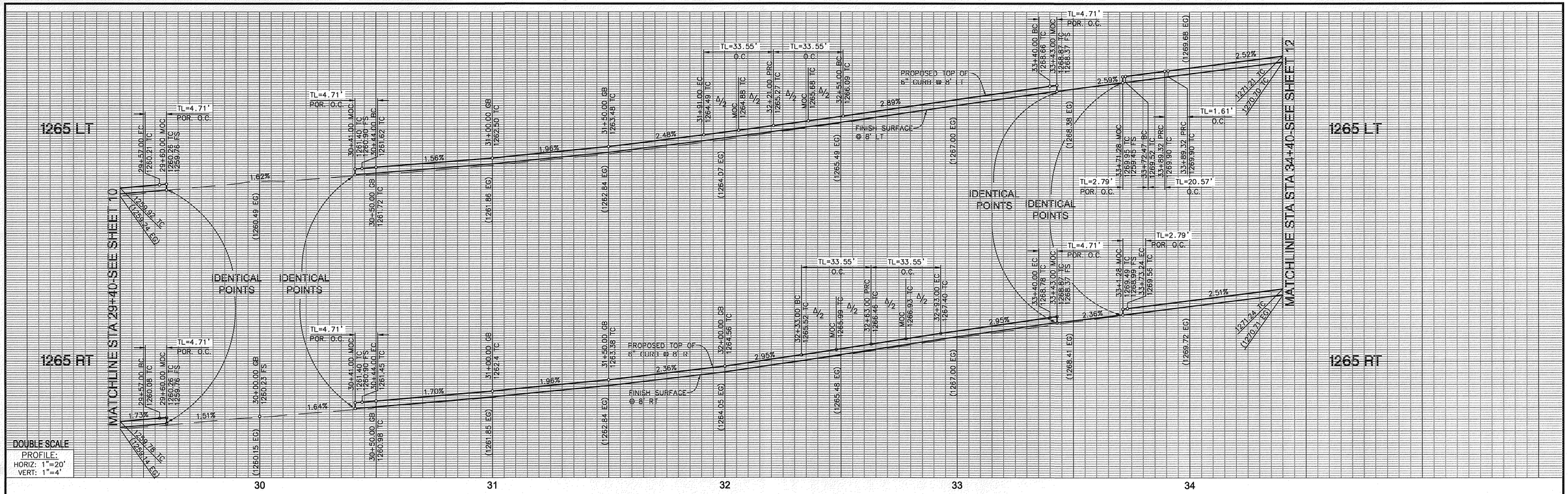

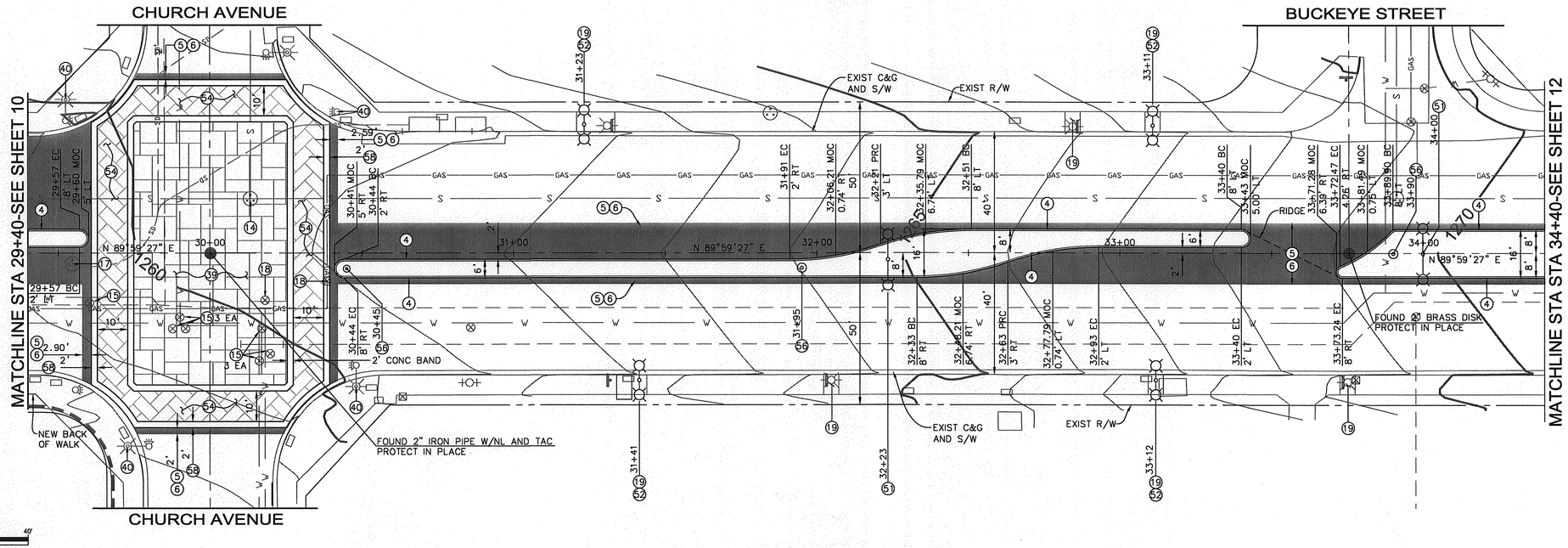

CONSTRUCTION NOTES

4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
14. ADJUST SEWER MANHOLE TO FINISH GRADE (BY EVWD)
15. ADJUST WATER VALVE COVER TO FINISH GRADE
17. ADJUST STORM DRAIN MANHOLE TO FINISH GRADE
18. ADJUST GAS VALVE COVER TO FINISH GRADE
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
39. CONSTRUCT PCC PAVERS (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, DESERT SAND BLEND, 58% 9x12, 20% 9x9, 27% 6x9) PER DETAIL SHEET 1A
40. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD PER SPEC (OR APPROVED EQUAL)
51. INSTALL SCE CARPENTERIA = AMERON POLE 581-26 AND ARM (1AZB6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
54. CONSTRUCT PCC PAVER CROSSWALK (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, CATINA BLEND, 31% 9x9, 41% 6x9, 28% 6x6) PER DETAIL SHEET 1A
56. CONSTRUCT SUMP DRAIN PER DETAIL ON SHEET 1A
57. PROTECT IN PLACE
58. CONSTRUCT 2'-WIDE X 16"-DEEP PCC STRIP

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- CONSTRUCT PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 29+40 TO STA 34+40

DRAWER NO. **ST6**

SHEET **11** OF **22**

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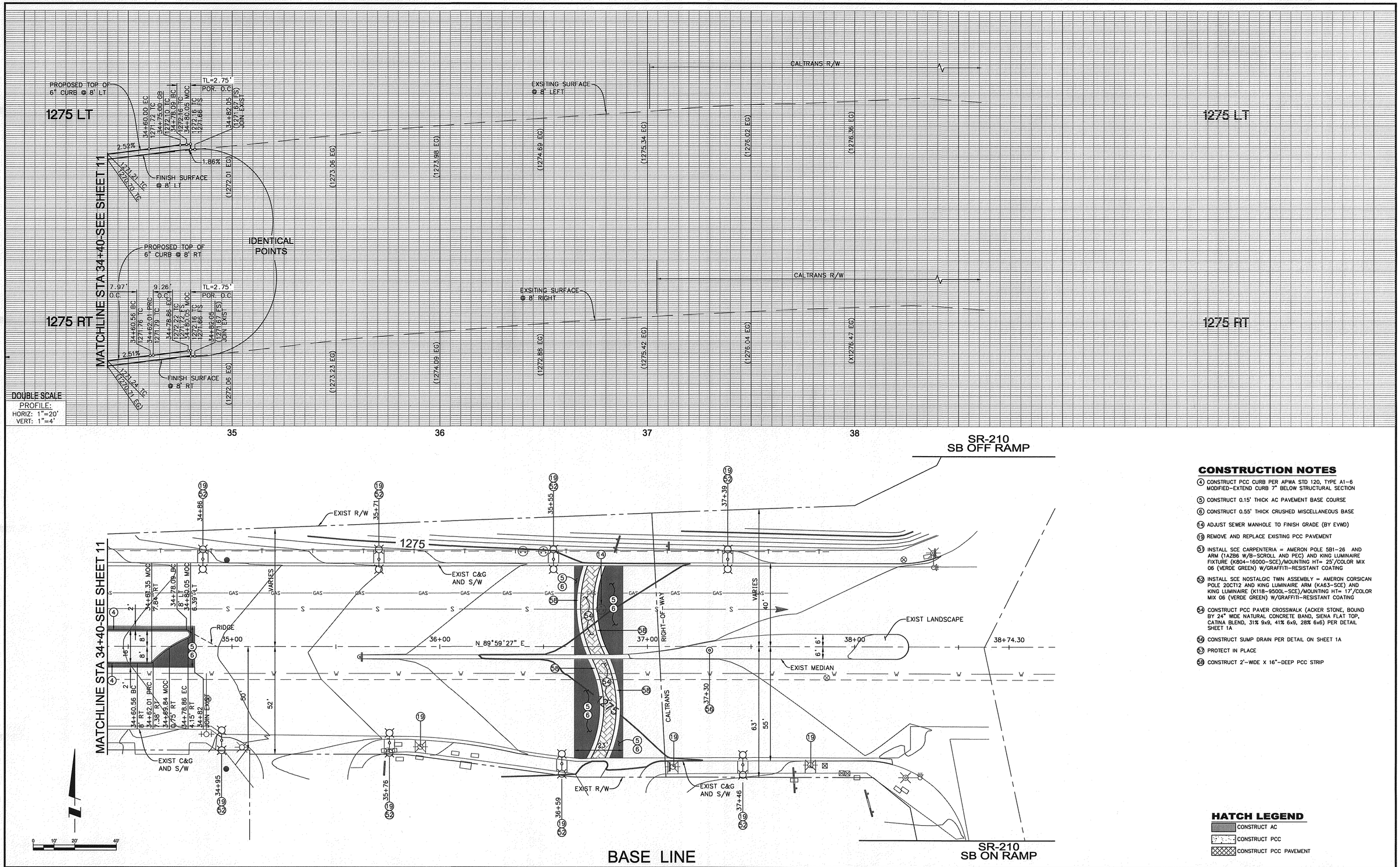

CONSTRUCTION NOTES

4. CONSTRUCT PCC CURB PER APWA STD 120, TYPE A1-6 MODIFIED-EXTEND CURB 7" BELOW STRUCTURAL SECTION
5. CONSTRUCT 0.15' THICK AC PAVEMENT BASE COURSE
6. CONSTRUCT 0.55' THICK CRUSHED MISCELLANEOUS BASE
14. ADJUST SEWER MANHOLE TO FINISH GRADE (BY EVWD)
19. REMOVE AND REPLACE EXISTING PCC PAVEMENT
51. INSTALL SCE CARPENTERIA = AMERON POLE 581-26 AND ARM (1AZB6 W/B-SCROLL AND PEC) AND KING LUMINAIRE FIXTURE (K804-16000-SCE)/MOUNTING HT= 25'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
52. INSTALL SCE NOSTALGIC TWIN ASSEMBLY = AMERON CORSICAN POLE 20CT12 AND KING LUMINAIRE ARM (KA63-SCE) AND KING LUMINAIRE (K118-9500L-SCE)/MOUNTING HT= 17'/COLOR MIX 06 (VERDE GREEN) W/GRAFFITI-RESISTANT COATING
54. CONSTRUCT PCC PAVER CROSSWALK (ACKER STONE, BOUND BY 24" WIDE NATURAL CONCRETE BAND, SIENA FLAT TOP, CATINA BLEND, 31% 9x9, 41% 6x9, 28% 6x6) PER DETAIL SHEET 1A
56. CONSTRUCT SUMP DRAIN PER DETAIL ON SHEET 1A
57. PROTECT IN PLACE
58. CONSTRUCT 2'-WIDE X 16"-DEEP PCC STRIP

HATCH LEGEND

- CONSTRUCT AC
- CONSTRUCT PCC
- CONSTRUCT PCC PAVEMENT

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER R.C.E. 37413 DATE 11-7-11 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
STREET PLAN & PROFILE
STA 34+40 TO STA 38+74.30

DRAWER NO. **ST7**

SHEET **12** OF **22**

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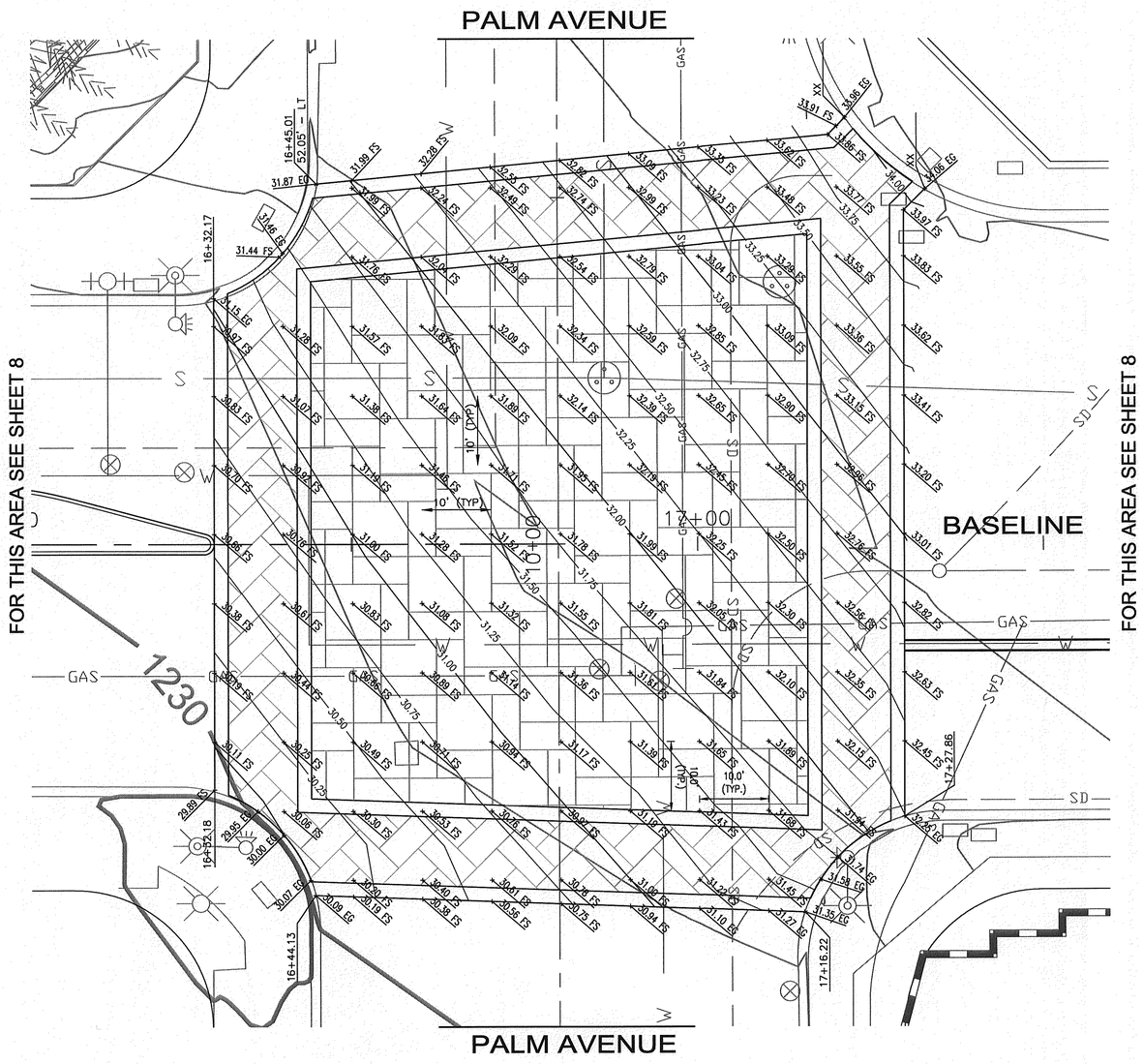

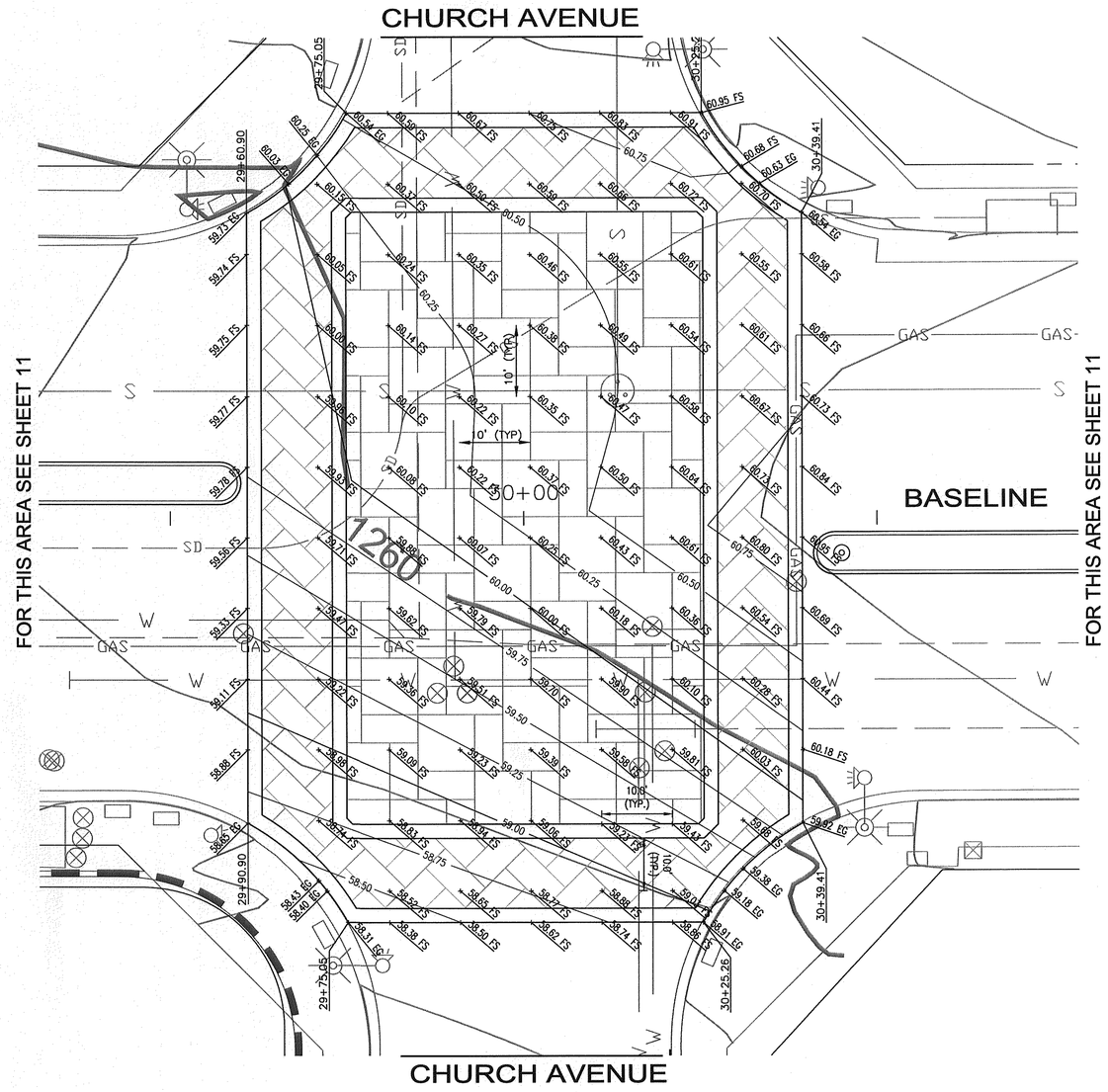

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BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
INTERSECTION PAVER DETAIL

DRAWER NO. PVR1

SHEET 13 OF 22

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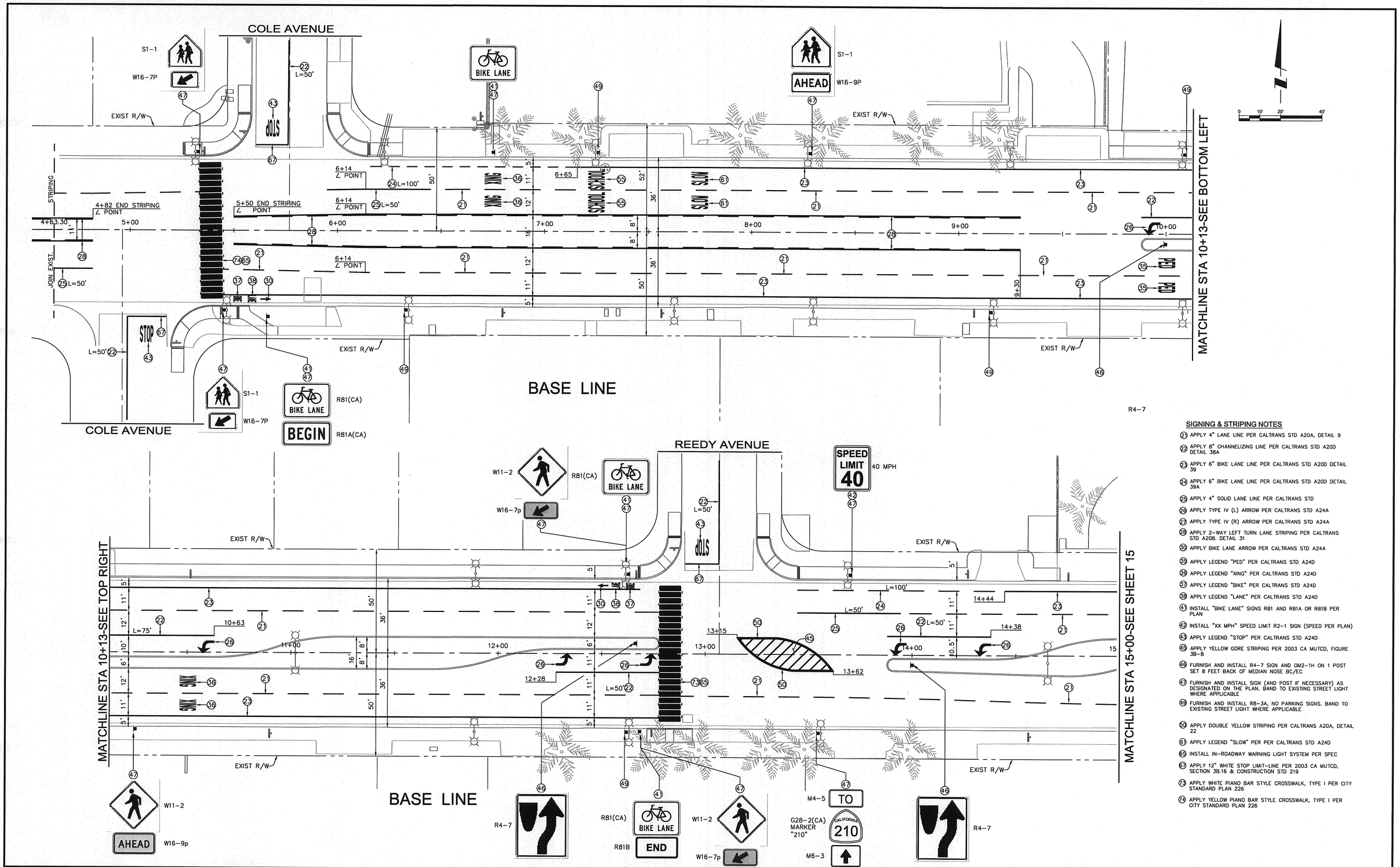

SIGNING & STRIPING NOTES

(21) APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 9

(22) APPLY 8" CHANNELIZING LINE PER CALTRANS STD A20D DETAIL 38A

(23) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39

(24) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39A

(25) APPLY 4" SOLID LANE LINE PER CALTRANS STD

(26) APPLY TYPE IV (L) ARROW PER CALTRANS STD A24A

(27) APPLY TYPE IV (R) ARROW PER CALTRANS STD A24A

(28) APPLY 2-WAY LEFT TURN LANE STRIPING PER CALTRANS STD A20B. DETAIL 31

(30) APPLY BIKE LANE ARROW PER CALTRANS STD A24A

(35) APPLY LEGEND "PED" PER CALTRANS STD A24D

(36) APPLY LEGEND "XING" PER CALTRANS STD A24D

(37) APPLY LEGEND "BIKE" PER CALTRANS STD A24D

(38) APPLY LEGEND "LANE" PER CALTRANS STD A24D

(41) INSTALL "BIKE LANE" SIGNS R81 AND R81A OR R81B PER PLAN

(42) INSTALL "XX MPH" SPEED LIMIT R2-1 SIGN (SPEED PER PLAN)

(43) APPLY LEGEND "STOP" PER CALTRANS STD A24D

(45) APPLY YELLOW GORE STRIPING PER 2003 CA MUTCD, FIGURE 3B-8

(46) FURNISH AND INSTALL R4-7 SIGN AND OM2-1H ON 1 POST SET 8 FEET BACK OF MEDIAN NOSE BC/EC

(47) FURNISH AND INSTALL SIGN (AND POST IF NECESSARY) AS DESIGNATED ON THE PLAN. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE

(49) FURNISH AND INSTALL R8-3A, NO PARKING SIGNS. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE

(50) APPLY DOUBLE YELLOW STRIPING PER CALTRANS A20A, DETAIL 22

(61) APPLY LEGEND "SLOW" PER PER CALTRANS STD A24D

(65) INSTALL IN-ROADWAY WARNING LIGHT SYSTEM PER SPEC

(67) APPLY 12" WHITE STOP LIMIT-LINE PER 2003 CA MUTCD, SECTION 3B.16 & CONSTRUCTION STD 219

(73) APPLY WHITE PIANO BAR STYLE CROSSWALK, TYPE I PER CITY STANDARD PLAN 226

(74) APPLY YELLOW PIANO BAR STYLE CROSSWALK, TYPE I PER CITY STANDARD PLAN 226

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. METER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. METER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER R.C.E. 37413 DATE EXP. 6-30-12 11-7-11

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
SIGNING AND STRIPING
STA 5+00 TO STA 15+00

DRAWER NO. SS1

SHEET 14 OF 22

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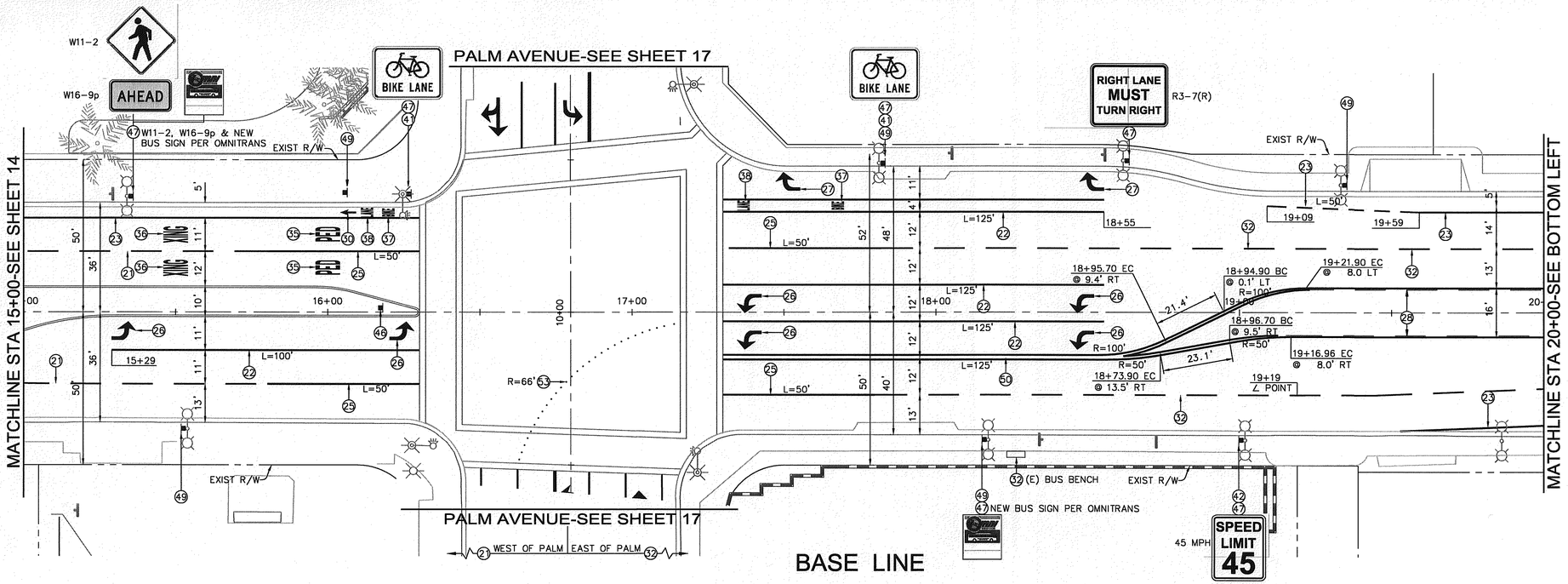

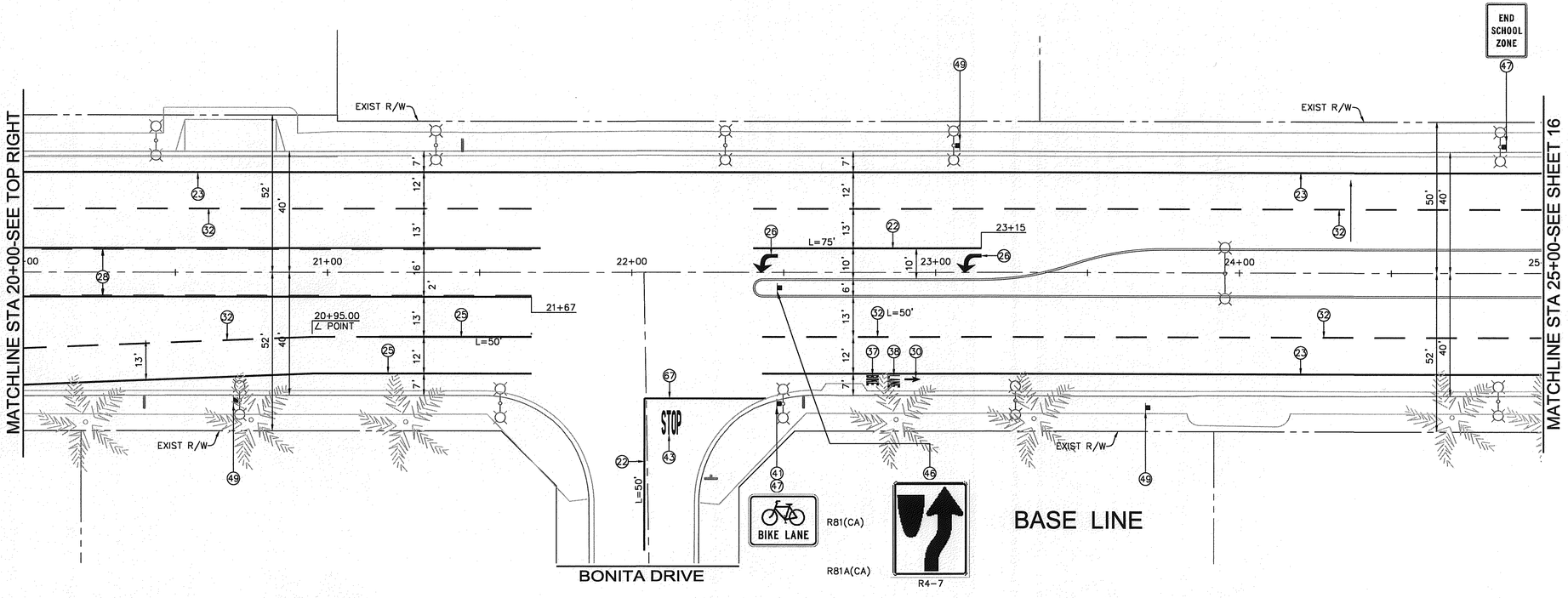

SIGNING & STRIPING NOTES

- (21) APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 9
- (22) APPLY 8" CHANNELIZING LINE PER CALTRANS STD A20D DETAIL 38A
- (23) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39
- (25) APPLY 4" SOLID LANE LINE PER CALTRANS STD
- (26) APPLY TYPE IV (L) ARROW PER CALTRANS STD A24A
- (27) APPLY TYPE IV (R) ARROW PER CALTRANS STD A24A
- (28) APPLY 2-WAY LEFT TURN LANE STRIPING PER CALTRANS STD A20B. DETAIL 31
- (30) APPLY BIKE LANE ARROW PER CALTRANS STD A24A
- (32) APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 12
- (35) APPLY LEGEND "PED" PER CALTRANS STD A24D
- (36) APPLY LEGEND "XING" PER CALTRANS STD A24D
- (37) APPLY LEGEND "BIKE" PER CALTRANS STD A24D
- (38) APPLY LEGEND "LANE" PER CALTRANS STD A24D
- (41) INSTALL "BIKE LANE" SIGNS R81 AND R81A OR R81B PER PLAN
- (42) INSTALL "XX MPH" SPEED LIMIT R2-1 SIGN (SPEED PER PLAN)
- (43) APPLY LEGEND "STOP" PER CALTRANS STD A24D
- (46) FURNISH AND INSTALL R4-7 SIGN AND OM2-1H ON 1 POST SET 8 FEET BACK OF MEDIAN NOSE BC/EC
- (47) FURNISH AND INSTALL SIGN (AND POST IF NECESSARY) AS DESIGNATED ON THE PLAN. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (49) FURNISH AND INSTALL R8-3A, NO PARKING SIGNS. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (50) APPLY DOUBLE YELLOW STRIPING PER CALTRANS A20A, DETAIL 22
- (53) APPLY DOTTED LINE MARKINGS PER 2003 CA MUTCD, FIGURE 3B-11, DETAIL D
- (57) PROTECT IN PLACE
- (67) APPLY 12" WHITE STOP LIMIT-LINE PER 2003 CA MUTCD, SECTION 3B.16 & CONSTRUCTION STD 219

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
SIGNING AND STRIPING
STA 15+00 TO STA 25+00

DRAWER NO. **SS2**

SHEET **15** OF **22**

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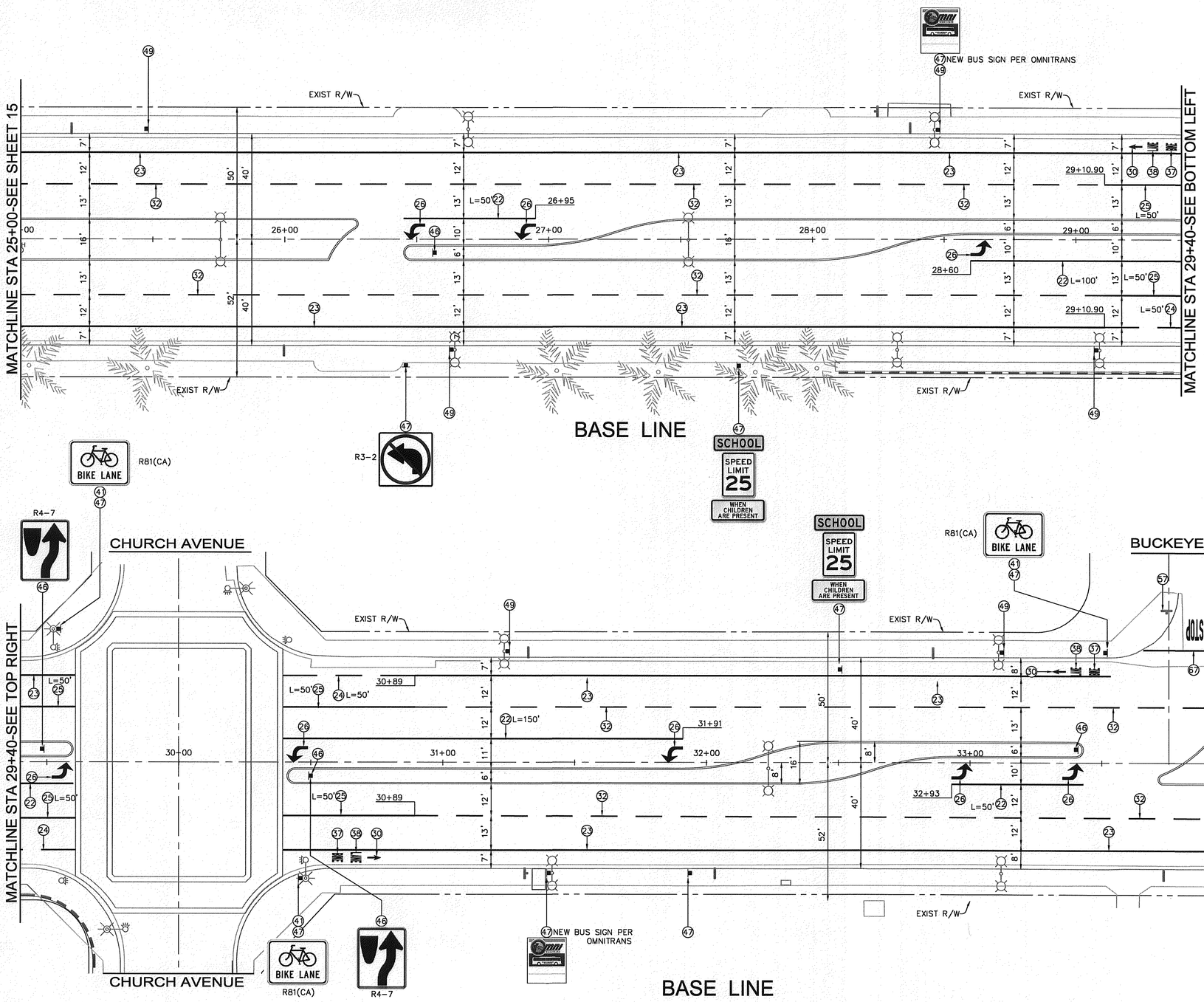

SIGNING & STRIPING NOTES

- (22) APPLY 8" CHANNELIZING LINE PER CALTRANS STD A20D DETAIL 38A
- (23) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39
- (24) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39A
- (25) APPLY 4" SOLID LANE LINE PER CALTRANS STD
- (26) APPLY TYPE IV (L) ARROW PER CALTRANS STD A24A
- (30) APPLY BIKE LANE ARROW PER CALTRANS STD A24A
- (32) APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 12
- (37) APPLY LEGEND "BIKE" PER CALTRANS STD A24D
- (38) APPLY LEGEND "LANE" PER CALTRANS STD A24D
- (41) INSTALL "BIKE LANE" SIGNS R81 AND R81A OR R81B PER PLAN
- (43) APPLY LEGEND "STOP" PER CALTRANS STD A24D
- (46) FURNISH AND INSTALL R4-7 SIGN AND OM2-1H ON 1 POST SET 8 FEET BACK OF MEDIAN NOSE BC/EC
- (47) FURNISH AND INSTALL SIGN (AND POST IF NECESSARY) AS DESIGNATED ON THE PLAN. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (49) FURNISH AND INSTALL R8-3A, NO PARKING SIGNS. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (57) PROTECT IN PLACE
- (67) APPLY 12" WHITE STOP LIMIT-LINE PER 2003 CA MUTCD, SECTION 3B.16 & CONSTRUCTION STD 219

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
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A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
SIGNING AND STRIPING
STA 25+00 TO STA 34+40

DRAWER NO. **SS3**

SHEET **16** OF **22**

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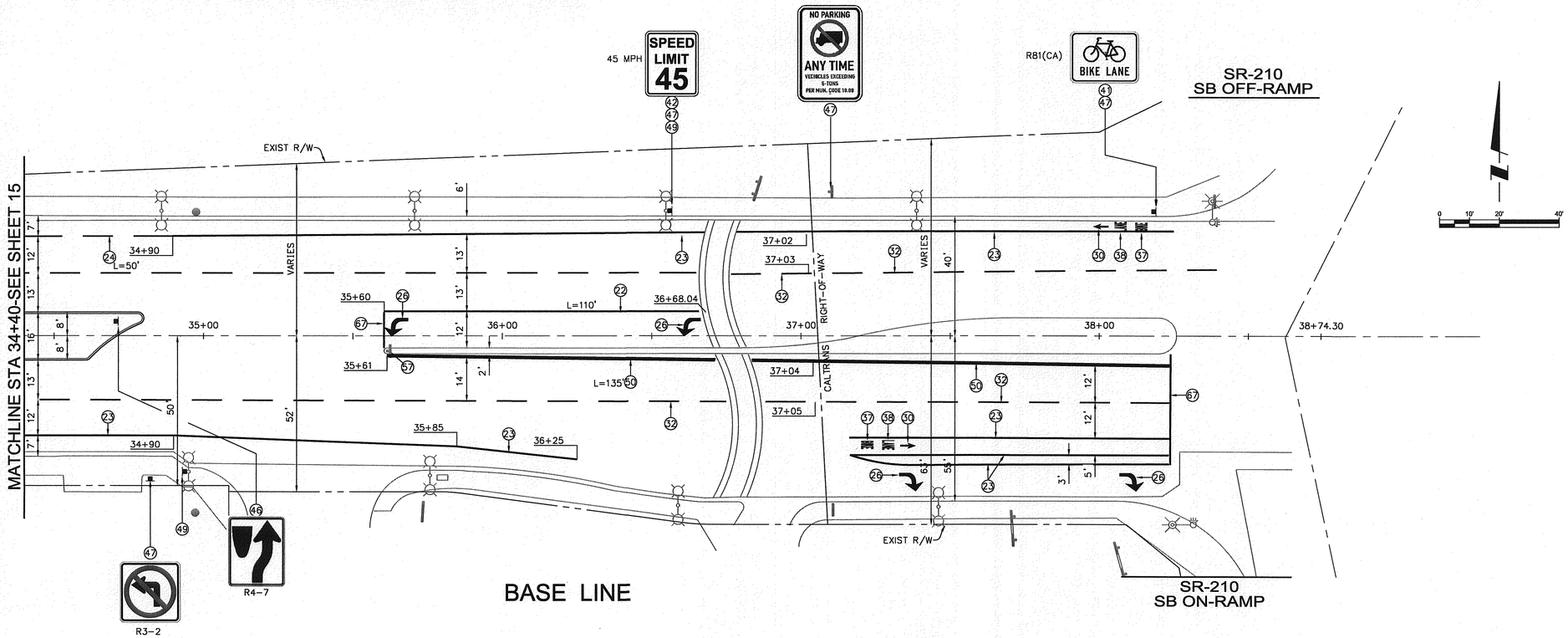
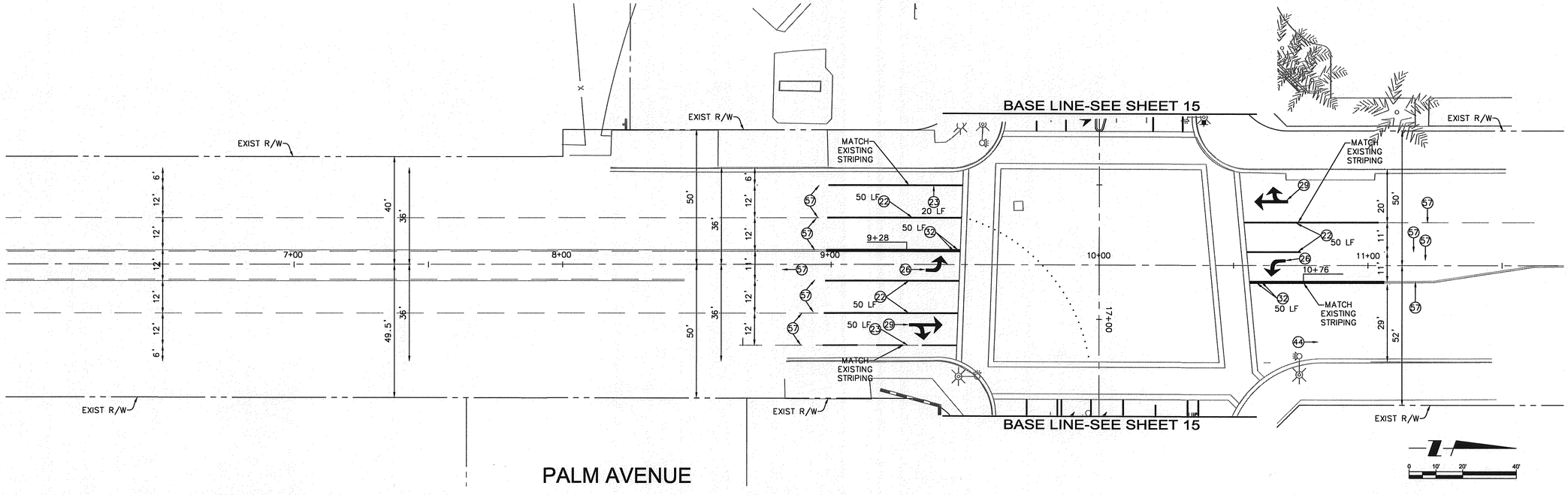


SIGNING & STRIPING NOTES

- (22) APPLY 8" CHANNELIZING LINE PER CALTRANS STD A20D DETAIL 38A
- (23) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39
- (24) APPLY 6" BIKE LANE LINE PER CALTRANS STD A20D DETAIL 39A
- (26) APPLY TYPE IV (L) ARROW PER CALTRANS STD A24A
- (29) APPLY TYPE VII (R) PER CALTRANS STD A24A
- (30) APPLY BIKE LANE ARROW PER CALTRANS STD A24A
- (32) APPLY 4" LANE LINE PER CALTRANS STD A20A, DETAIL 12
- (37) APPLY LEGEND "BIKE" PER CALTRANS STD A24D
- (38) APPLY LEGEND "LANE" PER CALTRANS STD A24D
- (41) INSTALL "BIKE LANE" SIGNS R81 AND R81A OR R81B PER PLAN
- (42) INSTALL "XX MPH" SPEED LIMIT R2-1 SIGN (SPEED PER PLAN)
- (44) APPLY TYPE VI, DROP LANE ARROW PER CALTRANS STD A24A
- (46) FURNISH AND INSTALL R4-7 SIGN AND OM2-1H ON 1 POST SET 8 FEET BACK OF MEDIAN NOSE BC/EC
- (47) FURNISH AND INSTALL SIGN (AND POST IF NECESSARY) AS DESIGNATED ON THE PLAN. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (49) FURNISH AND INSTALL R8-3A, NO PARKING SIGNS. BAND TO EXISTING STREET LIGHT WHERE APPLICABLE
- (50) APPLY DOUBLE YELLOW STRIPING PER CALTRANS A20A, DETAIL 22
- (57) PROTECT IN PLACE
- (67) APPLY 12" WHITE STOP LIMIT-LINE PER 2003 CA MUTCD, SECTION 3B.16 & CONSTRUCTION STD 219



BENCHMARK		SUBMITTED BY:	PLANS PREPARED BY:		REVISIONS				CITY OF HIGHLAND	BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)	
SB CO. BM NO 14-2 RESET BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE ELEVATION: 1231.407	REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA	DATE: 11/4/11 JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13	Associated Engineers 451 E. VANDERBILT WAY, STE.200 SAN BERNARDINO, CA 92408 Tel: 909.888.1106 Fax: 909.889.1884 A subsidiary of PB PARSONS BRINCKERHOFF		MARK	DESCRIPTION	APPR.	DATE	APPROVED BY ERNEST WONG, CITY ENGINEER DATE 11-7-11 R.C.E. 37413 EXP. 6-30-12	PROJECT No. STR07003 SCHEDULE I BASE LINE SIGNING AND STRIPING STA 34+40 TO STA 38+00	DRAWER NO. SS4 SHEET 17 OF 22

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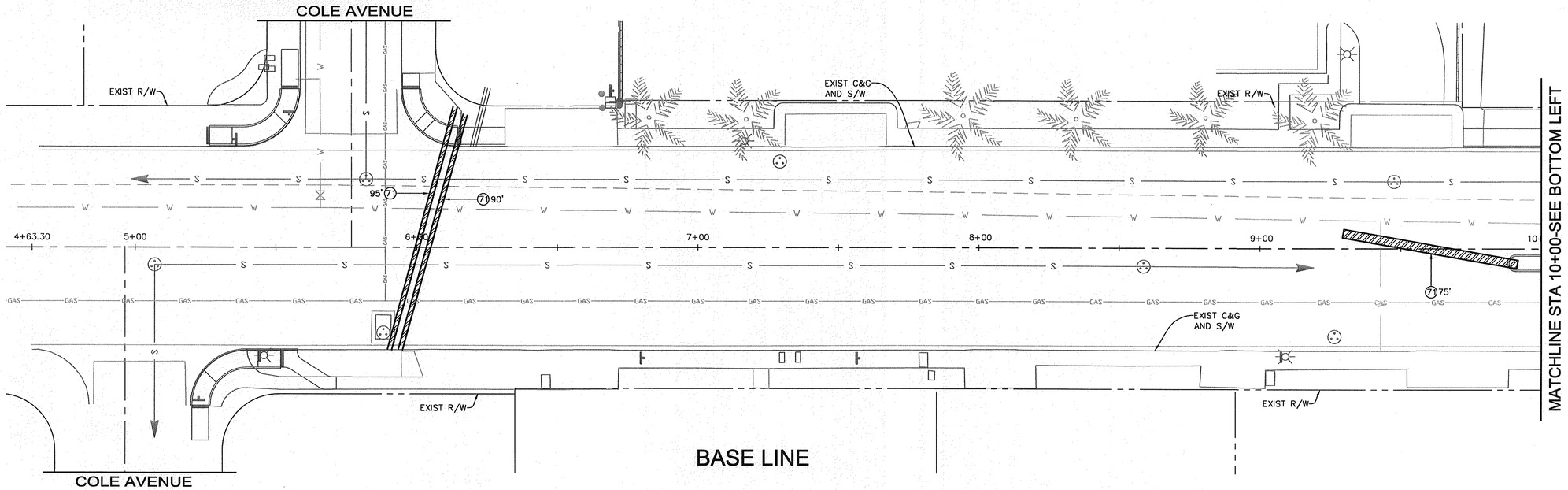
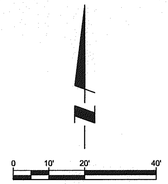




TRENCHING NOTES

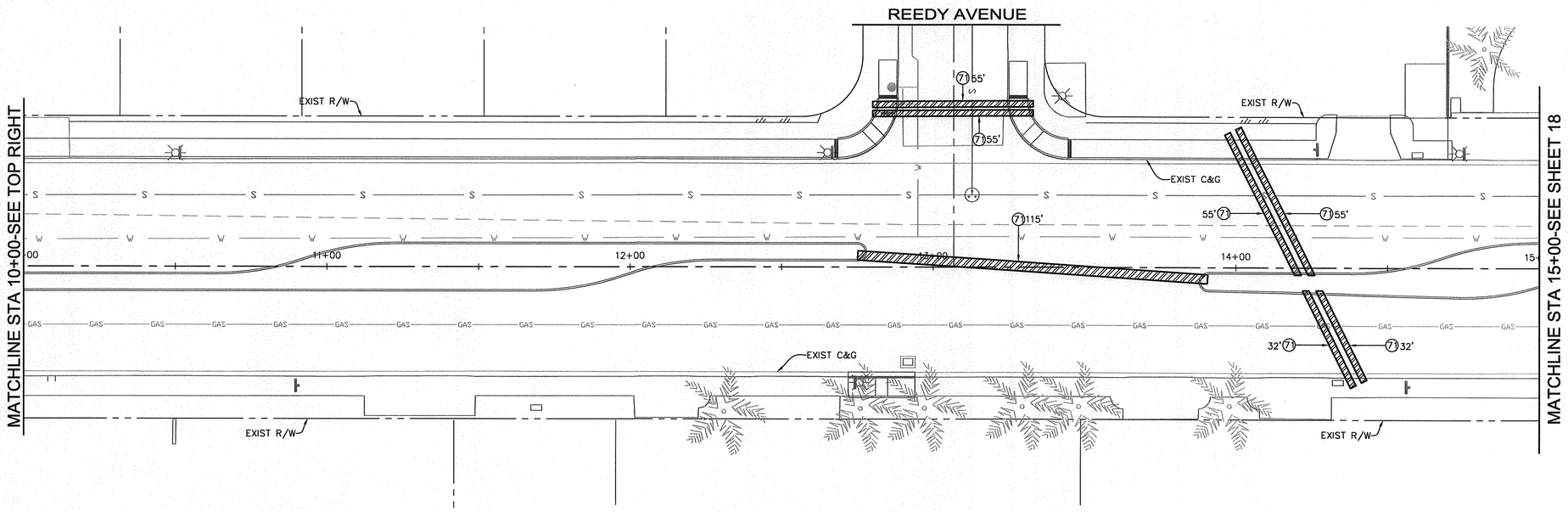
(69) REMOVE & DISPOSE EXISTING BRICKS

LEGEND

TRENCH

PULL BOX WITH TRAFFIC RATED LID

NOTE: THIS PLAN IS SCHEMATIC ONLY. REFER TO SCHEDULE 2 LANDSCAPE PLANS FOR PRECISE LOCATION.



BENCHMARK		SUBMITTED BY:	PLANS PREPARED BY:		REVISIONS					
SB CO. BM NO 14-2 RESET BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE ELEVATION: 1231.407	REGISTERED PROFESSIONAL ENGINEER JEFFREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA	DATE: 11/4/11 JEFFREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13	Associated Engineers 451 E. VANDERBILT WAY, STE.200 SAN BERNARDINO, CA 92408 Tel: 909.888.1106 Fax: 909.889.1884 A subsidiary of PB PARSONS BRINCKERHOFF		MARK	DESCRIPTION	APPR.	DATE		

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

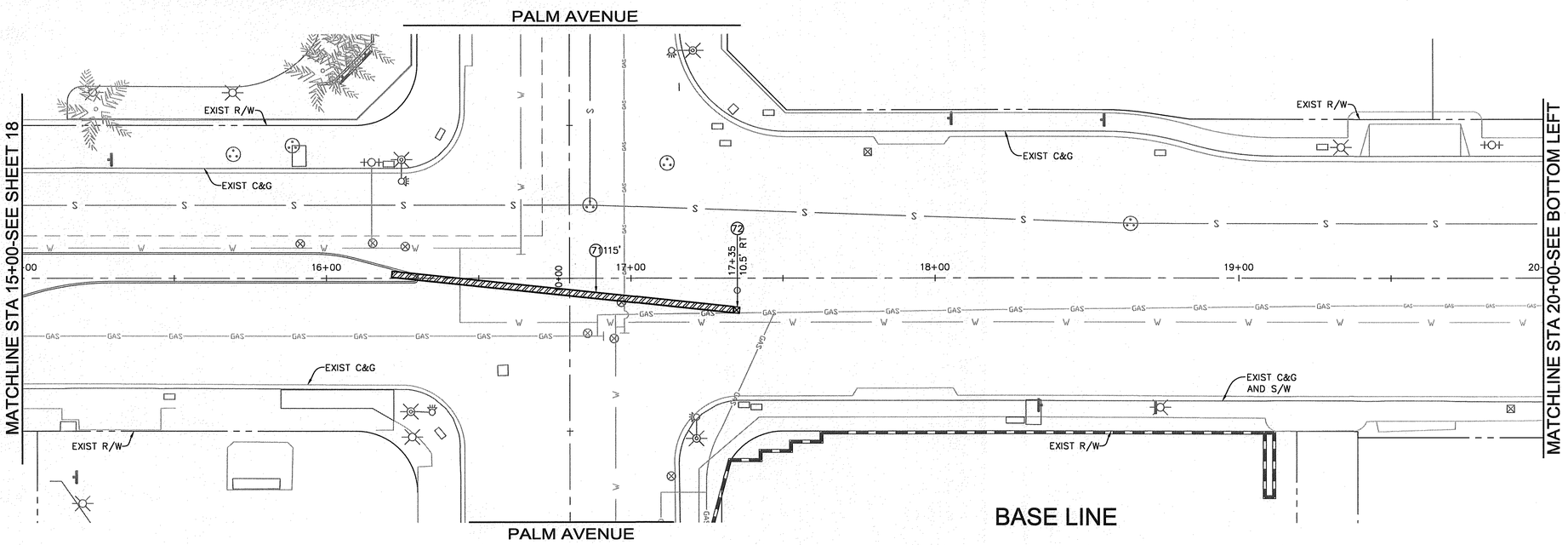
BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

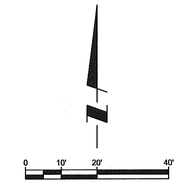
PROJECT No. STR07003
SCHEDULE I
BASE LINE
TRENCHING PLAN
STA 5+00 TO STA 15+00

DRAWER NO. **E1**

SHEET **18** OF **22**

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\18-E1.dwg Nov 05, 2011 - 12:08am meiter





TRENCHING NOTES

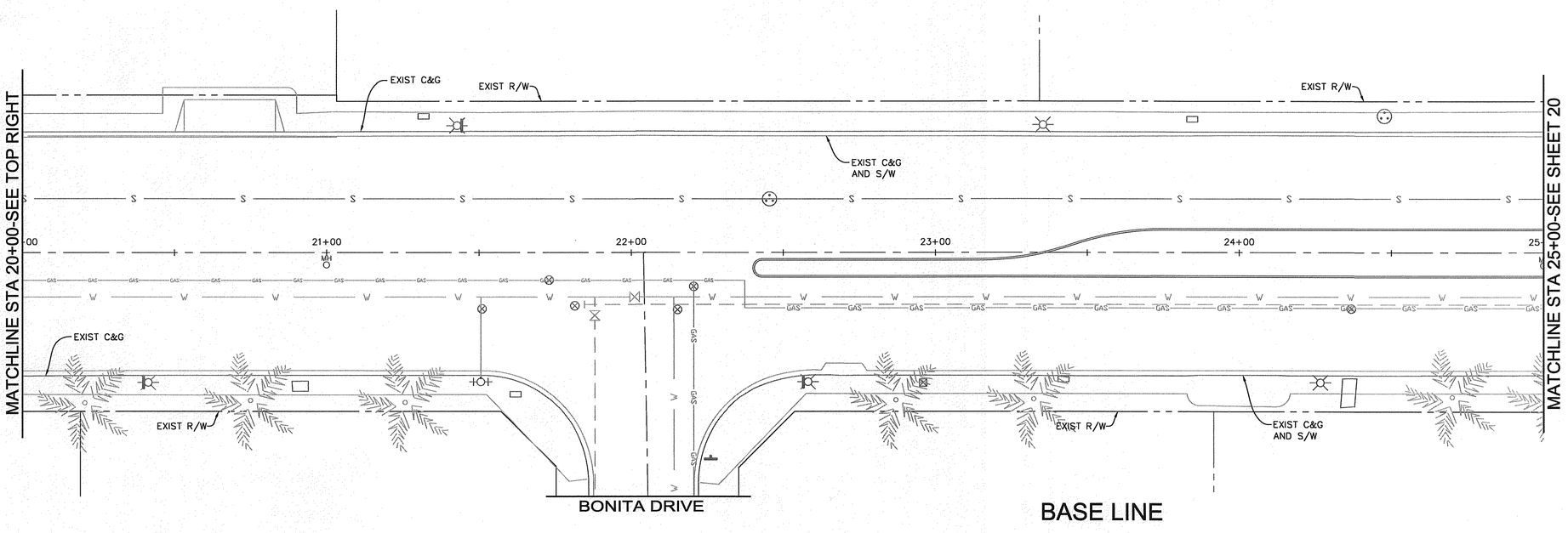
(71) CONSTRUCT TRENCH REPAIR PER CONSTRUCTION STD 221

LEGEND

TRENCH

PULL BOX WITH TRAFFIC RATED LID

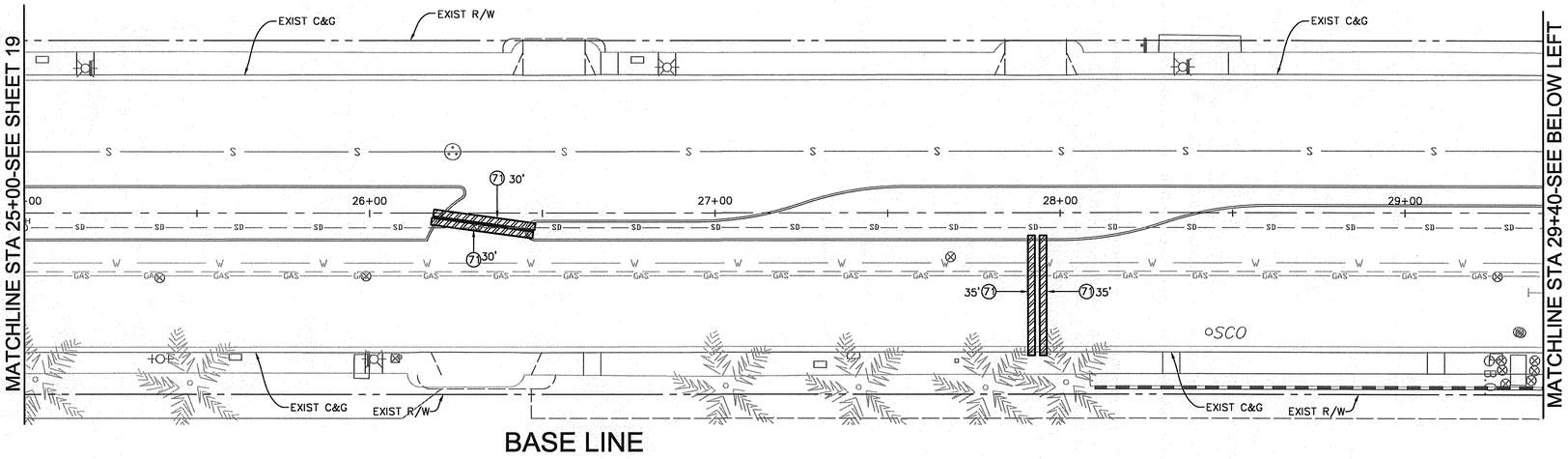
NOTE: THIS PLAN IS SCHEMATIC ONLY. REFER TO SCHEDULE 2 LANDSCAPE PLANS FOR PRECISE LOCATION.

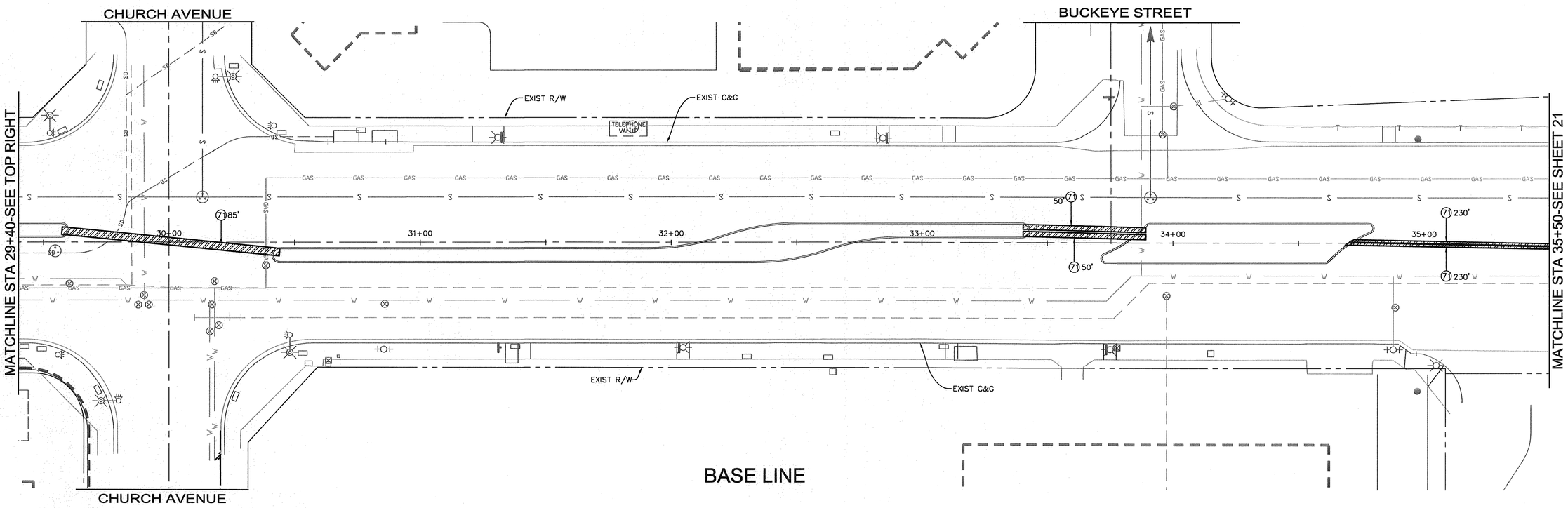


BENCHMARK		SUBMITTED BY:	PLANS PREPARED BY:		REVISIONS				CITY OF HIGHLAND	BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)	
SB CO. BM NO 14-2 RESET BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE ELEVATION: 1231.407	REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA	DATE: 11/4/11 JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13	Associated Engineers 451 E. VANDERBILT WAY, STE.200 SAN BERNARDINO, CA 92408 Tel: 909.888.1106 Fax: 909.889.1884 A subsidiary of PB PARSONS BRINCKERHOFF		MARK	DESCRIPTION	APPR.	DATE	APPROVED BY ERNEST WONG, CITY ENGINEER DATE 11-7-11 R.C.E. 37413 EXP. 6-30-12	PROJECT No. STR07003 SCHEDULE I **BASE LINE** TRENCHING PLAN STA 15+00 TO STA 25+00	DRAWER NO. **E2** SHEET **19** OF **22**

File: L:\2007\07010\07-010-0703\07-010-0703 P\DWG\SHEET\FULL SET PUBLIC_ONLY\19-E2.dwg Nov 05, 2011 - 12:25am meiter

NOTE: THIS PLAN IS SCHEMATIC ONLY, REFER TO SCHEDULE 2 LANDSCAPE PLANS FOR PRECISE LOCATION.





TRENCHING NOTES

71 CONSTRUCT TRENCH REPAIR PER CONSTRUCTION STD 221

LEGEND

TRENCH

PULL BOX WITH TRAFFIC RATED LID

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
TRENCHING PLAN
STA 25+00 TO STA 35+50

DRAWER NO. **E3**

SHEET **20** OF **22**

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NOTE: THIS PLAN IS SCHEMATIC ONLY, REFER TO SCHEDULE 2 LANDSCAPE PLANS FOR PRECISE LOCATION.

0 10' 20' 40'

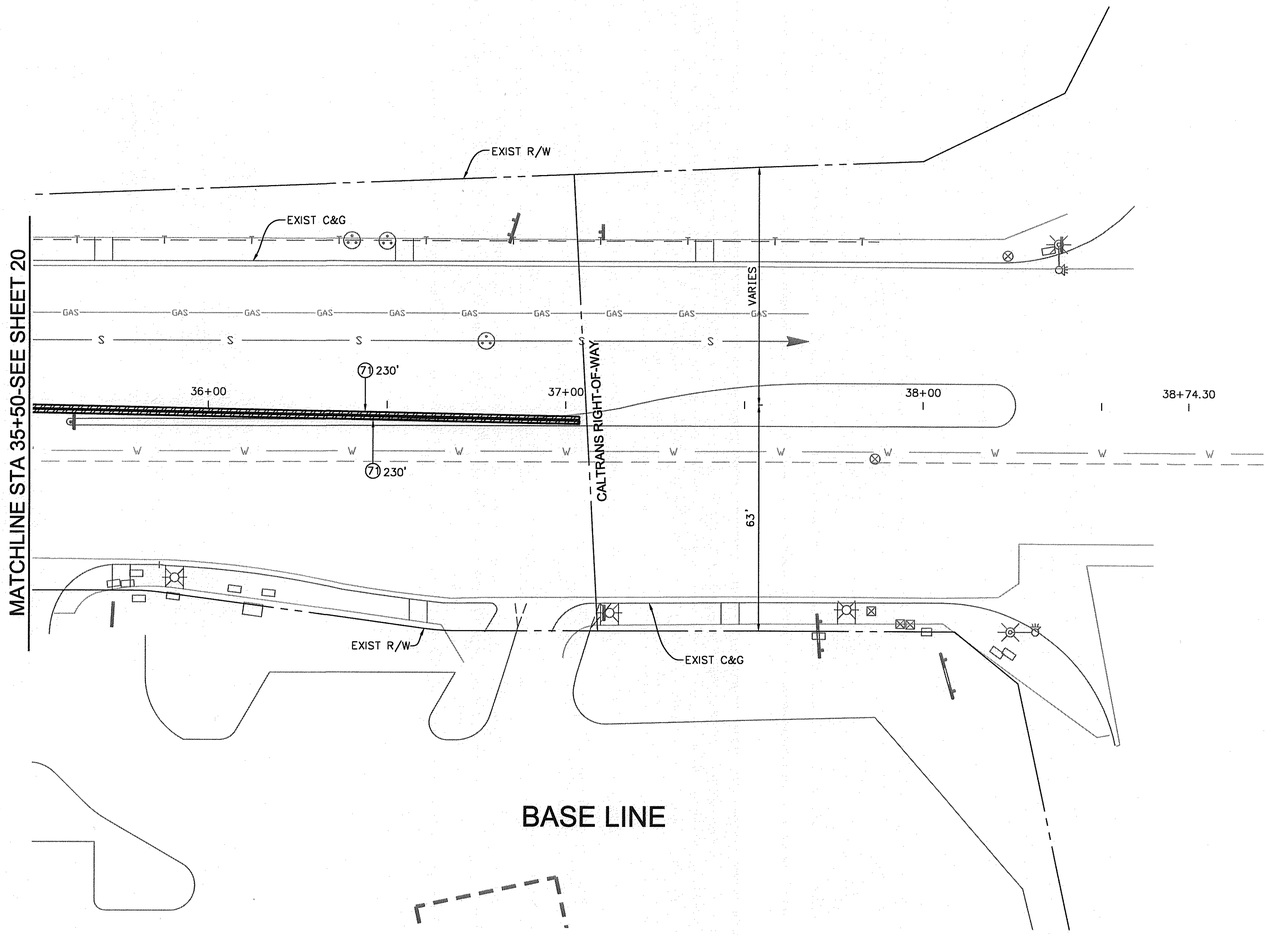
TRENCHING NOTES

(71) CONSTRUCT TRENCH REPAIR PER CONSTRUCTION STD

LEGEND

TRENCH

PULL BOX WITH TRAFFIC RATED LID



BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFEREY D. MEITER No. 64696 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. MEITER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.889.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
TRENCHING PLAN
STA 35+50 TO STA 38+74.30

DRAWER NO. **E4**

SHEET **21** OF **22**

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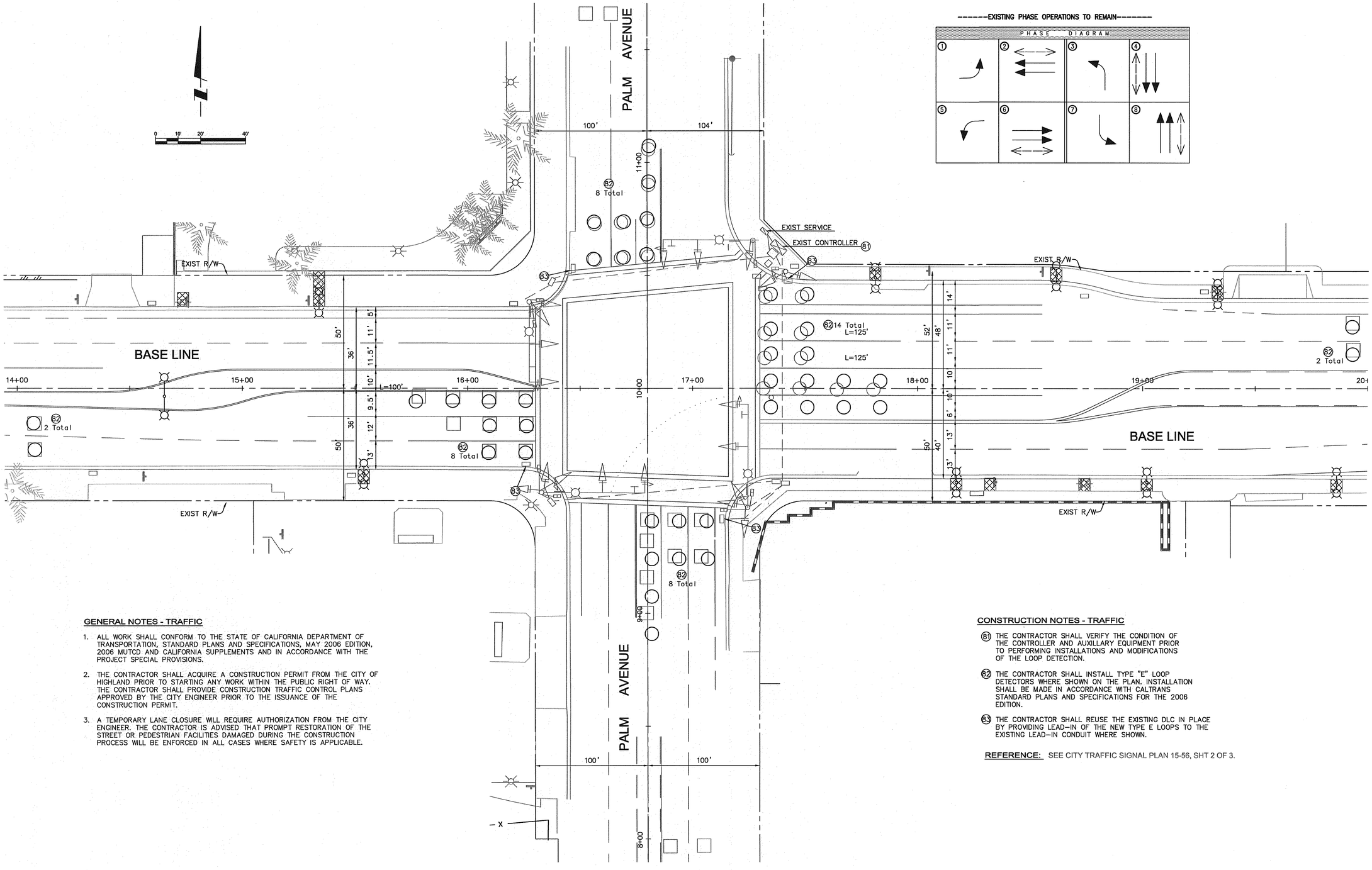

------EXISTING PHASE OPERATIONS TO REMAIN-------

GENERAL NOTES - TRAFFIC

1. ALL WORK SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND SPECIFICATIONS, MAY 2006 EDITION, 2006 MUTCD AND CALIFORNIA SUPPLEMENTS AND IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL ACQUIRE A CONSTRUCTION PERMIT FROM THE CITY OF HIGHLAND PRIOR TO STARTING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION TRAFFIC CONTROL PLANS APPROVED BY THE CITY ENGINEER PRIOR TO THE ISSUANCE OF THE CONSTRUCTION PERMIT.
3. A TEMPORARY LANE CLOSURE WILL REQUIRE AUTHORIZATION FROM THE CITY ENGINEER. THE CONTRACTOR IS ADVISED THAT PROMPT RESTORATION OF THE STREET OR PEDESTRIAN FACILITIES DAMAGED DURING THE CONSTRUCTION PROCESS WILL BE ENFORCED IN ALL CASES WHERE SAFETY IS APPLICABLE.

CONSTRUCTION NOTES - TRAFFIC

B1 THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE CONTROLLER AND AUXILLARY EQUIPMENT PRIOR TO PERFORMING INSTALLATIONS AND MODIFICATIONS OF THE LOOP DETECTION.

B2 THE CONTRACTOR SHALL INSTALL TYPE "E" LOOP DETECTORS WHERE SHOWN ON THE PLAN. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH CALTRANS STANDARD PLANS AND SPECIFICATIONS FOR THE 2006 EDITION.

B3 THE CONTRACTOR SHALL REUSE THE EXISTING DLC IN PLACE BY PROVIDING LEAD-IN OF THE NEW TYPE E LOOPS TO THE EXISTING LEAD-IN CONDUIT WHERE SHOWN.

REFERENCE: SEE CITY TRAFFIC SIGNAL PLAN 15-56, SHT 2 OF 3.

BENCHMARK

SB CO. BM NO 14-2 RESET

BRASS CAP IN TOP OF CURB AT NW CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1231.407

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. METZER No. 64696 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/4/11

JEFFEREY D. METZER R.C.E. No. 64696 Exp. 06-30-13

PLANS PREPARED BY:

Associated Engineers
451 E. VANDERBILT WAY, STE.200
SAN BERNARDINO, CA 92408
Tel: 909.888.1106 Fax: 909.888.1884
A subsidiary of PB PARSONS BRINCKERHOFF

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER DATE 11-7-11
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION (COLE AVENUE TO STATE ROUTE 210)

PROJECT No. STR07003
SCHEDULE I
BASE LINE
TRAFFIC SIGNAL PLAN
BASE LINE AVENUE AT PALM AVENUE

DRAWER NO. **TS1**

SHEET **22** OF **22**

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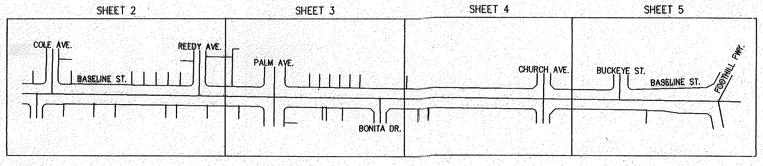
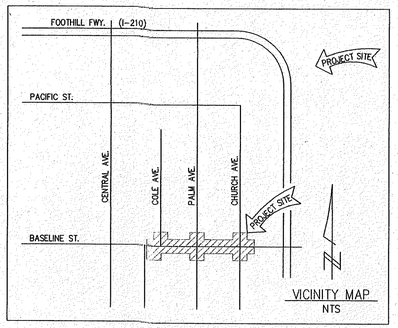


N

SHEET INDEX
NTS



VICINITY MAP
NTS

THOMAS GUIDE MAP PAGES
SAN BERNARDINO CO. 577-H5, J5

CONSTRUCTION NOTES:

Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company.

Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
   b. Minimum cover on private property is 30" below finished grade, unless noted otherwise.
   c. Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 100.1, 110 AND 120.
   d. For the type of conduit for this job, See UGS CD 110.1.
   e. Install all risers per UGS CD 160, 161, 162 and 170.
   f. Cap all mainline conduits per UGS CD 148 and service conduits per UGS CD 150.
   g. Install blank conduit plugs in all conduits terminating into Vaults, Manhole's, PMH's, SOE's & all cap locations, per UGS CD 180.1 & UGS CD 180.2
   h. Install pull rope in all conduit runs. Pull rope to be 1/4" polypropylene or polyethylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS GI 040.
   i. All conduit must be mandrelled with the approved mandrel UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a: The minimum radius for bends are:
      36" for conduits 3" in diameter or smaller
      48" for conduits 4" and 5" in diameter
      60" for 6" diameter conduit
   b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).

4. EXCAVATION AND BACKFILL:
   a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
   b. All excavations shall be in accordance with the California State Construction Safety Orders (when applicable), Edison specifications, and all governing local ordinances.
   c. Each trench to be a uniform depth below final grade prior to installation of Edison conduit or structures.
   d. Backfill shall be provided by the Contractor for all excavations and shall include crushed rock, concrete, and/or imported backfill, when required.
   e. Backfill with a MINIMUM of one sack per yard sand cement slurry around and over vaults and manholes per UGS GI 030, section 6.4 and around PMH's within one foot of finished grade, per UGS SS 590.1.
   f. Backfill, per Edison specifications, shall immediately follow conduit or substructure installation. At no time shall conduit be left exposed over 24 hours.
   g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, no rocks larger than 12" diameter are permitted.
   h. All backfill shall be compacted to meet or exceed local ordinances or other requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or structures.

5. PAVING:
   Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall establish a program of repaving acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.

6. STRUCTURES:
   a. All substructures shall be constructed or installed to Edison specifications.
   b. Install protection barriers per UGS MS 830 when required in areas exposed to traffic, per Edison Inspector.
   c. All conduit lines and concrete floored substructures shall be water tight.
   d. All grounding materials shall be furnished and installed by the Contractor.

7. RETAINING WALLS:
   When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same, or in areas subject to erosion. Design and installation must comply with local building ordinances. Refer to Edison Inspector for typical space requirements.

8. PERMITS:
   All permits necessary for excavation shall be provided by the Contractor/Developer.

9. ACCESS:
   Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment.

10. SERVICES:
    a. Meters and services shall comply with Edison Electrical Services Requirements.
    b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities.

11. LOCATION:
    a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
    b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.

12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.

13. SURVEY:
    Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and property line stakes must show any offset measurements.

14. COORDINATION AND SUPERVISION:
    The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
    The drawing prepared for this job may also cover the facilities to be installed for the telephone company and/or other utility. Any questions concerning details of their installation should be referred to the company concerned.

16. OWNERSHIP:
    Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned.

17. WARRANTY:
    Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations herein are free from defects in workmanship and are in conformity with Southern California Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction and that of any governmental agency having jurisdiction and at Applicant's expense any breach of this warranty which may become apparent through inspection or operation of underground electric system by Company during this warranty period.

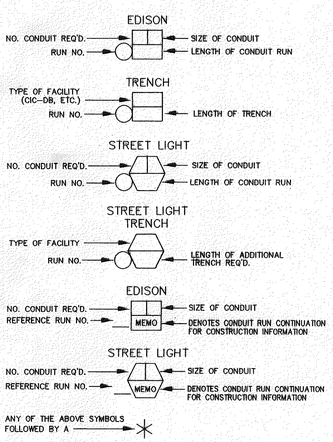
18. INSPECTION:
    Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.

Duct and Structure Inspector: Phone:

Cabling Construction Coordinator: Phone:

D05: Rev. 07/17/07

LEGEND OF CONDUIT SYMBOLS
(CONVENTIONAL U. G.)



DENOTES THE FOLLOWING:

DB CONDUIT WITHOUT ENCASEMENT IS ACCEPTABLE FOR PORTIONS OF TRENCH WITH ONLY ONE OR TWO CONDUITS

SEMI-ENCASEMENT IS REQUIRED FOR PORTIONS OF TRENCH WITH ONLY THREE OR FOUR CONDUITS

FULL ENCASEMENT IS REQUIRED FOR MORE THAN FOUR CONDUITS

D18: Rev. 5/08/2006

LIST OF MATERIALS
[EDISON CO.]

NOTES:
1. Footage quantites are approximate.
2. Where reference is to an item not detailed, see separate description list.
3.. This list provides a summary of major items.

SEE UGS SECTION INDEX FOR REFERENCE DRAWINGS

QUAN.	UNIT	DESCRIPTION	SIZE	ITEM NO.	REF DWG.	REV. DATE

D04: Rev. 07/17/07

CONCRETE PRODUCTS

Precast concrete item complete with neck. Cover and inserts may be obtained from any of the following listed and approved manufactureres:

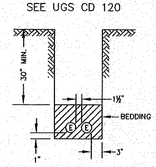
JENSEN PRECAST
14221 San Bernardino Ave., Fontana, Calif. 92335
Phone: (909) 350-4111
(800) 257-6100

UTILITY VAULT CO.
10650 Hemlock Ave., Fontana, Calif. 92337
Phone: (909) 428-3700
(800) 626-3860

FOR HANDHOLE AND PULLBOX MANUFACTURERS, SEE UGS HP 200.

D11: Rev. 7/21/09

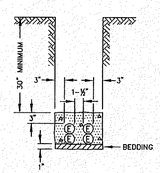
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



DIRECT BURIAL
SIMILAR CONSTRUCTION FOR FEWER CONDUIT 2 CONDUITS MAX.

D61: Rev. 09/23/09

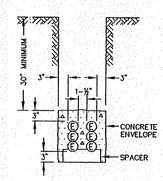
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



SEMI-ENCASEMENT
3 OR 4 CONDUITS

D73: Rev. 09/23/09

TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



FULL ENCASEMENT
MORE THAN 4 CONDUITS
(BASE SPACER REQUIRED)

D72: Rev. 09/23/09

LEGEND OF DRAFTING SYMBOLS
(Residential)

TRENCH
- ALL NEW CONDUIT
- PRIMARY CABLES
- SECONDARY CABLES
- SERVICE CABLES
- STREET LIGHT CABLES

STRUCTURES
- PULL BOX
- HANDHOLE
- SUBSURFACE STRUCTURE
- PAD
- BURD SWITCH ENCLOSURE
- BURD TRANSFORMER ENCLOSURE
- STREET LIGHT ELECTROLIER
- FIRE HYDRANT

RUN NUMBER CALL-OUTS AS FOLLOWS:

1 - 99	MAINLINE CONDUIT
100 - 199	SERVICE CONDUIT
400 - 599	STREET LIGHT CONDUIT

D84: Rev. 2/12/08

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

UNDERGROUND SERVICE ALERT
Dial 811
Call USA
For Underground Locating
2 Working Days Before You Dig

CONTRACTOR _____

COST PLUS ☐ FIRM ☐ DEV. ☐

INCLUDES TERM. PAVING YES ☐ NO ☐

PERMIT NUMBER _____

DATE STARTED _____

DATE COMPLETED _____

INSPECTOR _____

PRECASTER _____ CONDUIT _____

CONNECTING TO EXISTING SCE STRUCTURES

- Per SCE requirements, customers are not allowed to enter, intercept or tie-in to existing SCE structures, equipment or conductors. This work will only be performed by SCE. Contact the appropriate SCE inspector to schedule an appointment. Customers may connect to an existing duct stub without a SCE inspector present.
- Per CPUC/SCE's Rule 15 B.1.A and Rule 16 D.1.A., the customer will provide all necessary excavations (with the exception of excavation under pads and primary splice boxes), material (including conduit and structures) and encasement, to be utilized in the intercept/tie-in process.
- The customer must adhere to all applicable Cal-OSHA, local, city, state and federal regulations, (including, but not limited to, all necessary shoring and traffic control in place to perform the intercept/tie-in work by SCE's underground civil contractors(s))
- Intercept/tie-in work must be coordinated with SCE's civil contractors through the Division Inspector/CCM to limit exposure of excavation(s). Customer is responsible for securing excavation(s).

D08: 12/10/07

WHERE CONDUITS ARE PICKED UP OR INTERCEPTED, CONDUIT SHALL BE MANDRELLED AND PULL ROPE INSTALLED FROM TERMINAL TO TERMINAL.

INVENTORY MAP NO.
SAN BERNARDINO COUNTY
226-2238-0 227-2238-0
226-2239-5 227-2239-5
226-2241-0 227-2241-0

THIS PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRIC SUBSTRUCTURES

Developer: _____
Attn: _____
Address: _____
Telephone: _____
FAX: _____

Dwg./Rev.	Developer's Signature	Date
Original		
Rev.		
Rev.		
Rev.		

CHANGES IN THESE PLANS WILL REQUIRE AN ADDITIONAL 3 TO 4 WEEKS AND CUSTOMER WILL BE CHARGED IN ADVANCE FOR REQUESTED CHANGES.

D26: Rev. 02/12/08

PRELIMINARY
Not For Construction

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

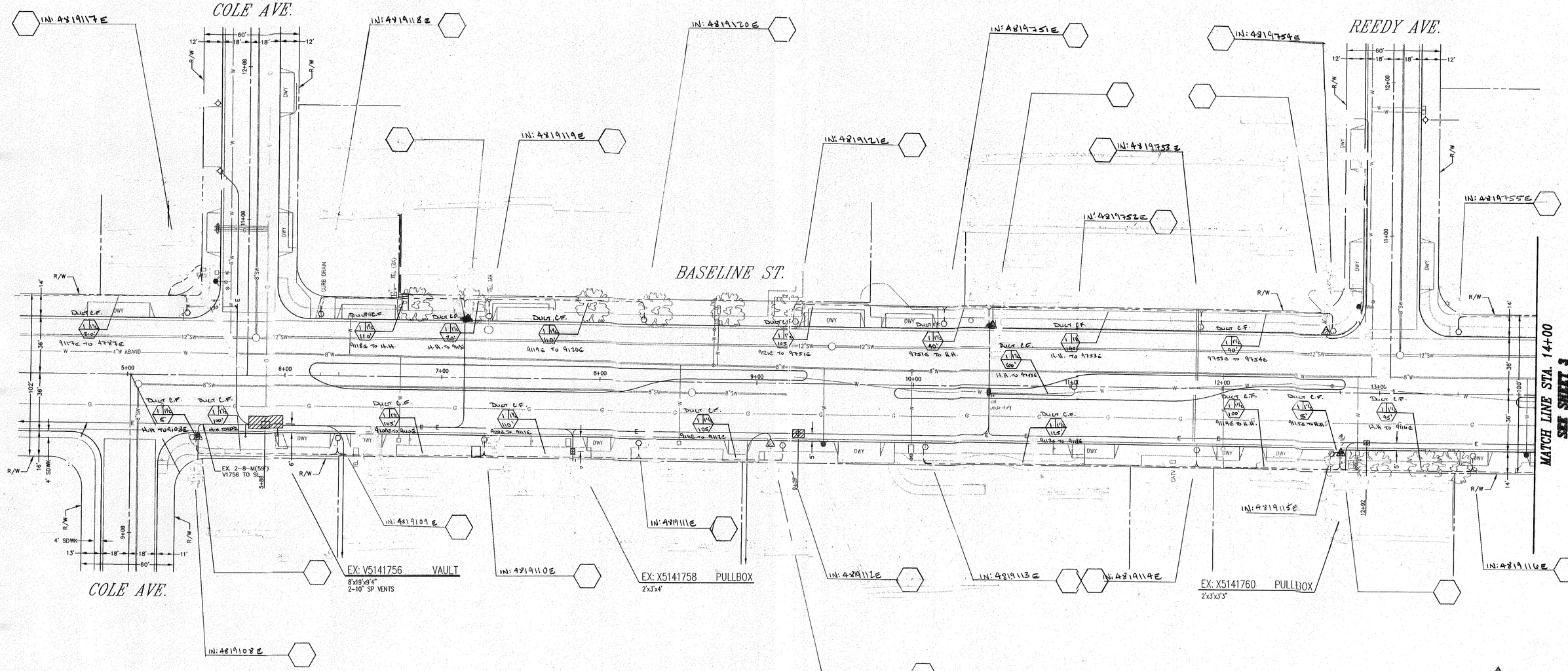
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #
B		06/07/11	TD	FES	

Southern California Edison Company

DISTRICT: 31 – REDLANDS
FOREMAN
PROJ. MGR. ED MERCADO
PHONE
PLANNER
PHONE
SR NO. 1413373
TRUCK NO. | P/E | INVENTORY MAP NO. SEE ABOVE | THOMAS GUIDE SEE VIC. MAP | GRID NO.
DESIGN NO. 351677
CSD 140 Y ____ N ____ | BY-PASS CODE
EXISTING ____ CHANGE TO ____ | TLM ____ CHECKED ____ %LOAD
J.P.A. NO.
ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD 521613
PRODUCT/SAP NO.
PRODUCT/SAP NO.

PROPOSED CONSTRUCTION (LOCATION)
BASELINE STREET
HIGHLAND

SHEET 1 OF 5
JOB NO. 0356177



SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

SCALE: 1 IN = 30 FT

0 30 60

INVENTORY MAP NO.

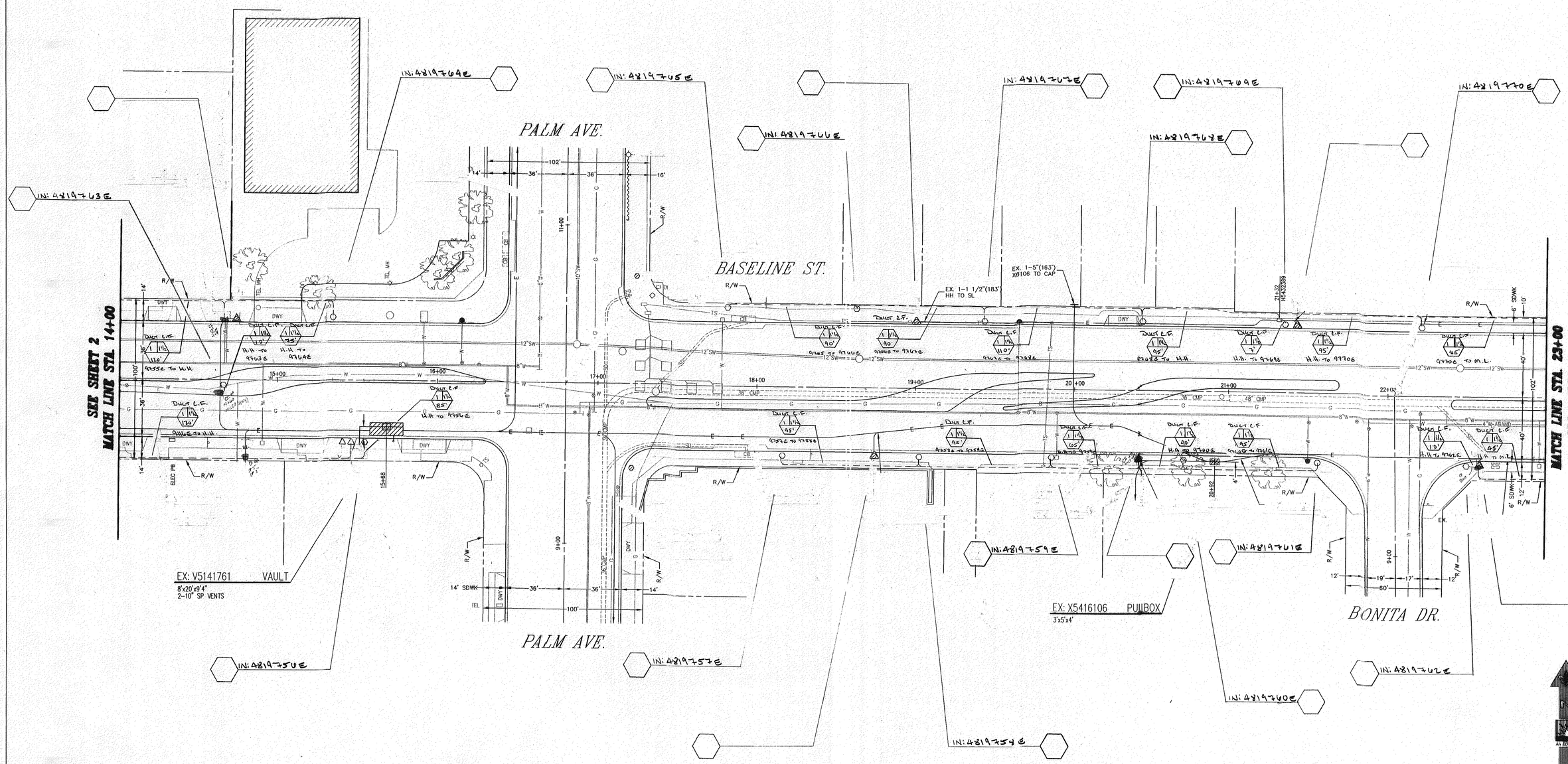
SAN BERNARDINO COUNTY	
226-2238-0	227-2238-0
226-2239-5	227-2239-5
226-2241-0	227-2241-0

PRELIMINARY
Not For Construction

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

DISTRICT 31 – REDLANDS	PROJ. MGR. ED MERCADO PHONE		PLANNER PHONE			SR NO. 1413373
FOREMAN	TRUCK NO.	P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE VIC. MAP	GRID NO.	DESIGN NO. 351677
CSD 140 Y___ N___	BY-PASS CODE	EXISTING ___ CHANGE TO ___	TLM CHECKED ___ %LOAD		J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD 521613		PRODUCT/SAP NO.				PRODUCT/SAP NO.
						PROPOSED CONSTRUCTION (LOCATION) BASELINE STREET HIGHLAND
B		06/07/11	TD	FES		SHEET 2 OF 5
TYPE	APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	JOB NO. 0356177

Southern California Edison Company



SCALE: 1 IN = 30 FT

0 30 60

INVENTORY MAP NO.
SAN BERNARDINO COUNTY
226-2230-0 227-2238-0
226-2239-5 227-2239-5
226-2241-0 227-2241-0

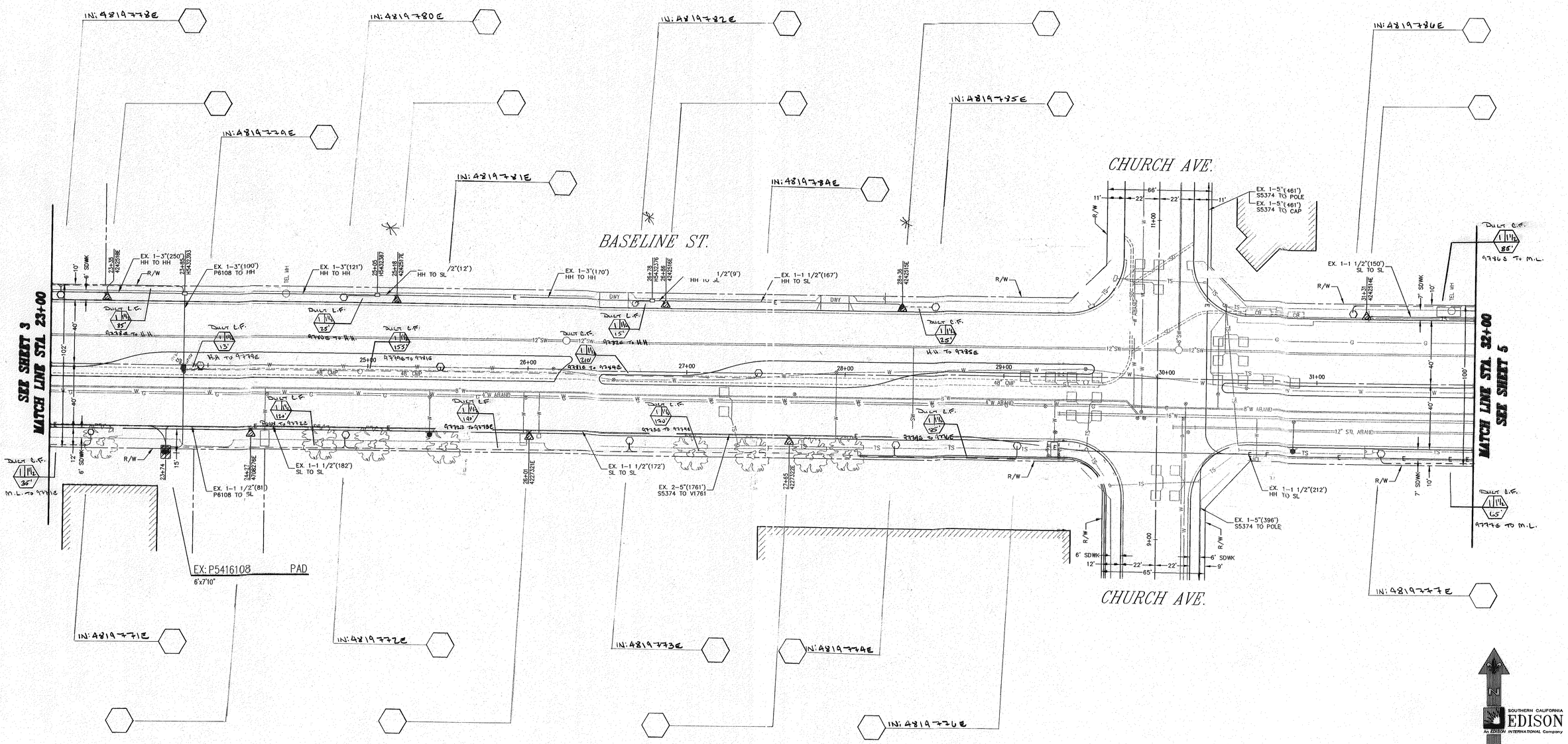
PRELIMINARY
Not For Construction

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

DISTRICT 31 – REDLANDS	PROJ. MGR. ED MERCADO PHONE		PLANNER PHONE		SR NO. 1413373
FOREMAN	TRUCK NO. / P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE VIC. MAP	GRID NO.	DESIGN NO. 351677
CSD 140 Y ___ N ___ / BY-PASS CODE	EXISTING ___ CHANGE TO ___	TLM CHECKED ___ %LOAD		J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD 521613		PRODUCT/SAP NO.			PRODUCT/SAP NO.
					PROPOSED CONSTRUCTION (LOCATION)
					BASELINE STREET HIGHLAND
B	06/07/11	TD	FES		SHEET 3 OF 5
TYPE / APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #	JOB NO. 0356177

Southern California Edison Company

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

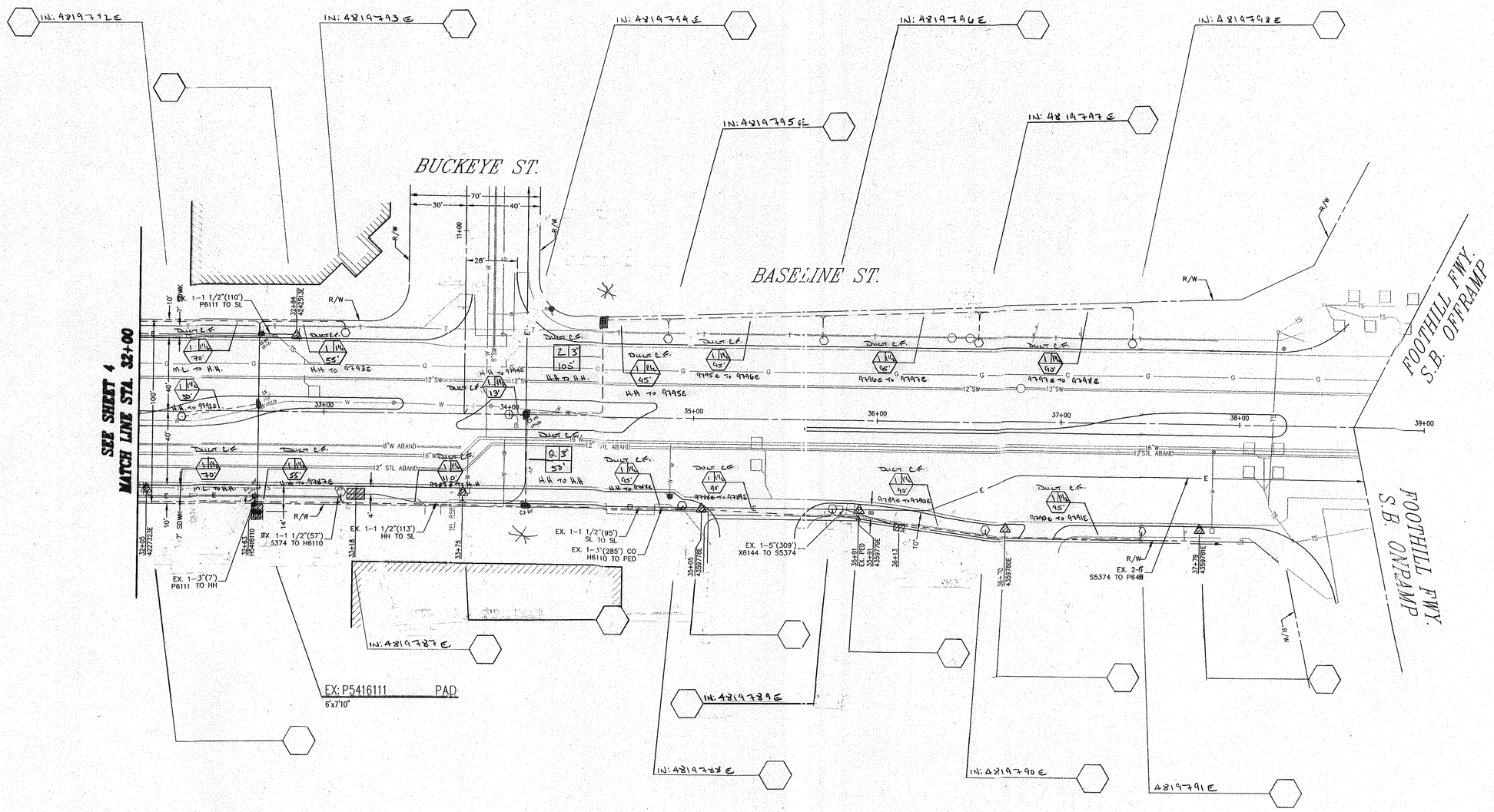


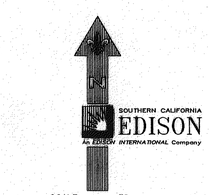
INVENTORY MAP NO.
SAN BERNARDINO COUNTY
226-2238-0 227-2238-0
226-2239-5 227-2239-5
226-2241-0 227-2241-0

PRELIMINARY
Not For Construction

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

DISTRICT 31 – REDLANDS	PROJ. MGR. ED MERCADO	PLANNER		SR NO. 1413373
FOREMAN	PHONE / TRUCK NO. / P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE VIC. MAP / GRID NO.	DESIGN NO. 351677
CSD 140 Y___ N___ / BY-PASS CODE	EXISTING / CHANGE TO	TLM / CHECKED / ROLOAD	J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD 521613		PRODUCT/SAP NO.		PRODUCT/SAP NO.
B	06/07/11	TD	FES	PROPOSED CONSTRUCTION (LOCATION) BASELINE STREET HIGHLAND
TYPE / APPROVED BY	DATE	CHECKED BY	DRAWN BY	PAX #
Southern California Edison Company				SHEET 4 OF 5 / JOB NO. 0356177





INVENTORY MAP NO.
SAN BERNARDINO COUNTY
22E-2238-0 227-2238-0
22E-2239-5 227-2239-5
22E-2241-0 227-2241-0

PRELIMINARY
Not For Construction

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED

DISTRICT 31 – REDLAND	PROJ. MGR. ED MERCADO PHONE		PLANNER PHONE	SR NO. 1413373
FOREMAN	TRUCK NO. P/E	INVENTORY MAP NO. SEE ABOVE	THOMAS GUIDE SEE VIC. MAP / GRID NO.	DESIGN NO. 351677
CSD 140 Y ___ N ___ / BY-PASS CODE	EXISTING ___ CHANGE TO ___ / TLM CHECKED ___		J.P.A. NO.	ASSOCIATED DESIGN NO.
PRODUCT/SAP NO. TD 521813	PRODUCT/SAP NO.			PRODUCT/SAP NO.
B 06/07/11	TD	FES		PROPOSED CONSTRUCTION (LOCATION) BASELINE STREET HIGHLAND
TYPE APPROVED BY DATE	CHECKED BY	DRAWN BY	PAX #	SHEET 5 OF 5 / JOB NO. 0356177
Southern California Edison Company				

PROJECT No. STR07003
SCHEDULE II

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 210)

PROJECT NO. STR0703 - SCHEDULE II
LANDSCAPE IMPROVEMENT PLANS

FOR:

CITY OF HIGHLAND

27215 BASE LINE
HIGHLAND, CA 92346

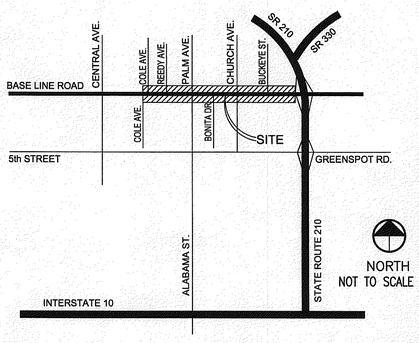
COMMUNITY WORKS DESIGN GROUP

LANDSCAPE ARCHITECTURE

4649 Brockton Avenue
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com
Contact: Tim Maloney

BID SET

VICINITY MAP:



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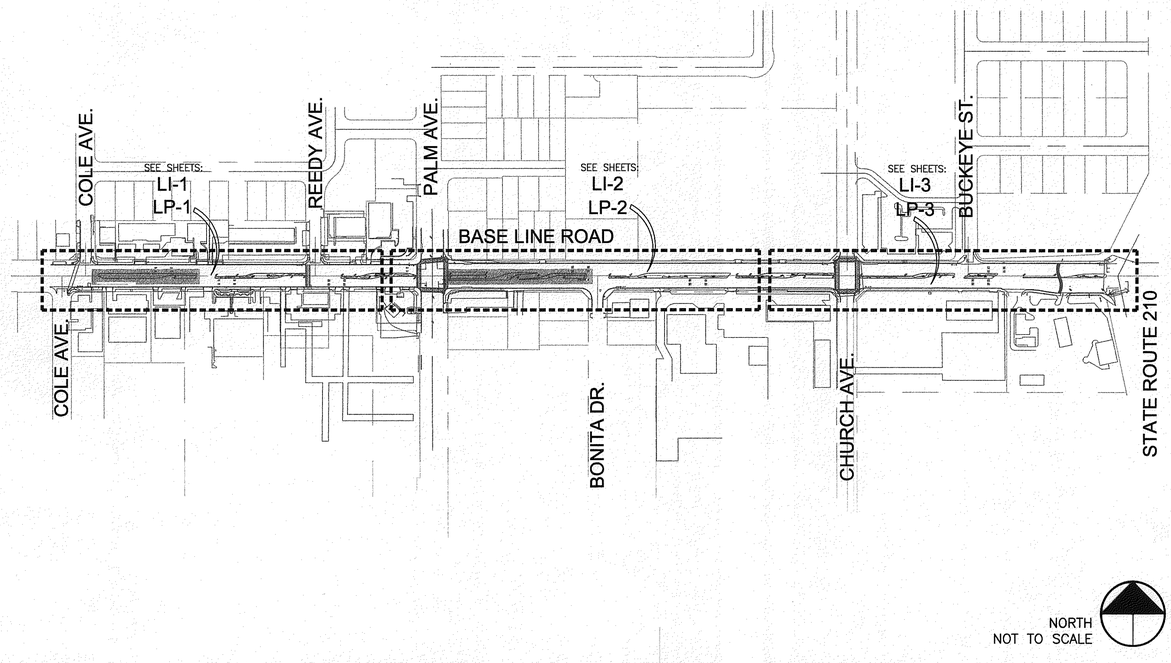


CONSULTANT TEAM:

CIVIL ENGINEER
ASSOCIATED ENGINEERS, INC.
3311 EAST SHELBY STREET
ONTARIO, CA 91764
Ph: 909-980-1982
Fax: 909-941-0891
CONTACT: JEFF MEITER, P.E.

OWNER– CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT
27215 BASE LINE
HIGHLAND, CA 92346
Ph: 909-864-8732
Fax: 909-862-3180
CONTACT: DENNIS BARTON

SHEET INDEX:

1 TITLE SHEET
2 IRRIGATION PLAN
3 IRRIGATION PLAN
4 IRRIGATION PLAN
5 IRRIGATION DETAILS
6 IRRIGATION DETAILS
7 IRRIGATION DETAILS
8 PLANTING AND CONSTRUCTION PLAN
9 PLANTING AND CONSTRUCTION PLAN
10 PLANTING AND CONSTRUCTION PLAN
11 PLANTING AND CONSTRUCTION DETAILS
12 PLANTING AND CONSTRUCTION DETAILS

CODE JURISDICTION (WITHOUT LIMITATION):

1. 2007 ADMINISTRATIVE REGULATIONS – CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1
2. 2007 CALIFORNIA BUILDING CODE (CBC) – CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 2 (2006 UNIFORM BUILDING CODE (UBC) WITH CALIFORNIA AMENDMENTS)
3. 2007 CALIFORNIA ELECTRICAL CODE (CEC) – CALIFORNIA CODE OF REGULATIONS (CCR) , TITLE 24, PART 3 (2005 NATIONAL ELECTRIC CODE (NEC) WITH CALIFORNIA AMENDMENTS)
4. 2007 CALIFORNIA MECHANICAL CODE (CMC) – CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 4 (2006 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS)
5. 2007 CALIFORNIA PLUMBING CODE (CPC) – CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2006 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS)
6. 2007 CALIFORNIA ENERGY CODE – CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 6
7. 2007 CALIFORNIA FIRE CODE (CFC) – CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 9 (2006 UNIFORM FIRE CODE (UFC) WITH CALIFORNIA AMENDMENTS)

CITY REQUIRED NOTES:

CWDG JOB NUMBER: **070208**

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY — Signature — 10/31/11 Renewal Date — 11-4-11 Date — STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

COMMUNITY WORKS DESIGN GROUP
4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

Ernest Wong 11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6–30–12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

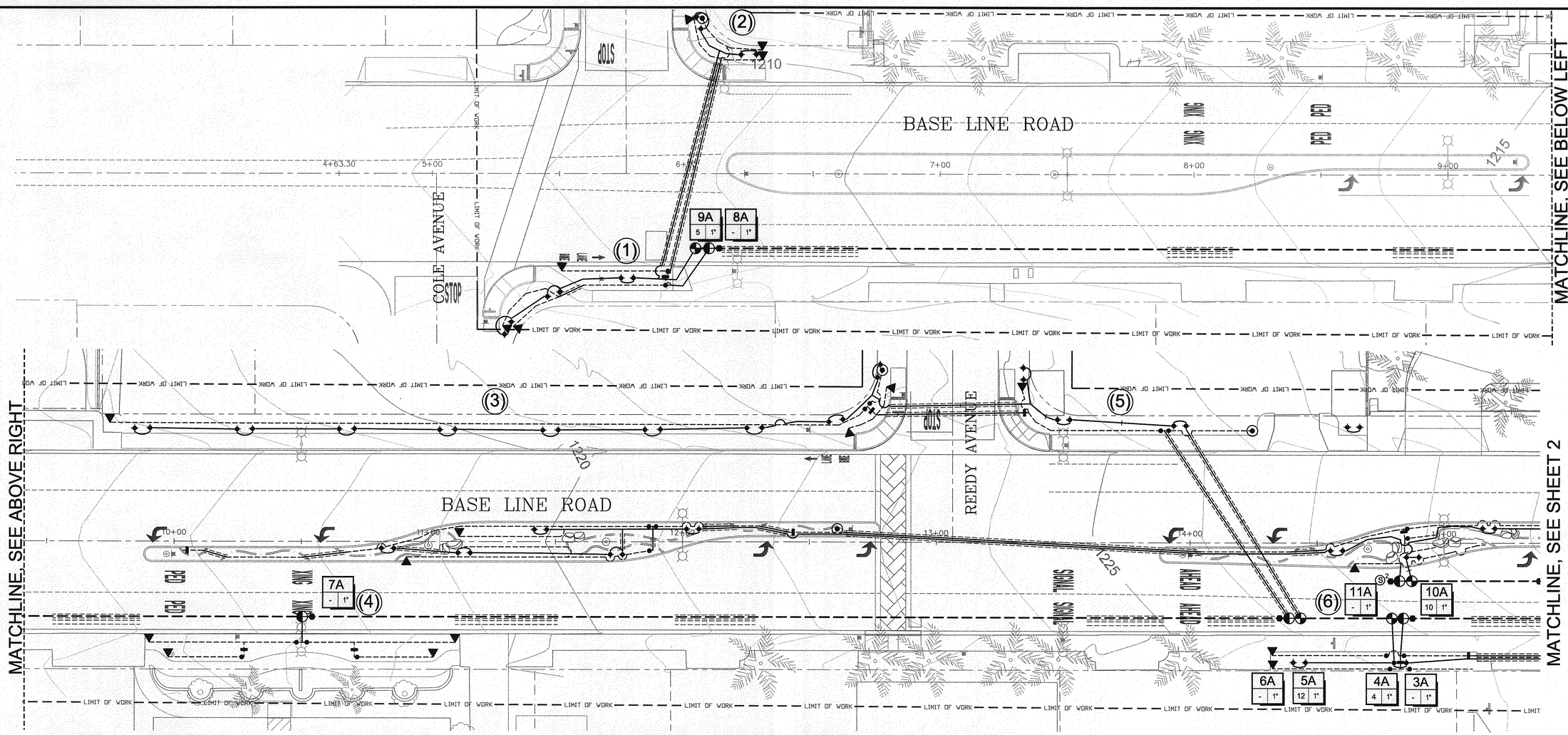
PROJECT No. STR07003
SCHEDULE II
BASE LINE

TITLE SHEET

DRAWER NO.

SHEET 1 OF 12

File: F:\Base Line Median\CD's\2011\cover.dwg Nov 04, 2011 – 9:42am Kay Kite



EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
M	IRRIGATION WATER METER – INSTALL PER EVWD STANDARDS	1"	N/A	–
C	HUNTER ACC–1800 IRRIGATION CONTROLLER EQUIPPED WITH A SOLAR SYNC ET SENSOR LOCATED IN A STRONG BOX SB–185S VANDAL RESISTANT ENCLOSURE	18 STA.	'A'&'B', SHT. 5	(1)
	FEBCO 825YA REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC–45SS VANDAL RESISTANT ENCLOSURE POWDER–COATED FOREST GREEN	1"	'C', SHT. 5	(2)
	GRISWOLD 2260 PRESSURE REDUCING MASTER VALVE	1"	'D', SHT. 5	(2)
	CALSENSE FM–1B FLOW SENSOR	1"	'E', SHT. 5	(2)
	NIBCO T–585–70 BRONZE BALL VALVE	2"	'F', SHT. 5	(2)
	RAINBIRD 44–LRC QUICK COUPLING VALVE	1"	'G', SHT. 5	(2)
	RAINBIRD PEB SERIES REMOTE CONTROL VALVE ASSEMBLY	1"	'H', SHT. 5	(2)
	RAINBIRD XCZ–100–B–COM DRIP CONTROL ZONE ASSEMBLY	1"	'A', SHT. 6	(2)
	RAINBIRD AR VALVE KIT	1"	'B', SHT. 6	–
	SPEARS END FLUSH VALVE ASSEMBLY	3/4"	'C', SHT. 6	–
	KBI KING SWING CHECK VALVE	LINE SIZE	'D', SHT. 6	–
	SENNINGER IN–LINE PRESSURE REGULATOR	LINE SIZE	'D', SHT. 6	–

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	CLS 315 PVC IRRIGATION MAINLINE (DIAGRAMMATIC LOCATION) – 24" MIN. COVER	2"	'E', SHT. 6	(2)
	SCH 40 NON–PRESSURE LATERAL LINE– 12" MIN. COVER	1"	'E', SHT. 6	(2)
	SCH 40 PVC NON–PRESSURE DRIP LATERAL LINE	1"	'E', SHT. 6	(2)
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE – 24" MIN. COVER	SEE CHART	'F', SHT. 6	(2)
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'G', SHT. 6	–
S[1]	SPARE WIRES PULLED	–	'H', SHT. 6	–

(1) CONTRACTOR TO COORDINATE ELECTRICAL SERVICE TO CONTROLLER WITH ELECTRICAL CONTRACTOR.
(2) PIPING AND VALVES ARE SHOWN IN HARDSCAPE FOR CLARITY ONLY. PIPING AND VALVES TO BE LOCATED IN MEDIAN OR RIGHT–OF–WAY PLANTER AREAS WHEREVER POSSIBLE
(3) CONTRACTOR TO SET MASTER VALVE FOR AN OUTPUT PRESSURE OF 55 PSI AND ADJUST AS NECESSARY IN THE FIELD.

PIPE SIZING CHART

	3/4" PIPE
I	1" PIPE
II	1 1/4" PIPE
III	1 1/2" PIPE
I	2" PIPE
I	2 1/2" PIPE
II	3" PIPE
II	4" PIPE
III	6" PIPE
III	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1–4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5–10 WIRES	3/4" PIPE
2" SLEEVE	11–20 WIRES	1" PIPE
2 1/2" SLEEVE	21–30 WIRES	1 1/4" PIPE
3" SLEEVE	31–40 WIRES	1 1/2" PIPE
4" SLEEVE	41–60 WIRES	2" PIPE
6" SLEEVE	61–99 WIRES	2 1/2"–3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	PSI	FLOW (GPM)	DETAIL	NOTES
DRIP EMITTERS						
NOT SHOWN	SALCO PSD–05	DESERT CAMO	20	0.5 (GPH)	DETAILS 'A'–'C', SHT. 7	(1,2)
TREE BUBBLERS						
	RAINBIRD RWS–B–C–1402	F	30	1.0	DETAILS 'D', SHT. 7	–

(1) USE ONE 0.5 GPH EMITTER FOR EACH SHRUB OR GROUNDCOVER PLANT.
(2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.

NORTH 0 20' 40' 80'

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO. 2110 STATE OF CALIFORNIA
Signature 10/31/11 Renewal Date 11-4-11 Date

SUBMITTED BY:

DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

DESIGN GROUP LANDSCAPE ARCHITECTURE

4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6–30–12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

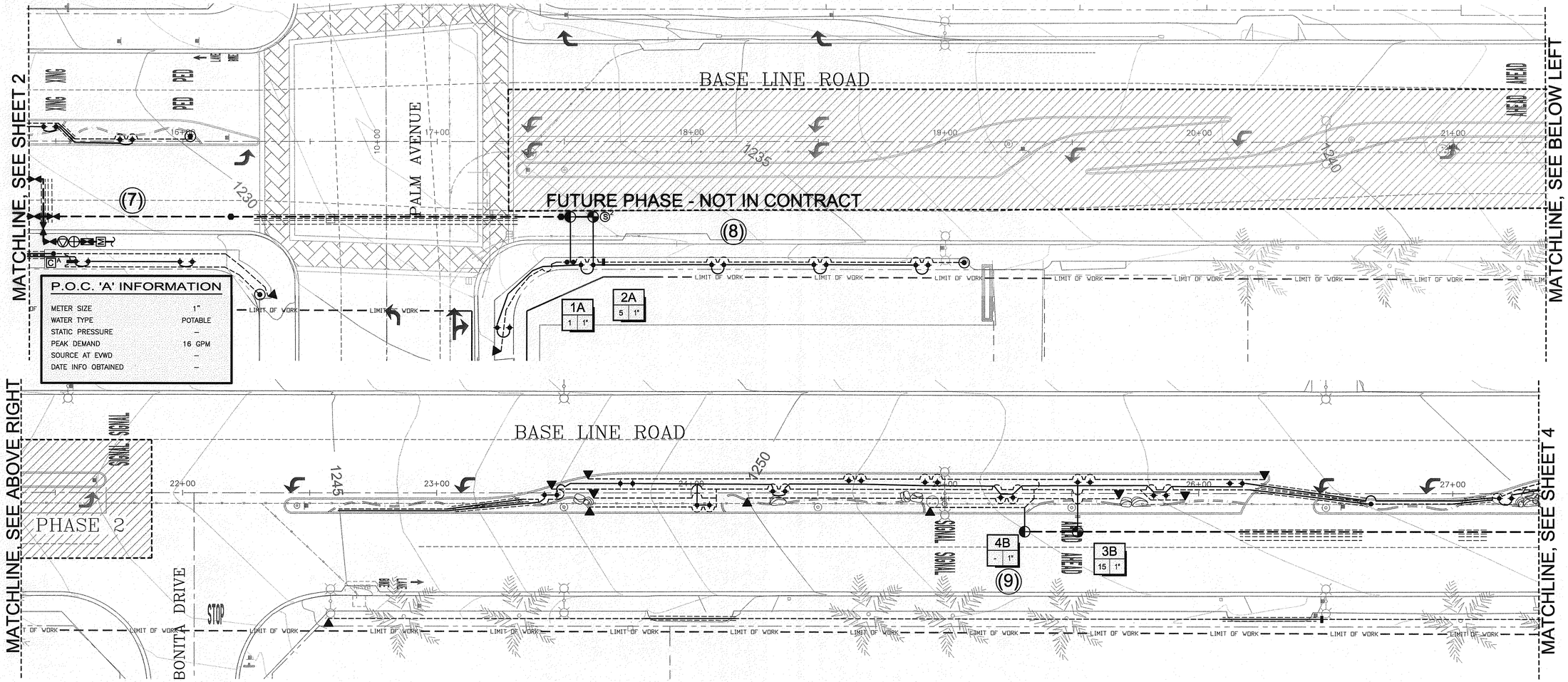
PROJECT No. STR07003
SCHEDULE II
BASE LINE

IRRIGATION PLAN

DRAWER NO.

SHEET 2 OF 12

File: F:\Base Line Median\CD's\2011\irrigation.dwg Nov 04, 2011 – 9:49am Kay Kite



EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
M	IRRIGATION WATER METER – INSTALL PER EVWD STANDARDS	1"	N/A	–
C	HUNTER ACC–1800 IRRIGATION CONTROLLER EQUIPPED WITH A SOLAR SYNC ET SENSOR LOCATED IN A STRONG BOX SB–18SS VANDAL RESISTANT ENCLOSURE	18 STA.	'A'&'B', SHT. 5	(1)
	FEBCO 825YA REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC–45SS VANDAL RESISTANT ENCLOSURE POWDER–COATED FOREST GREEN	1"	'C', SHT. 5	(2)
	GRISWOLD 2260 PRESSURE REDUCING MASTER VALVE	1"	'D', SHT. 5	(2)
	CALSENSE FM–1B FLOW SENSOR	1"	'E', SHT. 5	(2)
	NIBCO T–585–70 BRONZE BALL VALVE	2"	'F', SHT. 5	(2)
	RAINBIRD 44–LRC QUICK COUPLING VALVE	1"	'G', SHT. 5	(2)
	RAINBIRD PEB SERIES REMOTE CONTROL VALVE ASSEMBLY	1"	'H', SHT. 5	(2)
	RAINBIRD XCZ–100–B–COM DRIP CONTROL ZONE ASSEMBLY	1"	'A', SHT. 6	(2)
	RAINBIRD AR VALVE KIT	1"	'B', SHT. 6	–
	SPEARS END FLUSH VALVE ASSEMBLY	3/4"	'C', SHT. 6	–
	KBI KING SWING CHECK VALVE	LINE SIZE	'D', SHT. 6	–
	SENNINGER IN–LINE PRESSURE REGULATOR	LINE SIZE	'D', SHT. 6	–

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	CLS 315 PVC IRRIGATION MAINLINE (DIAGRAMMATIC LOCATION) – 24" MIN. COVER	2"	'E', SHT. 6	(2)
	SCH 40 NON–PRESSURE LATERAL LINE– 12" MIN. COVER	1"	'E', SHT. 6	(2)
	SCH 40 PVC NON–PRESSURE DRIP LATERAL LINE	1"	'E', SHT. 6	(2)
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE – 24" MIN. COVER	SEE CHART	'F', SHT. 6	(2)
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'G', SHT. 6	–
S1	SPARE WIRES PULLED	–	'H', SHT. 6	–

(1) CONTRACTOR TO COORDINATE ELECTRICAL SERVICE TO CONTROLLER WITH ELECTRICAL CONTRACTOR.
(2) PIPING AND VALVES ARE SHOWN IN HARDSCAPE FOR CLARITY ONLY. PIPING AND VALVES TO BE LOCATED IN MEDIAN OR RIGHT–OF–WAY PLANTER AREAS WHEREVER POSSIBLE
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SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	PSI	FLOW (GPM)	DETAIL	NOTES
DRIP EMITTERS						
NOT SHOWN	SALCO PSD–05	DESERT CAMO	20	0.5 (GPH)	DETAILS 'A'–'C', SHT. 7	(1,2)
TREE BUBBLERS						
	RAINBIRD RWS–B–C–1402	F	30	1.0	DETAILS 'D', SHT. 7	–

(1) USE ONE 0.5 GPH EMITTER FOR EACH SHRUB OR GROUNDCOVER PLANT.
(2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.

PIPE SIZING CHART

	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1–4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5–10 WIRES	3/4" PIPE
2" SLEEVE	11–20 WIRES	1" PIPE
2 1/2" SLEEVE	21–30 WIRES	1 1/4" PIPE
3" SLEEVE	31–40 WIRES	1 1/2" PIPE
4" SLEEVE	41–60 WIRES	2" PIPE
6" SLEEVE	61–99 WIRES	2 1/2"–3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

NORTH 0 20' 40' 80'

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY I. MALONEY NO. 2110
Signature
10/31/11
Renewal Date
11–4–11
Date
STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

DESIGN GROUP LANDSCAPE ARCHITECTURE

4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6–30–12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

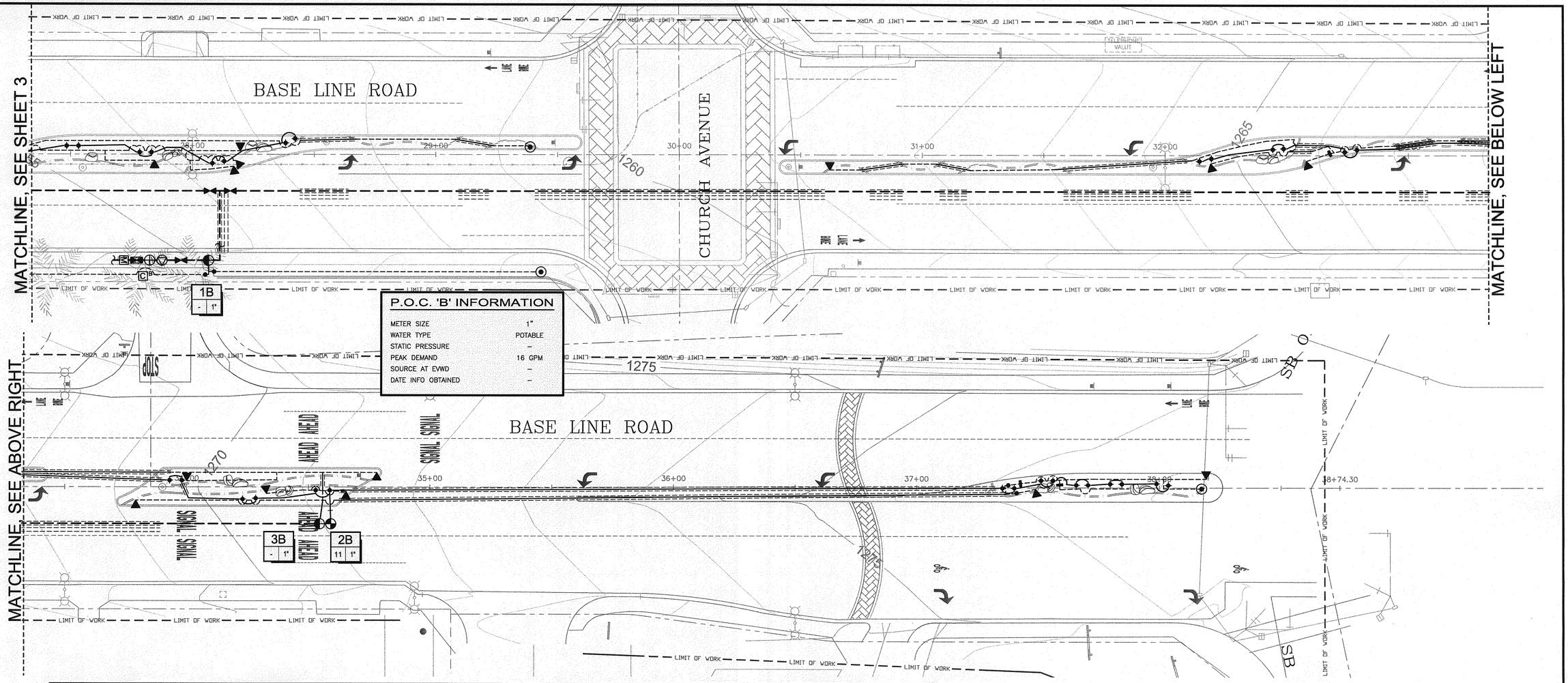
PROJECT No. STR07003
SCHEDULE II
BASE LINE

IRRIGATION PLAN

DRAWER NO.

SHEET 3 OF 12

File: F:\Base Line Median\CD's\2011\irrigation.dwg Nov 04, 2011 – 9:49am Kay Kite



EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
M	IRRIGATION WATER METER – INSTALL PER EVWD STANDARDS	1"	N/A	–
C	HUNTER ACC–1800 IRRIGATION CONTROLLER EQUIPPED WITH A SOLAR SYNC ET SENSOR LOCATED IN A STRONG BOX SB–18SS VANDAL RESISTANT ENCLOSURE	18 STA.	'A'&'B', SHT. 5	(1)
	FEBCO 825YA REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC–45SS VANDAL RESISTANT ENCLOSURE POWDER–COATED FOREST GREEN	1"	'C', SHT. 5	(2)
	GRISWOLD 2260 PRESSURE REDUCING MASTER VALVE	1"	'D', SHT. 5	(2)
	CALSENSE FM–1B FLOW SENSOR	1"	'E', SHT. 5	(2)
	NIBCO T–585–70 BRONZE BALL VALVE	2"	'F', SHT. 5	(2)
	RAINBIRD 44–LRC QUICK COUPLING VALVE	1"	'G', SHT. 5	(2)
	RAINBIRD PEB SERIES REMOTE CONTROL VALVE ASSEMBLY	1"	'H', SHT. 5	(2)
	RAINBIRD XCZ–100–B–COM DRIP CONTROL ZONE ASSEMBLY	1"	'A', SHT. 6	(2)
	RAINBIRD AR VALVE KIT	1"	'B', SHT. 6	–
	SPEARS END FLUSH VALVE ASSEMBLY	3/4"	'C', SHT. 6	–
	KBI KING SWING CHECK VALVE	LINE SIZE	'D', SHT. 6	–
	SENNINGER IN–LINE PRESSURE REGULATOR	LINE SIZE	'D', SHT. 6	–

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	CLS 315 PVC IRRIGATION MAINLINE (DIAGRAMMATIC LOCATION) – 24" MIN. COVER	2"	'E', SHT. 6	(2)
	SCH 40 NON–PRESSURE LATERAL LINE– 12" MIN. COVER	1"	'E', SHT. 6	(2)
	SCH 40 PVC NON–PRESSURE DRIP LATERAL LINE	1"	'E', SHT. 6	(2)
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE – 24" MIN. COVER	SEE CHART	'F', SHT. 6	(2)
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'G', SHT. 6	–
S1	SPARE WIRES PULLED	–	'H', SHT. 6	–

(1) CONTRACTOR TO COORDINATE ELECTRICAL SERVICE TO CONTROLLER WITH ELECTRICAL CONTRACTOR.
(2) PIPING AND VALVES ARE SHOWN IN HARDSCAPE FOR CLARITY ONLY. PIPING AND VALVES TO BE LOCATED IN MEDIAN OR RIGHT–OF–WAY PLANTER AREAS WHEREVER POSSIBLE
(3) CONTRACTOR TO SET MASTER VALVE FOR AN OUTPUT PRESSURE OF 55 PSI AND ADJUST AS NECESSARY IN THE FIELD.

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	PSI	FLOW (GPM)	DETAIL	NOTES
DRIP EMITTERS						
NOT SHOWN	SALCO PSD–05	DESERT CAMO	20	0.5 (GPH)	DETAILS 'A'–'C', SHT. 7	(1,2)
TREE BUBBLERS						
	RAINBIRD RWS–B–C–1402	F	30	1.0	DETAILS 'D', SHT. 7	–

(1) USE ONE 0.5 GPH EMITTER FOR EACH SHRUB OR GROUNDCOVER PLANT.
(2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.

PIPE SIZING CHART

	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1–4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5–10 WIRES	3/4" PIPE
2" SLEEVE	11–20 WIRES	1" PIPE
2 1/2" SLEEVE	21–30 WIRES	1 1/4" PIPE
3" SLEEVE	31–40 WIRES	1 1/2" PIPE
4" SLEEVE	41–60 WIRES	2" PIPE
6" SLEEVE	61–99 WIRES	2 1/2"–3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

NORTH 0 20' 40' 80'

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY No. 2110 — Signature — 10/31/11 Renewal Date — 11-4-11 Date — STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

COMWORKS DESIGN GROUP LANDSCAPE ARCHITECTURE
4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
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www.comworksdg.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

ERNEST WONG, CITY ENGINEER R.C.E. 37413 DATE EXP. 6–30–12

BASE LINE BEAUTIFICATION
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SCHEDULE II
BASE LINE

IRRIGATION PLAN

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SHEET 4 OF 12

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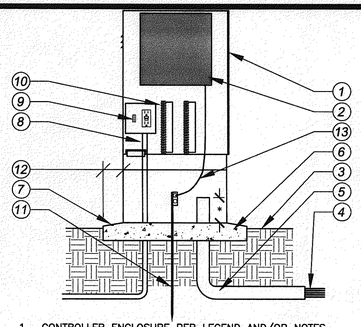
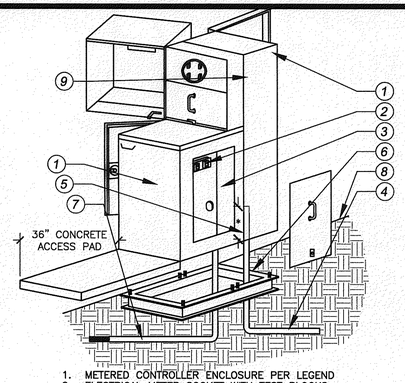


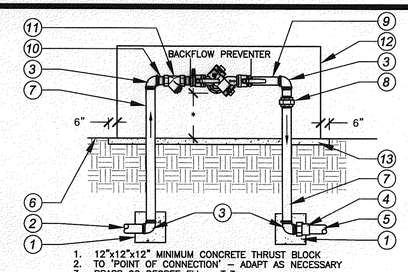
1. CONTROLLER ENCLOSURE PER LEGEND AND/OR NOTES
2. AUTOMATIC CONTROLLER PER LEGEND
3. FINISH GRADE
4. DIRECT BURIAL CONTROL WIRES TO VALVES
5. 3" PVC SWEEP ELL – EXTEND BEYOND EDGE OF BASE
6. 'QUICKPAD' ENCLOSURE MOUNTING PAD PER MFG'S SPECS
7. SLOPE EDGE OF BASE 1% TO DRAIN AWAY FROM ENCLOSURE
8. 120V AC POWER IN CONDUIT
9. 120V ON-OFF SWITCH WITH CONVENIENCE OUTLET
10. TERMINAL STRIPS FOR CONTROL WIRES
11. 5/8" x 5' MIN. LENGTH COPPER GROUNDING ROD
12. EXTEND EDGE OF BASE 6" BEYOND EDGE OF ENCLOSURE
13. GROUND CONTROLLER PER MANUFACTURER
* EXTEND 4" ABOVE TOP OF BASE

A Controller



1. METERED CONTROLLER ENCLOSURE PER LEGEND
2. ELECTRICAL METER SOCKET WITH TEST BLOCKS
3. LOAD CENTER
4. DIRECT BURIAL CONTROL WIRES TO VALVES
5. 3" PVC SWEEP ELL – EXTEND BEYOND EDGE OF BASE
6. QUICKPAD ENCLOSURE MOUNTING PAD PER MANUFACTURE
7. CONDUIT FOR LINE FEED INTO METER
8. FINISH GRADE
9. IRRIGATION CONTROLLER IN ENCLOSURE PER LEGEND
* EXTEND 4" ABOVE TOP OF BASE

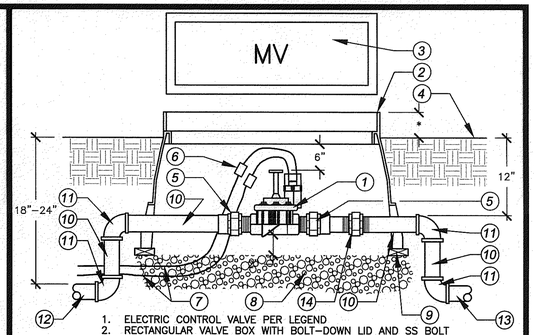
B Metered Enclosure



1. 12"x12"x12" MINIMUM CONCRETE THRUST BLOCK
2. TO 'POINT OF CONNECTION' – ADAPT AS NECESSARY
3. BRASS 90 DEGREE ELL – TxT
4. PVC SCH 40 MALE ADAPTER – SIZE AS REQUIRED
5. PVC MAINLINE PER LEGEND – SIZE PER PLAN
6. FINISH GRADE
7. BRASS NIPPLE – TxT – LENGTH AS REQUIRED
8. BRASS UNION – SIZE AS REQUIRED
9. BRASS NIPPLE – TxT – 4" MINIMUM LENGTH
10. BRASS NIPPLE – TxT – 2" MINIMUM LENGTH (TYP. OF 2)
11. BRASS Y-STRAINER – 60 MESH SCREEN W/ HOSE BIB
12. VANDAL RESISTANT ENCLOSURE – MODEL PER LEGEND INSTALL PER MANUFACTURER'S REQUIREMENTS
13. INSTALL 4" CONCRETE PAD, EXTEND 6" PAST ENCLOSURE
* 12" MINIMUM, 30" MAXIMUM

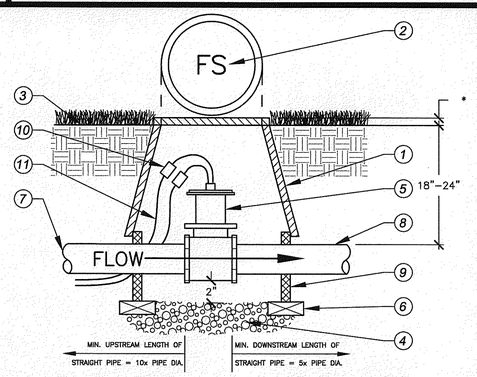
NOTES:
INSTALL BACKFLOW PREVENTER PER LOCAL CODES, HEALTH DEPARTMENT STANDARDS, AND MANUFACTURER'S DIRECTIONS. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION. WHERE BACKFLOW DEVICE SIZE IS SMALLER THAN MAINLINE, ENTIRE APPARATUS TO BE SIZE OF MAINLINE. BUSH DOWN ONLY AT THE BACKFLOW DEVICE. FINAL LOCATION OF DEVICE TO BE DETERMINED IN THE FIELD. BACKFLOW TO BE LOCATED IN PLANTER AREA AND SCREENED WITH SHRUBS AS POSSIBLE.

C Backflow Preventer



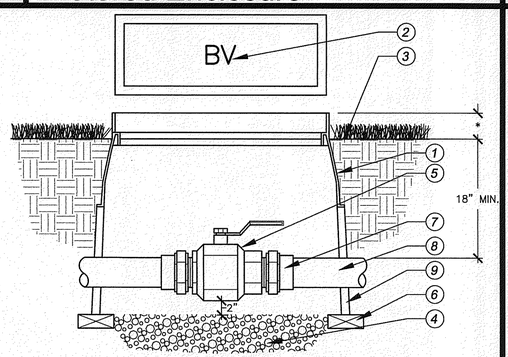
1. ELECTRIC CONTROL VALVE PER LEGEND
2. RECTANGULAR VALVE BOX WITH BOLT-DOWN LID AND SS BOLT
3. HEAT BRAND "MV" ON LID IN 2" HIGH CHARACTERS
4. FINISH GRADE
5. PVC SCH 40 MALE ADAPTER
6. WATERPROOF WIRE CONNECTION W/36" EXPANSION LOOP
7. #14 UF WIRES TO CONTROLLER MASTER VALVE OUTPUT
8. 3/4" CRUSHED ROCK – 6" DEEP
9. COMMON BRICK – 4 REQUIRED
10. PVC MAINLINE PER LEGEND – LENGTH AS REQUIRED
11. PVC SCH 40 ELL – SxS
12. MAINLINE PIPING FROM POINT OF CONNECTION
13. MAINLINE PIPING TO CONTROL VALVES
14. PVC UNION – SIZE AS REQUIRED
* 1/2" IN TURF AREAS, 2" IN SHRUB AREAS

D Master Valve



1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID AND SS BOLT
2. HEAT BRAND "FS" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK – 4" DEEP
5. FLOW SENSOR PER LEGEND
6. COMMON BRICK – 4 REQUIRED
7. PVC MAINLINE FROM POC – PER LEGEND
8. PVC MAINLINE TO SYSTEM – PER LEGEND
9. VALVE BOX EXTENSIONS AS REQUIRED
10. WATERPROOF WIRE CONNECTORS WITH 36" EXPANSION LOOP
11. CABLE TO TRANSMITTER/CONTROLLER PER MANUFACTURER
* 1/2" IN TURF AREAS 2" IN SHRUB AREAS

E Flow Sensor

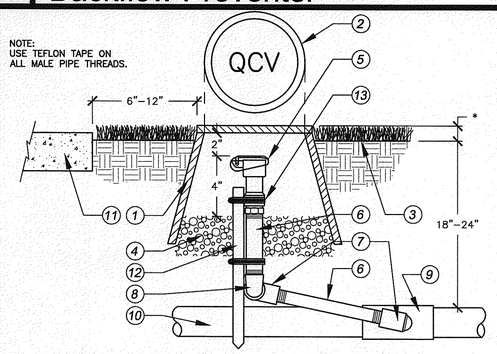


1. RECTANGULAR VALVE BOX WITH BOLT-DOWN LID AND SS BOLT
2. HEAT BRAND "BV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK – 4" DEPTH
5. BALL VALVE PER IRRIGATION PLAN
6. COMMON BRICK – 4 REQUIRED
7. SCH 40 PVC MALE ADAPTER – 2 REQUIRED
8. MAINLINE PIPING PER IRRIGATION PLAN
9. VALVE BOX EXTENSION(S) AS REQUIRED
* 1/2" IN TURF AREAS AND 2" IN SHRUB AREAS

NOTE:
USE TEFLON TAPE ON ALL MALE PIPE THREADS.

F Ball Valve

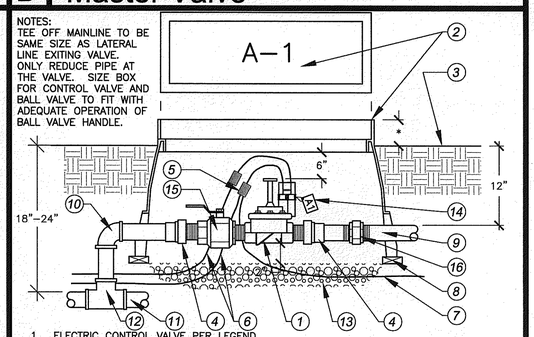
NOTE:
USE TEFLON TAPE ON ALL MALE PIPE THREADS.



1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID AND SS BOLT
2. HEAT BRAND "QCV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK 4" DEEP
5. QUICK COUPLER PER LEGEND
6. PVC SCH 80 NIPPLE LENGTH AS REQUIRED
7. PVC SCH 40 STREET ELL – TxT
8. PVC SCH 40 ELL – TxT
9. SCH 40 PVC MAINLINE FITTING
10. PVC SCH 40 MAINLINE PIPING PER EQUIPMENT LEGEND
11. WALK, CURB, OR WALL, ETC.
12. #4 REBAR, 18" MINIMUM LENGTH SUPPORT STAKE
13. STAINLESS STEEL CLAMP – 2 REQ.
* 1/2" IN TURF AREAS 2" IN SHRUB AREAS.

G Quick Coupler Valve

NOTES:
TEE OFF MAINLINE TO BE SAME SIZE AS LATERAL LINE EXITING VALVE. ONLY REDUCE PIPE AT THE VALVE. SIZE BOX FOR CONTROL VALVE AND BALL VALVE TO FIT WITH ADEQUATE OPERATION OF BALL VALVE HANDLE.



1. ELECTRIC CONTROL VALVE PER LEGEND
2. 'JUMBO' PLASTIC VALVE BOX WITH BOLT DOWN LID AND SS BOLT – HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. PVC SCH 40 MALE ADAPTER – SIZE AS REQUIRED – TYP. OF 2
5. WATERPROOF WIRE CONNECTOR WITH 36" COILED EXPANSION LOOP
6. WIRES FROM CONTROLLER
7. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER
8. COMMON BRICK – 4 REQUIRED
9. PVC LATERAL LINE PER LEGEND
10. PVC SCH 40 ELL – SxS
11. PVC MAINLINE PER LEGEND
12. SCH 40 PVC MAINLINE FITTING
13. 3/4" GRAVEL – 6" DEEP
14. 'CHRISTY'S' I.D. TAG OR EQUAL
15. BALL VALVE PER EQUIPMENT LEGEND SAME SIZE AS CONTROL VALVE
16. PVC UNION – SIZE AS REQUIRED
* 1/2" IN TURF, 2" IN PLANTER

H Remote Control Valve

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY I. MALONEY No. 2110
Signature
10/31/11
Renewal Date
11-4-11
Date
STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

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IRRIGATION DETAILS

DRAWER NO.

SHEET 5 OF 12

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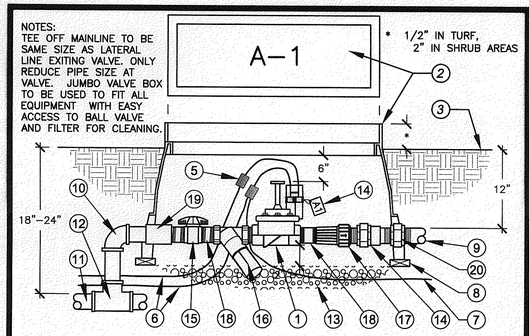
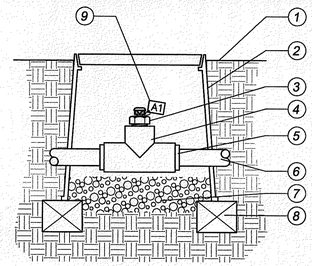
NOTES:
TEE OFF MAINLINE TO BE SAME SIZE AS LATERAL LINE EXITING VALVE. ONLY REDUCE PIPE SIZE AT VALVE. JUMBO VALVE BOX TO BE USED TO FIT ALL EQUIPMENT WITH EASY ACCESS TO BALL VALVE AND FILTER FOR CLEANING.



1. ELECTRIC CONTROL VALVE PER LEGEND
2. JUMBO PLASTIC VALVE BOX WITH BOLT DOWN LID AND SS BOLT – HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. PVC SCH 40 MALE ADAPTER
5. WATERPROOF WIRE CONNECTOR WITH 36" COILED EXPANSION LOOP
6. WIRES FROM CONTROLLER
7. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER
8. COMMON BRICK – 4 REQUIRED
9. PVC LATERAL LINE PER LEGEND
10. PVC SCH 40 ELL – SxS
11. PVC MAINLINE PER LEGEND – TYP
12. SCH 40 PVC MAINLINE FITTING
13. 3/4" CRUSHED ROCK – 6" DEEP
14. 'CHRISTYS' NON-POTABLE I.D. TAG OR EQUAL
15. BALL VALVE PER LEGEND
16. Y-FILTER PER LEGEND
17. PRESSURE REGULATOR PER LEGEND
18. SCH 80 PVC NIPPLE – TYP
19. SCH 40 PVC FEMALE ADAPTER
20. PVC UNION – SIZE AS REQUIRED

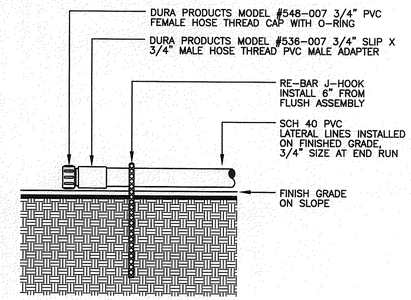
A Drip Control Valve Assembly



1. FINISH GRADE
2. 6" ROUND VALVE BOX WITH PURPLE LID
3. AIR/VACUUM RELIEF VALVE PER PLAN
4. PVC SCH 40 LATERAL LINE FITTING
5. COMPRESSION ADAPTER
6. DRIPLINE TUBING OR BLANK TUBING PER PLAN
7. 3/4" CRUSHED ROCK – 6" DEEP
8. BRICK SUPPORT
9. 'CHRISTY'S' NON-POTABLE I.D. TAG OR EQUAL

NOTE:
1. AIR/VACUUM RELIEF VALVE CANNOT BE CONNECTED LOWER THAN DRIPLINE LATERALS.
2. FOR USE ON ZONES OF 7 GPM OR LESS ONLY (PLUMBED TO TUBING).

B Air / Vacuum Relief Valve



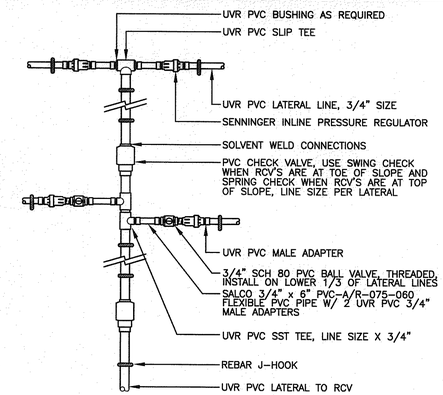
NOTE:
FLUSH CAP TO REMAIN IN PLACE UNLESS FLUSHING DRIP LATERAL LINES.

A HOSE SHALL BE ATTACHED TO MHT MALE ADAPTER WHENEVER FLUSHING OF LINES IS PERFORMED TO PREVENT EROSION OF SLOPE MATERIALS.

ALL FLUSH VALVES MUST BE LISTED ON AS-BUILTS

C Flush Valve

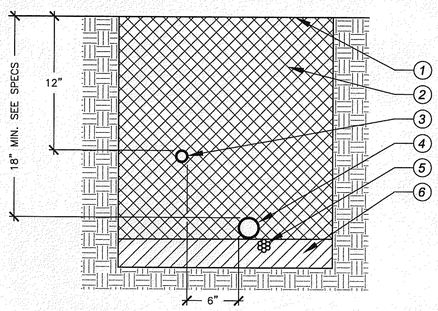
SCALE: -



NOTE:
VERTICAL LATERAL LINE SHALL BE COMPLETELY FLUSHED CLEAN WITH WATER PRIOR TO THE INSTALLATION OF THE SENNINGER PRESSURE REGULATING VALVES.

D Check Valve & Pres. Reg.

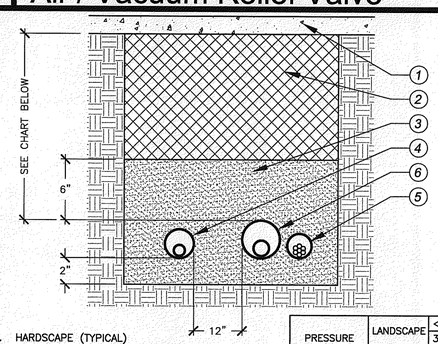
SCALE: -



1. FINISH GRADE
2. CLEAN BACKFILL – 90% COMPACTION REQUIRED – SEE SPECS
3. NON-PRESSURE LATERAL LINE PER LEGEND
4. PRESSURE SUPPLY LINE PER LEGEND
5. CONTROL WIRES – INSTALL BELOW PRESSURE SUPPLY LINE
6. PROVIDE 2" OF CLEAN BACKFILL BELOW PRESSURE MAINLINE

NOTES:
BUNDLE AND TAPE WIRES AT 12'O.C. PIGTAIL AND LOOP CONTROL WIRES AT ALL 90° CHANGES IN DIRECTION. SPLICING OF WIRE RUNS IS NOT ALLOWED UNLESS APPROVED BY THE CITY. 36" MIN. COVER IS REQUIRED FOR RECLAIMED WATER MAINLINE (WHERE APPLICABLE). INSTALL 1'x1'X1' THRUST BLOCK AT ALL TERMINAL POINTS ON MAINLINE.

E Trenching

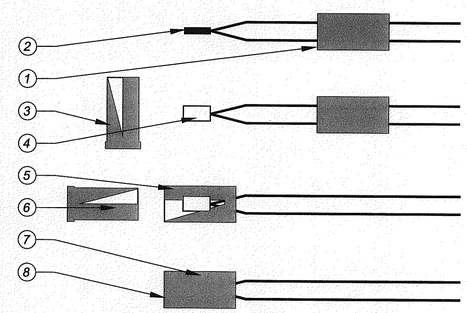


1. HARDSCAPE (TYPICAL)
2. CLEAN BACKFILL – 90% COMPACTION REQUIRED – SEE SPECS
3. SAND (TYPICAL)
4. NON-PRESSURE LATERAL LINE/ SLEEVE (SIZE PER CHART)
5. CONTROL WIRE SLEEVE ADJACENT TO MAINLINE SLEEVE (SIZE PER CHART)
6. PRESSURE SUPPLY LINE / SLEEVE (SIZE PER CHART)

PRESSURE MAINLINE	LANDSCAPE	<3"	24"
		3"+	36"
	VEHICULAR PAVING	<3"	30"
		3"+	36"
NON PRESSURE LATERAL	LANDSCAPE	<3"	12"
		3"+	18"
	VEHICULAR PAVING	<3"	24"
		3"+	30"

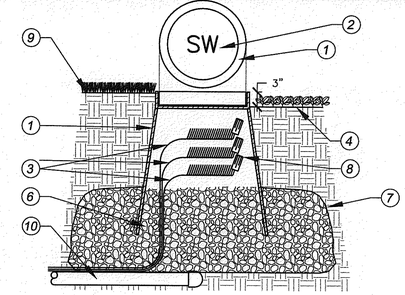
NOTES:
SIZE ALL SLEEVES PER SLEEVING CHART ON PLANS. EXTEND SLEEVES 12" BEYOND EDGE OF HARDSCAPE ON BOTH ENDS. RECLAIMED WATER SLEEVES TO BE A MINIMUM 42"-48" DEEP (OR PER WATER DISTRICT STANDARDS) WHERE APPLICABLE.

F Sleeving



1. SLIP BASE SOCKET OVER END OF WIRES
2. STRIP WIRES APPROX. 5/8" FROM ENDS – TWIST TOGETHER
3. APPLY SEALER TO OUTSIDE OF SEALING PLUG AND FILL CAVITY WITH SEALER
4. PUT CRIMP END OVER WIRE ENDS – CRIMP SLEEVE AND CUT OFF EXCESS WIRE
5. PULL BASE SOCKET OVER END OF WIRES AS FAR AS POSSIBLE
6. PUSH SEALING PLUG INTO BASE SOCKET
7. PUSH WIRES TO END OF BASE SOCKET TO INSURE COMPLETE SEALING OF CONNECTION
8. COMPLETED WATERPROOF WIRE CONNECTION

G Wire Connections



1. 10" ROUND VALVE BOX WITH BOLT DOWN COVER. (INDEPENDENT FROM ALL OTHER BOXES) USE STAINLESS BOLT, NUT AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
2. HEAT BRAND 'SW' ONTO LID IN 2" CHARACTERS
3. SPARE WIRES (PER PLAN) AND ONE COMMON WIRE CONTINUOUS FROM CONTROLLER. SEE EQUIPMENT LEGEND FOR SIZE AND COLOR.
4. FINISH GRADE IN SHRUB AREAS – 3" BELOW TOP OF BOX
5. PRESSURE SUPPLY LINE PER PLAN
6. 3/4" PEA GRAVEL. FILL TO TOP OF VALVE BOX HOLES
7. LANDSCAPE FABRIC
8. CAP WIRES WITH APPROVED WATERTIGHT WIRE CONNECTOR
9. FINISH GRADE IN TURF AREAS – 1" BELOW TOP OF BOX
10. CAP PRESSURE SUPPLY LINE DIRECTLY BELOW CENTER OF SPARE WIRE VALVE BOX (WHERE OCCURS)

H Spare Wire Box

BENCHMARK

SB CO. BM NO 14-2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT – TIMOTHY I. MALONEY – No. 2110 – Signature – 10/31/11 – Renewal Date – 11-4-11 – Date – STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11-4-11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

COMMUNITY WORKS DESIGN GROUP – LANDSCAPE ARCHITECTURE

4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

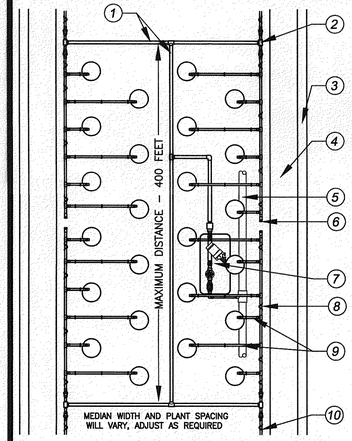
PROJECT No. STR07003
SCHEDULE II
BASE LINE

IRRIGATION DETAILS

DRAWER NO.

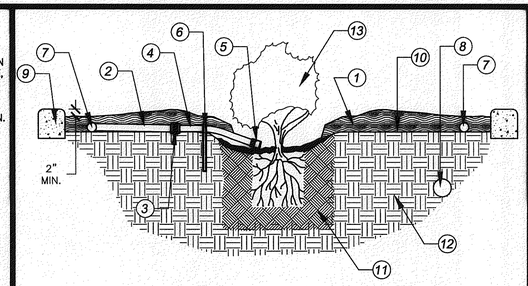
SHEET 6 OF 12

File: F:\Base Line Median\CD's\2011\irrigation.dwg Nov 04, 2011 – 9:49am Kay Kite



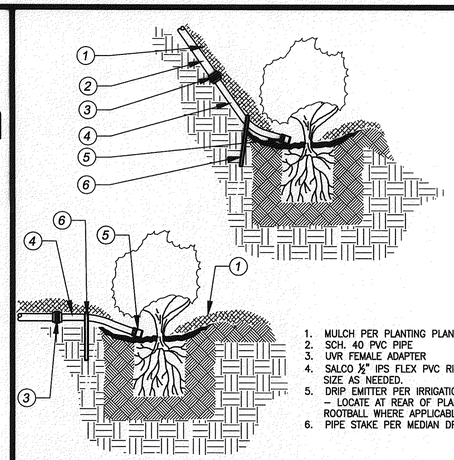
1. BURIED SCH. 40 PVC SUBMAIN
2. UVR PVC SST TEE, ON GRADE, TRANSITION UP FROM BURIED PVC SUBMAIN
3. MEDIAN CURB PER PLAN.
4. MAINTENANCE STRIP PER PLAN.
5. BURIED PVC IRRIGATION MAINLINE 18" FROM EDGE OF CONCRETE.
6. FLUSH VALVE PER FLUSH VALVE DETAIL.
7. DRIP REMOTE CONTROL VALVE WITH WYE FILTER AND PRESSURE REGULATOR PER IRRIGATION LEGEND.
8. SCH. 40 PVC LATERAL ON GRADE WITH V.I.T. PS18 PIPE STABILIZERS AT MAX. 6' O.C.
9. DRIP EMITTER ASSEMBLY PER DRIP EMITTER DETAIL.
10. DRIP SYSTEM AND LATERAL PIPING MAY EXTEND NO MORE THAN 200' PAST BURIED PVC CROSS LATERAL. THE TOTAL LENGTH OF ANY ONE DRIP SYSTEM SHALL BE NO MORE THAN 800'.

A Median Drip Layout



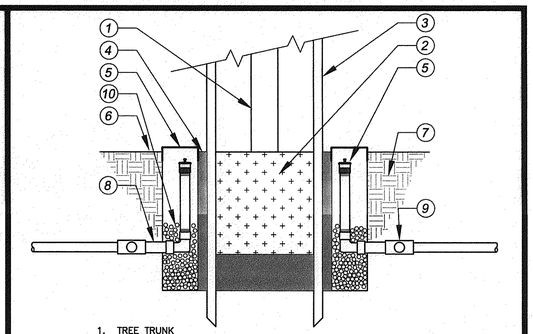
1. MULCH PER PLANTING PLAN
2. SCH. 40 PVC PIPE PER MEDIAN EMITTER LAYOUT
3. UVR FEMALE ADAPTER PER EMITTER DETAIL
4. SALCO ½" IPS FLEX PVC RISER PER EMITTER DETAIL
5. DRIP EMITTER PER IRRIGATION LEGEND AND EMITTER DETAIL.
6. PIPE STAKE PER MEDIAN DRIP LAYOUT.
7. SCH. 40 PVC LATERAL LINE PER MEDIAN DRIP LAYOUT
8. IRRIGATION MAINLINE PER IRRIGATION PLAN
9. MEDIAN CURB
10. FINISH SURFACE IN MEDIAN
11. PLANTING PIT
12. NATURAL SUBGRADE
13. PLANT MATERIAL PER PLANTING PLAN

B Median Drip Section



1. MULCH PER PLANTING PLAN
2. SCH. 40 PVC PIPE
3. UVR FEMALE ADAPTER
4. SALCO ½" IPS FLEX PVC RISER – SIZE AS NEEDED.
5. DRIP EMITTER PER IRRIGATION LEGEND – LOCATE AT REAR OF PLANT ROOTBALL WHERE APPLICABLE.
6. PIPE STAKE PER MEDIAN DRIP LAYOUT.

C Shrub Drip Emitter



1. TREE TRUNK
2. TREE ROOTBALL
3. 2" LODGE POLE PINE STAKES PER PLANTING PLAN
4. PLANT BACKFILL PER PLANTING PLAN
5. BUBBLER ASSEMBLY PER IRRIGATION LEGEND
6. FINISH GRADE
7. UNDISTURBED NATIVE SOIL
8. 1/2" CLASS 315 PVC LATERAL LINE
9. SCH 40 PVC TEE AROUND PLANTING PIT
10. PEA GRAVEL IN BASE OF DRAIN PIPE

* INSTALL ASSEMBLY WITH CAP WITH TO GRADE

D Tree Bubbler Heads

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY — No. 2110 — Signature — 10/31/11 — Renewal Date — 11-4-11 — Date — STATE OF CALIFORNIA

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BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

PROJECT No. STR07003
SCHEDULE II
BASE LINE

IRRIGATION DETAILS

DRAWER NO.

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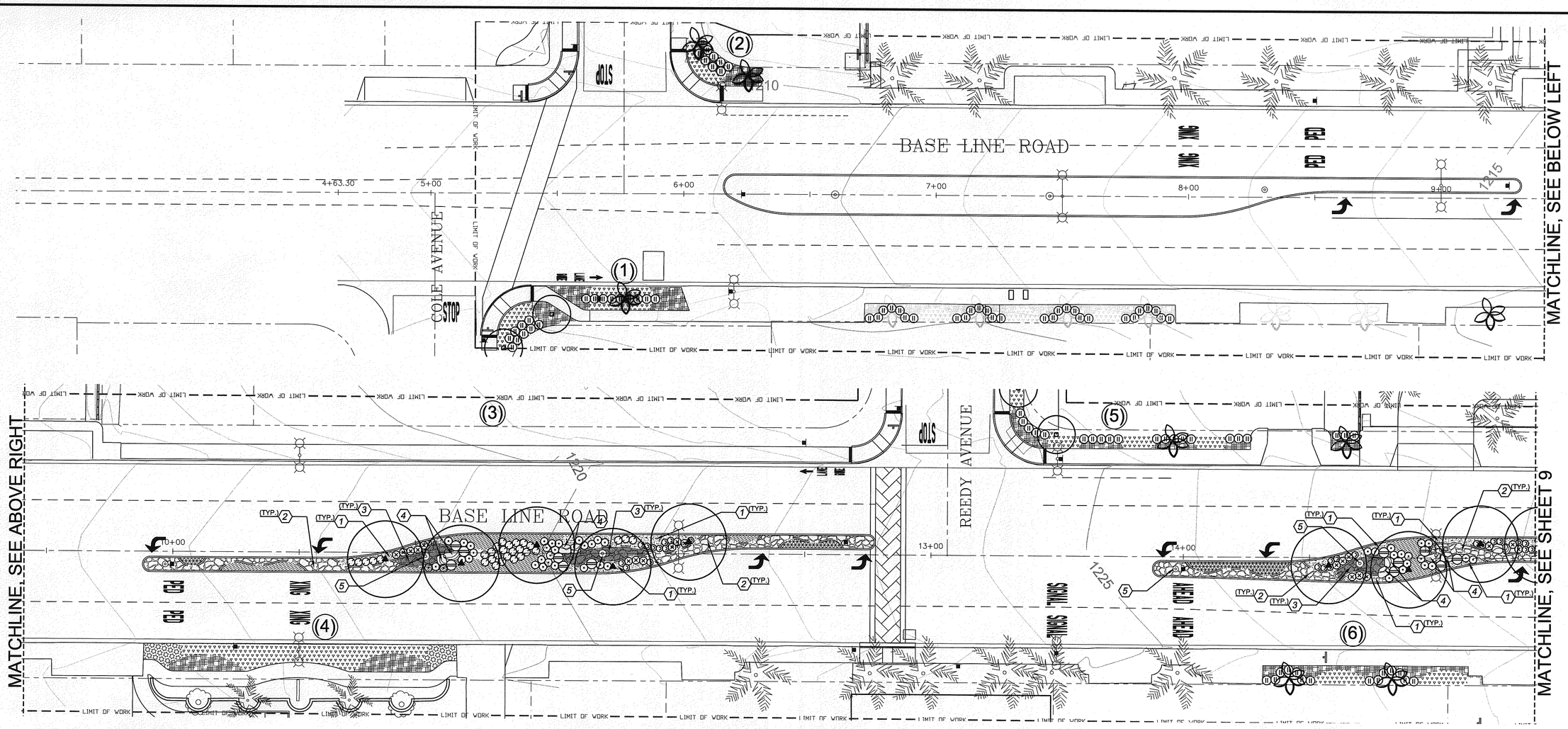

PLANTING LEGEND:

TREES

SHRUBS

BOTANIC NAME	COMMON NAME	SIZE / SPACING	QTY.**	WUCOLS*	DETAIL
CUPANIOPSIS ANACARDIOIDES	CARROTWOOD	24" BOX	31	MEDIUM (0.5)	'A', SHEET 11
LAGERSTROEMIA INDICA 'TONTO'	CRAPE MYRTLE	24" BOX	9	MEDIUM (0.5)	'A', SHEET 11
PHOENIX DACTYLIFERA	DATE PALM	15' B.T.H.	2	LOW (0.2)	'C', SHEET 11
WASHINGTONIA FILIFERA	CALIFORNIA FAN PALM	12' B.T.H.–SKINNED	13	LOW (0.2)	'C', SHEET 11
AGAVE VILMORINIANA	OCTOPUS AGAVE	15 GAL.	39	LOW (0.2)	'D', SHEET 11
CALLISTEMON VIMINALIS 'LITTLE JOHN'	DWARF BOTTLEBRUSH	1 GAL./24" O.C.	140	MEDIUM (0.5)	'D', SHEET 11
CISTUS 'SUNSET'	ROCKROSE	1 GAL./30" O.C.	142	LOW (0.2)	'D', SHEET 11
DIETES VEGETA	FORTNIGHT LILY	5 GAL./30" O.C.	267	MEDIUM (0.5)	'D', SHEET 11
LAVANDULA STOECHAS 'OTTO QUAST'	SPANISH LAVENDER	5 GAL./30" O.C.	147	LOW (0.2)	'D', SHEET 11
NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS	5 GAL./30" O.C.	74	LOW (0.2)	'D', SHEET 11

PLANTING LEGEND:

GROUNDCOVERS

BOTANIC NAME	COMMON NAME	SIZE / SPACING	QTY.**	WUCOLS*	DETAIL
ALOE STRIATA	CORAL ALOE	1 GAL./16" O.C.	1,235 SF	LOW (0.2)	'E', SHEET 11
HEMEROCALLIS 'STELLA D'ORO'	YELLOW DAYLILY	1 GAL./24" O.C.	2,075 SF	MEDIUM (0.5)	'E', SHEET 11
ROSA 'FLOWER CARPET RED'	RED CARPET ROSE	1 GAL./36" O.C.	1,470 SF	MEDIUM (0.5)	'E', SHEET 11
SENECIO MANDRALISCAE	BLUE CHALK STICKS	4" POTS/16" O.C.	2,110 SF	MEDIUM (0.5)	'E', SHEET 11
VERBENA PERUVIANA 'PINK'	HYBRID VERBENA	4" POTS/16" O.C.	290 SF	MEDIUM (0.5)	'E', SHEET 11

ALL LANDSCAPED AREAS TO RECEIVE 2" MIN. DEPTH D.G. MULCH PER CONSTRUCTION CALLOUT #1
ALL TREES WITHIN 5' OF HARDSCAPE TO RECEIVE ROOTBARRIER PER DETAIL 'B', SHEET 11
* WUCOLS III (WATER USE CLASSIFICATION OF LANDSCAPE SPECIES) DESIGNATIONS ARE BASED ON REGION 4
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FOR DETERMINING NUMBER OF PLANTS NEEDED FOR SCOPE OF WORK DEFINED IN CURRENT PHASE.

CONSTRUCTION LEGEND:

	DESCRIPTION	SUPPLIER	DETAIL
1	INSTALL 2" MIN. DEPTH STABILIZED DECOMPOSED GRANITE, COLOR TO BE 'PYRITE GOLD'	GAIL MATERIALS (951)667-6106	DETAIL 'A', SHEET 12
2	INSTALL GREY RIVER ROCK COBBLE IN CONCRETE MORTAR W/ 6" CONCRETE HEADER AT EDGES	PURCHASE OR OBTAIN LEGALLY FROM LOCAL SOURCE	DETAIL 'C', SHEET 12
3	INSTALL GREY RIVER ROCK COBBLE ATOP GRAVEL W/ 6" CONCRETE HEADER AT EDGES	PURCHASE OR OBTAIN LEGALLY FROM LOCAL SOURCE	DETAIL 'D', SHEET 12
4	INSTALL ROUNDED, GREY BOULDERS, SIZE TO BE 2'-4' IN WIDTH AND LENGTH	PURCHASE OR OBTAIN LEGALLY FROM LOCAL SOURCE	DETAIL 'E', SHEET 12
5	SUMP DRAIN PER CIVIL ENGINEER'S PLANS		

NORTH 0 20' 40' 80'

BENCHMARK

SB CO. BM NO 14-2

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REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY No. 2110 — Signature — Renewal Date 10/31/11 — 11-4-11 Date — STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11-4-11

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BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

PROJECT No. STR07003
SCHEDULE II
BASE LINE

PLANTING/CONSTRUCTION PLAN

DRAWER NO.

SHEET 8 OF 12

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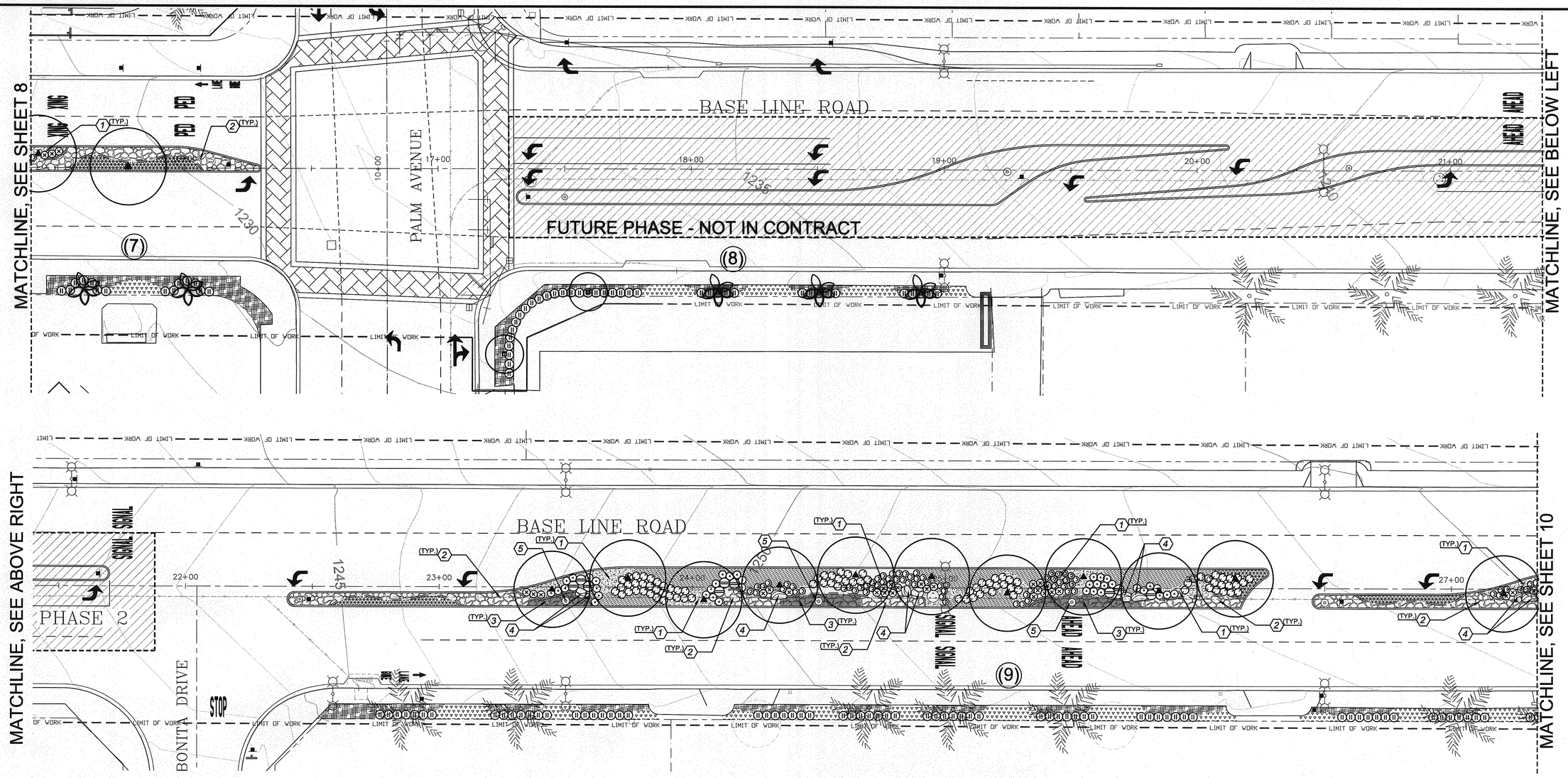

PLANTING LEGEND:

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TREES						
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PLANTING LEGEND:

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NORTH 0 20' 40' 80'

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO. 2110 STATE OF CALIFORNIA Signature 10/31/11 Renewal Date 11-4-11 Date

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(COLE AVENUE TO STATE ROUTE 30)

PROJECT No. STR07003
SCHEDULE II
BASE LINE

PLANTING/CONSTRUCTION PLAN

DRAWER NO.

SHEET 9 OF 12

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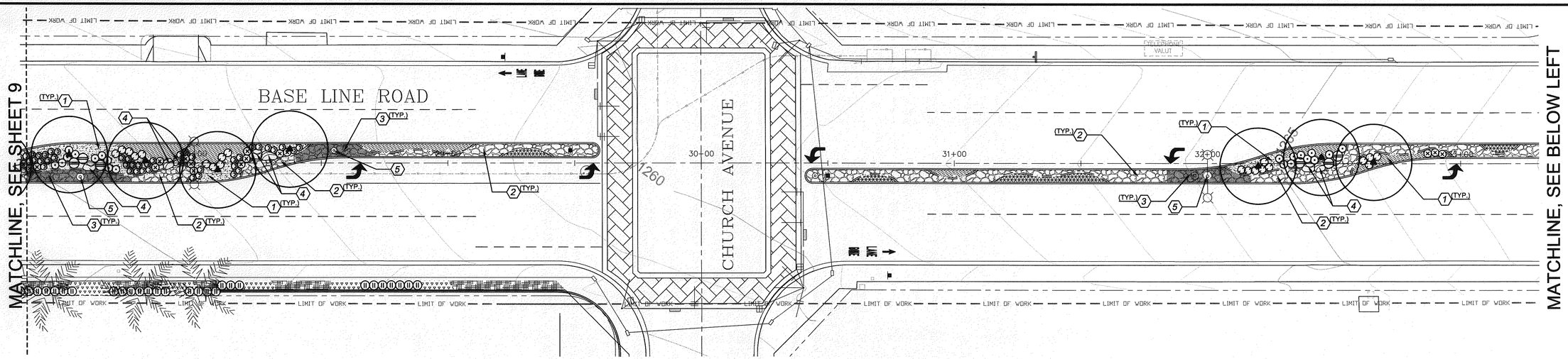

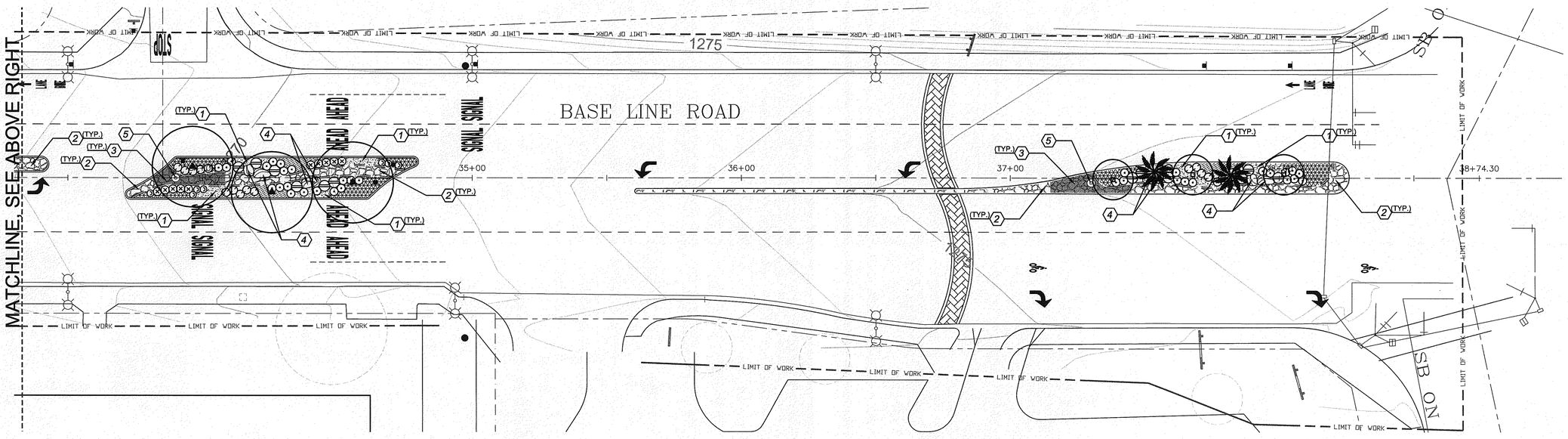

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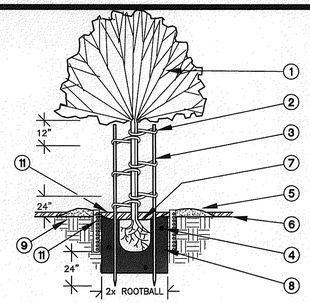
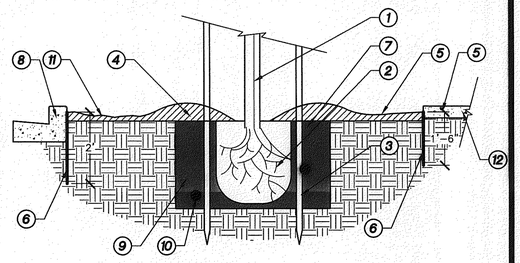


1. TREE PER PLANTING PLAN
2. CINCH TIE (6 PER TREE)
3. (MINIMUM 2) 2" DIA. x 10' LONG LODGE POLE STAKES, FOR 15 GAL–24" BOX TREES. 3" DIA. x 10' LONG LODGE POLE STAKES, FOR 36" BOX AND GREATER SIZE TREES.
4. PLANT TABLETS PER PLANTING SPECS / NOTES
5. EARTH WATERING BASIN IN GROUNDCOVER AREAS
6. FINISH GRADE
7. ROOTBALL: SET CROWN 1"–2" ABOVE FINISH GRADE
8. COMPACT BACKFILL MIX PER PLANTING SPECS / NOTES
9. NATIVE SOIL
10. 2" MINIMUM DEEP MULCH PER PLANTING PLAN
11. TREE BREATHER TUBE 4" DIA. PERFERATED ABS, 2' LONG, GRATE COVER SCREW COVER TO PIPE. PROVIDE 2 ON EACH SIDE OF TREE

NOTE: ROOT BARRIER TO BE PLACED WHEN TREE IS WITHIN 6' OF HARDSCAPE SEE DETAIL 'B' THIS SHEET

A Tree Planting

SCALE: N.T.S.

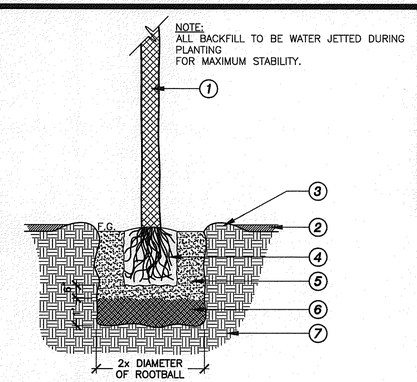


1. TREE PER PLANTING PLAN
2. ROOTBALL
3. STAKE PER 'TREE PLANTING' DETAIL
4. EARTH WATERING BASIN PER 'TREE PLANTING' DETAIL
5. FINISH GRADE
6. DEEP ROOT BARRIER AT EDGE OF HARDSCAPE – 18" DEEP ON WALK SIDE, 24" DEEP ON CURB SIDE, 10' LONG CENTERED ON TRUNK
7. TREE PLANTING PIT
8. STREET CURB PER STREET IMPROVEMENT PLANS
9. COMPACTED BACKFILL MIX PER PLANTING SPECS / NOTES
10. PLANT TABLETS PER PLANTING SPECS / NOTES
11. WOOD MULCH – DEPTH PER PLANTING PLAN
12. CONCRETE PAVING PER PLAN

NOTES:
1. ROOTBARRIER TO EXTEND 5' TO EITHER SIDE OF TREE TRUNK
2. ROOTBARRIER SHALL NOT ENCIRCLE THE TREE ROOTBALL

B Linear Root Barrier

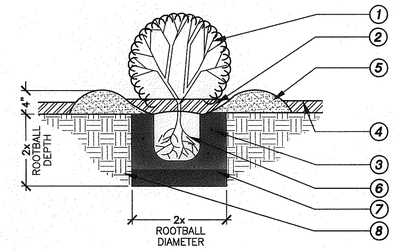
SCALE: N.T.S.



1. PALM TREE PER PLANTING PLAN
2. WOOD MULCH – DEPTH PER PLANTING PLAN
3. EARTH WATERING BASIN (REMOVE AT END OF MAINTENANCE PERIOD)
4. ROOTBALL – SET BOTTOM OF ROOTBALL 24" BELOW FINISH GRADE
5. PLASTER SAND BACKFILL
6. COMPACTED BACKFILL PER PLANTING NOTES / SPECS
7. NATIVE SOIL

C Palm Tree Planting

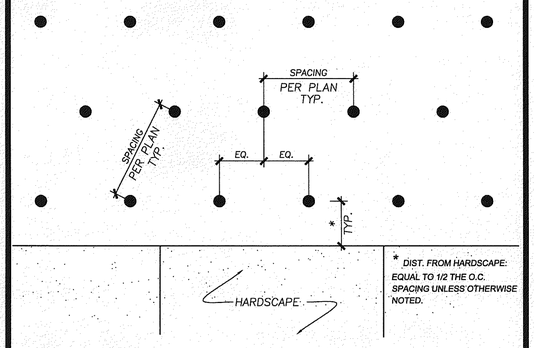
SCALE: N.T.S.



1. SHRUB PER PLANTING PLAN
2. WOOD MULCH– DEPTH PER PLANTING PLAN
3. PLANT TABLETS PER PLANTING SPECS / NOTES
4. FINISH GRADE
5. EARTH WATERING BASIN (RAKE SMOOTH PRIOR TO PLANTING GROUNDCOVER)
6. ROOTBALL: SET CROWN SLIGHTLY ABOVE FINISH GRADE
7. COMPACT BACKFILL MIX PER PLANTING SPECS / NOTES
8. NATIVE SOIL

D Shrub Planting

SCALE: N.T.S.



E Groundcover Spacing

SCALE: N.T.S.

PLANTING NOTES:

1. GENERAL – ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CITY AND COUNTY CODES AND THESE PLANS.
   A. THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
   B. THE CONTRACTOR SHALL CARRY ALL WORKER'S COMPENSATION, PUBLIC LIABILITY, AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY OWNER.
   C. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
   D. ALL IRRIGATION WORK SHALL HAVE BEEN INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY GROUND COVER PLANTING WORK.
   E. THE OWNER'S SUPERINTENDENT AND THE LANDSCAPE ARCHITECT WILL INSPECT THE PLANTING WORK PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT AND COORDINATE ALL INSPECTIONS.
   F. THE QUALITY OF WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST STANDARDS. COOPERATION AND FLEXIBILITY IS EXPECTED OF THE CONTRACTOR TOWARD WORKING WITH THE OWNER/LANDSCAPE ARCHITECT IN PRODUCING THE BEST POSSIBLE PRODUCT. UPON COMPLETION OF EACH PHASE OF WORK, THE CONTRACTOR SHALL THOROUGHLY
   G. CLEAN THE SITE OF ALL ACCUMULATED RUBBISH, DEBRIS, AND OTHER EXTRANEOUS MATERIAL.
2. SCOPE OF WORK – CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, TRANSPORTATION, EQUIPMENT AND PROPERTY TO COMPLETE THE LANDSCAPING OF THE PLANTING AREAS AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS AND OR NOTES.
   A. INCLUDED AS A PART OF THE WORK, BUT NOT NECESSARILY LIMITED BY IT ARE THE FOLLOWING ITEMS: FINE GRADING OF ALL PLANTING AREAS; PREPARATION OF ALL PLANTING AND TREE HOLES; FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS; PROVIDING MAINTENANCE THROUGHOUT THE PROJECT PERIOD; PROVIDING PLANT ESTABLISHMENT WORK THROUGHOUT THE SPECIFIED PERIOD; CLEAN–UP AND WEEDING OF ALL LANDSCAPE AREAS; GUARANTEE OF ALL PLANT MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR.
3. THE CONTRACTOR SHALL REMOVE ALL WEEDS, ROCKS OVER 2" DIAMETER, DEBRIS AND OTHER EXTRANEOUS MATERIAL FROM THE JOB SITE IN A LEGAL MANNER PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT.
4. THE OWNER SHALL PROVIDE ROUGH GRADE TO WITHIN 1/10th OF 1 FOOT OF FINISH GRADE, INCLUDING ANY MINOR ADJUSTMENTS TO EARTH BERM AND SLOPE SHAPES. PROVIDE FINISH GRADE IN PLANTING AREAS TO 1% MINIMUM FLOW. FINISH GRADES SHALL BE 2" BELOW ADJACENT WALKS, CURBS, DRIVEWAYS, ETC. IN GROUND COVER AREAS AND 1" BELOW IN TURF.
5. ALL TREES AND SHRUBS SHALL BE PLANTED PER THESE NOTES AND AS DETAILED. ALL PLANT MATERIAL SHALL BE OF THE HIGHEST QUALITY AND LARGEST REASONABLE SIZE AVAILABLE FOR THE SPECIFIED CONTAINER SIZE (WITHOUT BEING ROOT BOUND). SHRUB MATERIALS SHALL BE VIGOROUSLY GROWING, HEALTHY PLANT MATERIAL, FULL AND BUSHY; OF HINES WHOLESALE NURSERY / MONROVIA NURSERY COMPANY QUALITY OR EQUAL. THE LANDSCAPE ARCHITECT WILL APPROVE ALL PLANT MATERIAL WHEN SPOTTED FOR PLANTING, AND WILL NOT HESITATE TO REJECT ANY MATERIAL OF QUESTIONABLE QUALITY, OR OF LESS THAN THE LARGEST REASONABLE SIZE MATERIAL AVAILABLE. ALL SPECIMEN MATERIAL TAGGED BY THE LANDSCAPE ARCHITECT FOR THIS PROJECT WILL BE AVAILABLE AT VALLEY CREST NURSERY, SEA TREE NURSERY, OR OTHER SOURCE EQUAL IN QUALITY. CONTRACTOR SHALL PURCHASE TAGGED MATERIAL, ARRANGE DELIVERY, PAY FOR SAME, AND INSTALL PER PLAN.
6. THE LANDSCAPE ARCHITECT SHALL APPROVE THE LOCATION OF ALL OF THE ONE GALLON, FIVE GALLON, AND FIFTEEN GALLON PLANT MATERIAL AS APPROXIMATELY SPOTTED IN THE FIELD BY THE CONTRACTOR. ALL BOXED MATERIAL SHALL BE STAKED FOR LOCATION APPROVAL PRIOR TO PLANT PIT EXCAVATION. PRIOR TO PLANTING, THE OWNER'S REPRESENTATIVE WILL SELECT THE BEST SIDE AND FACE ALL SPECIMEN TREES.
7. TREE TIES SHALL BE "CINCH TIE" AVAILABLE FROM 'V.I.T. COMPANY' OF ESCONDIDO, CA (619) 480–6702. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
8. ALL GROUND COVER AS NOTED IN THE LEGEND SHALL BE ROOTED TIP CUTTINGS FROM FLATS OR LINERS UNLESS OTHERWISE SPECIFIED, AND SHALL BE PLANTED IN STAGGERED ROWS CONTINUOUSLY UNDER ALL TREES AND SHRUBS IN THE AREAS AS DESIGNATED ON THE PLANS AND AT THE SPACING INDICATED IN THE LEGEND. ALL GROUND COVER AND SHRUB AREAS SHALL HAVE A MINIMUM DEPTH OF 3" SHREDDED WALK ON BARK MULCH, 1" IN DIAMETER.
9. TO ALL PLANTING AREAS AND PRIOR TO IRRIGATION SYSTEM INSTALLATION, CROSS RIP OR OTHERWISE TILL 12" DEEP. AFTER CROSS RIPPING, ROTO–TILL SOIL PREP AMENDMENTS 6" DEEP (SEE SOIL PREP / BACKFILL NOTE).
10. FOR BACKFILL AROUND TREES AND SHRUBS, USE THE FORMULA AS INDICATED IN THE SOIL PREP / BACKFILL NOTE. MIXING SHALL BE DONE AT ONE LOCATION.
11. WEED ABATEMENT – TO ALL PLANTING AREAS, AFTER EARTHWORK, INSTALLATION OF IRRIGATION SYSTEM AND SOIL PREPARATION, THE FOLLOWING WEED ABATEMENT WORK SHALL BE DONE:
   A. KEEP AREAS MOIST BY REGULAR IRRIGATIONS FOR A PERIOD OF TWO WEEKS (MINIMUM) TO GERMINATE EXISTING WEED SEEDS.
   B. KILL WEEDS WITH CONTACT WEED KILLER PER LICENSED HERBICIDE AGENCY SPECIFICATIONS. AFTER COMPLETE WEED KILL, REMOVE WEED RESIDUE AND TOP GROWTH.
12. PRE–EMERGENT PROGRAM – PRIOR TO INSTALLATION OF GROUND COVER, CONTRACTOR SHALL INSTALL A PER–EMERGENT HERBICIDE, EPTAM OR EQUAL, TO ALL PROPOSED GROUND COVER AREAS PER MANUFACTURER'S RECOMMENDATIONS.
13. MAINTENANCE – THE CONTRACTOR SHALL MAINTAIN ALL PLANTED AREAS THROUGHOUT THE CONTRACT PERIOD. MAINTENANCE SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, AND GENERAL CLEAN–UP. PLANTS SHALL BE KEPT IN A HEALTHY GROWING CONDITION.
14. PLANT ESTABLISHMENT PERIOD – THE PLANT ESTABLISHMENT PERIOD SHALL COMMENCE UPON THE OWNER'S AND THE LANDSCAPE ARCHITECTS WRITTEN APPROVAL OF ALL PHASES OF PLANTING INSTALLATION AND SHALL BE FOR NINETY (90) CONTINUOUS CALENDAR DAYS. PLANT ESTABLISHMENT WORK SHALL INCLUDE THREE (3) FERTILIZER APPLICATIONS TO ALL PLANTED AREAS DURING THIRTY (30) DAY INTERVALS DURING THE PLANT ESTABLISHMENT PERIOD (REFER TO FERTILIZER PROGRAM NOTE FOR TYPE AND APPLICATION RATES).
15. PLANT ESTABLISHMENT PROCEDURES – THE GENERAL CARE AND MAINTENANCE OF ALL AREAS SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, CLEAN–UP, AND AS FOLLOWS:
   A. CULTIVATE AND WEED AT NOT LESS THAN TEN (10) WORKING DAY INTERVALS.
   B. THREE (3) FERTILIZER APPLICATIONS PER NOTE ABOVE WITH FERTILIZER AT THE RATE AND FORMULA AS INDICATED IN THE SOIL PREP/BACKFILL NOTE.
   C. CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEMS IN A LIKE NEW, OPERATING CONDITION, ADJUSTING HEAD HEIGHTS, THROW AND SPRAY ARCS AS NECESSARY. THE
   D. CONTRACTOR IS RESPONSIBLE FOR PROPER WATERING OF ALL PLANTED AREAS, AND SHALL REPLACE ANY MATERIAL DAMAGED DUE TO IMPROPER MOISTURE. ANY CONCENTRATED DEVELOPMENT OF WEED GROWTH THAT MAY APPEAR IN PLANTING AREAS DURING PLANT ESTABLISHMENT PERIOD SHALL BE REMOVED AT THIRTY (30) DAY INTERVALS. THE CONTRACTOR MAY ELECT TO REMOVE SUCH CONCENTRATIONS OF WEEDS MANUALLY OR BY AN APPROVED HERBICIDE PROGRAM.
   E. DURING THE COURSE OF THE MAINTENANCE WORK, THE CONTRACTOR SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE AND SHALL KEEP THE PREMISES IN A NEAT AND CLEAN CONDITION AT ALL TIMES.
   F. DURING THE PLANT ESTABLISHMENT PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION FOR ALL PLANTING AREAS. ANY DAMAGED AREAS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

F Planting Notes

SCALE: –

BENCHMARK

SB CO. BM NO 14–2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY — NO. 2110 — Signature — 10/31/11 Renewal Date — 11-4-11 Date — STATE OF CALIFORNIA

SUBMITTED BY:

DATE: 11–4–11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

DESIGN GROUP LANDSCAPE ARCHITECTURE

4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11

ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6–30–12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

PROJECT No. STR07003
SCHEDULE II
BASE LINE

PLANTING DETAILS

DRAWER NO.

SHEET 11 OF 12

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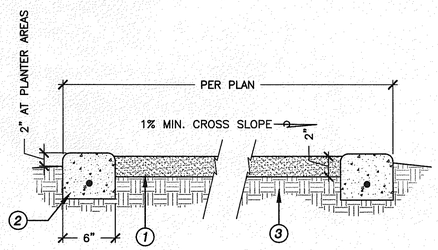


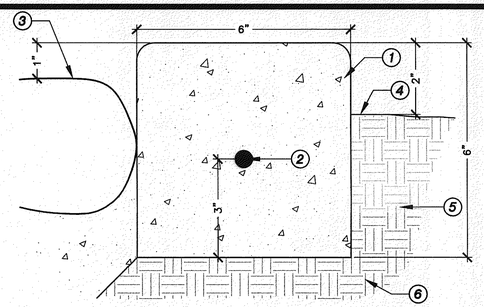
DETAIL NOTES:

1. 2" MIN. DEPTH STABILIZED DECOMPOSED GRANITE. COLOR: 'PYRITE GOLD.' STABILIZER AND DECOMPOSED GRANITE TO BE PROVIDED BY GAIL MATERIALS (951) 667-6106.
2. 6" CONCRETE CURB, REFER TO DETAIL 'B' SHEET 12
3. 90% COMPACTED SUBGRADE

NOTE:
CONTRACTOR TO SUBMIT COLOR SAMPLE OF STABILIZED D.G. TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. STABILIZER AND DECOMPOSED GRANITE SHALL BE PREMIXED BY MANUFACTURER PRIOR TO DELIVERY ON-SITE.

A Decomposed Granite

SCALE: 1.5"=1'



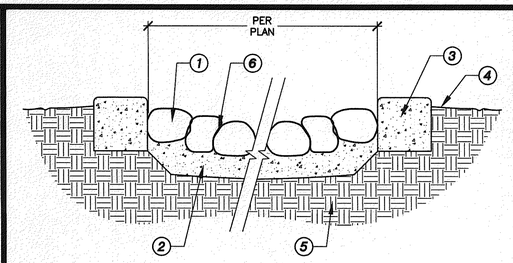
DETAIL NOTES:

1. 2500 PSI NATURAL GREY CONCRETE WITH LIGHT BROOM FINISH.
2. #4 REBAR; LAP BARS 6" AT SPLICES AND TIE.
3. FINISH GRADE AT COBBLE PER PLAN (1" BELOW TOP OF COBBLE).
4. FINISH GRADE IN D.G./LANDSCAPED AREAS (2" BELOW TOP OF CURB).
5. UNDISTURBED NATIVE TOPSOIL/SUBGRADE
6. 90% RELATIVE COMPACTED SUBGRADE

* INSTALL 1/2" PREFORMED EXPANSION JOINTS @15'O.C. AND AT BEGINNING OF RADIUS.

B 6"x6" Concrete Header

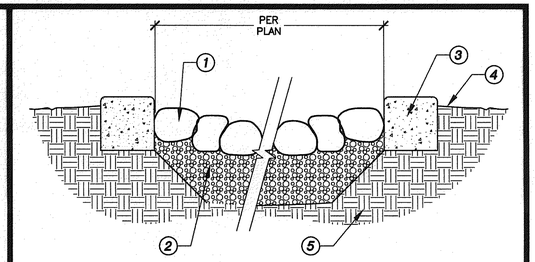
SCALE: 6"=1'



1. 3"ø-12"ø GREY RIVER ROCK OBTAINED LEGALLY FROM LOCAL SOURCE
2. 3" THICK CONCRETE MORTAR BASE
3. 6"x6" CONCRETE HEADER ON ALL EDGES, PER DETAIL 'B', THIS SHEET
4. FINISH GRADE IN ALL D.G./LANDSCAPED AREAS
5. COMPACTED SUBGRADE PER SOILS REPORT
6. 1/4" - 1/2" MORTAR JOINTS. 3/4" OF COBBLE TO BE IN MORTAR

C River Rock in Concrete

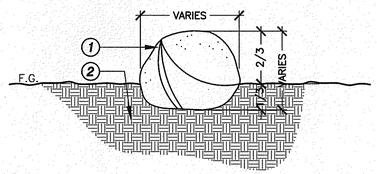
SCALE: 1.5"=1'



1. 3"ø-12"ø GREY RIVER ROCK OBTAINED LEGALLY FROM LOCAL SOURCE
2. 12" MINIMUM DEPTH 1/2"ø-3/4"ø GRAVEL
3. 6"x6" CONCRETE HEADER ON ALL EDGES, PER DETAIL 'B', THIS SHEET
4. FINISH GRADE IN ALL D.G./LANDSCAPED AREAS
5. COMPACTED SUBGRADE PER SOILS REPORT

D River Rock in Gravel

SCALE: 1.5"=1'



DETAIL NOTES:

1. STONE OR BOULDER. REFER TO PLANS FOR TYPE, SIZE AND SUPPLIERS
2. 90% COMPACTED SUBGRADE

GENERAL NOTES:

BOULDERS SHALL BE PLACED SO AS TO APPEAR "NATURAL." AT NO TIME SHALL ANY BOULDER BE PLACED ON TOP OF SOIL OR D.G. WITHOUT EMBEDDING IN OR COMPACTING THE SURROUNDING SOIL.

E Boulder Installation

SCALE: 1"=1'-0"

F

G

H

BENCHMARK

SB CO. BM NO 14-2

BRASS CAP IN TOP OF CURB AT NE CORNER OF BASE LINE AND PALM AVENUE

ELEVATION: 1233.66

REGISTERED LANDSCAPE ARCHITECT — TIMOTHY I. MALONEY — No. 2110 — STATE OF CALIFORNIA
Signature 10/31/11 Renewal Date
11-4-11 Date

SUBMITTED BY:

DATE: 11-4-11

TIMOTHY I. MALONEY RLA No. 2110 Exp. 10/31/11

PLANS PREPARED BY:

DESIGN GROUP LANDSCAPE ARCHITECTURE

4649 Brockton Ave.
Riverside, CA 92506
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REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

APPROVED BY

11-7-11
ERNEST WONG, CITY ENGINEER DATE
R.C.E. 37413 EXP. 6-30-12

BASE LINE BEAUTIFICATION
(COLE AVENUE TO STATE ROUTE 30)

PROJECT No. STR07003
SCHEDULE II
BASE LINE

CONSTRUCTION DETAILS

DRAWER NO.

SHEET 12 OF 12

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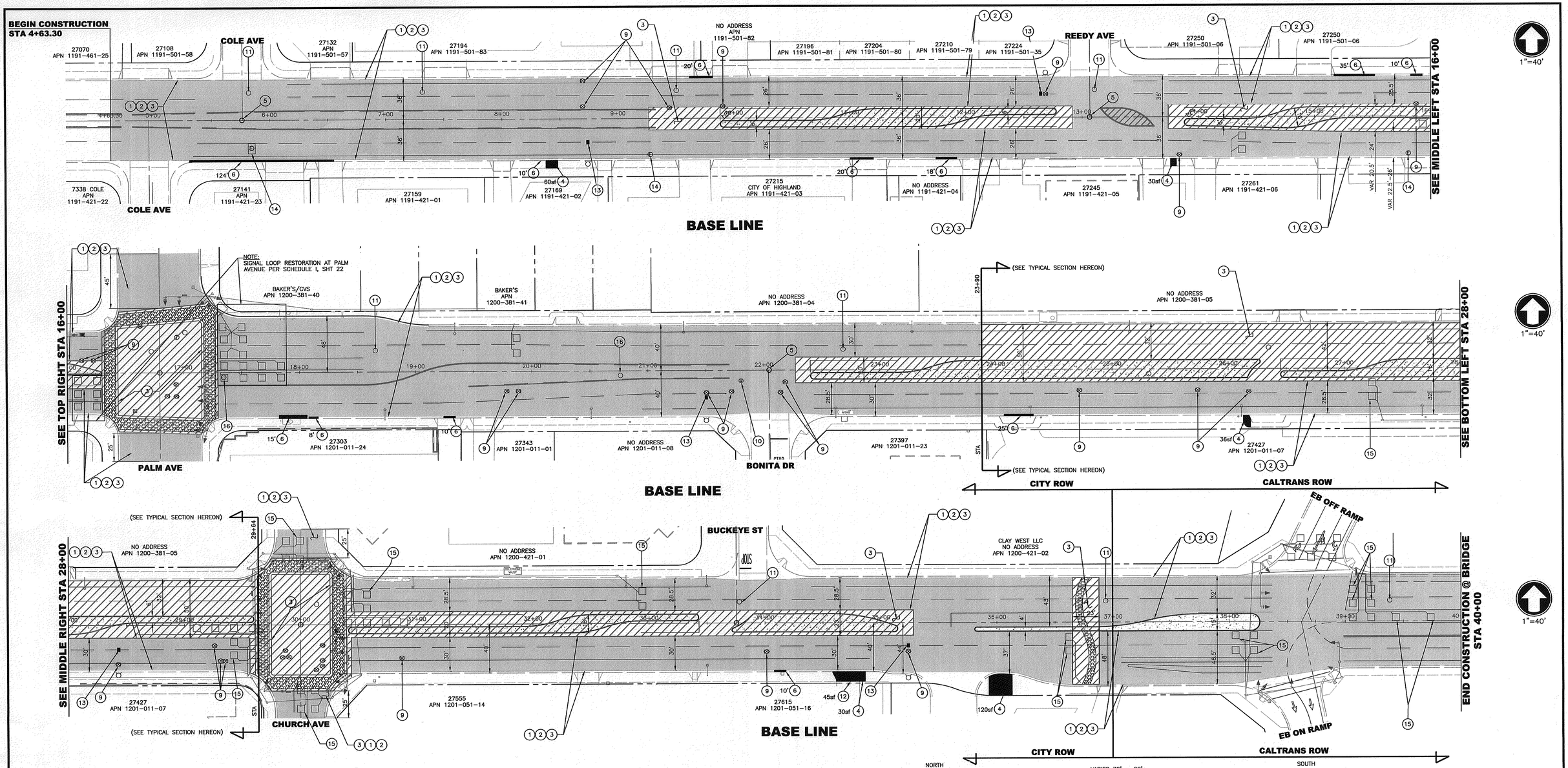
PROJECT No. STR07003
SCHEDULE III



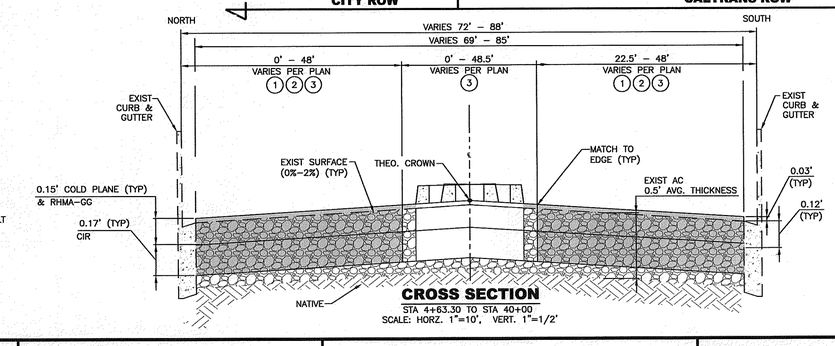
CONSTRUCTION NOTES

1. COLD PLANE, TYPE II, 0.15' ; 0.12' AT LIP OF GUTTER, TYP.
2. CONSTRUCT 2" COLD-IN-PLACE RECYCLING.
3. CONSTRUCT 0.15' ARHM-GG OVERLAY
4. REMOVE AND REPLACE EXISTING SIDEWALK PER CITY CONST STD 300
5. PROTECT EXISTING MONUMENT
6. REMOVE AND REPLACE EXISTING 8" CURB AND GUTTER PER CITY CONST STD 204
7. NOT USED
8. REMOVE AND REPLACE LOCAL DEPRESSION PER SBC STD 203
9. ADJUST VALVE COVER TO FINISH GRADE (TYP)
10. ADJUST GAS VALVE COVER TO FINISH GRADE
11. ADJUST SEWER MANHOLE COVER TO FINISH GRADE (BY EVWD) (TYP)
12. REMOVE AND REPLACE DRIVEWAY APPROACH PER CITY CONST STD 320
13. FURNISH AND INSTALL BLUE RPM ON CENTERLINE AT FIRE HYDRANT LOCATIONS PER MUCTD FIG 3B-102(CA)
14. EXIST SCE VAULT, PIP.
15. FURNISH & INSTALL EXISTING TRAFFIC LOOP(S) PER MUTCD SEC 4D.103
16. ADJUST STORM DRAIN MANHOLE TO FINISH GRADE (TYP)

NOTE:
PAVEMENT STRIPING AND MARKINGS, PER SCHEDULE I

LEGEND

- COLD PLANE CONSTRUCT RHMA-GG 0.15' OVERLAY
- EXIST CONCRETE PAVED/MEDIAN, PIP
- 2" COLD-IN-PLACE RECYCLING
- EXISTING ASPHALT
- NATIVE
- UNIT PAVERS
- CONSTRUCT RHMA-GG 0.15 OVERLAY
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- EDISON VAULT
- GAS VALVE
- TELEPHONE VAULT



CROSS SECTION
STA 4+63.30 TO STA 40+00
SCALE: HORZ. 1"=10', VERT. 1"=1/2'

Underground Service Alert
SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT
TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

REGISTERED PROFESSIONAL ENGINEER JOHN G. EGAN No. 14853 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA

SUBMITTED BY: DATE: 11/3/11
JOHN G. EGAN, R.C.E. No. 14853

PLANS PREPARED BY:
ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.
1820 Commercenter Circle
San Bernardino, California 92408-3430
(909) 890-1255 Fax (909) 890-0995

FIELD BOOK REFERENCE.

MARK	REVISIONS	APPR.	DATE

CITY OF HIGHLAND

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
EP	EP	JGE	

RECOMMENDED BY: CARLOS ZAMANO, R.C.E. No. 60153 EXP. 6-30-12 DATE: 11/7/11
ERNEST WONG, CITY ENGINEER R.C.E. 37413 EXP. 6-30-12 DATE 11-7-11

PROJECT NO. ola09002
PAVEMENT REHABILITATION PLANS
IMPROVEMENT PLAN
BASE LINE
STA 4+63.30 TO STA 40+00

W.O. NO.
ROAD NO.
FILE NO. 03017.160
SHEET 1 OF 1

T:\Projects\03017160\PAVEMENT PLANS\PHASE 1\03017160C1PH1.dwg, 11/3/2011 3:44:28 PM, \\laserver01\HP DesignJet 1050 Doris