LANDSCAPE ARCHITECTURAL CONSTRUCTION PLANS

FOR

DOWNTOWN MALL
MAIN STREET

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

I.D.L.A. PROJECT NUMBER 13406

PROJECT DIRECTORY

IDLA
LANDSCAPE ARCHITECTURE
3744 TENTH STREET, SUITE 200
RIVERSIDE, CA 92501
PHONE # (951) 683-1283

IW CONSULTING, INC.
CIVIL ENGINEERING
3544 UNIVERSITY AVENUE
RIVERSIDE, CA 92501
PHONE # (951) 687-2929

A & F ENGINEERING GROUP, INC.
ELECTRICAL ENGINEERING
9333 BASELINE, SUITE 100
RANCHO CUCAMONGA, CA 91730
PHONE # (909) 941-3008

CITY OF RIVERSIDE
PUBLIC UTILITIES
3901 ORANGE STREET
RIVERSIDE, CA 92501
PHONE # (951) 782-0330

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CIVIL ENGINEER

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PUBLIC UTILITIES

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AS-BUILT 7-19-18

BID SET

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 6172
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LID DRAWN BY JM / MA CHECKED BY LID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

COVER SHEET
M-457

SHEET 1 OF 100

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
FROM TENTH STREET TO FIFTH STREET
MARCH 2008

GRADING NOTES:

1. ALL GRADING SHALL CONFORM TO RIVERSIDE MUNICIPAL CODE TITLE 17 AND APPENDIX CHAPTER 33, VOLUME 1 OF THE CURRENT CITY-ADOPTED EDITION OF THE UNIFORM BUILDING CODE. THE ENGINEER SHALL SUBMIT A LETTER CERTIFYING THE CONTOURING OF SLOPES AS REQUIRED BY SECTION 17.28.020 OF TITLE 17 PRIOR TO ISSUANCE OF A BUILDING PERMIT.

2. NOT USED.

3. THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ON-SITE OR OFF-SITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ON-SITE IMPROVEMENTS SHALL BE CONSTRUCTED FROM APPROVED BUILDING PERMIT PLANS. OFF-SITE IMPROVEMENTS SHALL BE CONSTRUCTED FROM PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.

4. THE CONTRACTOR IS RESPONSIBLE FOR EROSION, DUST AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS.

A. THE DEVELOPER AND HIS CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN AND TO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G., HYDRO- SEEDING, MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, RETENTION BASINS, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION AND/OR THE INTRODUCTION OF DIRT, MUD OR DEBRIS TO EXISTING PUBLIC STREETS AND/OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION CONTROL MEASURES NOTED ABOVE DURING THE PERIOD OCTOBER 15 TO APRIL 15.

B. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND CHECK DAMS. SILT AND DEBRIS SHALL BE REMOVED FROM CITY OF RIVERSIDE STREETS.

5. ANY IMPROVEMENTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE A SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE PUBLIC WORKS DEPARTMENT.

6. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENCES ADJACENT TO THE S'LY PROPERTY LINE OF THIS PROJECT ARE TO BE REMOVED. THE DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S) DURING THE INSTALLATION OF THE TRACT WALL. THE EXISTING BLOCK WALL ON THE E'LY PROPERTY LINE IS TO BE PROTECTED IN PLACE.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE.

8. IT IS THE SOIL ENGINEER'S RESPONSIBILITY TO OBSERVE AND PERFORM COMPACTION TESTS DURING THE GRADING TO EVALUATE THE PREPARATION OF THE NATURAL GROUND SURFACE TO RECEIVE THE FILL AND THE COMPACTION ATTAINED IN THE FILL, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES.

10. OPERATIONS SHALL BE LIMITED TO BETWEEN THE HOURS OF 7 A.M. AND 7 P.M. ON WEEKDAYS AND BETWEEN 8:00 A.M. AND 5:00 P.M. ON SATURDAYS. NO GRADING OR CONSTRUCTION NOISE WILL BE PEMITTED ON SUNDAY OR FEDERAL HOLIDAYS. (RIVERSIDE MUNICIPAL CODE, 7.35.010, ORDINANCE NO. 6273)

11. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON-SITE AND MADE AVAILABLE UPON REQUEST OF A REPRESENTATIVE OF THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) - SANTA ANA REGION AND/OR THE CITY OF RIVERSIDE.

12. ANY ON-SITE RETAINING WALLS SHOWN ON THIS PLAN THAT ARE UNDER 3 FEET IN HEIGHT AND SUPPORT A SURCHARGE OR THAT ARE OVER 3 FEET IN HEIGHT REQUIRE SEPERATE REVIEW, APPROVAL AND A BUILDING PERMIT FROM THE BUILDING DIVISION, PLANNING DEPARTMENT. ANY NECESSARY RETAINING WALLS ON THE PERIMETER OF THIS SITE SHALL BE IN PLACE AND APPROVED BY THE BUILDING INSPECTOR PRIOR TO ISSUANCE OF THE GRADING PERMIT. APPROVED SEQUENCED GRADING WITH 1 1/2:1 MAXIMUM SLOPES TO WITHIN 2 FEET OF THE ADJACENT PROPERTY LINE MAY BE ACCEPTABLE TO ALLOW FOR ISSUANCE OF A GRADING PERMIT PRIOR TO COMPLETION OF ANY PERIMETER RETAINING WALLS.

13. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES.

EROSION CONTROL NOTES:

IN CASE OF EMERGENCY CALL: FRED CERDA
AT PH (951) 826-5341 (24 HRS.)

THE UNDERSIGNED CIVIL ENGINEER WILL REVIEW EROSION CONTROL WORK:
FREDDY IRIANTO, PE

A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIAL SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.

DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY INSPECTOR.

ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT.

AFTER A RAINSTORM ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS. ANY GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED.

THE FACES OF FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION. THE SLOPE PROTECTION SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL INSPECTION.

A 24-HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER ON ANY DEVICE EXCEEDS TWO FEET.

EROSION CONTROL SHALL BE IMPLEMENTED DURING THE RAINY SEASON (OCTOBER 15 THROUGH END OF APRIL).

GENERAL NOTES:

1. NO WORK WHATSOEVER SHALL BE STARTED WITHOUT NOTIFYING THE CITY OF RIVERSIDE 48 HOURS PRIOR TO BEGINNING WORK.
2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO ENSURE COMPLIANCE WITH THE APPROVED PLANS WITHIN HIS AREA OF TECHNICAL SPECIALTY.
3. ALL DIRT, SAND, MUD, OR DEBRIS DEPOSITED OR SPILLED UPON PUBLIC STREETS DURING ANY GRADING, HAULING, OR EXPORT OPERATIONS SHALL IMMEDIATELY BE CLEANED UP BY DEVELOPER, HIS CONTRACTOR OR SUBCONTRACTOR.
4. GRADING OPERATIONS SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 7:00 P.M. ON THE WEEKDAYS.
5. THE CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANS PRIOR TO START OF CONSTRUCTION OPERATIONS. ANY DISCREPANCIES BETWEEN THE QUANTITIES SHOWN ON PLANS AND THE CONTRACTOR'S QUANTITIES SHALL BE REPORTED TO THE ENGINEER.
6. APPROVED EROSION PROTECTION DEVICES SHALL BE PROVIDED AND MAINTAINED DURING THE RAINY SEASON AND SHALL BE IN PLACE AT THE END OF EACH DAY'S WORK AND BEFORE FORECASTED RAINY WEATHER.
7. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. ALL GATE VALVE CANS, WATER METER BOXES, MAN HOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE UNLESS IDENTIFIED TO BE ABANDONED. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. EXCEPT THAT ADJUSTMENT OF SEWER AND STORM DRAIN MAN HOLES TO GRADE SHALL BE PAID SEPARATELY.
9. THIS PROJECT WILL REQUIRE A STREET OPENING PERMIT FROM THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT. CONSTRUCTION INSPECTION WILL BE PERFORMED BY CITY OF RIVERSIDE PERSONNEL OR OTHER REPRESENTATIVES.
10. ALL ROOF DOWN DRAINS TO BE CONNECTED TO STORM DRAIN SYSTEM. CONNECTION TO BE MADE PURSUANT TO UBC REQUIREMENTS. PAYMENT FOR PIPING TO BE INCLUDED IN CONSTRUCTION QUANTITIES AND AS CONSTRUCTION ITEM #16. PAYMENT FOR CONNECTION AND ALL REQUIRED APPURTENANCES SHALL BE ON A UNIT BASIS. CONSTRUCTION QUANTITY ESTIMATED TO BE 25 UNITS.
11. CONTRACTOR'S RESPONSIBILITY TO INCLUDE PROTECTION OF ALL EXISTING UTILITIES UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
12. REMOVE ALL EXISTING STORM DRAIN PIPING, INLETS, AND APPURTENANCES AS PART OF CLEARING AND GRUBBING.
13. ALL EXISTING NEWS STANDS TO BE REMOVED AND RELOCATED. COMPENSATION INCLUDED WITH PAYMENT FOR SURFACE MATERIAL CONSTRUCTION.
14. REFER TO LANDSCAPE ARCHITECT PLAN FOR SALVAGE OF ALL BOULDERS AND REUSE.
15. SALVAGE AND TRANSPORT TO CITY YARD ALL EXISTING POTS, BENCHES, AND TRASH RECIPROCALS.

QUANTITY ESTIMATE NOTE:

QUANTITY ESTIMATES SHOWN ON THESE PLANS ARE FOR PLAN CHECK PURPOSES ONLY. THESE QUANTITIES DO NOT REFLECT ANY SHRINKAGE, SWELLING, SUBSIDENCE OVER EXCAVATION, OR ANY SPECIAL CONDITIONS THAT MAY BE SPECIFIED IN THE PRELIMINARY SOILS REPORT. SINCE THE ENGINEER CAN NOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITIONS OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESONSIBILITY FOR FINAL EARTHWORK QUANTITIES FOR BIDDING, CONTRACT, AND CONSTRUCTION PURPOSES. IF IT APPEARS THAT THERE WILL BE AN EXCESS OR SHORTAGE OF MATERIAL, THE CONTRACTOR MAY NOTIFY THE ENGINEER TO DETERMINE IF POSSIBLE GRADE ADJUSTMENTS CAN BE MADE TO ALLEVIATE SAID MATERIAL EXCESS OR SHORTAGE.

TELEPHONE NUMBERS:

EMERGENCY
RIVERSIDE POLICE DEPARTMENT ..... (951) 787-7911
RIVERSIDE FIRE DEPARTMENT ..... (951) 826-5321
GOODHEW AMBULANCE ..... (951) 684-5520
RIVERSIDE COMMUNITY HOSPITAL ..... (951) 788-3000

UTILITIES
UNDERGROUND SERVICE ALERT ..... (800) 227-2600
CITY OF RIV. ELEC. OPERATIONS CONTROL CTR. ..... (951) 687-0791
SOUTHERN CALIFORNIA GAS (DISTRIBUTION) ..... (800) 422-4133
CITY OF RIV. PUBLIC UTIL. CUSTOMER SERVICES ..... (800) 782-0330
PACIFIC BELL ..... (800) 422-4133
AMERICAN TELEPHONE & TELEGRAPH ..... (951) 381-7380
CHARTER COMMUNICATION CABLE ..... (951) 688-9012
CITY OF RIV. WATER OPERATIONS EMERGENCIES ..... (951) 688-9012

OTHERS
RIVERSIDE PUBLIC WORKS DEPARTMENT ..... (951) 826-5341
R.F. DICKSON STREET SWEEPING ..... (800) 841-7994
WESTERN WASTE ..... (951) 737-0343
RIVERSIDE DIAL-A-RIDE (SUPERVISOR) ..... (951) 275-9620
US POSTAL SERVICE ..... (951) 737-0451
RIVERSIDE UNIFIED SCHOOL DISTRICT ..... (951) 788-7134
RIVERSIDE TRANSIT AGENCY ..... (951) 684-0850

CONTRACTORS RESPONSIBILITY:

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

ENGINEER'S NOTICE TO CONTRACTORS:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

VICINTY MAP

THOMAS GUIDE - PAGE 745, E2 (2000 EDITION)
NOT TO SCALE

REPRESENTATIVE:

IAN DAVIDSON LANSCAPE ARCHITECT. INC.
3744 TENTH STREET, SUITE 200
RIVERSIDE, CA. 92502
PH: (951) 683-1283
FAX: (951) 683-4352

ENGINEER:

IW CONSULTING ENGINEERS, INC.
3544 UNIVERSITY AVENUE
RIVERSIDE, CA 92501
PH: (951) 687-2929
FAX: (951) 687-2999

SOURCE OF TOPOGRAPHY:

SO-CAL ENGINEERING
5750 DIVISION STREET, SUITE 203
RIVERSIDE, CA 92506
PH: (951) 787-0427
FAX: (951) 784-8131
FIELD TOPOGRAPHIC SURVEY PERFORMED ON 10/2006 & 05/2007

UTILITY PROVIDERS:

WATER:	CITY OF RIVERSIDE
SEWER:	CITY OF RIVERSIDE
ELECTRICITY:	CITY OF RIVERSIDE
GAS:	THE GAS COMPANY
TELEPHONE:	PACIFIC BELL
TELEVISION:	AIR WAVES/CHARTER COMMUNICATIONS

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SHEET 17 & 19 ..... EROSION CONTROL SHEETS
SHEET 20 & 22 ..... DEMOLITION SHEETS
SHEET 23 ..... DETAIL SHEETS

LEGEND

EXISTING TREE
EXISTING TREE TO REMAIN
EXISTING WALL
PROPOSED WALL
PROPOSED LOT LINE
EXISTING BUILDING
EXISTING BUILDING OVERHANG
EXISTING RIGHT OF WAY
CENTERLINE EXISTING
EXISTING CURB
PROPOSED CURB
EXISTING SIDEWALK
PROPOSED SIDEWALK
S — EXISTING SEWER
G — EXISTING GAS
W — EXISTING WATER
SD — EXISTING STORM DRAIN
M.H. MANHOLE
S.F. SQUARE FEET
F.L. FLOW LINE ELEVATION
F.S. FINISH SURFACE ELEVATION
F.G. FINISH GRADE ELEVATION
C/L CENTERLINE
R/W RIGHT OF WAY
P/L PROPERTY LINE
DWY DRIVEWAY
F.F. FINISH FLOOR ELEVATION
PAD PAD ELEVATION
T.C. TOP OF CURB
S/W SIDEWALK
P.E. PAD ELEVATION
INV. INVERT OF PIPE ELEVATION
P.I.P. PROTECT IN PLACE
T.B.R. TO BE RELOCATED

HATCH LEGEND

(2) PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
(3) PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
(4) PROPOSED CONCRETE PAVING
(5) PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
(31) PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
(51) (56) PROPOSED PAVING
(53) (54) PROPOSED COLD MILL AND 1" MIN. THICK DG AC.

PW 07-0379 PW 07-0217

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 1-800-422-4133 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008
IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER — FREDDY IRIANTO — No. 60874 Exp.12/31/08 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 - PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

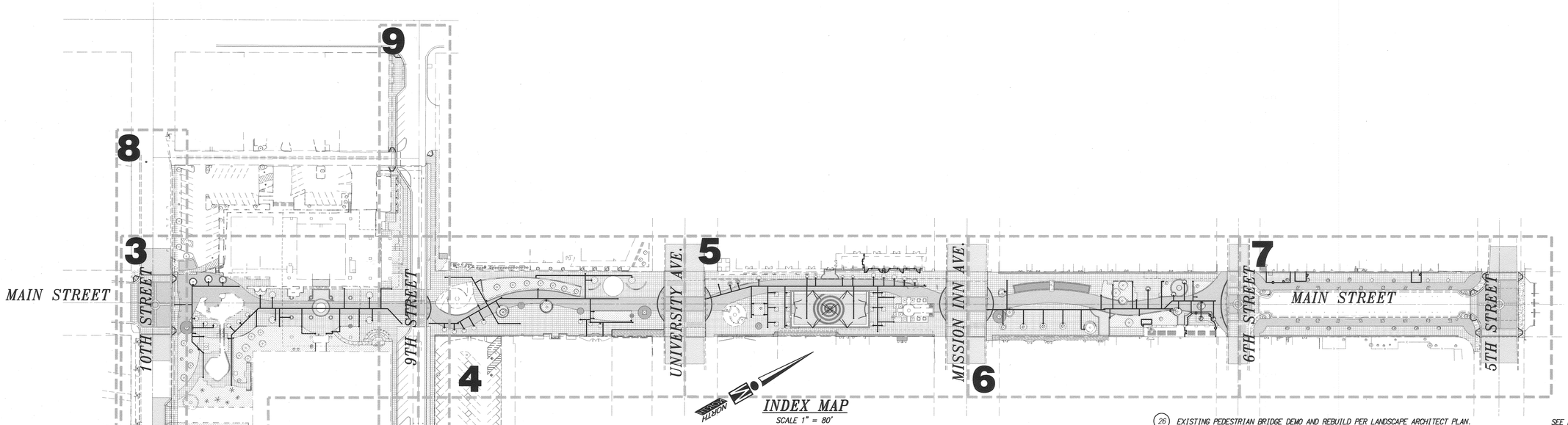
APPROVED BY
CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
TITLE SHEET
10TH STREET TO 5TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.1A
SHEET 2 OF 100
JN: 223.002

Drawing: G:\223\001\Final Drawings\223001-GRD-01.dwg Plotted By: jcope Layout: TITLE Last Saved: Tue Mar 25, 2008 - 10:54am Last Plotted: Tue Mar 25, 2008 - 11:06am



INDEX MAP

SCALE 1" = 80'

CONSTRUCTION NOTES & QUANTITY ESTIMATES:

1A	CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.	825 LF
1B	CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.	80 LF
1C	CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.	12 LF
1D	CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.	74 LF
2	CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.	6,061 SF
3	INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.	50,231 SF
4A	CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.	62,846 SF
4B	CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.	15,968 SF
4C	CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.	24,476 SF
5	INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.	9,290 SF
6	CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.	852 LF
7	CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.	13 EA
8	CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.	SEE LANDSCAPE ARCHITECT PLAN
9	REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.	INCLUDED WITH CLEARING AND GRUBBING
10	REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.	INCLUDED WITH CLEARING AND GRUBBING
11	EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
12	INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.	15 EA
13	INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.	106 EA
14	INSTALL 18" SDR 35 DRAIN LINE.	1,163 LF
15	INSTALL 12" SDR 35 DRAIN LINE.	1,202 LF
16	INSTALL 6" SDR 35 DRAIN LINE.	1,455 LF
17	INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.	13 EA
18	CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16	25 EA
19	INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.	1 EA
20	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4', V=3.5' MATCH EXISTING OUTLET PIPE.	1 EA
21	REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.	1 LS
22A	PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.	1 LS
22B	PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.	1 LS
23A	PAINT CURB RED PER CITY STANDARDS.	1 LS
23B	PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.	1 LS
24	CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.	102 LF
25	RELOCATE FIRE HYDRANT PER WATER PLAN.	SEE WATER PLAN
26	EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
27	INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.	3 EA
28	EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.	INCLUDED WITH CLEARING AND GRUBBING
29	EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.	SEE LANDSCAPE ARCHITECT PLAN
30	SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.	INCLUDED WITH CLEARING AND GRUBBING
31	CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.	7,582 SF
32	CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.	1 LS
33	EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.	SEE LANDSCAPE ARCHITECT PLAN
34	CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
35	ADJUST MANHOLE TO GRADE.	5 EA
36	CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.	1 EA
37	CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.	452 SF
38	INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
39	INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.	6 EA
40	INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.	SEE LANDSCAPE ARCHITECT PLAN
41	CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
42	INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.	556 LF
43	CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
44	EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
45	CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
46	CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
47	CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
48	STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN	SEE LANDSCAPE ARCHITECT PLAN
49	INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.	37 EA
50	CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
51	REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.	1,869 SF
52	REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.	SEE ELECTRICAL PLAN
53	COLD MILL EXISTING AC 0.1' DEEP.	7,602 SF
54	OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.	7,602 SF
55	CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.	311 LF
56	REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.	18,146 SF
57	CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.	---
58	INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.	48 EA
59	PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.	SEE LANDSCAPE ARCHITECT PLAN
60	CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.	2,712 SF
61	INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.	163 LF

QUANTITY ESTIMATE NOTE:

QUANTITY ESTIMATES SHOWN ON THESE PLANS ARE FOR PLAN CHECK PURPOSES ONLY. THESE QUANTITIES DO NOT REFLECT ANY SHRINKAGE, SWELLING, SUBSIDENCE OVER EXCAVATION, OR ANY SPECIAL CONDITIONS THAT MAY BE SPECIFIED IN THE PRELIMINARY SOILS REPORT. SINCE THE ENGINEER CAN NOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITIONS OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESONSIBILITY FOR FINAL EARTHWORK QUANTITIES FOR BIDDING, CONTRACT, AND CONSTRUCTION PURPOSES. IF IT APPEARS THAT THERE WILL BE AN EXCESS OR SHORTAGE OF MATERIAL, THE CONTRACTOR MAY NOTIFY THE ENGINEER TO DETERMINE IF POSSIBLE GRADE ADJUSTMENTS CAN BE MADE TO ALLEVIATE SAID MATERIAL EXCESS OR SHORTAGE.

PW 07-0379 PW 07-0217

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 1-800-422-4133 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

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CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008

IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue, Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER — FREDDY TRIANTO — No. 60874 Exp.12/31/08 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.

ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	REV. S.D. ALIGNMENT	AFD	9/26/08
1	3/20/2008 – PHASE 1	AFD	9/26/08
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FT

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER

DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
INDEX MAP, CONSTRUCTION NOTES & QUANTITIES
10TH STREET TO 5TH STREET

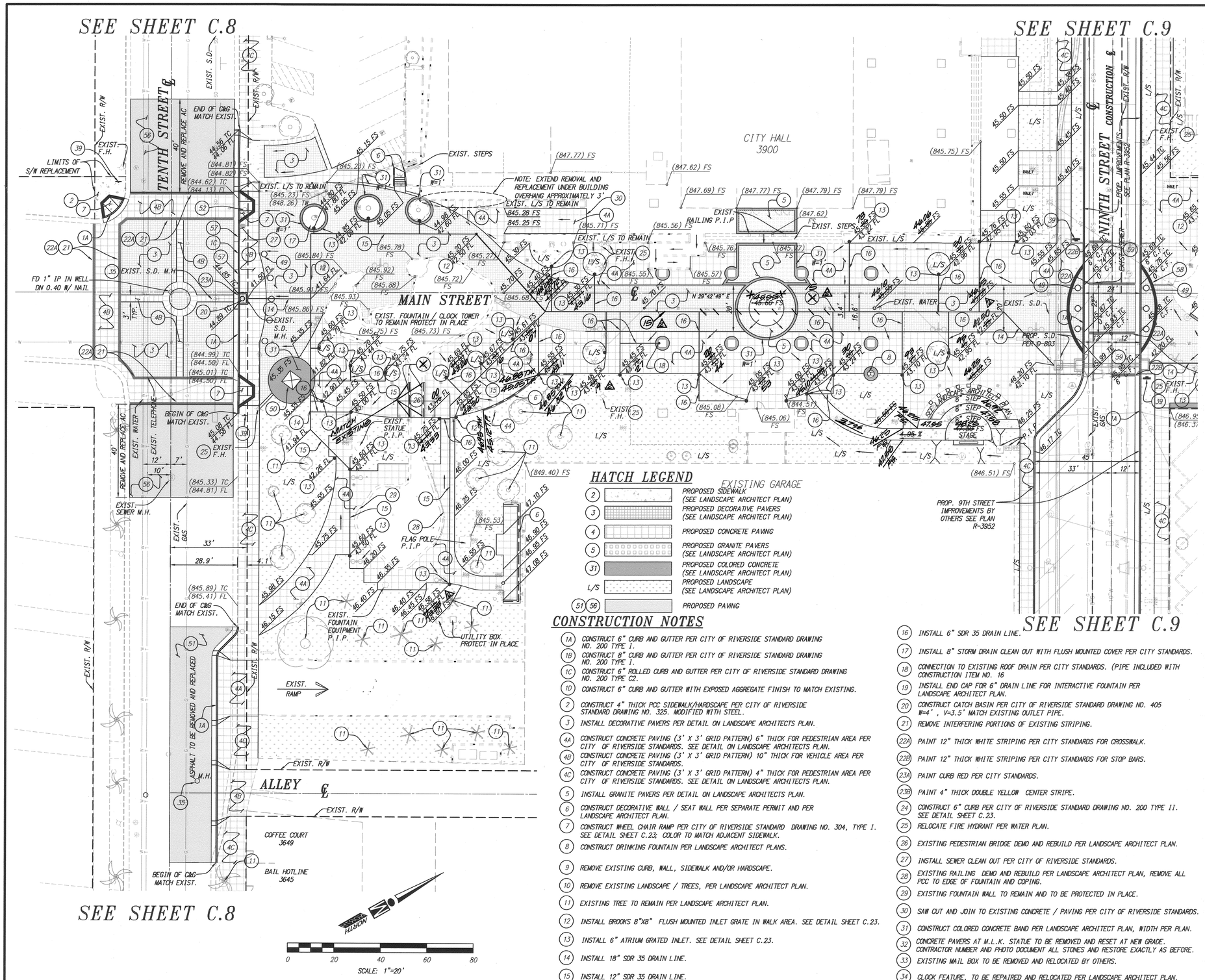
ACCOUNT NO.

M-457
C.2A
SHEET 3 OF 100

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

JN: 223.002

Drawing: G:\223.002\Final Drawings_F\223002-F00-02.dwg Plotted By: tryan Layout: 24x36_1 Last Saved: Tue Mar 25, 2008 - 10:46am Last Plotted: Tue Mar 25, 2008 - 11:16am



HATCH LEGEND

- (2) PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
- (3) PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- (4) PROPOSED CONCRETE PAVING
- (5) PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- (31) PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
- L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
- (51) (56) PROPOSED PAVING

CONSTRUCTION NOTES

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2. (1B) CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
3. (1C) CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
4. (1D) CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
5. (2) CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
6. (3) INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
7. (4A) CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
8. (4B) CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
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11. (6) CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
12. (7) CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
13. (8) CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
14. (9) REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
15. (10) REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.
16. (11) EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.
17. (12) INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.
18. (13) INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.
19. (14) INSTALL 18" SDR 35 DRAIN LINE.
20. (15) INSTALL 12" SDR 35 DRAIN LINE.
21. (16) INSTALL 6" SDR 35 DRAIN LINE.
22. (17) INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.
23. (18) CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16
24. (19) INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.
25. (20) CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4', V=3.5' MATCH EXISTING OUTLET PIPE.
26. (21) REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.
27. (22A) PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.
28. (22B) PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.
29. (23A) PAINT CURB RED PER CITY STANDARDS.
30. (23B) PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.
31. (24) CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.
32. (25) RELOCATE FIRE HYDRANT PER WATER PLAN.
33. (26) EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
34. (27) INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
35. (28) EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
36. (29) EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.
37. (30) SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.
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40. (33) EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.
41. (34) CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
42. (35) ADJUST MANHOLE TO GRADE.
43. (36) CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
44. (37) CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
45. (38) INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.
46. (39) INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
47. (40) INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
48. (41) CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
49. (42) INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
50. (43) CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.
51. (44) EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
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55. (48) STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
56. (49) INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
57. (50) CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
58. (51) REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.
59. (52) REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
60. (53) COLD MILL EXISTING AC 0.1' DEEP.
61. (54) OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
62. (55) CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
63. (56) REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.
64. (57) CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
65. (58) INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.
66. (59) PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.
67. (60) CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
68. (61) INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE

PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

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ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	REVISED ELEV.@STAGE AREA	AFD	3/24/08
1	REVISED STORM DRAIN	AFD	3/24/08
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	AFD	3/24/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	JC	3/24/08

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET
10TH STREET TO 9TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.3A
SHEET 4 OF 100
JN: 223.002

Drawing: G:\223.002\Final\Grading_223002.dwg Plotted By: Pyper Layout: Plot_1 Last Saved: Tue Mar 25, 2008 - 9:20am Last Plotted: Tue Mar 25, 2008 - 11:08am

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1D CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.

2 CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.

3 INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.

4A CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.

4B CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.

4C CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.

5 INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.

6 CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.

7 CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.

8 CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.

9 REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.

10 REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.

11 EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.

12 INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.

13 INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.

14 INSTALL 18" SDR 35 DRAIN LINE.

15 INSTALL 12" SDR 35 DRAIN LINE.

16 INSTALL 6" SDR 35 DRAIN LINE.

17 INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.

18 CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16

19 INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.

20 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4' , V=3.5' MATCH EXISTING OUTLET PIPE.

21 REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.

22A PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.

22B PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.

23A PAINT CURB RED PER CITY STANDARDS.

23B PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.

24 CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE 11. SEE DETAIL SHEET C.23.

25 RELOCATE FIRE HYDRANT PER WATER PLAN.

26 EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.

27 INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.

28 EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.

29 EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.

30 SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.

31 CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.

32 CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.

33 EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.

34 CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.

35 ADJUST MANHOLE TO GRADE.

36 CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.

37 CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.

38 INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.

39 INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.

40 INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.

41 CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.

42 INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.

43 CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.

44 EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.

45 CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.

46 CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.

47 CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.

48 STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN

49 INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.

50 CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.

51 REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.

52 REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.

53 COLD MILL EXISTING AC 0.1' DEEP.

54 OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.

55 CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.

56 REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.

57 CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.

58 INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.

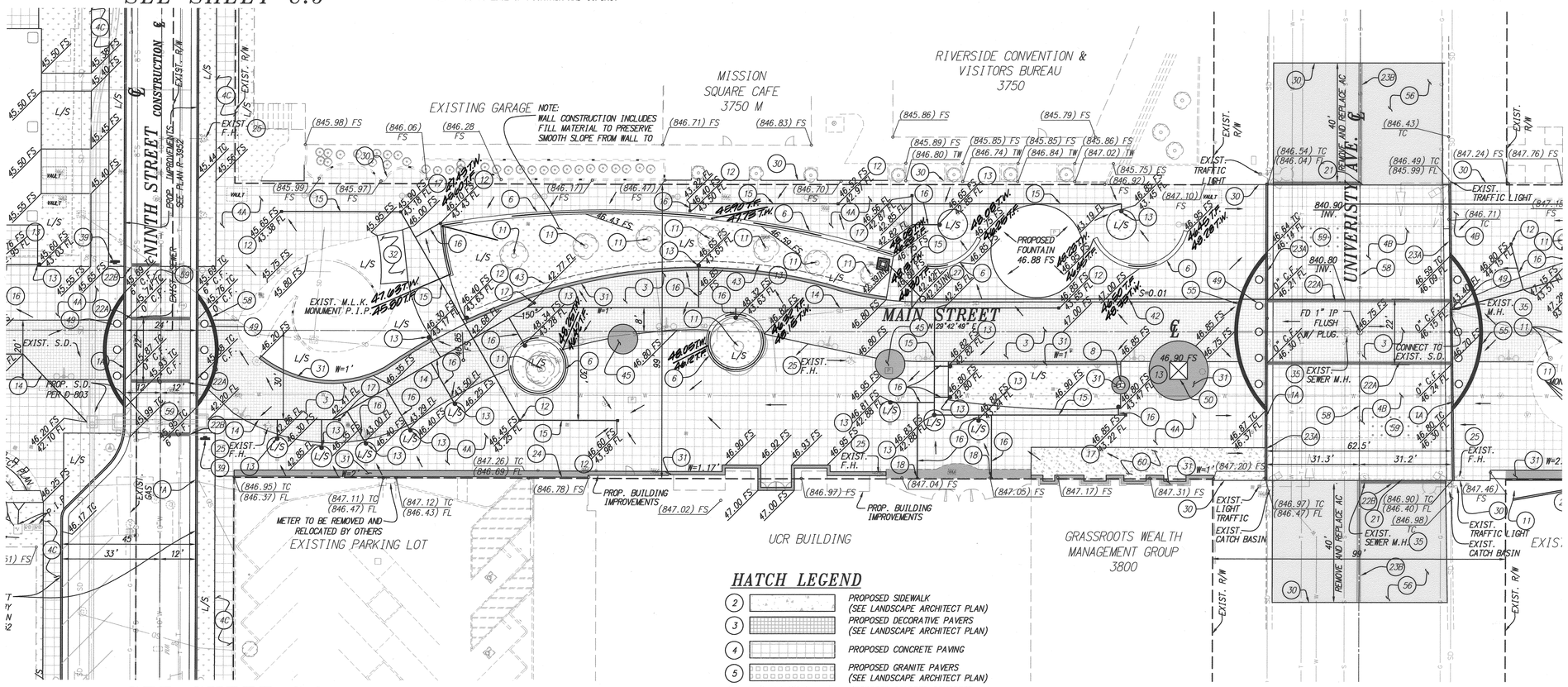
59 PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.

60 CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.

61 INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

SEE SHEET C.3

SEE SHEET C.9



HATCH LEGEND

- 2 PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
- 3 PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 4 PROPOSED CONCRETE PAVING
- 5 PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 31 PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
- L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
- 51 56 PROPOSED PAVING

EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

SEE SHEET C.5

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

0 20 40 60 80

SCALE: 1"=20'

PW 07-0379 PW 07-0217

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-422-4133
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008

IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	REV. S.D. ALIGNMENT	APD	4/14/08
1	3/20/2008 – PHASE 1	APD	3/26/08
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	MC	3/26/08

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET
9TH STREET TO UNIVERSITY AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO. M-457 C.4A
SHEET 5 OF 100
JN: 223.002

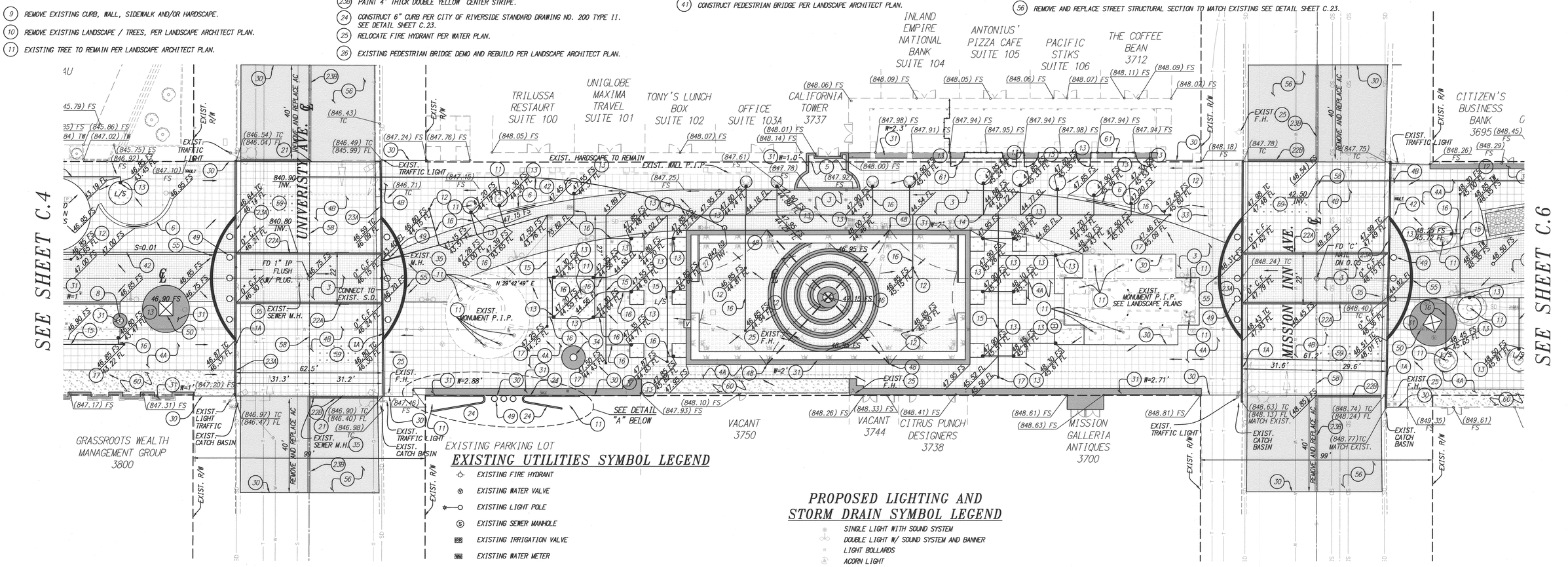
Drawing: S:\223.002\PLANS\Grading_P\223002-C4A.dwg Plotted By: JPYM Layout: 24x36 H Last Saved: Tue Mar 25, 2008 - 3:19pm Last Plotted: Tue Mar 25, 2008 - 11:06am

CONSTRUCTION NOTES

1A CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1B CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1C CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
1D CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
2 CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
3 INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4A CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4B CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
4C CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
5 INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
6 CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
7 CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
8 CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
9 REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
10 REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.
11 EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.
12 INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.
13 INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.
14 INSTALL 18" SDR 35 DRAIN LINE.
15 INSTALL 12" SDR 35 DRAIN LINE.
16 INSTALL 6" SDR 35 DRAIN LINE.
17 INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.
18 CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16
19 INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.
20 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4', V=3.5' MATCH EXISTING OUTLET PIPE.
21 REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.
22A PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.
22B PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.
23A PAINT CURB RED PER CITY STANDARDS.
23B PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.
24 CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.
25 RELOCATE FIRE HYDRANT PER WATER PLAN.
26 EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
27 INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
28 EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
29 EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.
30 SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.
31 CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.
32 CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.
33 EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.
34 CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
35 ADJUST MANHOLE TO GRADE.
36 CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
37 CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
38 INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.
39 INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
40 INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
41 CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
42 INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
43 CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.
44 EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
45 CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.
46 CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.
47 CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.
48 STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
49 INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
50 CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
51 REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT ____' AC OVER ____' BASE.
52 REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
53 COLD MILL EXISTING AC 0.1' DEEP.
54 OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
55 CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
56 REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.

HATCH LEGEND

2 PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
3 PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
4 PROPOSED CONCRETE PAVING
5 PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
31 PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
51 56 PROPOSED PAVING



EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

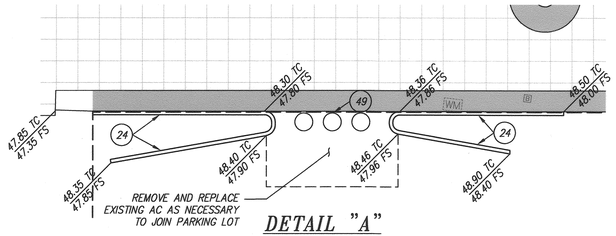
PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

CONSTRUCTION NOTES

57 CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
58 INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.
59 PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.
60 CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
61 INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.



DETAIL "A"
SCALE: 1"= 10'

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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PRIVATE ENGINEERING NOTE

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CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008

IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER — No. 60874 Exp.12/31/08 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 - PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	AFD	3/25/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FJ

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SC	3/26/08

APPROVED BY
CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET
UNIVERSITY AVENUE TO MISSION INN AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.5A
SHEET 6 OF 100
JN: 223.002

CONSTRUCTION NOTES

1A CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1B CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1C CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
1D CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
2 CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
3 INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4A CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4B CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
4C CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
5 INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
6 CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
7 CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
8 CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
9 REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
10 REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.
11 EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.
12 INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.
13 INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.
14 INSTALL 18" SDR 35 DRAIN LINE.
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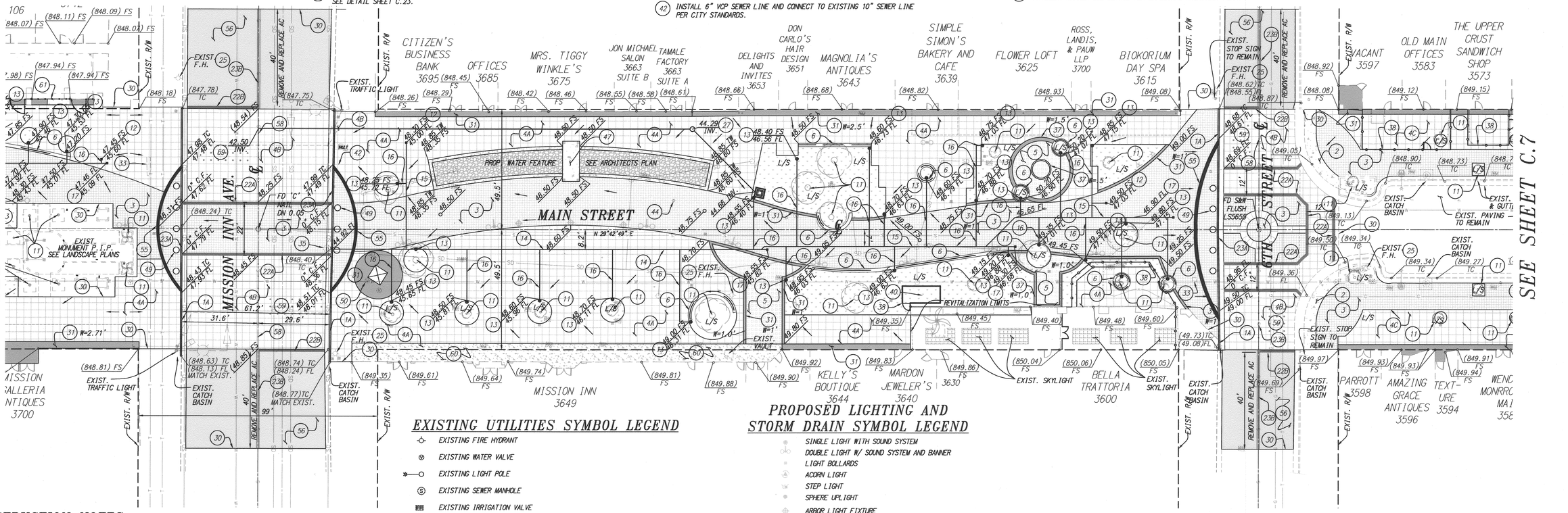
16 INSTALL 6" SDR 35 DRAIN LINE.
17 INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.
18 CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16
19 INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.
20 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4', V=3.5' MATCH EXISTING OUTLET PIPE.
21 REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.
22A PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.
22B PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.
23A PAINT CURB RED PER CITY STANDARDS.
23B PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.
24 CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.
25 RELOCATE FIRE HYDRANT PER WATER PLAN.
26 EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
27 INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
28 EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
29 EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.
30 SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.
31 CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.
32 CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.
33 EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.
34 CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
35 ADJUST MANHOLE TO GRADE.
36 CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
37 CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
38 INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.
39 INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
40 INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
41 CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
42 INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
43 CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.
44 EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
45 CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.
46 CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.
47 CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.
48 STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
49 INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
50 CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
51 REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.
52 REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
53 COLD MILL EXISTING AC 0.1' DEEP.
54 OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
55 CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
56 REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.
57 CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
58 INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.
59 PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.



EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

HATCH LEGEND

2 PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
3 PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
4 PROPOSED CONCRETE PAVING
5 PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
31 PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
51 56 PROPOSED PAVING

CONSTRUCTION NOTES

60 CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
61 INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 1-800-422-4133 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008
IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1	AWD	3/25/08
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER
DATE 3/27/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET
MISSION INN AVENUE TO 6TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

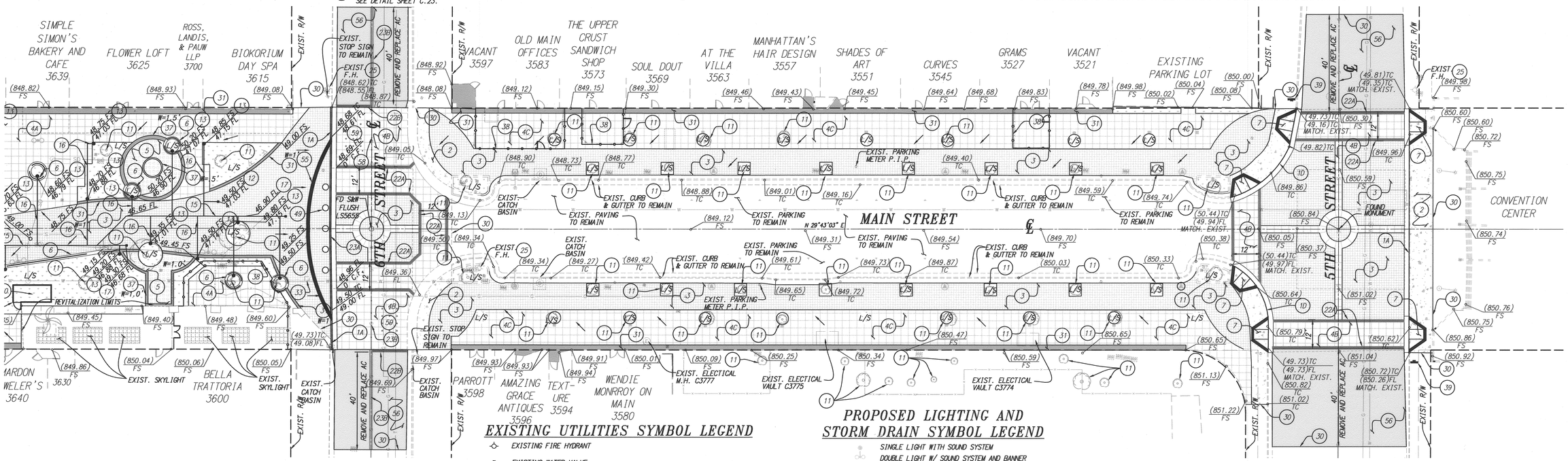
ACCOUNT NO.
M-457
C.6A
SHEET 7 OF 100
JN: 223.002

PW 07-0379 PW 07-0217

Drawing: C:\223.002\Final Grading_P\223002-GRDP08.dwg Last Saved: Tue Mar 25, 2008 - 11:15am Last Plotted: Tue Mar 25, 2008 - 2:43pm Plotted By: jcyan Layout: 24x36 L

CONSTRUCTION NOTES

(1A) CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
(1B) CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
(1C) CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
(1D) CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
(2) CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
(3) INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
(4A) CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
(4B) CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
(4C) CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
(5) INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
(6) CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
(7) CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
(8) CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
(9) REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
(10) REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.
(11) EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.
(12) INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23
(13) INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.
(14) INSTALL 18" SDR 35 DRAIN LINE.
(15) INSTALL 12" SDR 35 DRAIN LINE.
(16) INSTALL 6" SDR 35 DRAIN LINE.
(17) INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.
(18) CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16
(19) INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.
(20) CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4', V=3.5' MATCH EXISTING OUTLET PIPE.
(21) REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.
(22A) PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.
(22B) PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.
(23A) PAINT CURB RED PER CITY STANDARDS.
(23B) PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.
(24) CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.
(25) RELOCATE FIRE HYDRANT PER WATER PLAN.
(26) EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
(27) INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
(28) EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
(29) EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.
(30) SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.
(31) CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.
(32) CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.
(33) EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.
(34) CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
(35) ADJUST MANHOLE TO GRADE.
(36) CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
(37) CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
(38) INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.
(39) INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
(40) INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
(41) CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
(42) INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
(43) CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.
(44) EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
(45) CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.
(46) CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.
(47) CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.
(48) STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
(49) INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
(50) CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
(51) REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.
(52) REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
(53) COLD MILL EXISTING AC 0.1' DEEP.
(54) OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
(55) CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
(56) REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.
(57) CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
(58) INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.



CONSTRUCTION NOTES

(59) PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.
(60) CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
(61) INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

HATCH LEGEND

(2) PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
(3) PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
(4) PROPOSED CONCRETE PAVING
(5) PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
(31) PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
(51) (56) PROPOSED PAVING

SCALE: 1"=20'

DIGALERT — DIAL BEFORE YOU DIG — TOLL FREE 1-800-422-4133 — TWO WORKING DAYS BEFORE YOU DIG — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008
IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER — FREDDY IRIANTO — No. 60874 Exp.12/31/08 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	MPD	3/25/08
1	3/20/2008 - PHASE 1		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET
6TH STREET TO 5TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.7A
SHEET 8 OF 100
JN: 223.002

PW 07-0379 PW 07-0217

Plotted By: JPOPE Layout: FIG7_1 Last Saved: Tue Mar 25, 2008 - 11:15am Last Plotted: Tue Mar 25, 2008 - 11:28am
Drawing: S:\2007\07pw\Grading_223.002\Gr-C7.dwg

CONSTRUCTION NOTES

1A CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1B CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1C CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
10 CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
2 CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
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4B CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
4C CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
5 INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
6 CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
7 CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
8 CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
9 REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
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27 INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
28 EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
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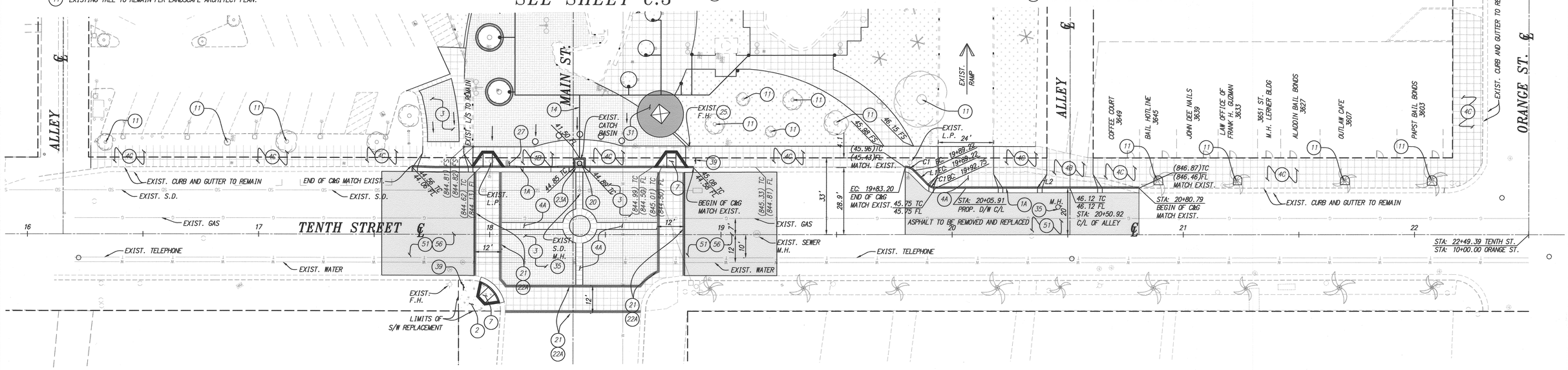
34 CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
35 ADJUST MANHOLE TO GRADE.
36 CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
37 CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
38 INSTALL METAL FENCE AND GATE PER LANDSCAPE ARCHITECT PLAN.
39 INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
40 INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
41 CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
42 INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
43 CONSTRUCT BIO DRAIN PER LANDSCAPE ARCHITECT PLAN.
44 EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
45 CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.
46 CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.
47 CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.
48 STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
49 INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
50 CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
51 REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.
52 REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
53 COLD MILL EXISTING AC 0.1' DEEP.
54 OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
55 CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
56 REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.
57 CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
58 INSTALL PAVEMENT MARKERS TYPE - D 2 WAY YELLOW RETROREFLECTIVE MARKERS WITH RAPID SET EPOXY ADHESIVE PER SECTION 85: PAVEMENT MARKERS OF CALTRANS STANDARD SPECIFICATIONS.
59 PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.
60 CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
61 INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

SEE SHEET C.3



EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

HATCH LEGEND

- 2 PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
- 3 PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 4 PROPOSED CONCRETE PAVING
- 5 PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 31 PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
- L/S PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
- 51 56 PROPOSED PAVING

CURVE DATA

NO	DELTA	RADIUS	LENGTH	TANGENT
C1	44°57'34"	5.00'	3.92'	2.07'

LINE DATA

NO	BEARING	LENGTH
L1	N 15°17'11" W	8.50'
L2	N 60°14'45" W	88.03'

NORTH

0 20 40 60 80
SCALE: 1"=20'

PW 07-0379 PW 07-0217

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TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG
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PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	REV: S.D. ALIGNMENT	MFD	4/24/08
1	3/20/2008 - PHASE 1	MFD	3/25/08
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	MFD	9/19/07

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FT

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	JC	3/26/08

APPROVED BY
CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET 10TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.8A
SHEET 9 OF 100
JN: 223.002

Drawing: G:\223.002\Grd\Grdsht_223002-GSH-08.dwg Printed By: jcyan Layout: 24x36 L Last Saved: Tue Mar 25, 2008 - 9:30am Last Plotted: Tue Mar 25, 2008 - 11:16am

CONSTRUCTION NOTES

1A CONSTRUCT 6" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1B CONSTRUCT 8" CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE I.
1C CONSTRUCT 6" ROLLED CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE C2.
1D CONSTRUCT 6" CURB AND GUTTER WITH EXPOSED AGGREGATE FINISH TO MATCH EXISTING.
2 CONSTRUCT 4" THICK PCC SIDEWALK/HARDSCAPE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325. MODIFIED WITH STEEL.
3 INSTALL DECORATIVE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4A CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 6" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
4B CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 10" THICK FOR VEHICLE AREA PER CITY OF RIVERSIDE STANDARDS.
4C CONSTRUCT CONCRETE PAVING (3' X 3' GRID PATTERN) 4" THICK FOR PEDESTRIAN AREA PER CITY OF RIVERSIDE STANDARDS. SEE DETAIL ON LANDSCAPE ARCHITECTS PLAN.
5 INSTALL GRANITE PAVERS PER DETAIL ON LANDSCAPE ARCHITECTS PLAN.
6 CONSTRUCT DECORATIVE WALL / SEAT WALL PER SEPARATE PERMIT AND PER LANDSCAPE ARCHITECT PLAN.
7 CONSTRUCT WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304, TYPE I. SEE DETAIL SHEET C.23; COLOR TO MATCH ADJACENT SIDEWALK.
8 CONSTRUCT DRINKING FOUNTAIN PER LANDSCAPE ARCHITECT PLANS.
9 REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
10 REMOVE EXISTING LANDSCAPE / TREES, PER LANDSCAPE ARCHITECT PLAN.
11 EXISTING TREE TO REMAIN PER LANDSCAPE ARCHITECT PLAN.
12 INSTALL BROOKS 8"X8" FLUSH MOUNTED INLET GRATE IN WALK AREA. SEE DETAIL SHEET C.23.
13 INSTALL 6" ATRIUM GRATED INLET. SEE DETAIL SHEET C.23.
14 INSTALL 18" SDR 35 DRAIN LINE.
15 INSTALL 12" SDR 35 DRAIN LINE.
16 INSTALL 6" SDR 35 DRAIN LINE.
17 INSTALL 8" STORM DRAIN CLEAN OUT WITH FLUSH MOUNTED COVER PER CITY STANDARDS.
18 CONNECTION TO EXISTING ROOF DRAIN PER CITY STANDARDS. (PIPE INCLUDED WITH CONSTRUCTION ITEM NO. 16
19 INSTALL END CAP FOR 6" DRAIN LINE FOR INTERACTIVE FOUNTAIN PER LANDSCAPE ARCHITECT PLAN.
20 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DRAWING NO. 405 W=4' , V=3.5' MATCH EXISTING OUTLET PIPE.
21 REMOVE INTERFERING PORTIONS OF EXISTING STRIPING.
22A PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR CROSSWALK.
22B PAINT 12" THICK WHITE STRIPING PER CITY STANDARDS FOR STOP BARS.
23A PAINT CURB RED PER CITY STANDARDS.
23B PAINT 4" THICK DOUBLE YELLOW CENTER STRIPE.
24 CONSTRUCT 6" CURB PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200 TYPE II. SEE DETAIL SHEET C.23.
25 RELOCATE FIRE HYDRANT PER WATER PLAN.
26 EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
27 INSTALL SEWER CLEAN OUT PER CITY OF RIVERSIDE STANDARDS.
28 EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.
29 EXISTING FOUNTAIN WALL TO REMAIN AND TO BE PROTECTED IN PLACE.
30 SAW CUT AND JOIN TO EXISTING CONCRETE / PAVING PER CITY OF RIVERSIDE STANDARDS.
31 CONSTRUCT COLORED CONCRETE BAND PER LANDSCAPE ARCHITECT PLAN, WIDTH PER PLAN.
32 CONCRETE PAVERS AT M.L.K. STATUE TO BE REMOVED AND RESET AT NEW GRADE. CONTRACTOR NUMBER AND PHOTO DOCUMENT ALL STONES AND RESTORE EXACTLY AS BEFORE.
33 EXISTING MAIL BOX TO BE REMOVED AND RELOCATED BY OTHERS.
34 CLOCK FEATURE, TO BE REPAIRED AND RELOCATED PER LANDSCAPE ARCHITECT PLAN.
35 ADJUST MANHOLE TO GRADE.
36 CONNECT EXISTING STORM DRAIN LINE FROM STATUE TO PROPOSED STORM DRAIN SYSTEM.
37 CONSTRUCT CONCRETE BAND, PER LANDSCAPE ARCHITECT PLAN. WIDTH AS NOTED.
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39 INSTALL STOP SIGN PER LANDSCAPE ARCHITECT PLAN.
40 INSTALL TRANSFORMER / GENERATOR WITH SCREENING PER LANDSCAPE ARCHITECT AND ELECTRICAL PLAN.
41 CONSTRUCT PEDESTRIAN BRIDGE PER LANDSCAPE ARCHITECT PLAN.
42 INSTALL 6" VCP SEWER LINE AND CONNECT TO EXISTING 10" SEWER LINE PER CITY STANDARDS.
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44 EXISTING STATUE TO BE RELOCATED PER LANDSCAPE ARCHITECT PLAN.
45 CONSTRUCT PODIUM PER LANDSCAPE ARCHITECT PLAN.
46 CONSTRUCT ART MURAL AND ICE-SKATING RINK PER LANDSCAPE ARCHITECT PLAN.
47 CONSTRUCT WATER FEATURE PER LANDSCAPE ARCHITECT PLAN.
48 STEEL POLE LOCATION FOR SHADE STRUCTURE SEE LANDSCAPE ARCHITECT PLAN
49 INSTALL CONCRETE SPHERE PER LANDSCAPE ARCHITECT PLAN.
50 CONSTRUCT KIOSK PER LANDSCAPE ARCHITECT PLAN.
51 REMOVE EXISTING STRUCTURAL SECTION AND CONSTRUCT _____' AC OVER _____' BASE.
52 REMOVE AND RELOCATE EXISTING LIGHT POLE PER ELECTRICAL PLAN.
53 COLD MILL EXISTING AC 0.1' DEEP.
54 OVERLAY EXISTING PAVEMENT WITH A 1" MINIMUM THICK DG AC.
55 CONSTRUCT WHEEL CHAIR RAMP SCORING BAND, W=1', COLORED OR TRUNCATED DOMES AS REQUIRED.
56 REMOVE AND REPLACE STREET STRUCTURAL SECTION TO MATCH EXISTING SEE DETAIL SHEET C.23.
57 CONSTRUCT CURB TRANSITION FROM TYPE I CURB AND GUTTER TO TYPE C ROLLED CURB. SEE DETAIL SHEET C.23.
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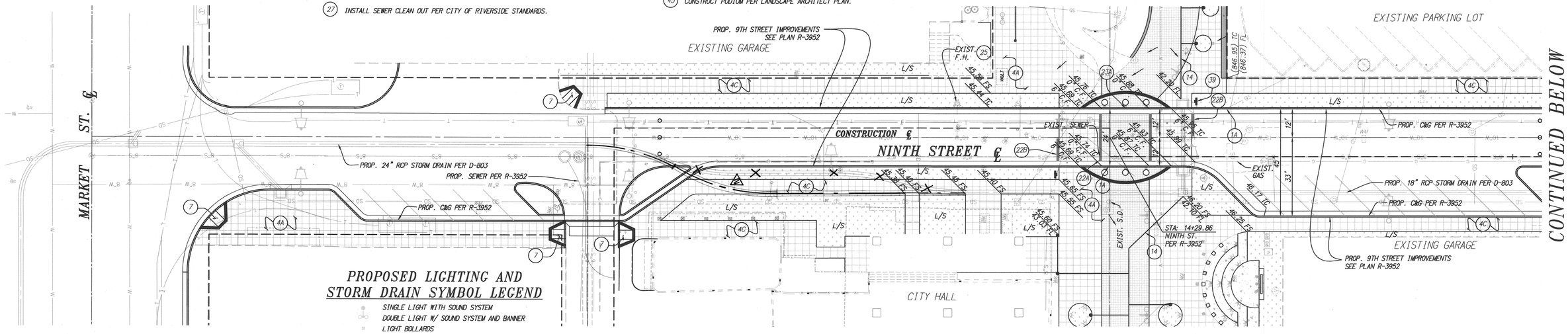
59 PAVEMENT MARKER SEE DETAIL PER LANDSCAPE ARCHITECT PLAN.
60 CONSTRUCT CONCRETE FOR BASEMENT CONDITION PER LANDSCAPE ARCHITECT PLAN.
61 INSTALL FENCING PER LANDSCAPE ARCHITECT PLAN.

SEE SHEET C.4



PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND

- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
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EXISTING UTILITIES SYMBOL LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
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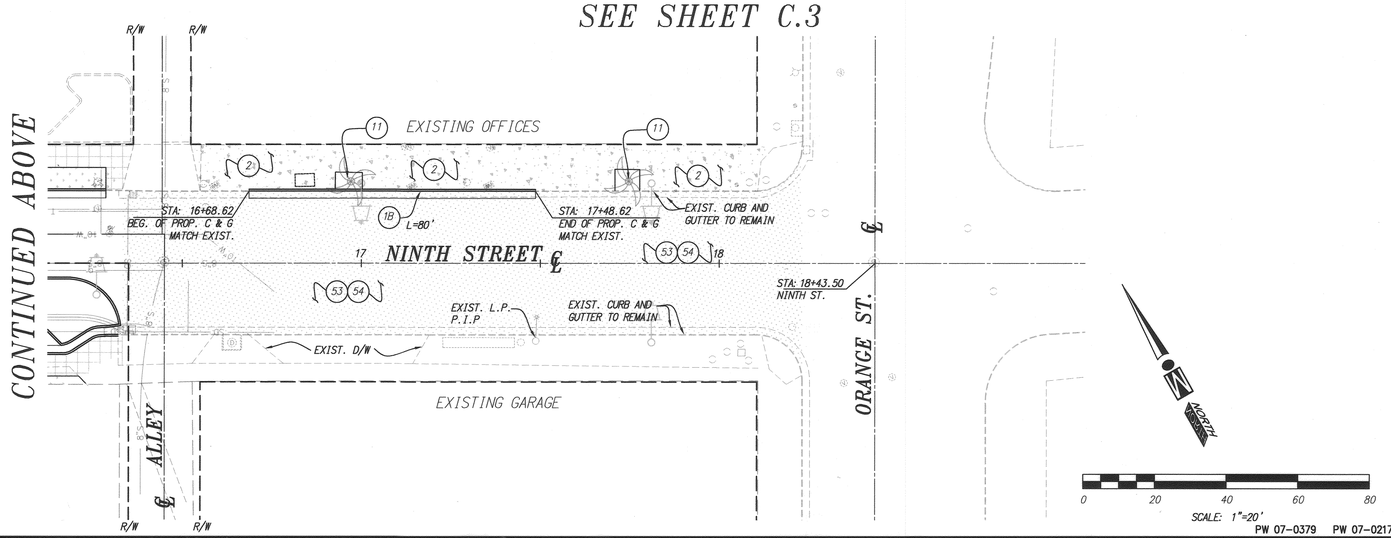
HATCH LEGEND

- 2 — PROPOSED SIDEWALK (SEE LANDSCAPE ARCHITECT PLAN)
- 3 — PROPOSED DECORATIVE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 4 — PROPOSED CONCRETE PAVING
- 5 — PROPOSED GRANITE PAVERS (SEE LANDSCAPE ARCHITECT PLAN)
- 31 — PROPOSED COLORED CONCRETE (SEE LANDSCAPE ARCHITECT PLAN)
- L/S — PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)
- 51 56 — PROPOSED PAVING
- 53 54 — PROPOSED COLD MILL AND 1' MIN. THICK DG AC.

SEE SHEET C.3



PW 07-0379 PW 07-0217

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IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue Riverside, CA 92501
Tel: 951.687.2929 Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/26/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	REV. S.D. ALIGNMENT PER PLAN D-803	MD	3/26/08
1	3/20/2008 - PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	MD	3/26/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SF	3/26/08

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
GRADING SHEET 9TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

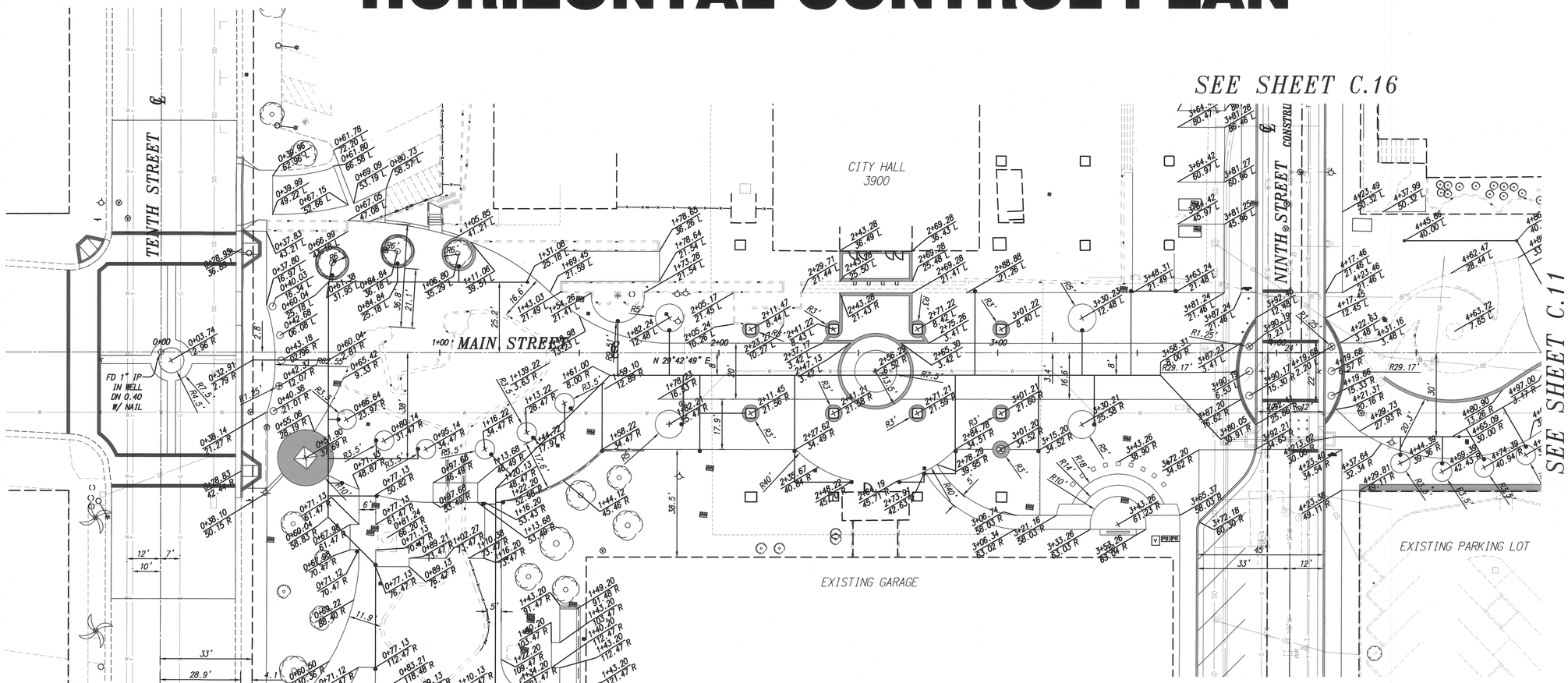
ACCOUNT NO.
M-457
C.9A
SHEET 10 OF 100
JN: 223.002

Drawing: S:\223.002\Plans\Grading\M-457C9A.dwg Layout: PAGE-1 Last Saved: Tue Mar 25, 2008 - 11:42am Last Plotted: Tue Mar 25, 2008 - 11:42am Plotted By: pgpm

HORIZONTAL CONTROL PLAN

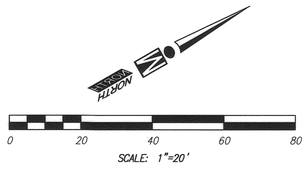
SEE SHEET C.15

SEE SHEET C.16



SEE SHEET C.15

SEE SHEET C.16



PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

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ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
2	50-REALIGNMENT-REV	AFO	4/10/08
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007		

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY
CITY ENGINEER
DATE 5/16/08

CITY OF RIVERSIDE
MAIN STREET
REVITALIZATION
HORIZONTAL CONTROL PLAN
10TH STREET TO 9TH STREET

ACCOUNT NO.
M-457
C.10A
SHEET 11 OF 100

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A
JN: 223.002

Drawing: S:\223.002\Final Design_PLANS\C-PUB-10.dwg Plotted By: jcpyn Layout: ANSI F Last Saved: Tue Mar 25, 2008 - 10:30am Last Plotted: Tue Mar 25, 2008 - 10:30am

SEE SHEET C.10

SEE SHEET C.12

NINTH STREET CONSTRUCTION

EXISTING GARAGE

MISSION SQUARE CAFE 3750 M

RIVERSIDE CONVENTION & VISITORS BUREAU 3750

MAIN STREET

UNIVERISTY AVE.

TRILUSS RESTAUR SUITE 1(

FD 1" IP FLUSH W/ PLUG ILLEG.

EXISTING PARKING LOT

UCR BUILDING

GRASSROOTS WEALTH MANAGEMENT GROUP 3800

EXISTING PARKING LO

NORTH

0 20 40 60 80

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.

ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	MD	3/20/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN.		

APPROVED BY
CITY ENGINEER
DATE 3/25/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN
9TH STREET TO UNIVERSITY AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

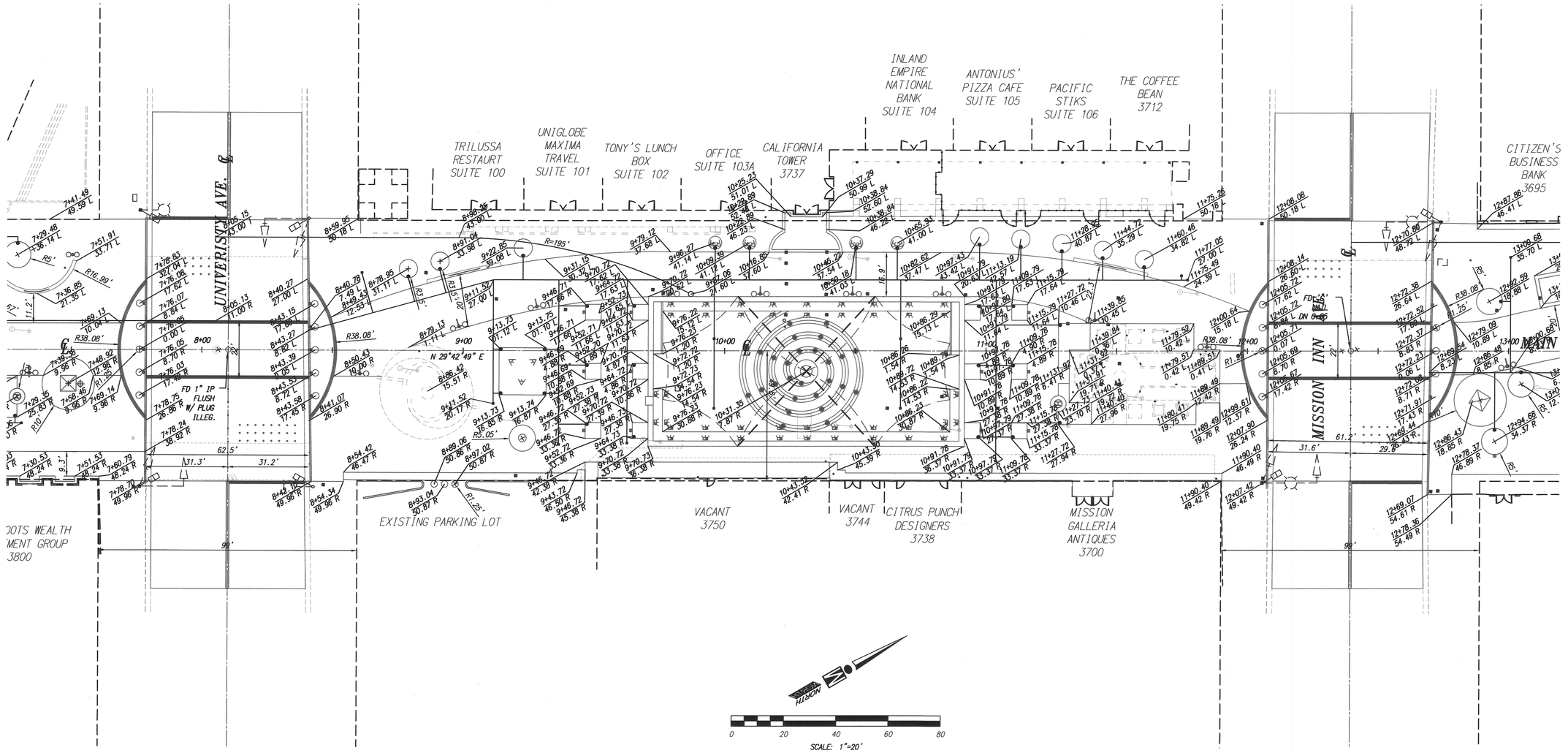
ACCOUNT NO.

M-457
C.11A

SHEET 12 OF 100

JN: 223.002

Drawing: C:\223.002\Final Grading_Plan\223.002-PW07-0217.dwg Plotted By: jyqin Layout: 24x36 L Last Saved: Tue Mar 25, 2008 - 10:53am Last Plotted: Tue Mar 25, 2008 - 10:53am



PW 07-0379 PW 07-0217

DIGALERT
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A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008

IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	APP. 332.00	

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/EI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN.		3/26/08

APPROVED BY
CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN
UNIVERSITY AVENUE TO MISSION INN AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.12A
SHEET 13 OF 100
JN: 223.002

Drawing: G:\223.002\Final\Grading_HC\223002_HC12.dwg Plotted By: jorgec Layout: 24x36 L Last Saved: Tue Mar 25, 2008 - 10:54am Last Plotted: Tue Mar 25, 2008 - 8:36am

SEE SHEET C.12

SEE SHEET C.14

THE COFFEE BEAN 3712

CITIZEN'S BUSINESS BANK 3695

OFFICES 3685

MRS. TIGGY WINKLE'S 3675

JON MICHAEL SALON 3663 SUITE B

TAMALE FACTORY 3663 SUITE A

DELIGHTS AND INVITES 3653

DON CARLO'S HAIR DESIGN 3651

MAGNOLIA'S ANTIQUES 3643

SIMPLE SIMON'S BAKERY AND CAFE 3639

FLOWER LOFT 3625

ROSS, LANDIS, & PAUW LLP 3700

BIOKORIUM DAY SPA 3615

VACANT 3597

OLD MAIN OFFICES 3583

THE U CRU SANDI SH 35

MISSION INN 3649

KELLY'S BOUTIQUE 3644

MARDON JEWELER'S 3640

VACANT 3630

BELLA TRATTORIA 3600

PARROTT 3598

AMAZING GRACE ANTIQUES 3596

TEXT- URE 3594

MISSION INN AVENUE

MAIN STREET

N 29°42'49" E

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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REGISTERED PROFESSIONAL ENGINEER — FREDDY IRIANTO — No. 60874 Exp.12/31/08 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

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ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1 THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	APO	3/25/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER

DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN
MISSION INN AVENUE TO 6TH STREET

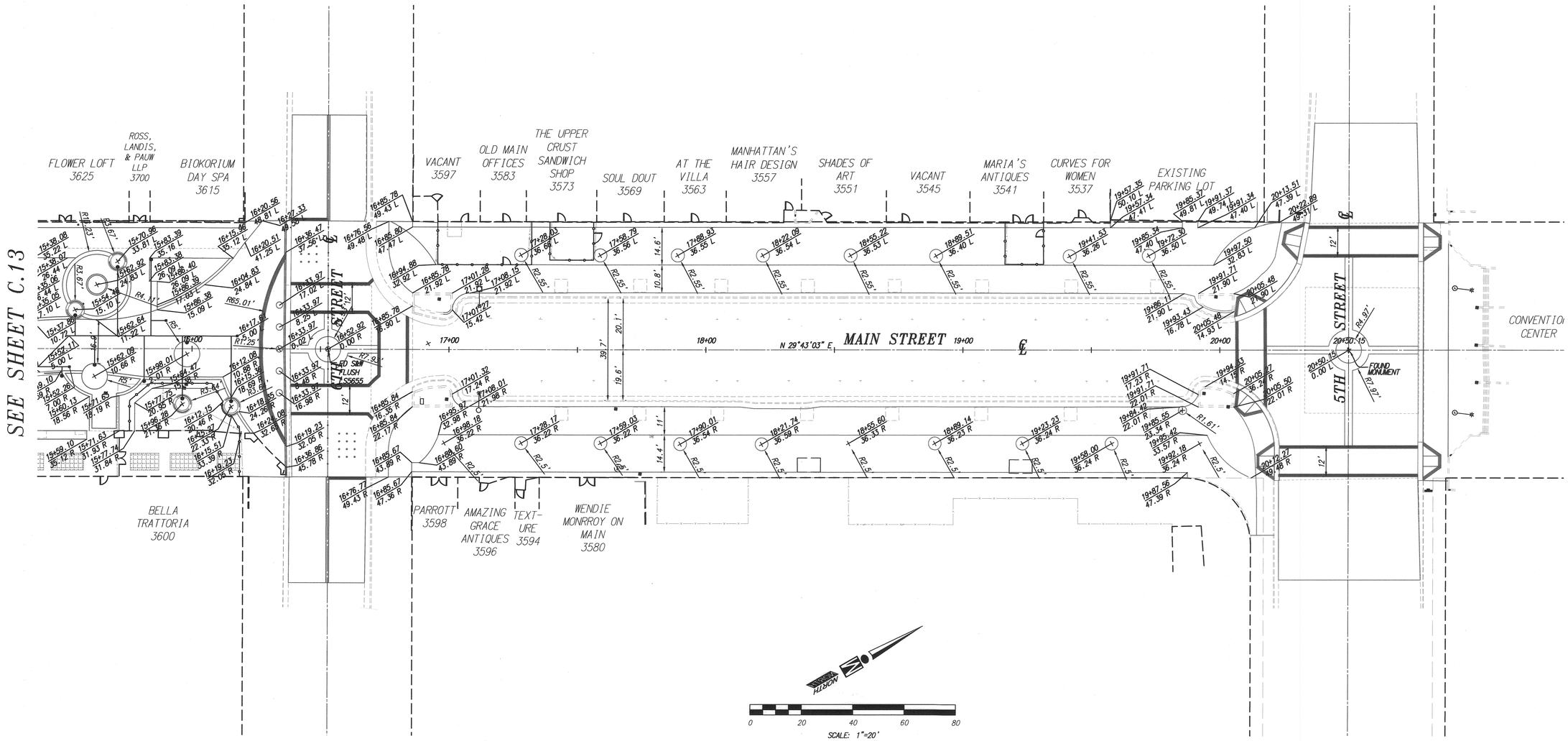
HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.

M-457
C.13A
SHEET 14 OF 100

JN: 223.002

Drawing: C:\223.002\Final Drawings_Plan\223.002-CP13.dwg Plotted By: jorge Layout: 24x36 1 Last Saved: Tue Mar 25, 2008 - 9:30am Last Plotted: Tue Mar 25, 2008 - 10:54am



PW 07-0379 PW 07-0217

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PRIVATE ENGINEERING NOTE

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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.

ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	APPD	3-25-08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SC	3/28/08

APPROVED BY
CITY ENGINEER
DATE 3/28/08

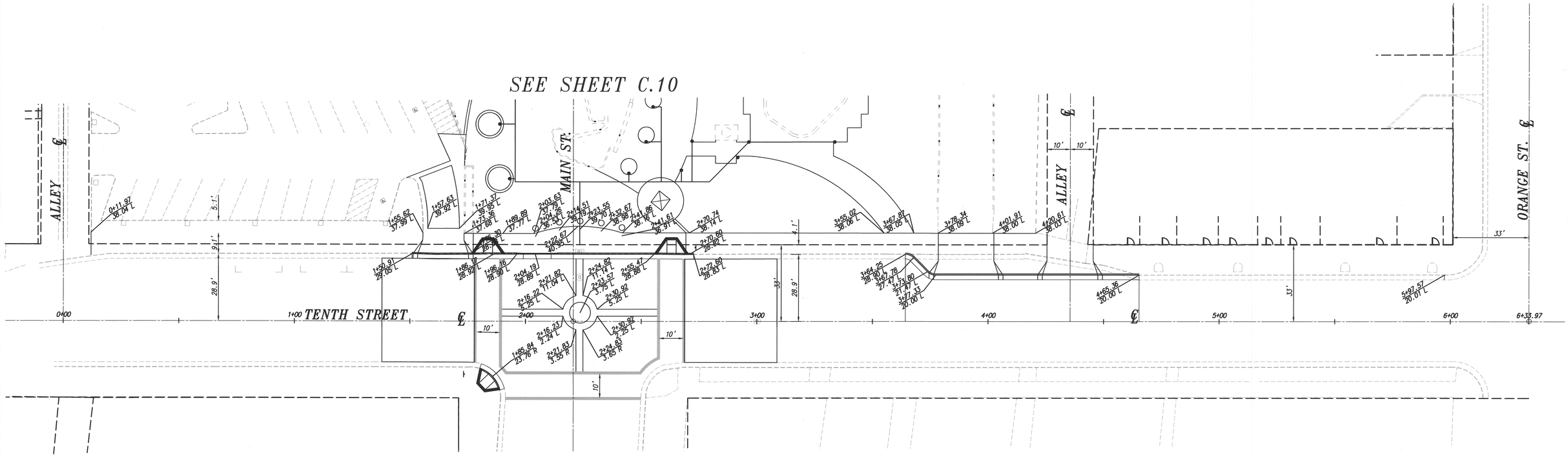
CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN
6TH STREET TO 5TH STREET

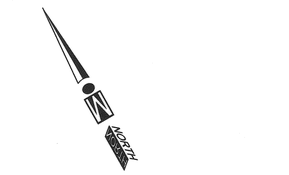
HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.14A
SHEET 15 OF 100
JN: 223.002

Drawing: K:\223.002\Final Drawings_223.002\C-457-14.dwg Plotted By: JOSH Layout: 24x36 1 Last Saved: Tue Mar 25, 2008 - 9:34am Last Plotted: Tue Mar 25, 2008 - 10:55am

SEE SHEET C.10





0 20 40 60 80

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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Riverside, CA 92501
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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

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ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
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DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER

DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN
10TH STREET

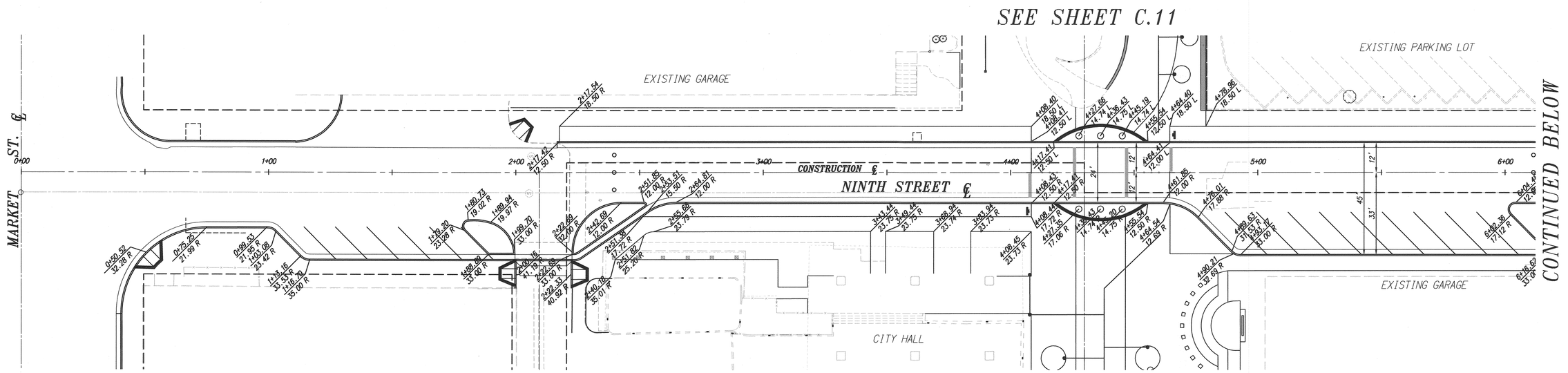
HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

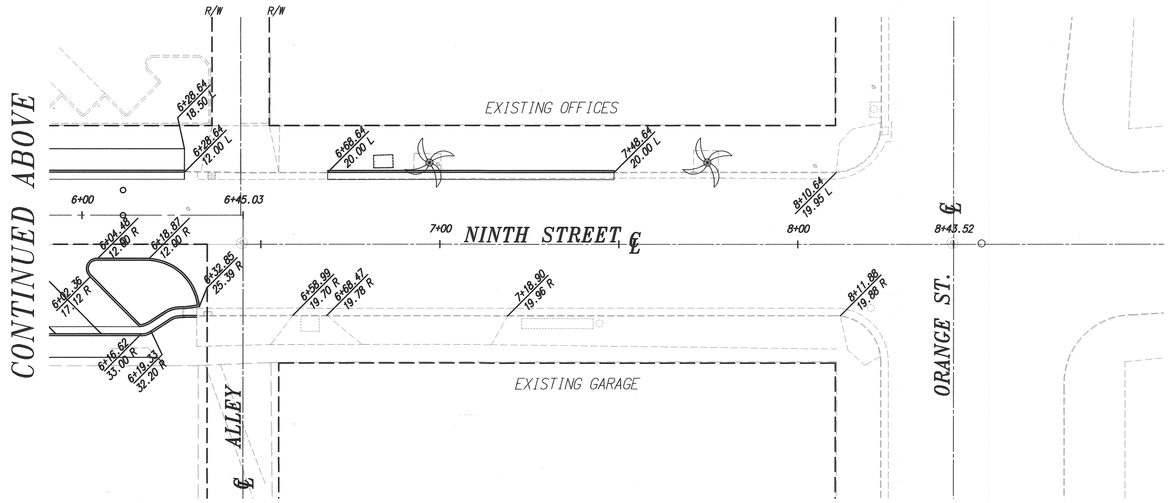
ACCOUNT NO.

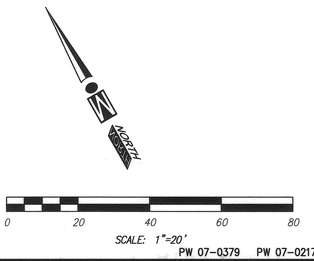
M-457
C.15A
SHEET 16 OF 100

JN: 223.002

Drawing: C:\223.002\Final Drawings_P_223.002-C15A-16.dwg Plotted By: jpipe Layout: 24x36 H Last Saved: Tue Mar 25, 2008 - 9:58am Last Plotted: Tue Mar 25, 2008 - 10:56am







PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

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ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	APD	3-25-08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SK	3/26/08

APPROVED BY _____ CITY ENGINEER
DATE 3/25/08

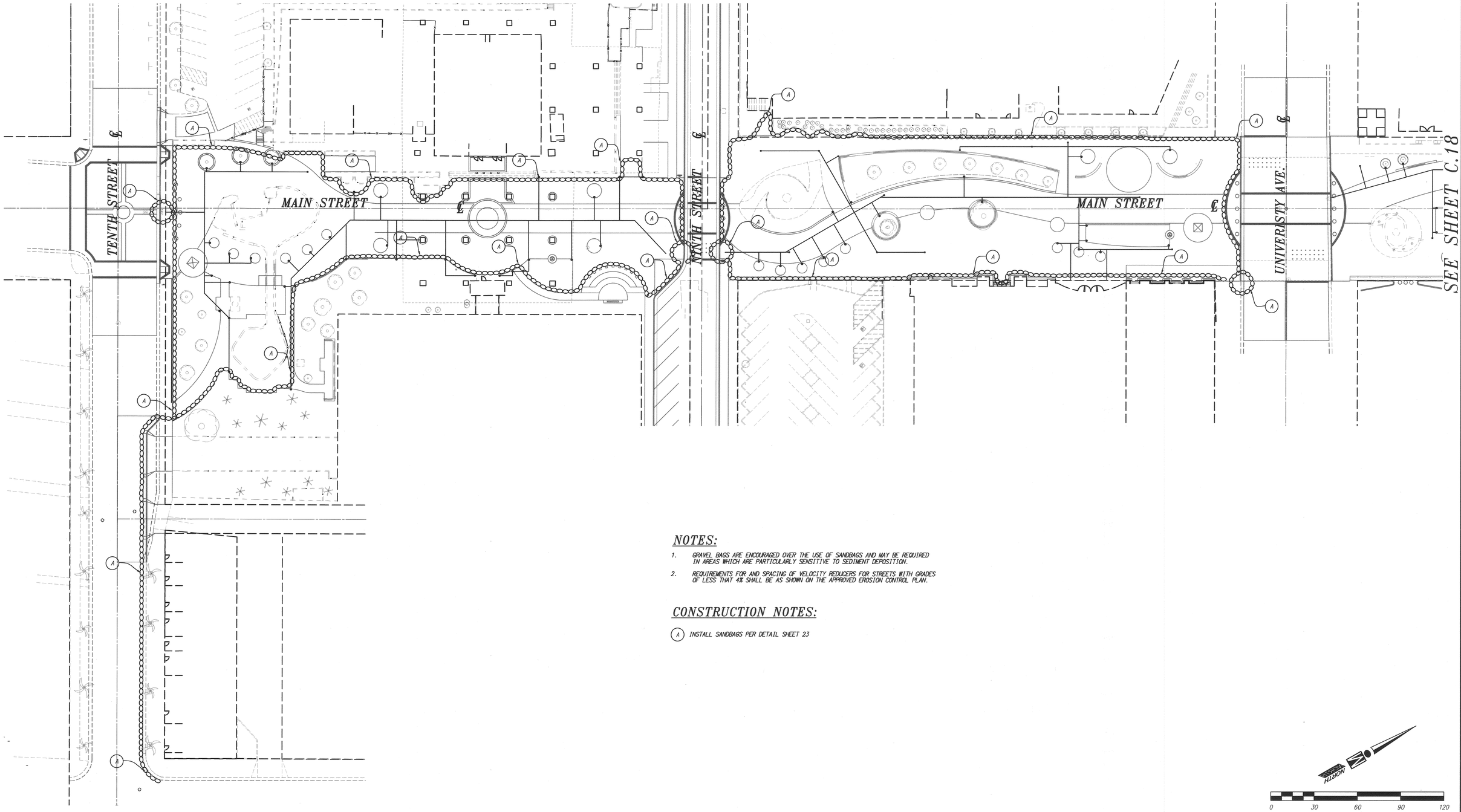
CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
HORIZONTAL CONTROL PLAN 9TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.16A
SHEET 17 OF 100
JN: 223.002

Drawing: C:\223.002\Final Engineering_P_223.002.dgn Layout: 24x36 (1) Last Saved: Tue Mar 25, 2008 - 8:36am Last Plotted: Tue Mar 25, 2008 - 10:56am Plotted By: jmpe

EROSION CONTROL PLAN



NOTES:

1. GRAVEL BAGS ARE ENCOURAGED OVER THE USE OF SANDBAGS AND MAY BE REQUIRED IN AREAS WHICH ARE PARTICULARLY SENSITIVE TO SEDIMENT DEPOSITION.
2. REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAT 4% SHALL BE AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.

CONSTRUCTION NOTES:

(A) INSTALL SANDBAGS PER DETAIL SHEET 23

SCALE: 1"=30'

PW 07-0379 PW 07-0217

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		3/26/08

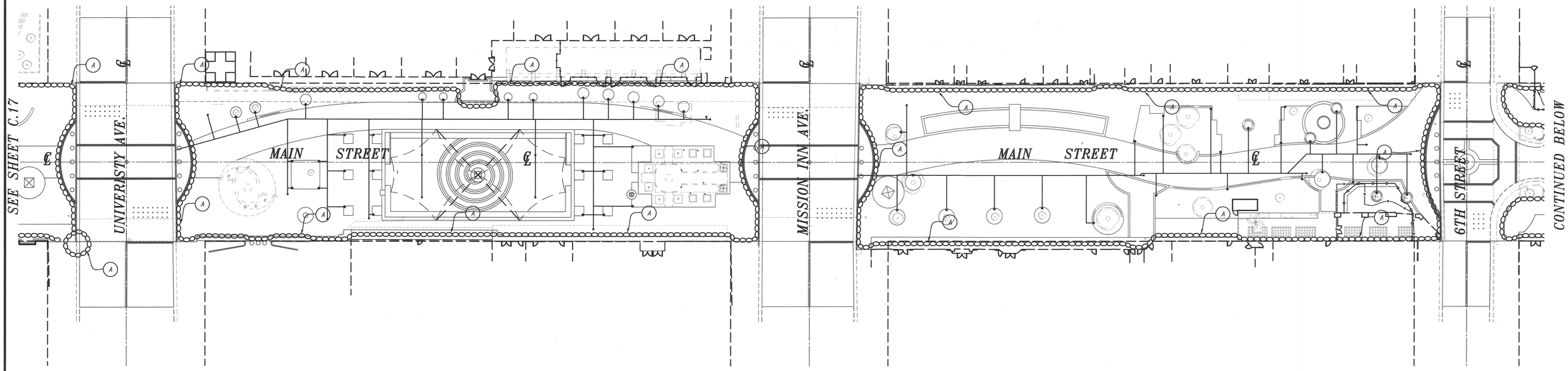
APPROVED BY
CITY ENGINEER
DATE 3/26/08

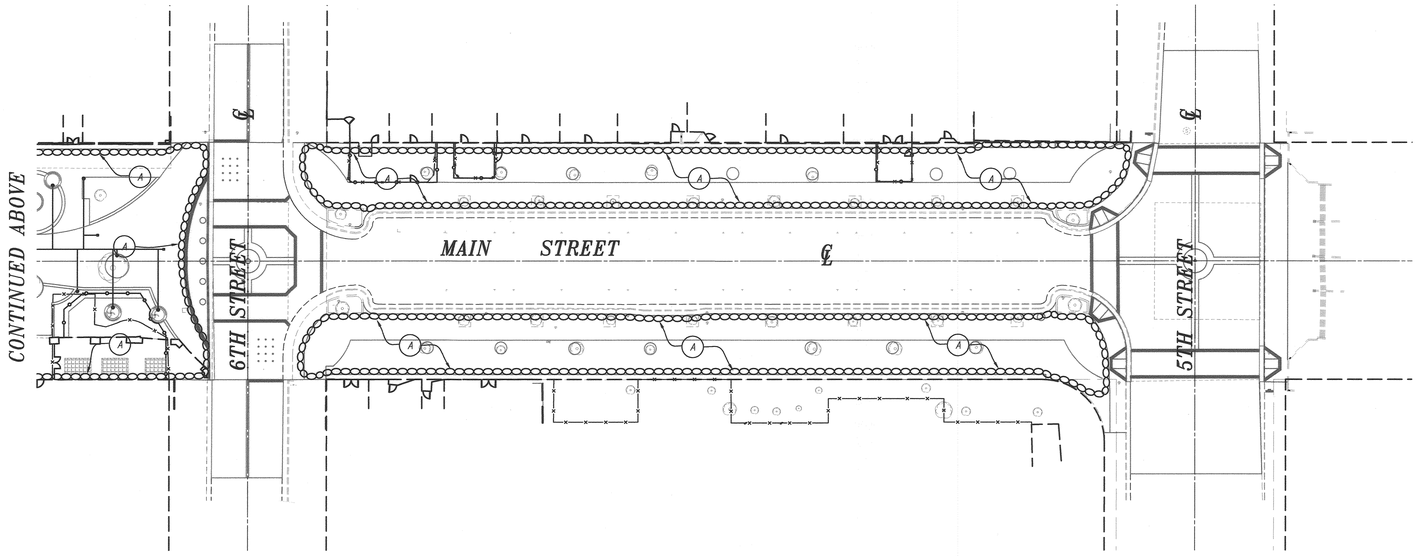
CITY OF RIVERSIDE
MAIN STREET
REVITALIZATION
EROSION CONTROL PLAN
10TH STREET TO UNIVERSITY AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.17A
SHEET 18 OF 100
JN: 223.002

Drawing: G:\223.002\Final Drawings\223002-C17.dwg Plotted By: jpope Layout: ANSI F Last Saved: Tue Mar 25, 2008 - 10:57am Last Plotted: Tue Mar 25, 2008 - 1:08pm





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2. REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAT 4% SHALL BE AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.

CONSTRUCTION NOTES:

(A) INSTALL SANDBAGS PER DETAIL SHEET 23

SCALE: 1"=30'

PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.

ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	AW	3-25-08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER

DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
EROSION CONTROL PLAN
UNIVERSITY AVENUE TO 5TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

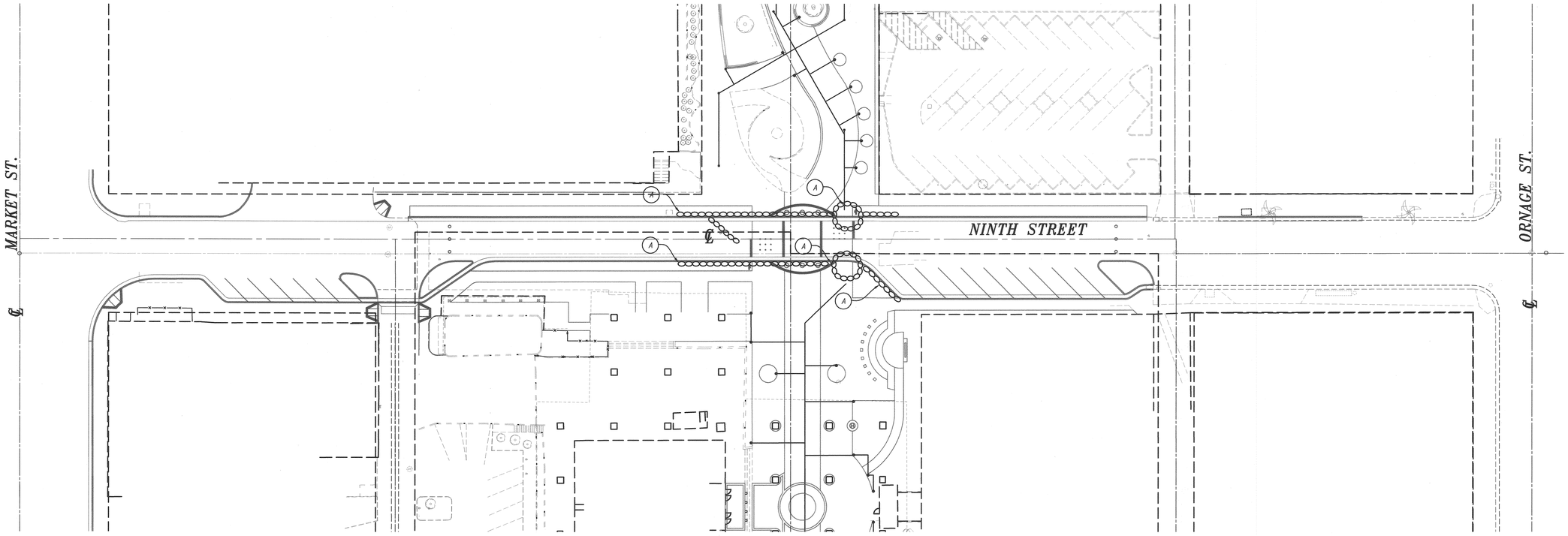
ACCOUNT NO.

M-457
C.18A
SHEET 19 OF 100

JN: 223.002

Plotted By: jorge Layout: 24x36-1 Last Saved: Wed Mar 26, 2008 - 8:26am Last Plotted: Tue Mar 25, 2008 - 11:18am
W:\Drawing\ 223.002\Plans\Sheets\J_223002_ESC-18.dwg

SEE SHEET C.17



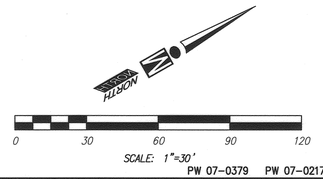
SEE SHEET C.17

NOTES:

1. GRAVEL BAGS ARE ENCOURAGED OVER THE USE OF SANDBAGS AND MAY BE REQUIRED IN AREAS WHICH ARE PARTICULARLY SENSITIVE TO SEDIMENT DEPOSITION.
2. REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAT 4% SHALL BE AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.

CONSTRUCTION NOTES:

(A) INSTALL SANDBAGS PER DETAIL SHEET 23



SCALE: 1"=30'

PW 07-0379 PW 07-0217

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TOLL FREE 1-800-422-4133
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PRIVATE ENGINEERING NOTE

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CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008

IW Consulting Engineers, Inc.
- Civil Engineering
- Surveying
- Land Planning

3544 University Avenue
Riverside, CA 92501
Tel: 951.687.2929
Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY IRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.

ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 - PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	AFO	3-25-08

DESIGNED BY: AW/DY DRAWN BY: JC/DY CHECKED BY: AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SG	3/26/08

APPROVED BY
CITY ENGINEER
DATE 3/26/08

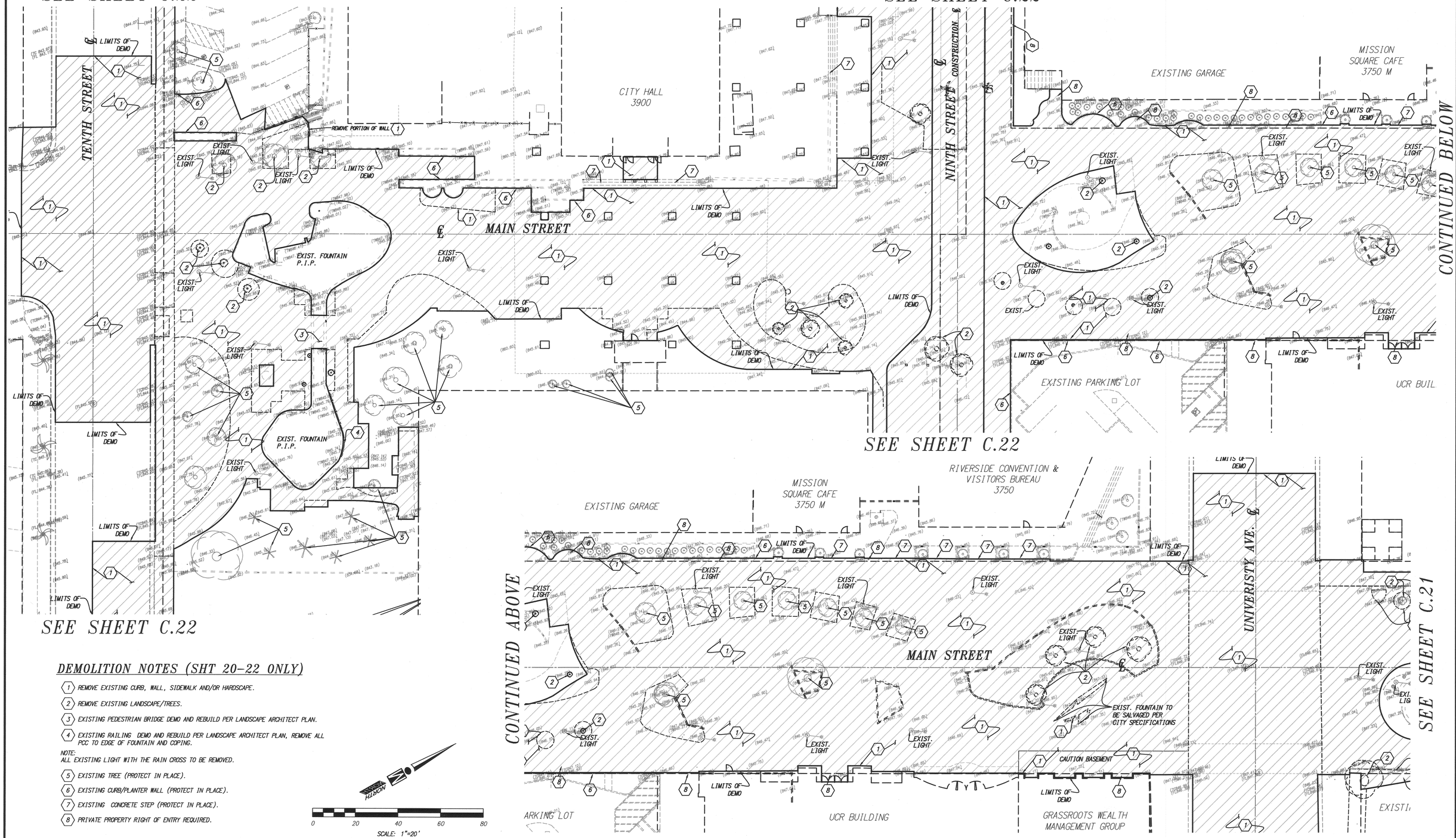
CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
EROSION CONTROL PLAN 9TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.19A
SHEET 20 OF 100
JN: 223.002

Drawing: I:\223.002\Design\Plan\223002-EC-Plan.dwg Plotted By: jclark Date: 3/26/2008 - 8:43am Last Saved By: jclark Date: 3/26/2008 - 8:43am

DEMOLITION PLAN



DEMOLITION NOTES (SHT 20-22 ONLY)

1. REMOVE EXISTING CURB, WALL, SIDEWALK AND/OR HARDSCAPE.
2. REMOVE EXISTING LANDSCAPE/TREES.
3. EXISTING PEDESTRIAN BRIDGE DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN.
4. EXISTING RAILING DEMO AND REBUILD PER LANDSCAPE ARCHITECT PLAN, REMOVE ALL PCC TO EDGE OF FOUNTAIN AND COPING.

NOTE:
ALL EXISTING LIGHT WITH THE RAIN CROSS TO BE REMOVED.

5. EXISTING TREE (PROTECT IN PLACE).
6. EXISTING CURB/PLANTER WALL (PROTECT IN PLACE).
7. EXISTING CONCRETE STEP (PROTECT IN PLACE).
8. PRIVATE PROPERTY RIGHT OF ENTRY REQUIRED.

0 20 40 60 80

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13

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ELEVATION: 840.914 DATE 1971

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1	3/20/2008 – PHASE 1 THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	AFI	3/25/08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

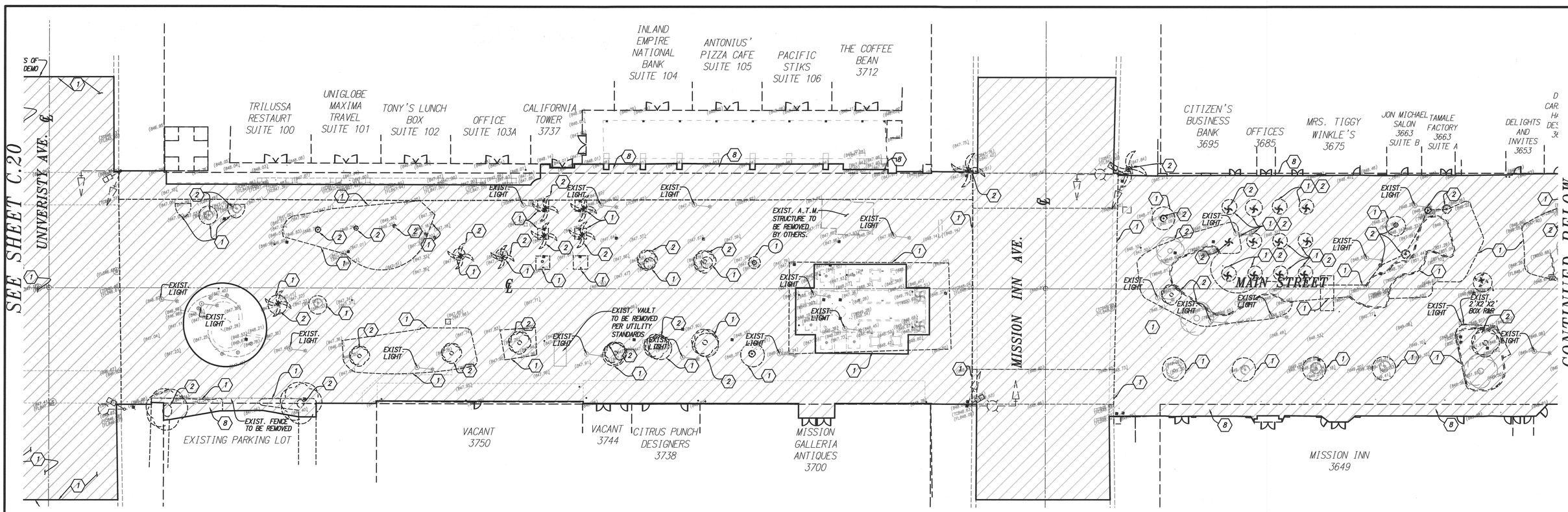
APPROVED BY
CITY ENGINEER
DATE 3/25/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
DEMOLITION PLAN
10TH STREET TO UNIVERSITY AVENUE

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.20A
SHEET 21 OF 100
JN: 223.002

Drawing: G:\223.002\Final Drawings_Pw\223002-PDEM-20.dwg Last Saved: Tue Mar 25, 2008 - 10:36am Last Plotted: Tue Mar 25, 2008 - 8:41am Plotted By: jcope Layout: ANSI_A1



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PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
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ELEVATION: 840.914 DATE 1971

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DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		3/26/08

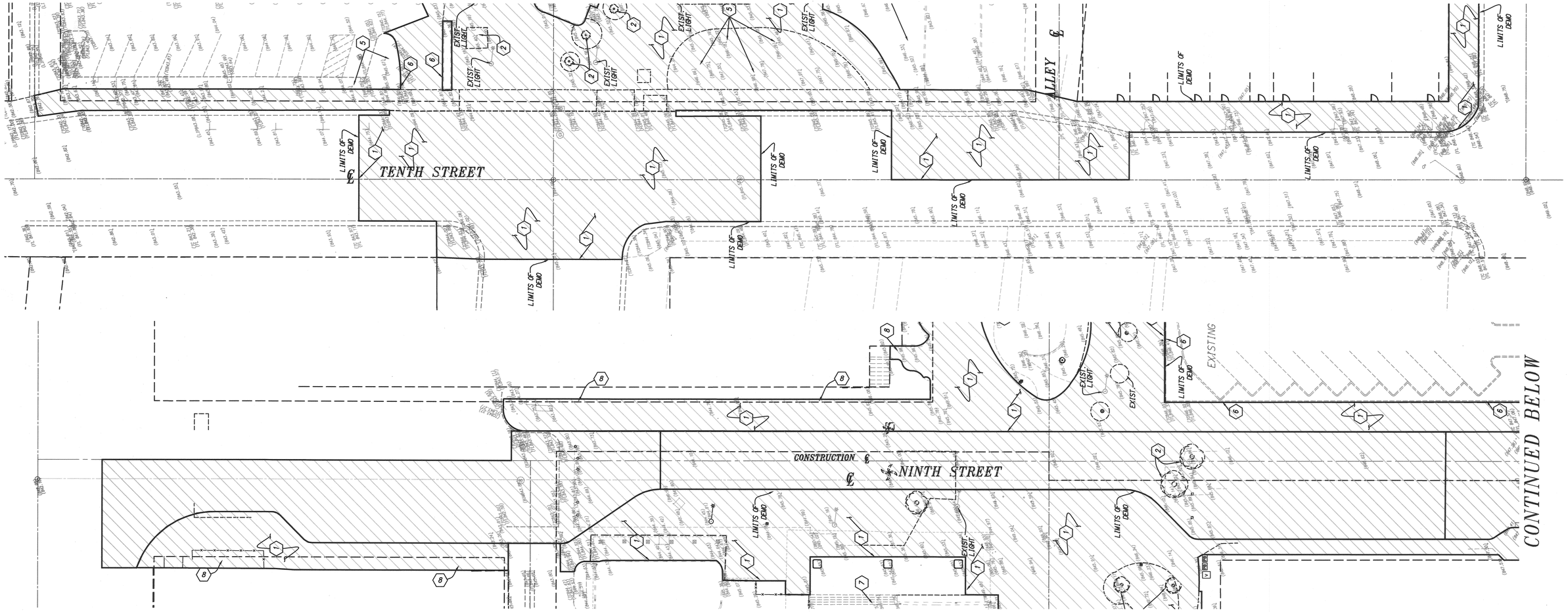
APPROVED BY
CITY ENGINEER
DATE 3/26/08

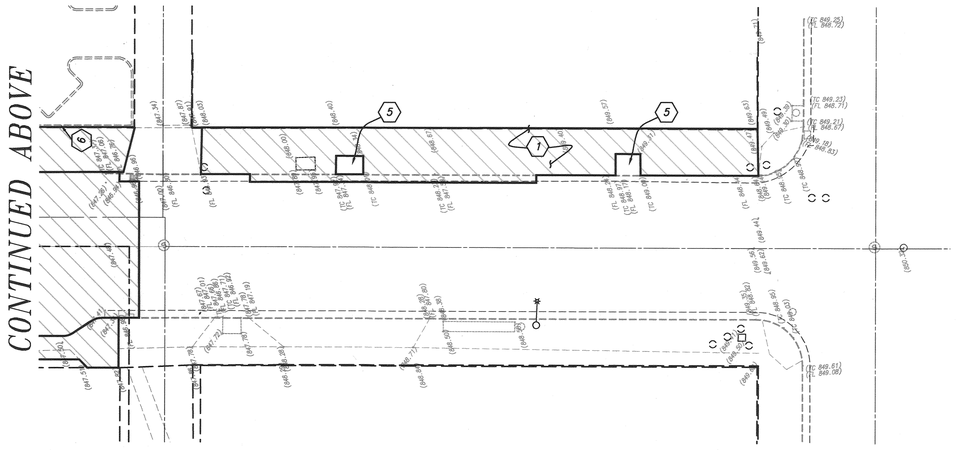
CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
DEMOLITION PLAN
UNIVERSITY AVENUE TO 5TH STREET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.21A
SHEET 22 OF 100
JN: 223.002

Drawing: © 223.002\final\drawing_223.002.dgn Last Saved: Tue Mar 25, 2008 - 11:00am Last Plotted: Tue Mar 25, 2008 - 9:42am Plotted By: pyper Layout: 24x36 L





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8. PRIVATE PROPERTY RIGHT OF ENTRY REQUIRED.

NORTH

0 20 40 60 80

SCALE: 1"=20'

PW 07-0379 PW 07-0217

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PLANS PREPARED UNDER SUPERVISION OF

Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

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ELEVATION: 840.914 DATE 1971

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1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	FFD	3-24-08

DESIGNED BY AW/DY DRAWN BY JC/DY CHECKED BY AW/FI

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN	SC	3/26/08

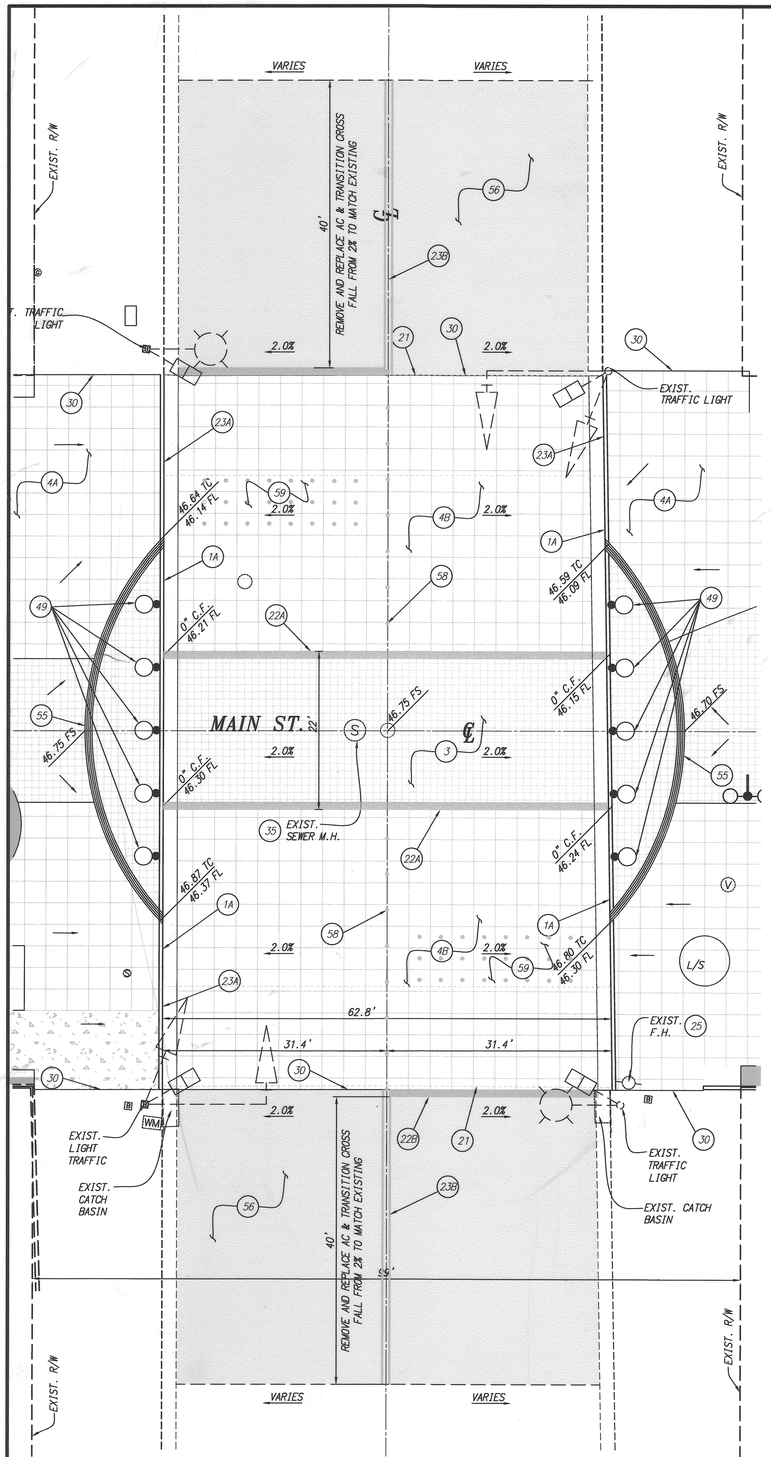
APPROVED BY
CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION
DEMOLITION PLAN
10TH STREET AND 9TH STREET

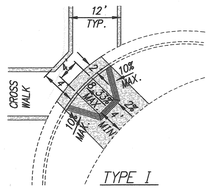
HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.22A
SHEET 23 OF 100
JN: 223.002

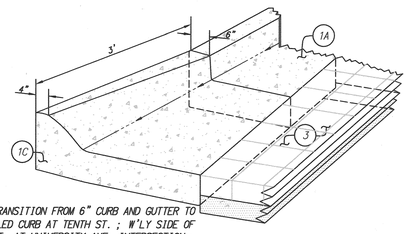
Drawing: C:\223.002\Civil Drawings\223.002-DEM-22.dwg Plotted By: Angie Ramirez Plot Date: Tue Mar 25, 2008 - 8:44am Last Saved: Tue Mar 25, 2008 - 7:58am



STREET INTERSECTION DETAIL
SCALE: 1"=10'

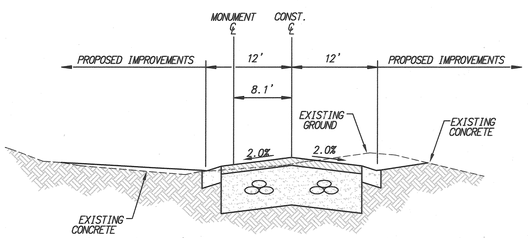


WHEELCHAIR RAMP TYPE I (7)
CITY OF RIVERSIDE STANDARD DWG. NO 304
NOT TO SCALE

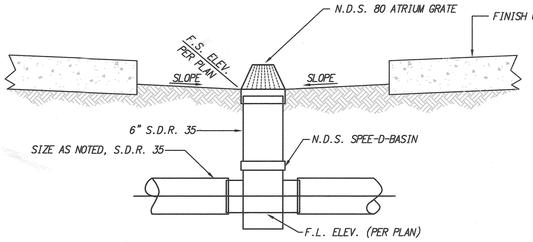


NOTE:
CURB TRANSITION FROM 6" CURB AND GUTTER TO 6" ROLLED CURB AT TENTH ST. ; W'LY SIDE OF MAIN ST. AT UNIVERSITY AVE. INTERSECTION ; AND W'LY SIDE OF MAIN ST. AT MISSION INN AVE INTERSECTION.

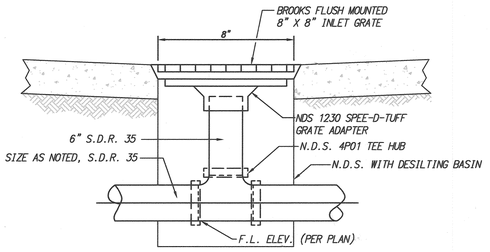
CURB TRANSITION
NOT TO SCALE



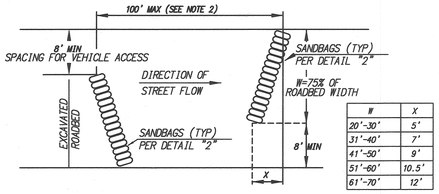
9TH STREET SECTION
NOT TO SCALE



ATRIUM INLET DETAIL (13)
NOT TO SCALE



BROOKS FLUSH MOUNTED 8" X 8" INLET GRATE (12)
NOT TO SCALE



W	X
20'-30'	5'
31'-40'	7'
41'-50'	9'
51'-60'	10.5'
61'-70'	12'

STREET SANDBAG DETAIL (A)
NOT TO SCALE

NOTES:
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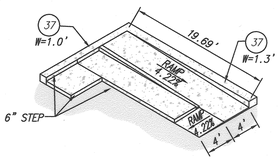
REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAT 4% SHALL BE AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.

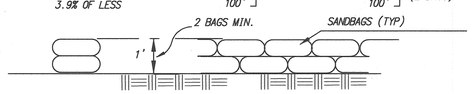
THIS STANDARD DETAIL SHALL BE USED AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.



SKATING RINK RAMP DETAIL
SCALE: 1"=10'

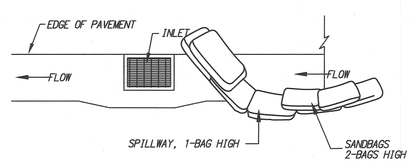
SPACING OF ROWS OF SANDBAGS

SLOPE OF STREET	PAVED STREET	UNPAVED STREET
10% OR MORE	25']	25'] 3 COURSES
9.9% TO 8%	50'] 1' HIGH MIN.	50'] (18" HIGH MIN)
7.9% TO 6%	75'] (2 BAGS)	75'] 1' HIGH MIN.
5.9% TO 4%	100']	100'] (2 BAGS)
3.9% OF LESS		



* NOTE:
A 2 INCH SPACING BETWEEN SANDBAGS WILL BE SET AT TOP ROW OF BAGS (TYPICAL)

SANDBAG VELOCITY REDUCER DETAIL (A)
NOT TO SCALE



TYPICAL PROTECTION FOR INLET ON GRADE (A)

EXISTING UTILITIES SYMBOL LEGEND
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING IRRIGATION VALVE
- EXISTING WATER METER
- EXISTING SIGN / STEEL STRUCTURE
- EXISTING UTILITY PULL BOX
- EXISTING GAS VALVE
- EXISTING UTILITY PULL BOX
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL MANHOLE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN MANHOLE

NOTE:
ALL GATE VALVE CANS, WATER METER BOXES, MANHOLE FRAME AND COVER, UTILITY VAULTS, IRRIGATION BOXES ETC. TO BE ADJUSTED TO GRADE PAVEMENT. SAID ADJUSTMENTS INCLUDED AS PART OF COMPENSATION FOR WORK REQUIRING ADJUSTMENTS. SEE SEPARATE UTILITY PLANS FOR DELINEATION OF ALL UTILITY WORK

PROPOSED LIGHTING AND STORM DRAIN SYMBOL LEGEND
- SINGLE LIGHT WITH SOUND SYSTEM
- DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER
- LIGHT BOLLARDS
- ACORN LIGHT
- STEP LIGHT
- SPHERE UPLIGHT
- ARBOR LIGHT FIXTURE
- DOUBLE LIGHT W/O SOUND SYSTEM AND BANNER
- IN-GRADE UPLIGHT
- PARKING LOT LIGHT
- ATRIUM GRATE
- FOUNTAIN UP LIGHT
- STORM DRAIN CLEAN OUT
- POWER TO FOUNTAIN/ PODIUM
- WELL LIGHT

NOTE:
REFER TO ELECTRICAL PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

LEGEND

	EXISTING TREE
	EXISTING TREE TO REMAIN
	EXISTING WALL
	PROPOSED WALL
	PROPOSED LOT LINE
	EXISTING BUILDING
	EXISTING BUILDING OVERHANG
	EXISTING RIGHT OF WAY
	CENTERLINE EXISTING
	EXISTING CURB
	PROPOSED CURB
	EXISTING SIDEWALK
	PROPOSED SIDEWALK
S	EXISTING SEWER
G	EXISTING GAS
W	EXISTING WATER
SD	EXISTING STORM DRAIN
M.H.	PROPOSED SEWER MANHOLE
S.F.	SQUARE FEET
F.L.	FLOW LINE ELEVATION
F.S.	FINISH SURFACE ELEVATION
F.G.	FINISH GRADE ELEVATION
C/L	CENTERLINE
R/W	RIGHT OF WAY
P/L	PROPERTY LINE
DWY	DRIVEWAY
F.F.	FINISH FLOOR ELEVATION
PAD	PAD ELEVATION
T.C.	TOP OF CURB
S/W	SIDEWALK
P.E.	PAD ELEVATION
INV.	INVERT OF PIPE ELEVATION
P.I.P.	PROTECT IN PLACE
T.B.R.	TO BE RELOCATED

(2)	PROPOSED SIDEWALK
(3)	PROPOSED DECORATIVE PAVERS
(4)	PROPOSED CONCRETE PAVING
(5)	PROPOSED GRANITE PAVERS
(31)	PROPOSED COLORED CONCRETE
L/S	PROPOSED LANDSCAPE (SEE LANDSCAPE ARCHITECT PLAN)

PW 07-0379 PW 07-0217

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 1-800-422-4133 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PRIVATE ENGINEERING NOTE
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CITY BUSINESS CERTIFICATE NO. 106198, EXP. 1/1/2008
IW Consulting Engineers, Inc.
· Civil Engineering
· Surveying
· Land Planning
3544 University Avenue, Riverside, CA 92501
Tel: 951.687.2929 Fax: 951.687.2999

REGISTERED PROFESSIONAL ENGINEER FREDDY TRIANTO No. 60874 Exp.12/31/08 CIVIL STATE OF CALIFORNIA

PLANS PREPARED UNDER SUPERVISION OF
Date 3/25/08 R.C.E. 60874 (EXP. 12-31-08)

BENCHMARK: 16-13
P.K. NAIL IN TOP OF CURB ALONG TENTH STREET 12 FEET SOUTHEASTERLY OF THE CURB RETURN AT THE MOST SOUTHEASTERLY CORNER OF TENTH STREET AND MARKET STREET.
ELEVATION: 840.914 DATE 1971

MARK	REVISIONS	APPR.	DATE
1	3/20/2008 – PHASE 1		
	THIS PLAN SUPERSEDES PLAN DATED 9/19/2007	APD	3/25/08

DESIGNED BY AW/FT DRAWN BY JC/DX CHECKED BY AW/FT

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CONSTRUCTION CONTRACT ADMIN		

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

CITY OF RIVERSIDE
MAIN STREET REVITALIZATION DETAIL SHEET

HORIZ. SCALE: 1"=20' VERT. SCALE: N/A

ACCOUNT NO.
M-457
C.23A
SHEET 24 OF 100
JN: 223.002

LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHITECTURAL CONSTRUCTION PLANS

FOR

DOWNTOWN MALL
MAIN STREET

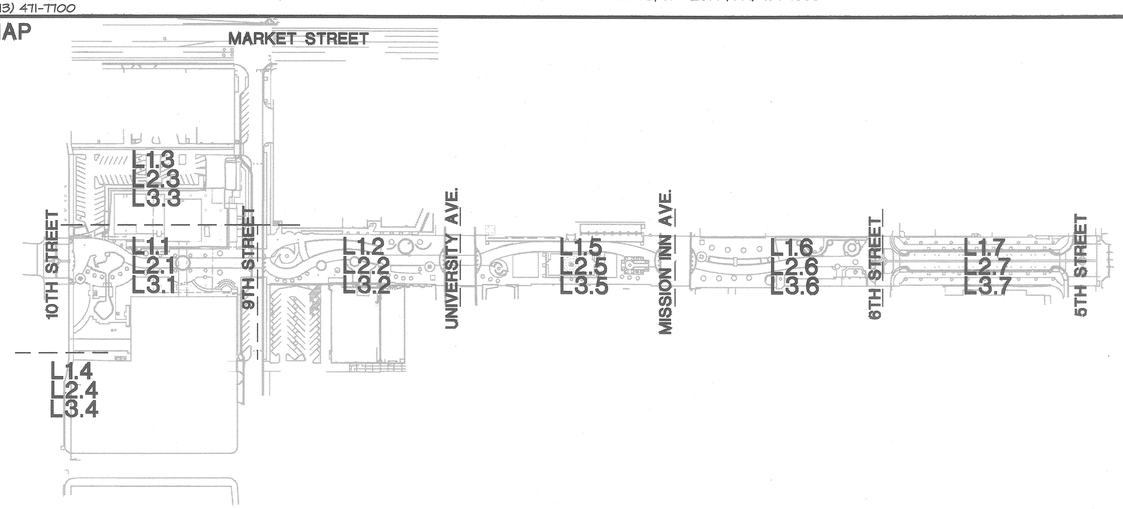
CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

MANUFACTURER'S LIST:

1. ACKERSTONE. 13246 TEMESCAL CANYON RD. CORONA, CA 92883 (909) 322-1988 CONTACT: GEORGE MEADE
2. BEGA LIGHTING. 1000 BEGA WAY. CARPINTERIA, CA 93013 (805) 684-0533.
3. COLD SPRING GRANITE. 1977 SAGE AVE. CORONA, CA 92882 (951) 549-9042. CONTACT: CRAIG GERBER
4. DEEP ROOT. 81 LANGTON STREET SUITE 4. SAN FRANCISCO, CA 94010 (800) 458-7668. CONTACT: PETE VOSKES
5. DELTA SCIENTIFIC CORP. 24901 WEST AVENUE STANFORD. VALENCIA, CA 91355 (661) 257-1800
6. ELA LIGHTING. 17891 ARENTH AVE. CITY OF INDUSTRY, CA 91748 (800) 423-6561. CONTACT: JOHN VANDER WENDE
7. GREENSCREEN. 1743 S. LA CIENEGA BLVD. LOS ANGELES, CA 90035 (800) 450-3494
8. INVISIBLE STRUCTURES, INC. 1600 JACKSON ST., SUITE 310. GOLDEN, CO 80401 (206) 595-2203 CONTACT: ANDY GERSEN
9. LANDSCAPE FORMS. 4139 VANETTA PLACE. STUDIO CITY, CA 91604 (818) 761-0655
10. MIRAFI. 22672 LAMBERT STREET SUITE 602. LAKE FOREST, CA 92630 (800) 423-9923. CONTACT: JIM OR JOSH
11. MURDOCK, INC. 2488 RIVER ROAD. CINCINNATI, OHIO 45204 (513) 471-7100
12. PAVE TECH, INC. P.O. BOX 576. PRIOR LAKE, MINNESOTA 55372 (952) 226-6400
13. PERMALOC CORPORATION. 13505 BARRY STREET. HOLLAND, MI. 49424 (800) 356-9660
14. ORCO BLOCK. 4510 RUTILE STREET. RIVERSIDE, CA 92509 (951) 685-1521
15. QUICK CRETE PRODUCTS CORP. 731 W. PARKRIDGE AVE. NORCO, CA 92860 (951) 737-6240
16. L.M. SCOFIELD. 6533 BANDINI BLVD. LOS ANGELES, CA 90040 (480) 460-0434 CONTACT: LARRY BOWER
17. SHADE STRUCTURES, INC. 350 KALMUS DRIVE. COSTA MESA, CA 92626 (714) 427-6981 CONTACT: PATTI ABRECHT
18. SPECTRUM DEVELOPERS. 1241 FLEMINGTON ROAD. RIVERSIDE, CA 92506 (951) 741-1550 CONTACT: STEVE KOPPES
19. SPEED DOWEL. 3400 TREE COURT INDUSTRIAL BLVD. ST. LOUIS, MO 63122 (800) 325-9504
20. SOUTHWEST BOULDER & STONE. 4510 RUTILE ST. RIVERSIDE, CA 92509 (951) 685-1521 CONTACT: LOE ABDELLA
21. WEST COAST TURF. 75-030 GERALD FORD DR. SUITE 201. PALM DESERT, CA 92211. (800) 447-1840 CONTACT: JOHN MARMAN
22. DALTILE. 1132 DURYEA. IRVINE, CA 92614 (949) 757-7060

VICINTY MAP: NTS

KEY MAP



GENERAL NOTES:

1. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDING, ROADS AND CURBS HAVE BEEN TAKEN FROM THE ARCHITECTS DRAWINGS. REFER TO THE ARCHITECTS AND CIVIL ENGINEERS DRAWINGS FOR ADDITIONAL INFORMATION.

2. REFER TO THE CIVIL ENGINEERS DRAWINGS FOR UTILITY INFORMATION INCLUDING STORM DRAIN, SEWER, WATER, ELECTRICAL, GAS, TELEPHONE AND CABLE TV.

3. REFER TO THE CITY AND / OR COUNTY STANDARD PLANS AND SPECIFICATIONS AS APPLICABLE.

4. CONTRACTOR TO VERIFY SITE INFORMATION INCLUDING PROPERTY LINES, TOP AND BOTTOMS OF SLOPES, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.

5. EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIALS SHALL BE UNDERTAKEN WITH GREAT CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC., SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.

7. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.

8. ALL ELECTRICAL JUNCTION BOXES FOR LIGHTS SHALL BE IN PLANTING AREAS. STAKE LOCATION PRIOR TO INSTALLATION.

9. SEE CIVIL ENGINEER'S DRAWINGS FOR CURBS AND A/C PAVING.

10. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE DRAWINGS.

ABBREVIATION:

TYP.	TYPICAL	DWGS.	DRAWINGS
PA	PLANTING AREA	F.O.B.	FACE OF BLDG.
DIA.	DIAMETER	BLDG.	BUILDING
ARCH.	ARCHITECT	EQ.	EQUAL
TBD.	TO BE DECIDED	EP.	EXISTING PAVING
BOS	TOE OF SLOPE		
TOS	TOP OF SLOPE		

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1289 . FAX 951 683 4513
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN C. DAVIDSON
Signature
6/30/09
Date Terminates
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY IM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

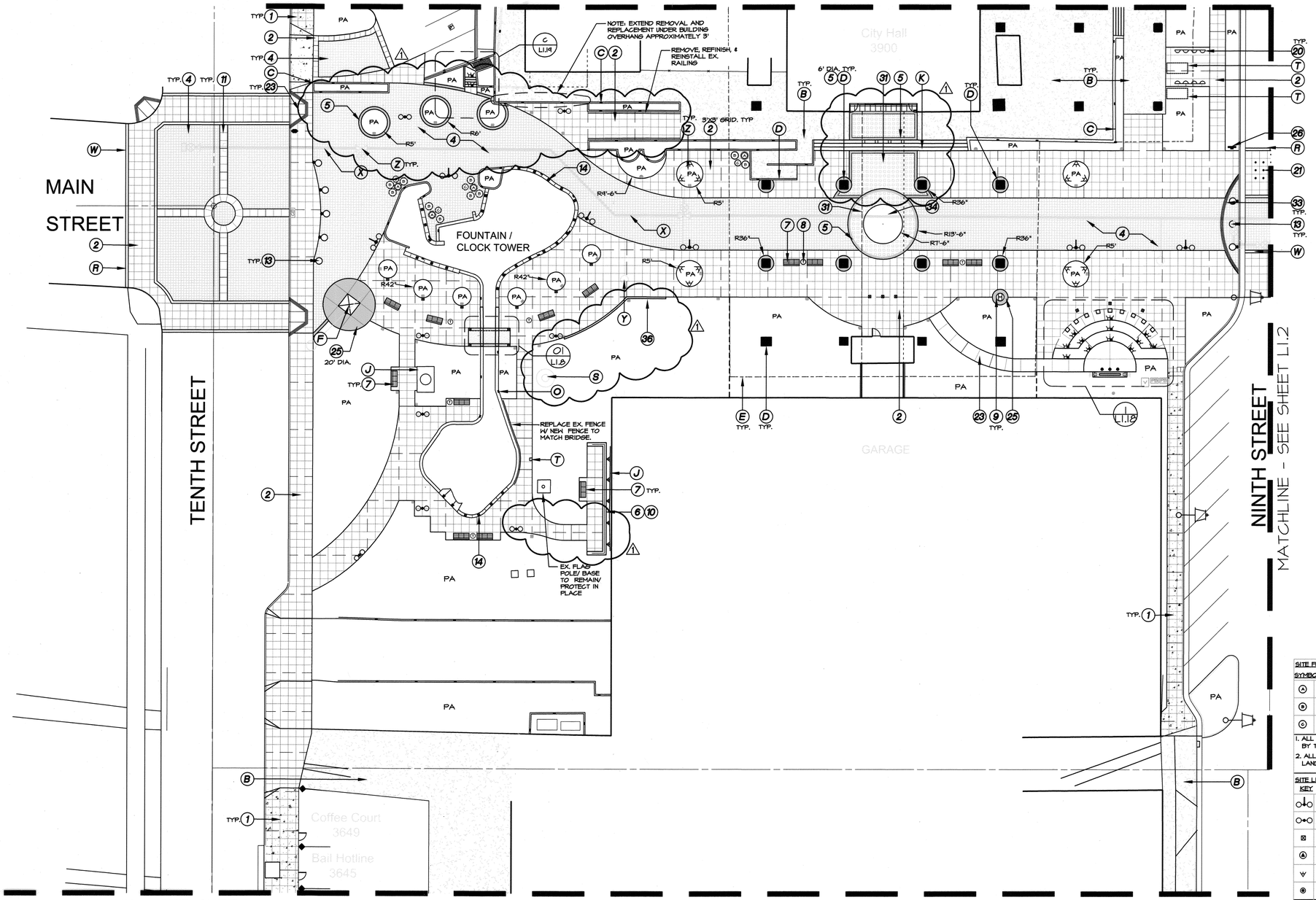
APPROVED BY
CITY ENGINEER
DATE

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

COVER SHEET
M-457
L0.1
SHEET 25 OF 100

BID SET



CONSTRUCTION LEGEND			
KEY	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
1	CONSTRUCT CONCRETE PAVING	PER DETAIL	F/L1.20
2	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
3	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
4	INSTALL PRECAST PAVERS	PER DETAIL	A/L1.19
5	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	B/L1.20
6	CONSTRUCT GRANITE INSERT 3" x 3"	PER DETAIL	J/L1.19
7	INSTALL BENCH (3 ARM)	PER DETAIL	D/L1.21
8	INSTALL TRASH RECEPTACLE	PER DETAIL	E/L1.21
9	INSTALL DRINKING FOUNTAIN H/C	PER DETAIL	C/L1.21
10	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	C/L1.20
11	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	G/L1.19
12	INSTALL WALL SEATS	PER DETAIL	E/L1.19
13	INSTALL 30" DIA. CONC. SPHERES	PER DETAIL	H/L1.19
14	INSTALL DECORATIVE CONC. CAP	PER DETAIL	A/L1.21
15	INSTALL 2"C, PED. INDICATION & PPB CONDUCTORS	PER DETAIL	-
16	CONSTRUCT DISPLAY PODIUM	PER DETAIL	I/L1.20
17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
18	REFINISH & INSTALL METAL FENCE/ GATE	PER DETAIL	H/L1.21
19	CONSTRUCT BIO-DRAIN	PER DETAIL	-
20	INSTALL BICYCLE RACKS	PER DETAIL	G/L1.21
21	INSTALL TRAFFIC DOTS	PER DETAIL	G/L1.20
22	CONSTRUCT CONCRETE PAVING	TO MATCH EXISTING ADJACENT PAVING	F/L1.20
23	CONSTRUCT HANDICAP RAMP	PER CITY STANDARDS	-
24	INSTALL FOUNTAIN VAULT	-	G/L1.13
25	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
26	FABRICATE & INSTALL STOP SIGN	PER DETAIL	A/L1.20
27	INSTALL SHADE STRUCTURE	TO MATCH CAL TOWER	PER MANUF.
28	INSTALL GREEN SCREEN	-	A/L1.6
29	CONSTRUCT LINEAR WATER FEATURE	PER DETAIL	I/L1.10
30	CONSTRUCT CIRCULAR WATER FEATURE	PER DETAIL	I/L1.11
31	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
32	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	I/L1.19
33	CONSTRUCT CONCRETE GROOVES	PER DETAIL	K/L1.20
34	FUTURE ART PIECE BY OTHERS	-	-
35	BASEMENT CONDITION	PER DETAIL	A/L1.2
36	CONSTRUCT CAST IN PLACE CONC. 8" SEAT WALL	PER DETAIL	B/L1.2

CONSTRUCTION REFERENCE LEGEND		
KEY	DESCRIPTION	DETAIL/SHT.
A	CONCRETE CURB/ GUTTER	PER CIVIL
B	CONCRETE PAVING. EXISTING TO REMAIN	-
C	CONCRETE WALL. EXISTING TO REMAIN	-
D	ARCHITECTURAL WALL/ COLUMN. EXISTING	-
E	OVERHANG ABOVE. EXISTING	-
F	WAY FINDING KIOSK	BY OTHERS
G	TRANSFORMER/ GENERATOR	BY OTHERS
H	EXISTING DOOR TO BASEMENT	-
J	EXISTING MEMORIAL FEATURE TO REMAIN	-
K	CONCRETE STEP. EXISTING TO REMAIN	-
L	EXISTING METAL FENCE TO REMAIN	-
M	EXISTING CLOCK TO BE REPAINTED	-
N	EXISTING PARKING METER KIOSKS	-
O	EXISTING FOUNTAIN SEATWALL	A/L1.21
P	FLAG POLE (RELOCATED)	-
Q	MEMORIAL SIGNAGE TO BE PROTECTED IN PLACE	-
R	STOP BAR	PER CIVIL
S	PEGODA - RELOCATED PER CITY (AS REQUIRED)	-
T	EXISTING VAULT	-
U	VAULT FOR ICE RINK	PER LIGHTING
V	INSULATED PIPE FOR ICE RINK	BY OTHERS
W	PAINT 12" THICK WHITE STRIPING SEE C.E. PLANS SHT. #3	PER CIVIL
X	NEW WATER MAIN LINE	PER WATER
Y	WATER METER	BY WATER
Z	FIRE HYDRANT CONNECTION	PER WATER

SITE FURNISHING LEGEND			
SYMBOL	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
A	CONCRETE POT. GR-CE 3036P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
B	CONCRETE POT. GR-CE 3624P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
C	CONCRETE POT. GR-CE 3618P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20

1. ALL SITE FURNISHINGS ARE TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL POT LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.

SITE LIGHTING LEGEND			
KEY	DESCRIPTION		
	DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER		STEP LIGHT
	DOUBLE LIGHT / W/O SOUND SYSTEM/ BANNER		SPHERE UPLIGHT
	BOLLARDS		ARBOR LIGHT FIXTURE
	ACORN LIGHT		FOUNTAIN UP-LIGHT
	IN-GRADE UP LIGHT		PARKING LOT LIGHT
	WELL LIGHT		RELOCATED STREET LIGHT - SEE CE PLANS

NOTES:
1. REFER TO ELEC. PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

SITE SYMBOLS

- EXPANSION JOINT. DETAIL J/L1.20
- TOOLED JOINT. DETAIL J/L1.20
- DRAIN GRATE. PER CIVIL PLAN
- UTILITY BOX. PER CIVIL PLAN
- BACKFLOW PREVENTOR. FIRE DEPARTMENT CHECK VALVE. PER CIVIL PLAN
- WATER METER. PER CIVIL PLAN
- AREA DRAIN. PER CIVIL PLAN
- ATRIUM DRAIN. PER CIVIL PLAN
- ALIGN
- FIRE HYDRANT. PER CIVIL PLAN
- TRANSFORMER
- CATCH BASIN
- POWER TO FOUNTAIN/ PODIUM

NOTE:
1. UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS FOR DETAILS AND EXACT LOCATION. FINAL LOCATION TO BE REVIEWED BY LANDSCAPE ARCHITECT.
2. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

NORTH

30' 20' 10' 0 20' 40'

SCALE 1"=20'

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4312
E-MAIL: IDAVIDSON@ISAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON No. 3255
Signature
5/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE	AGD	3.25.08
	SUPERCEDES SHT L1.1 (12-3-07)	AGD	3.25.08

DESIGNED BY I/D DRAWN BY JM / MA CHECKED BY I/D

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/26/08

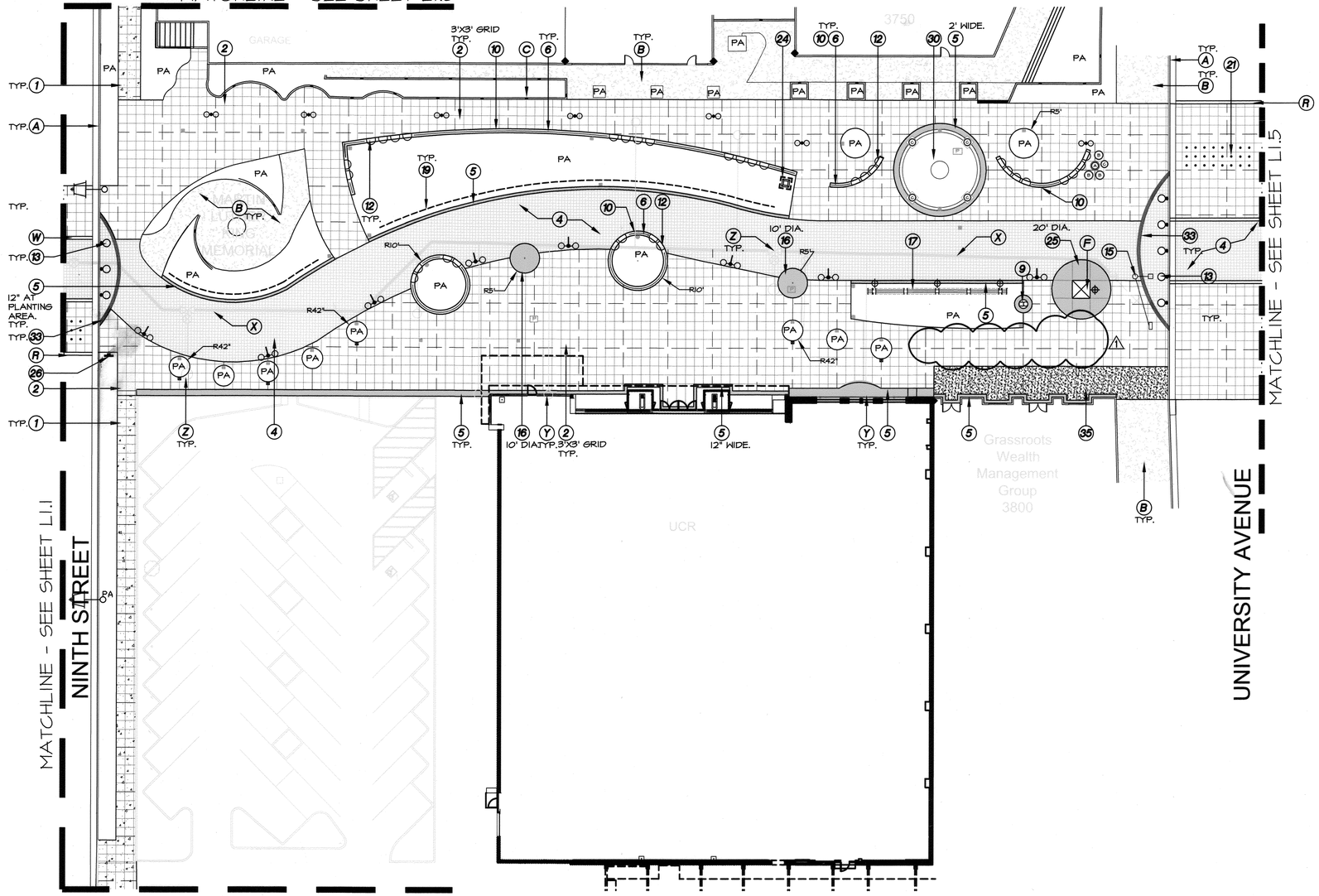
DOWNTOWN MALL
LANDSCAPE PLANS

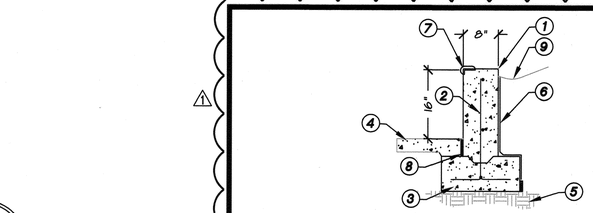
3/20/08

CONSTRUCTION PLAN
M-457
L1.1A

SHEET 26 OF 100

BID SET

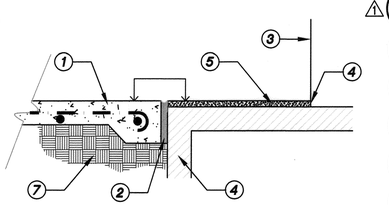




LEGEND

1. CONSTRUCT CONC. PAVING, 'CAST IN PLACE' WALLS. FINISH AND COLOR TO MATCH ADJACENT CITY HALL WALL.
2. #4 REBAR @ 12" O.C.
3. CONCRETE FOOTING
4. CONC. PAVING SURFACE, SEE DETAIL F, SHT. #L1.20
5. 90% COMPACTED SUBGRADE
6. WATER PROOFING, SEE DETAIL I, SHT. #L1.19
7. SKATEBOARD STOP @ 36" O.C. AND V COVE (TYPICAL), SEE DETAIL K, SHT. #L1.19
8. EXPANSION JOINT, SEE DETAIL J, SHT. #L1.20
9. DRAINAGE SWALE

B 8" CMU WALL SCALE: NTS



LEGEND

1. CONC. PAVING, SEE DETAIL #F / SHEET #L1.20
2. EXPANSION JOINT
3. EXISTING BUILDING LINE & RIGHT OF WAY
4. BASEMENT WALL
5. BUSH HAMMER & ACID TREAT EXISTING CONC. FOR NEW CONC. SURFACING, MATERIAL: SCOFIELD TEXTURETOP STAMP GRADE W/ LIGHT BROOM FINISH, COLOR: CHARCOAL, #C-24 BY L.M. SCOFIELD, 6533 BANDINI BLVD. LOS ANGELES, CA. 90040. (480) 460-0434. CONTINUE 3'x3' SCORE GRID PATTERN PER DET. F SHT. L-1.20
6. ½" DEEP SAW CUT
7. 90% COMPACTED SUBGRADE

NOTE:
SCOFIELD TEXTURETOP MUST HAVE THICKNESS OF ⅛" TO ⅜". IF THICKNESS IS GREATER THAN ⅜", THAN LAYER IN INCREMENTS OF ⅛" TO ⅜".

A BASEMENT CONDITION SCALE: NTS

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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CONSTRUCTION LEGEND

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16	CONSTRUCT DISPLAY PODIUM	PER DETAIL	I/L1.20
17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
18	REFINISH & INSTALL METAL FENCE/ GATE	PER DETAIL	H/L1.21
19	CONSTRUCT BIO-DRAIN	PER DETAIL	-
20	INSTALL BICYCLE RACKS	PER DETAIL	G/L1.21
21	INSTALL TRAFFIC DOTS	PER DETAIL	G/L1.20
22	CONSTRUCT CONCRETE PAVING	TO MATCH EXISTING ADJACENT PAVING	F/L1.20
23	CONSTRUCT HANDICAP RAMP	PER CITY STANDARDS	-
24	INSTALL FOUNTAIN VAULT	-	G/L1.13
25	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
26	FABRICATE & INSTALL STOP SIGN	PER DETAIL	A/L1.20
27	INSTALL SHADE STRUCTURE	TO MATCH CAL TOWER	PER MANUF.
28	INSTALL GREEN SCREEN	-	A/L1.6
29	CONSTRUCT LINEAR WATER FEATURE	PER DETAIL	I/L1.10
30	CONSTRUCT CIRCULAR WATER FEATURE	PER DETAIL	I/L1.11
31	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
32	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	I/L1.19
33	CONSTRUCT CONCRETE GROOVES	PER DETAIL	K/L1.20
34	FUTURE ART PIECE BY OTHERS	-	-
35	BASEMENT CONDITION	PER DETAIL	A/L1.2
36	CONSTRUCT CAST IN PLACE CONC. 8" SEAT WALL	PER DETAIL	B/L1.2

SITE FURNISHING LEGEND

SYMBOL	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
A	CONCRETE POT. QR-CE 3036P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/T1	E/L1.20
B	CONCRETE POT. QR-CE 3624P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/T1	E/L1.20
C	CONCRETE POT. QR-CE 3618P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/T1	E/L1.20

1. ALL SITE FURNISHINGS ARE TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL POT LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.

SITE LIGHTING LEGEND

KEY	DESCRIPTION	KEY	DESCRIPTION
	DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER		STEP LIGHT
	DOUBLE LIGHT / W/O SOUND SYSTEM/ BANNER		SPHERE UPLIGHT
	BOLLARDS		ARBOR LIGHT FIXTURE
	ACORN LIGHT		FOUNTAIN UP-LIGHT
	IN-GRADE UP LIGHT		PARKING LOT LIGHT
	WELL LIGHT		RELOCATED STREET LIGHT - SEE CE PLANS

NOTES:
1. REFER TO ELEC. PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

SITE SYMBOLS

- EXPANSION JOINT. DETAIL J/L1.20
- TOOLED JOINT. DETAIL J/L1.20
- DRAIN GRATE. PER CIVIL PLAN
- UTILITY BOX. PER CIVIL PLAN
- BACKFLOW PREVENTOR, FIRE DEPARTMENT CHECK VALVE. PER CIVIL PLAN
- WATER METER. PER CIVIL PLAN
- AREA DRAIN. PER CIVIL PLAN
- ATRIUM DRAIN. PER CIVIL PLAN
- ALIGN
- FIRE HYDRANT. PER CIVIL PLAN
- TRANSFORMER
- CATCH BASIN
- POWER TO FOUNTAIN/ PODIUM

NOTE:
1. UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS FOR DETAILS AND EXACT LOCATION. FINAL LOCATION TO BE REVIEWED BY LANDSCAPE ARCHITECT.
2. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

CONSTRUCTION REFERENCE LEGEND

KEY	DESCRIPTION	DETAIL/SHT.
A	CONCRETE CURB/ GUTTER	PER CIVIL
B	CONCRETE PAVING. EXISTING TO REMAIN	-
C	CONCRETE WALL. EXISTING TO REMAIN	-
D	ARCHITECTURAL WALL/ COLUMN. EXISTING	-
E	OVERHANG ABOVE. EXISTING	-
F	WAY FINDING KIOSK	BY OTHERS
G	TRANSFORMER/ GENERATOR	BY OTHERS
H	EXISTING DOOR TO BASEMENT	-
J	EXISTING MEMORIAL FEATURE TO REMAIN	-
K	CONCRETE STEP. EXISTING TO REMAIN	-
L	EXISTING METAL FENCE TO REMAIN	-
M	EXISTING CLOCK TO BE REPAINTED	-
N	EXISTING PARKING METER KIOSKS	-
O	EXISTING FOUNTAIN SEATWALL	A/L1.21
P	FLAG POLE (RELOCATED)	-
Q	MEMORIAL SIGNAGE TO BE PROTECTED IN PLACE	-
R	STOP BAR	PER CIVIL
S	PEGBOARD - RELOCATED PER CITY (AS REQUIRED)	-
T	EXISTING VAULT	-
U	VAULT FOR ICE RINK	PER LIGHTING
V	INSULATED PIPE FOR ICE RINK	BY OTHERS
W	PAINT 12" THICK WHITE STRIPING SEE C.E. PLANS SHT. #3	PER CIVIL
X	NEW WATER MAIN LINE	PER WATER
Y	WATER METER	BY WATER
Z	FIRE HYDRANT CONNECTION	PER WATER

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 50TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4913
E-MAIL: IDAVIDSON@COX.NET

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 — PHASE 1 CONSTRUCTION PHASE		
	SUPERCEDES SHT L1.2	APD 325-08	

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/20/08

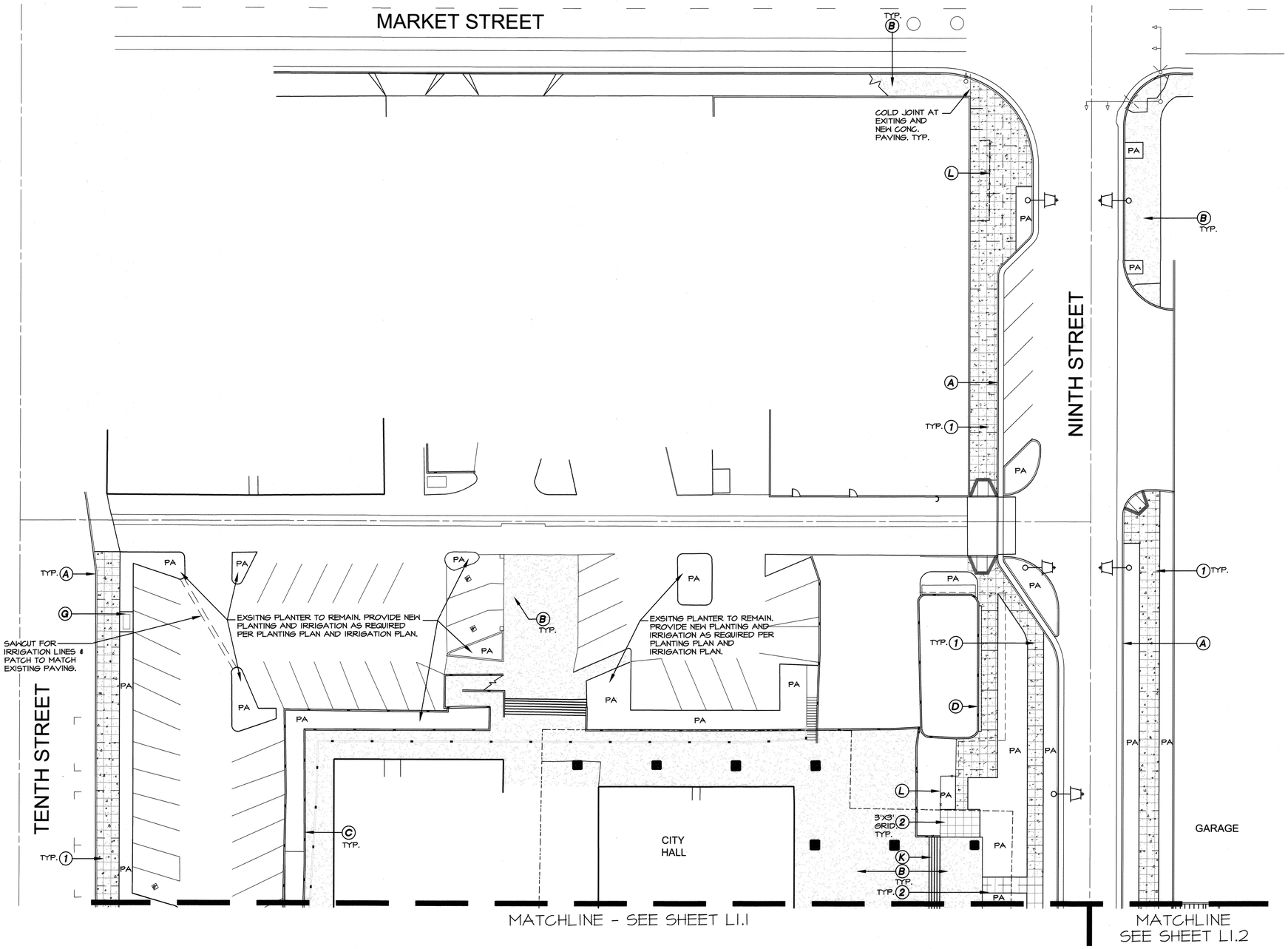
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

CONSTRUCTION PLAN
M-457
L1.2A

SHEET 27 OF 100

BID SET



CONSTRUCTION LEGEND			
KEY	DESCRIPTION	COLOR / FINISH.	DETAIL/SHT.
1	CONSTRUCT CONCRETE PAVING	PER DETAIL	F/L1.20
2	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
3	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
4	INSTALL PRECAST PAVERS	PER DETAIL	A/L1.19
5	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	B/L1.20
6	CONSTRUCT GRANITE INSERT 3" x 3"	PER DETAIL	J/L1.19
7	INSTALL BENCH (3 ARM)	PER DETAIL	D/L1.21
8	INSTALL TRASH RECEPTACLE	PER DETAIL	E/L1.21
9	INSTALL DRINKING FOUNTAIN H/C	PER DETAIL	C/L1.21
10	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	C/L1.20
11	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	G/L1.19
12	INSTALL WALL SEATS	PER DETAIL	E/L1.19
13	INSTALL 30" DIA. CONC. SPHERES	PER DETAIL	H/L1.19
14	INSTALL DECORATIVE CONC. CAP	PER DETAIL	A/L1.21
15	INSTALL 2"C, PED. INDICATION & FPB CONDUCTORS	PER DETAIL	-
16	CONSTRUCT DISPLAY PODIUM	PER DETAIL	I/L1.20
17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
18	REFINISH & INSTALL METAL FENCE/ GATE	PER DETAIL	H/L1.21
19	CONSTRUCT BIO-DRAIN	PER DETAIL	-
20	INSTALL BICYCLE RACKS	PER DETAIL	G/L1.21
21	INSTALL TRAFFIC DOTS	PER DETAIL	G/L1.20
22	CONSTRUCT CONCRETE PAVING	TO MATCH EXISTING ADJACENT PAVING	F/L1.20
23	CONSTRUCT HANDICAP RAMP	PER CITY STANDARDS	-
24	INSTALL FOUNTAIN VAULT	-	G/L1.13
25	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
26	FABRICATE & INSTALL STOP SIGN	PER DETAIL	A/L1.20
27	INSTALL SHADE STRUCTURE	TO MATCH CAL TOWER	PER MANUF.
28	INSTALL GREEN SCREEN	-	A/L1.6
29	CONSTRUCT LINEAR WATER FEATURE	PER DETAIL	I/L1.10
30	CONSTRUCT CIRCULAR WATER FEATURE	PER DETAIL	I/L1.11
31	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
32	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	I/L1.19
33	CONSTRUCT CONCRETE GROOVES	PER DETAIL	K/L1.20
34	FUTURE ART PIECE BY OTHERS	-	-
35	BASEMENT CONDITION	PER DETAIL	A/L1.2
36	CONSTRUCT CAST IN PLACE CONC. 8" SEAT WALL	PER DETAIL	B/L1.2

CONSTRUCTION REFERENCE LEGEND		
KEY	DESCRIPTION	DETAIL/SHT.
A	CONCRETE CURB/ GUTTER	PER CIVIL
B	CONCRETE PAVING. EXISTING TO REMAIN	-
C	CONCRETE WALL. EXISTING TO REMAIN	-
D	ARCHITECTURAL WALL/ COLUMN. EXISTING	-
E	OVERHANG ABOVE. EXISTING	-
F	WAY FINDING KIOSK	BY OTHERS
Q	TRANSFORMER/ GENERATOR	BY OTHERS
H	EXISTING DOOR TO BASEMENT	-
J	EXISTING MEMORIAL FEATURE TO REMAIN	-
K	CONCRETE STEP. EXISTING TO REMAIN	-
L	EXISTING METAL FENCE TO REMAIN	-
M	EXISTING CLOCK TO BE REPAINTED	-
N	EXISTING PARKING METER KIOSKS	-
O	EXISTING FOUNTAIN SEATWALL	A/L1.21
P	FLAG POLE (RELOCATED)	-
Q	MEMORIAL SIGNAGE TO BE PROTECTED IN PLACE	-
R	STOP BAR	PER CIVIL
S	PEGODA - RELOCATED PER CITY (AS REQUIRED)	-
T	EXISTING VAULT	-
U	VAULT FOR ICE RINK	PER LIGHTING
V	INSULATED PIPE FOR ICE RINK	BY OTHERS
W	PAINT 12" THICK WHITE STRIPING SEE C.E. PLANS SHT. #3	PER CIVIL
X	NEW WATER MAIN LINE	PER WATER
Y	WATER METER	BY WATER
Z	FIRE HYDRANT CONNECTION	PER WATER

SITE FURNISHING LEGEND			
SYMBOL	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
A	CONCRETE POT. GR-CE 3035P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
B	CONCRETE POT. GR-CE 3624P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
C	CONCRETE POT. GR-CE 3618P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20

1. ALL SITE FURNISHINGS ARE TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL POT LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.

SITE LIGHTING LEGEND			
KEY	DESCRIPTION		
	DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER		STEP LIGHT
	DOUBLE LIGHT / W/O SOUND SYSTEM/ BANNER		SPHERE UPLIGHT
	BOLLARDS		ARBOR LIGHT FIXTURE
	ACORN LIGHT		FOUNTAIN UP-LIGHT
	IN-GRADE UP LIGHT		PARKING LOT LIGHT
	WELL LIGHT		RELOCATED STREET LIGHT - SEE CE PLANS

NOTES:
1. REFER TO ELEC. PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

SITE SYMBOLS

- EXPANSION JOINT. DETAIL J/L1.20
- TOOLED JOINT. DETAIL J/L1.20
- DRAIN GRATE. PER CIVIL PLAN
- PB UTILITY BOX. PER CIVIL PLAN
- BACKFLOW PREVENTOR, FIRE DEPARTMENT CHECK VALVE. PER CIVIL PLAN
- WATER METER. PER CIVIL PLAN
- AREA DRAIN. PER CIVIL PLAN
- ATRIUM DRAIN. PER CIVIL PLAN
- ALIGN
- FIRE HYDRANT. PER CIVIL PLAN
- T TRANSFORMER
- CB CATCH BASIN
- P POWER TO FOUNTAIN/ PODIUM

NOTE:
1. UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS FOR DETAILS AND EXACT LOCATION. FINAL LOCATION TO BE REVIEWED BY LANDSCAPE ARCHITECT.
2. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4052
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
5/20/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
1	SHEET CALCULATIONS SHT L1.3	IAN	3-25-08

DESIGNED BY I/D DRAWN BY JM / MA CHECKED BY I/D

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/26/08

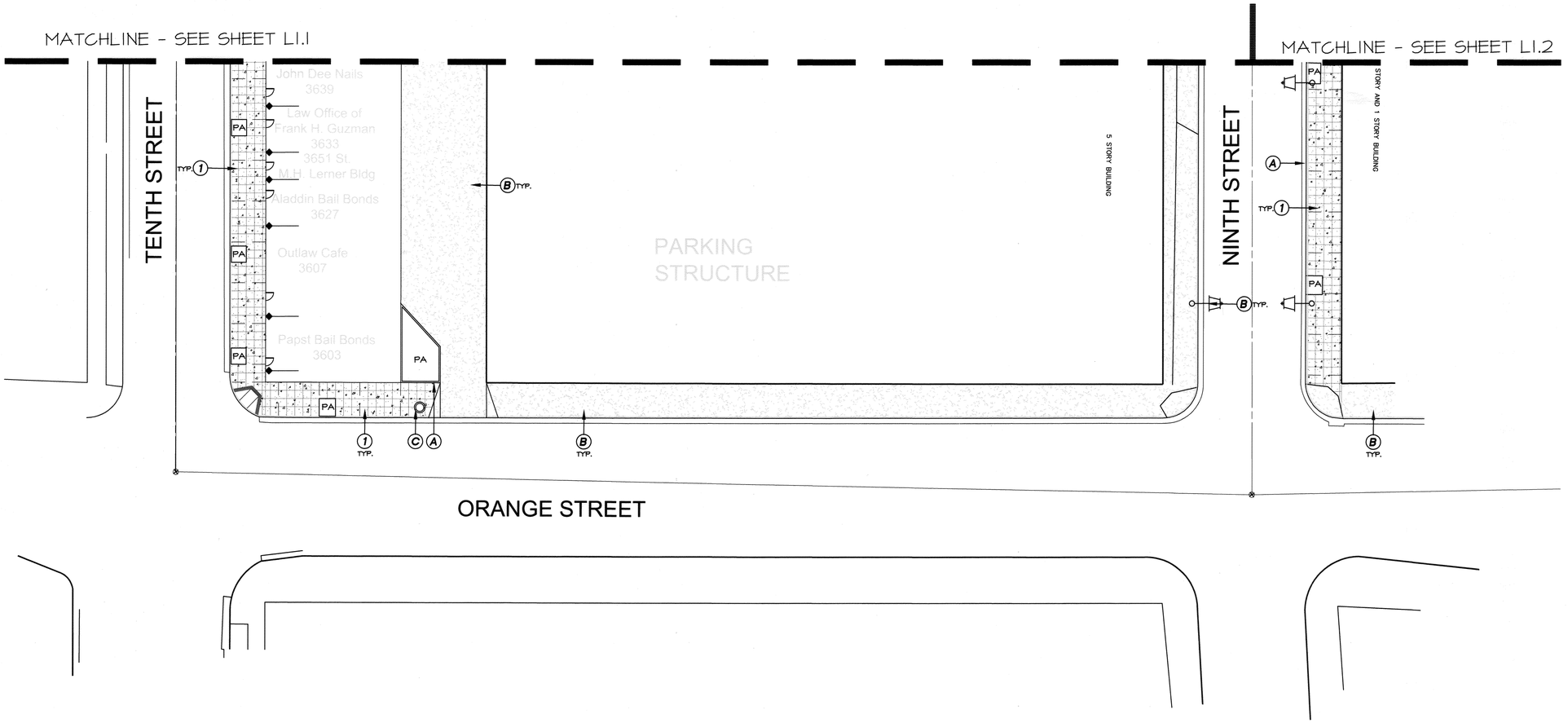
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

CONSTRUCTION PLAN
M-457
L1.3A

SHEET 28 OF 100

BID SET



CONSTRUCTION LEGEND			
KEY	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
1	CONSTRUCT CONCRETE PAVING	PER DETAIL	P/L1.20
2	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	P/L1.20
3	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
4	INSTALL PRECAST PAVERS	PER DETAIL	A/L1.19
5	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	B/L1.20
6	CONSTRUCT GRANITE INSERT 3" x 3"	PER DETAIL	J/L1.19
7	INSTALL BENCH (3 ARM)	PER DETAIL	D/L1.21
8	INSTALL TRASH RECEPTACLE	PER DETAIL	E/L1.21
9	INSTALL DRINKING FOUNTAIN H/C	PER DETAIL	C/L1.21
10	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	C/L1.20
11	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	G/L1.19
12	INSTALL WALL SEATS	PER DETAIL	E/L1.19
13	INSTALL 30" DIA. CONC. SPHERES	PER DETAIL	H/L1.19
14	INSTALL DECORATIVE CONC. CAP	PER DETAIL	A/L1.21
15	INSTALL 2"C, PED. INDICATION & PPB CONDUCTORS	PER DETAIL	-
16	CONSTRUCT DISPLAY PODIUM	PER DETAIL	I/L1.20
17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
18	REFINISH & INSTALL METAL FENCE/ GATE	PER DETAIL	H/L1.21
19	CONSTRUCT BIO-DRAIN	PER DETAIL	-
20	INSTALL BICYCLE RACKS	PER DETAIL	G/L1.21
21	INSTALL TRAFFIC DOTS	PER DETAIL	G/L1.20
22	CONSTRUCT CONCRETE PAVING	TO MATCH EXISTING ADJACENT PAVING	F/L1.20
23	CONSTRUCT HANDICAP RAMP	PER CITY STANDARDS	-
24	INSTALL FOUNTAIN VAULT	-	G/L1.13
25	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
26	FABRICATE & INSTALL STOP SIGN	PER DETAIL	A/L1.20
27	INSTALL SHADE STRUCTURE	TO MATCH CAL TOWER	PER MANUF.
28	INSTALL GREEN SCREEN	-	A/L1.6
29	CONSTRUCT LINEAR WATER FEATURE	PER DETAIL	I/L1.10
30	CONSTRUCT CIRCULAR WATER FEATURE	PER DETAIL	I/L1.11
31	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
32	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	I/L1.19
33	CONSTRUCT CONCRETE GROOVES	PER DETAIL	K/L1.20
34	FUTURE ART PIECE BY OTHERS	-	-
35	BASEMENT CONDITION	PER DETAIL	A/L1.2
1 36	CONSTRUCT CAST IN PLACE CONC. 8" SEAT WALL	PER DETAIL	B/L1.2

SITE FURNISHING LEGEND			
SYMBOL	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
A	CONCRETE POT, QR-CE 3036P, BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
B	CONCRETE POT, QR-CE 3624P, BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
C	CONCRETE POT, QR-CE 3618P, BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20

1. ALL SITE FURNISHINGS ARE TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL POT LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.

SITE LIGHTING LEGEND			
KEY	DESCRIPTION	KEY	DESCRIPTION
	DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER		STEP LIGHT
	DOUBLE LIGHT / W/O SOUND SYSTEM/ BANNER		SPHERE UPLIGHT
	BOLLARDS		ARBOR LIGHT FIXTURE
	ACORN LIGHT		FOUNTAIN UP-LIGHT
	IN-GRADE UP LIGHT		PARKING LOT LIGHT
	WELL LIGHT		RELOCATED STREET LIGHT - SEE CE PLANS

NOTES:
1. REFER TO ELEC. PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

SITE SYMBOLS

- EXPANSION JOINT, DETAIL J/L1.20
- TOOLED JOINT, DETAIL J/L1.20
- DRAIN GRATE, PER CIVIL PLAN
- UTILITY BOX, PER CIVIL PLAN
- BACKFLOW PREVENTOR, FIRE DEPARTMENT CHECK VALVE, PER CIVIL PLAN
- WATER METER, PER CIVIL PLAN
- AREA DRAIN, PER CIVIL PLAN
- ATRIUM DRAIN, PER CIVIL PLAN
- ALIGN
- FIRE HYDRANT, PER CIVIL PLAN
- TRANSFORMER
- CB CATCH BASIN
- POWER TO FOUNTAIN/ PODIUM

NOTE:
1. UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS FOR DETAILS AND EXACT LOCATION. FINAL LOCATION TO BE REVIEWED BY LANDSCAPE ARCHITECT.
2. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

CONSTRUCTION REFERENCE LEGEND		
KEY	DESCRIPTION	DETAIL/SHT.
A	CONCRETE CURB/ GUTTER	PER CIVIL
B	CONCRETE PAVING. EXISTING TO REMAIN	-
C	CONCRETE WALL. EXISTING TO REMAIN	-
D	ARCHITECTURAL WALL/ COLUMN. EXISTING	-
E	OVERHANG ABOVE. EXISTING	-
F	WAY FINDING KIOSK	BY OTHERS
G	TRANSFORMER/ GENERATOR	BY OTHERS
H	EXISTING DOOR TO BASEMENT	-
J	EXISTING MEMORIAL FEATURE TO REMAIN	-
K	CONCRETE STEP. EXISTING TO REMAIN	-
L	EXISTING METAL FENCE TO REMAIN	-
M	EXISTING CLOCK TO BE REPAINTED	-
N	EXISTING PARKING METER KIOSKS	-
O	EXISTING FOUNTAIN SEATWALL	A/L1.21
P	FLAG POLE (RELOCATED)	-
Q	MEMORIAL SIGNAGE TO BE PROTECTED IN PLACE	-
R	STOP BAR	PER CIVIL
S	PEGODA - RELOCATED PER CITY (AS REQUIRED)	-
T	EXISTING VAULT	-
U	VAULT FOR ICE RINK	PER LIGHTING
V	INSULATED PIPE FOR ICE RINK	BY OTHERS
W	PAINT 12" THICK WHITE STRIPING SEE C.E. PLANS SHT. #3	PER CIVIL
X	NEW WATER MAIN LINE	PER WATER
Y	WATER METER	BY WATER
Z	FIRE HYDRANT CONNECTION	PER WATER

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 TENTH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4012
E-MAIL: IDAVIDSON@IDALANC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN C. DAVIDSON
No. 3961
Signature
6/30/09
Exp. date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUBGRADES SHT L1.4	MD	8-25-08

DESIGNED BY ID DRAWN BY IM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	BV	3/26/08
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/26/08

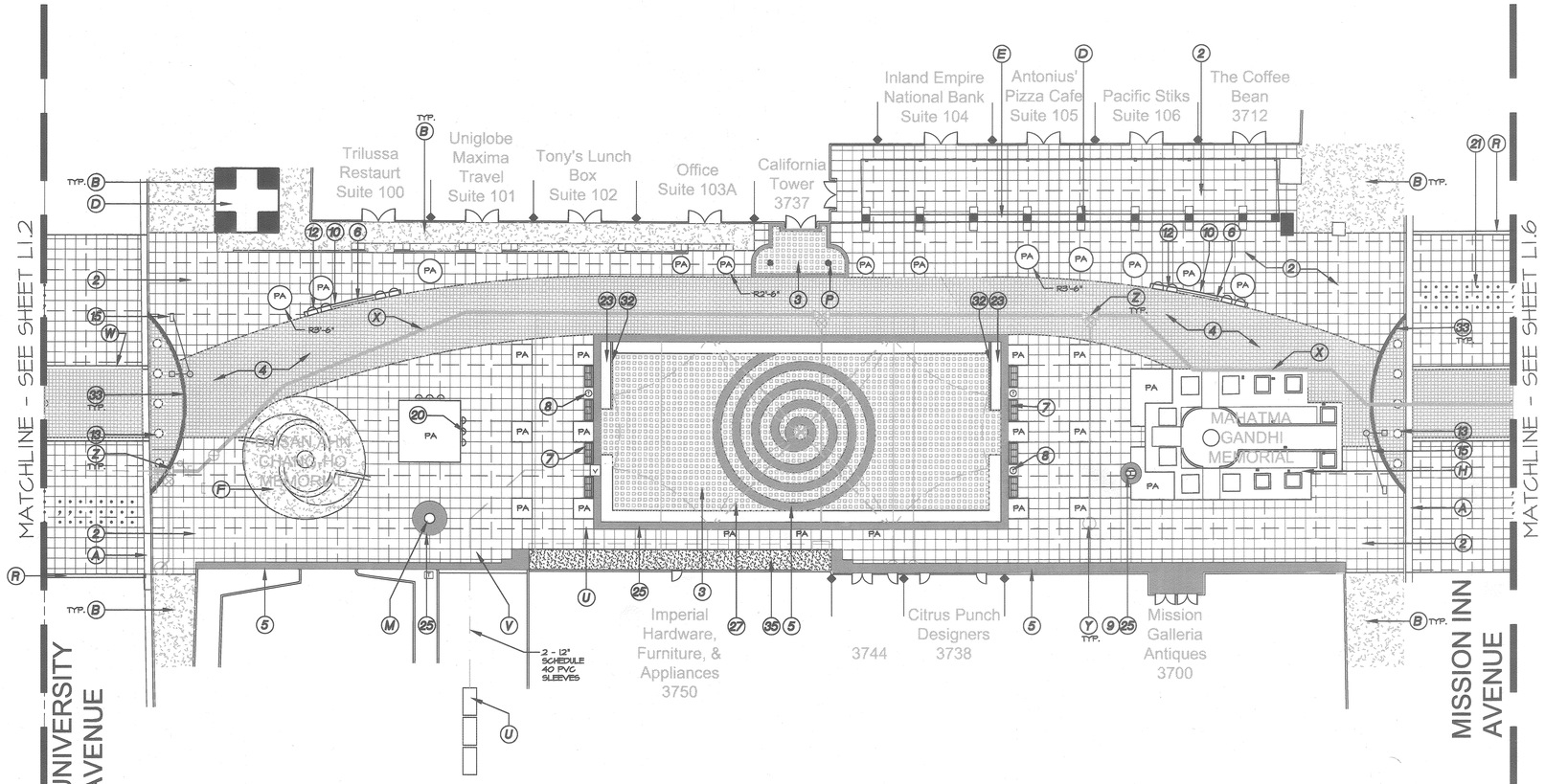
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

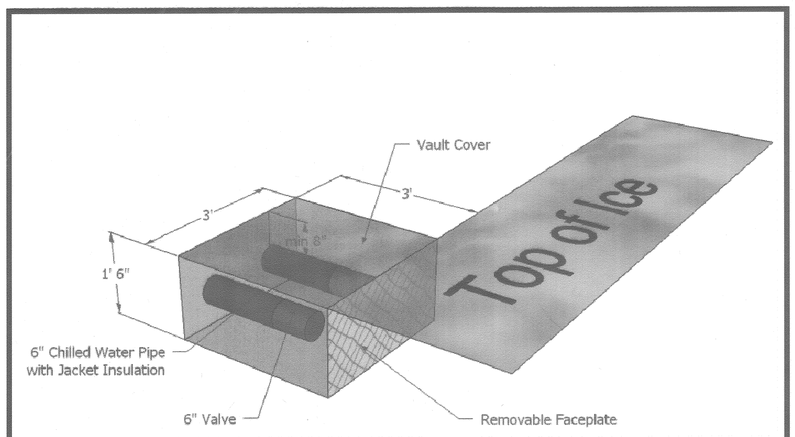
CONSTRUCTION PLAN
M-457
L1.4A

SHEET 29 OF 100

BID SET



NOTE:
CONTRACTOR TO COORDINATE TENSILE SHADE STRUCTURE TO BE INSTALLED BY OTHERS



A ICE SKATING RINK VAULT — SCALE: NTS

CONSTRUCTION LEGEND			
KEY	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
1	CONSTRUCT CONCRETE PAVING	PER DETAIL	F/L1.20
2	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
3	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
4	INSTALL PRECAST PAVERS	PER DETAIL	A/L1.19
5	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	B/L1.20
6	CONSTRUCT GRANITE INSERT 3" x 3"	PER DETAIL	J/L1.19
7	INSTALL BENCH (3 ARM)	PER DETAIL	D/L1.21
8	INSTALL TRASH RECEPTACLE	PER DETAIL	E/L1.21
9	INSTALL DRINKING FOUNTAIN H/C	PER DETAIL	C/L1.21
10	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	C/L1.20
11	CONSTRUCT INTEGRAL COLOR CONC. BAND	PER DETAIL	G/L1.19
12	INSTALL WALL SEATS	PER DETAIL	E/L1.19
13	INSTALL 30" DIA. CONC. SPHERES	PER DETAIL	H/L1.19
14	INSTALL DECORATIVE CONC. CAP	PER DETAIL	A/L1.21
15	INSTALL 2"C, PED. INDICATION & FPB CONDUCTORS	PER DETAIL	-
16	CONSTRUCT DISPLAY PODIUM	PER DETAIL	I/L1.20
17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
18	REFINISH & INSTALL METAL FENCE/ GATE	PER DETAIL	H/L1.21
19	CONSTRUCT BIO-DRAIN	PER DETAIL	-
20	INSTALL BICYCLE RACKS	PER DETAIL	G/L1.21
21	INSTALL TRAFFIC DOTS	PER DETAIL	G/L1.20
22	CONSTRUCT CONCRETE PAVING	TO MATCH EXISTING AD. JACENT PAVING	F/L1.20
23	CONSTRUCT HANDICAP RAMP	PER CITY STANDARDS	-
24	INSTALL FOUNTAIN VAULT	-	G/L1.13
25	CONSTRUCT INTEGRAL COLOR CONC. PAVING	PER DETAIL	F/L1.20
26	FABRICATE & INSTALL STOP SIGN	PER DETAIL	A/L1.20
27	INSTALL SHADE STRUCTURE	TO MATCH CAL TOWER	PER MANUF.
28	INSTALL GREEN SCREEN	-	A/L1.6
29	CONSTRUCT LINEAR WATER FEATURE	PER DETAIL	I/L1.10
30	CONSTRUCT CIRCULAR WATER FEATURE	PER DETAIL	I/L1.11
31	INSTALL GRANITE PAVERS	PER DETAIL	B/L1.19
32	CONSTRUCT CAST IN PLACE CONC. SEAT WALL	PER DETAIL	I/L1.19
33	CONSTRUCT CONCRETE GROOVES	PER DETAIL	K/L1.20
34	FUTURE ART PIECE BY OTHERS	-	-
35	BASEMENT CONDITION	PER DETAIL	A/L1.2

SITE FURNISHING LEGEND			
SYMBOL	DESCRIPTION	COLOR / FINISH	DETAIL/SHT.
A	CONCRETE POT. QR-CE 3036P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20
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C	CONCRETE POT. QR-CE 3618P. BY QUICK CRETE.	SUMMER BEIGE INTEGRAL COLOR/TT	E/L1.20

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SITE LIGHTING LEGEND			
KEY	DESCRIPTION	KEY	DESCRIPTION
	DOUBLE LIGHT W/ SOUND SYSTEM AND BANNER		STEP LIGHT
	DOUBLE LIGHT / W/O SOUND SYSTEM/ BANNER		SPHERE UPLIGHT
	BOLLARDS		ARBOR LIGHT FIXTURE
	ACORN LIGHT		FOUNTAIN UP-LIGHT
	IN-GRADE UP LIGHT		PARKING LOT LIGHT
	WELL LIGHT		RELOCATED STREET LIGHT - SEE CE PLANS

NOTES:
1. REFER TO ELEC. PLAN FOR LIGHT FIXTURE MODEL NUMBER AND COLOR.

SITE SYMBOLS

- EXPANSION JOINT. DETAIL J/L1.20
- TOOLED JOINT. DETAIL J/L1.20
- DRAIN GRATE. PER CIVIL PLAN
- UTILITY BOX. PER CIVIL PLAN
- BACKFLOW PREVENTOR, FIRE DEPARTMENT CHECK VALVE. PER CIVIL PLAN
- WATER METER. PER CIVIL PLAN
- AREA DRAIN. PER CIVIL PLAN
- ATRIUM DRAIN. PER CIVIL PLAN
- ALIGN
- FIRE HYDRANT. PER CIVIL PLAN
- TRANSFORMER
- CATCH BASIN
- POWER TO FOUNTAIN/ PODIUM

NOTE:
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2. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

CONSTRUCTION REFERENCE LEGEND		
KEY	DESCRIPTION	DETAIL/SHT.
A	CONCRETE CURB/ GUTTER	PER CIVIL
B	CONCRETE PAVING, EXISTING TO REMAIN	-
C	CONCRETE WALL, EXISTING TO REMAIN	-
D	ARCHITECTURAL WALL/ COLUMN, EXISTING	-
E	OVERHANG ABOVE, EXISTING	-
F	WAY FINDING KIOSK	BY OTHERS
G	TRANSFORMER/ GENERATOR	BY OTHERS
H	EXISTING DOOR TO BASEMENT	-
J	EXISTING MEMORIAL FEATURE TO REMAIN	-
K	CONCRETE STEP, EXISTING TO REMAIN	-
L	EXISTING METAL FENCE TO REMAIN	-
M	EXISTING CLOCK TO BE REPAINTED	-
N	EXISTING PARKING METER KIOSKS	-
O	EXISTING FOUNTAIN SEATWALL	A/L1.21
P	FLAG POLE (RELOCATED)	-
Q	MEMORIAL SIGNAGE TO BE PROTECTED IN PLACE	-
R	STOP BAR	PER CIVIL
S	PEGODA - RELOCATED PER CITY (AS-REQUIRED)	-
T	EXISTING VAULT	-
U	VAULT FOR ICE RINK	PER LIGHTING
V	INSULATED PIPE FOR ICE RINK	BY OTHERS
W	PAINT 12" THICK WHITE STRIPING SEE C.E. PLANS SHT. #3	PER CIVIL
X	NEW WATER MAIN LINE	PER WATER
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 FAX 951.683.4313
E-MAIL: IDAVIDSON@IDSAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN DAVIDSON — Signature 5/30/08 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

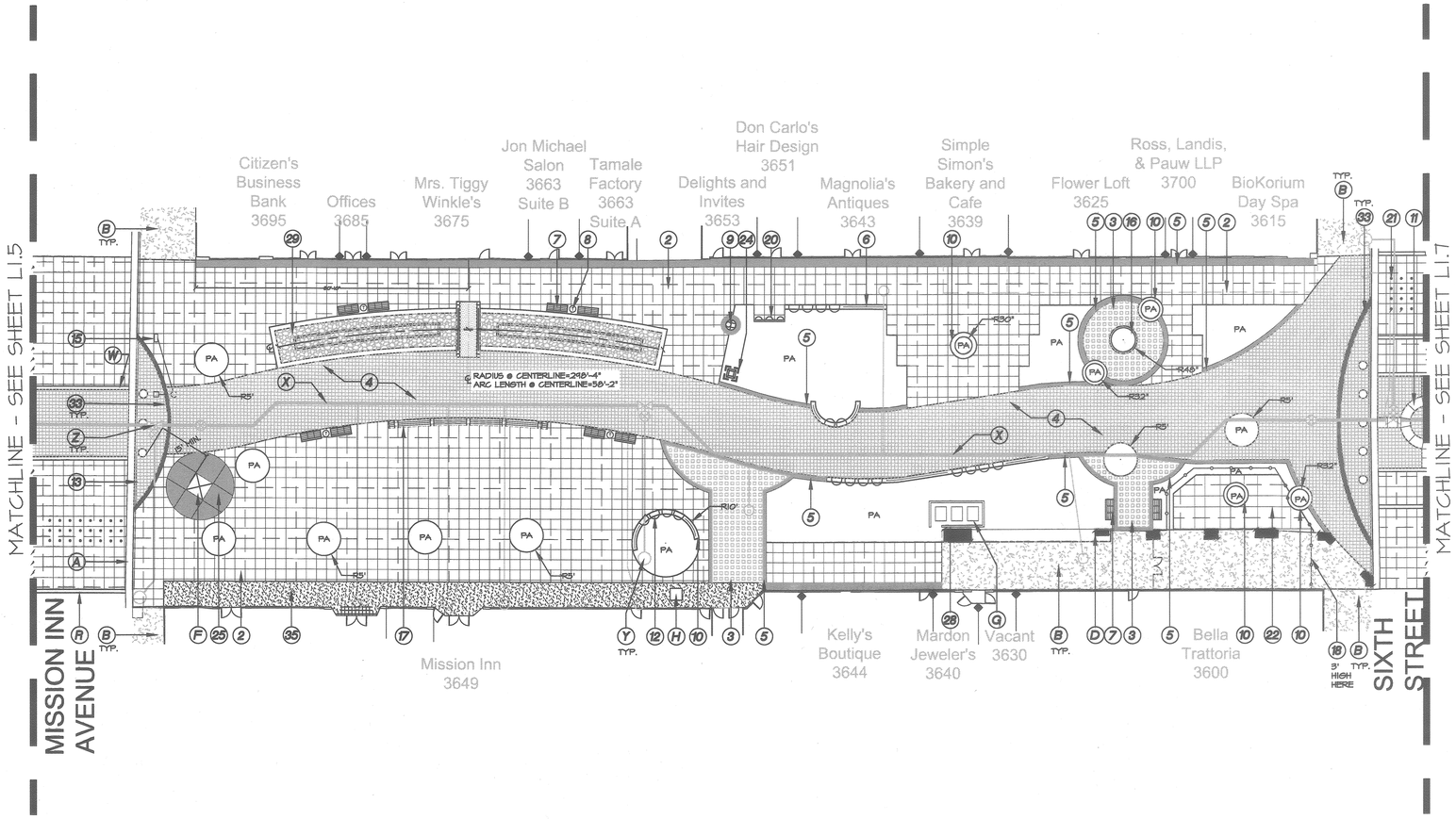
APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE _____

DOWNTOWN MALL LANDSCAPE PLANS

12/03/07
CONSTRUCTION PLAN
M-457
L1.5
SHEET 30 OF 100

BID SET



CONSTRUCTION LEGEND			
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17	FABRICATE & INSTALL ARBOR	PER DETAIL	I/L1.17
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NOTES:
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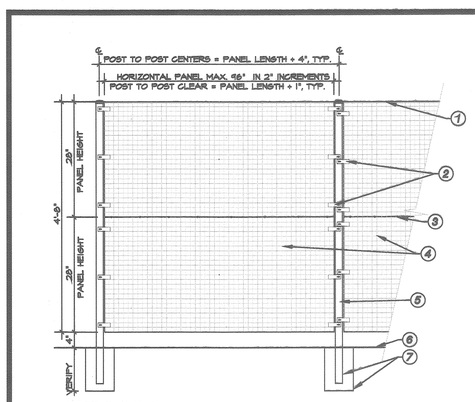
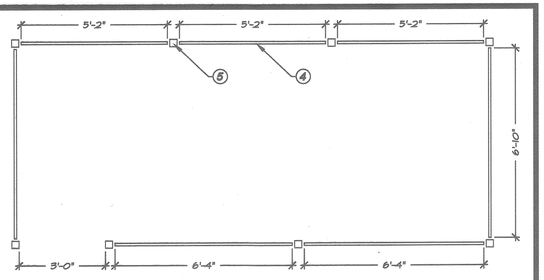


SECTION VIEW



PLAN VIEW

LEGEND:
1. #3/4 CHANNEL TRIM @ TOP EDGE OF PANEL, TYP.
2. #3/8 POST CLIPS MOUNTED FRONT AND BACK @ EACH LOCATION W/ STAINLESS STEEL TEK SCREW, TYP.
3. #3/8 FLEX "C" RINGS @ PANEL TO PANEL SEAM.
4. 3" THICK GREENSCREEN PANEL, TYP.
5. 3" SQUARE STEEL TUBE W/ POST CAP, TYP.
6. FINISH GRADE
7. POST IMBED LENGTH & FOOTING SHOULD BE VERIFIED BASED ON OVERALL HEIGHT, WIND LOADS & SOIL CONDITIONS, TYP.

NOTE:
PAINT ALL STEEL (BLACK)

CONTACT INFO:
GREENSCREEN, 1749 S. LA CIENEGA BLVD., LOS ANGELES, CA 90035
TEL. (800)450-3494

A GREENSCREEN SCALE NTS

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
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227·2600
TWO WORKING DAYS BEFORE YOU DIG

NORTH
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 5188 - FAX 951 683 4370
E-MAIL: IDAVIDSON@SBCGLOBAL.NET

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
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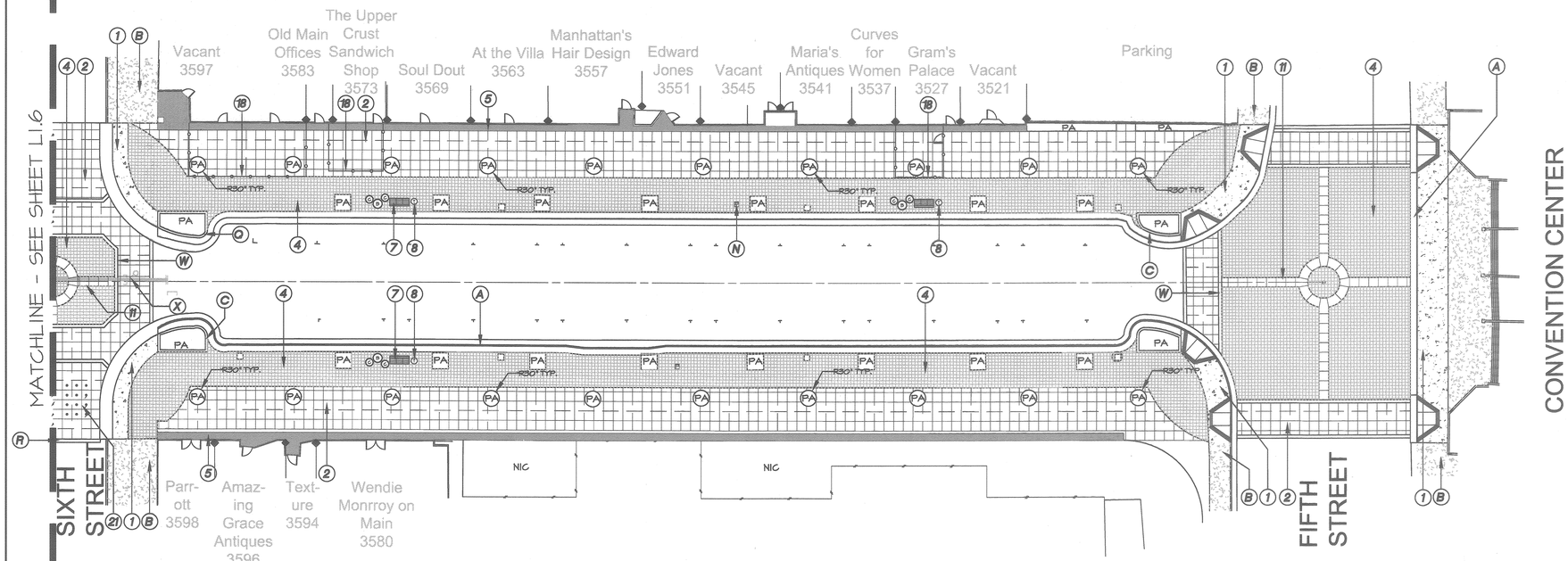
CITY ENGINEER
DATE

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07
CONSTRUCTION PLAN
M-457
L1.6
SHEET 31 OF 100

BID SET



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NORTH

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SCALE 1"=20'

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TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.5283 . FAX 951.683.4313
E-MAIL: IDAVIDSON@ROADRUNNER.COM

REGISTERED LANDSCAPE ARCHITECT
IAN C. DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LJD DRAWN BY JM / MA CHECKED BY LJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE _____

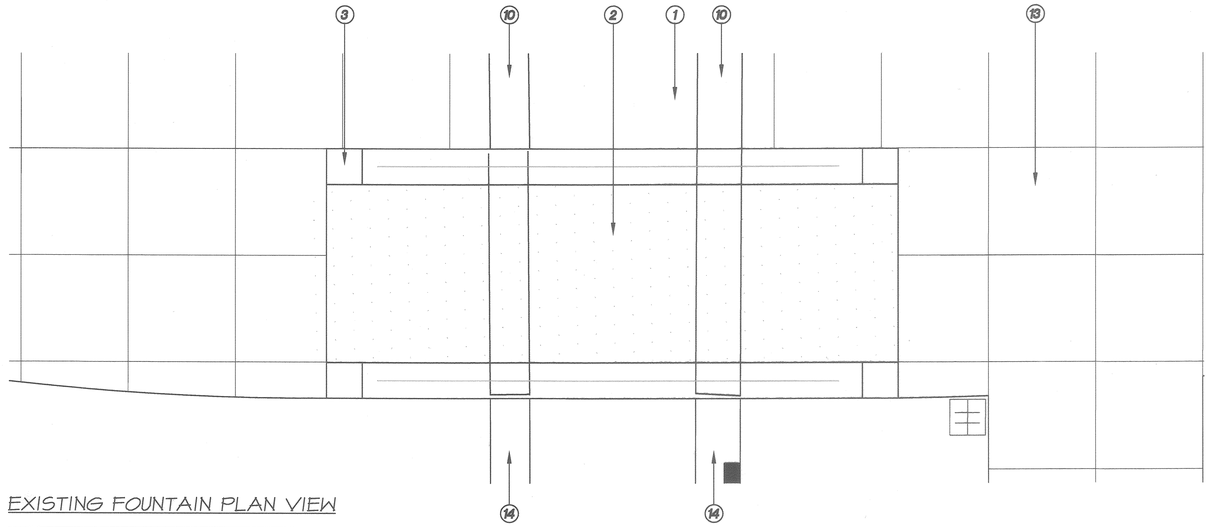
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

CONSTRUCTION PLAN
M-457
L1.7

SHEET 32 OF 100

BID SET



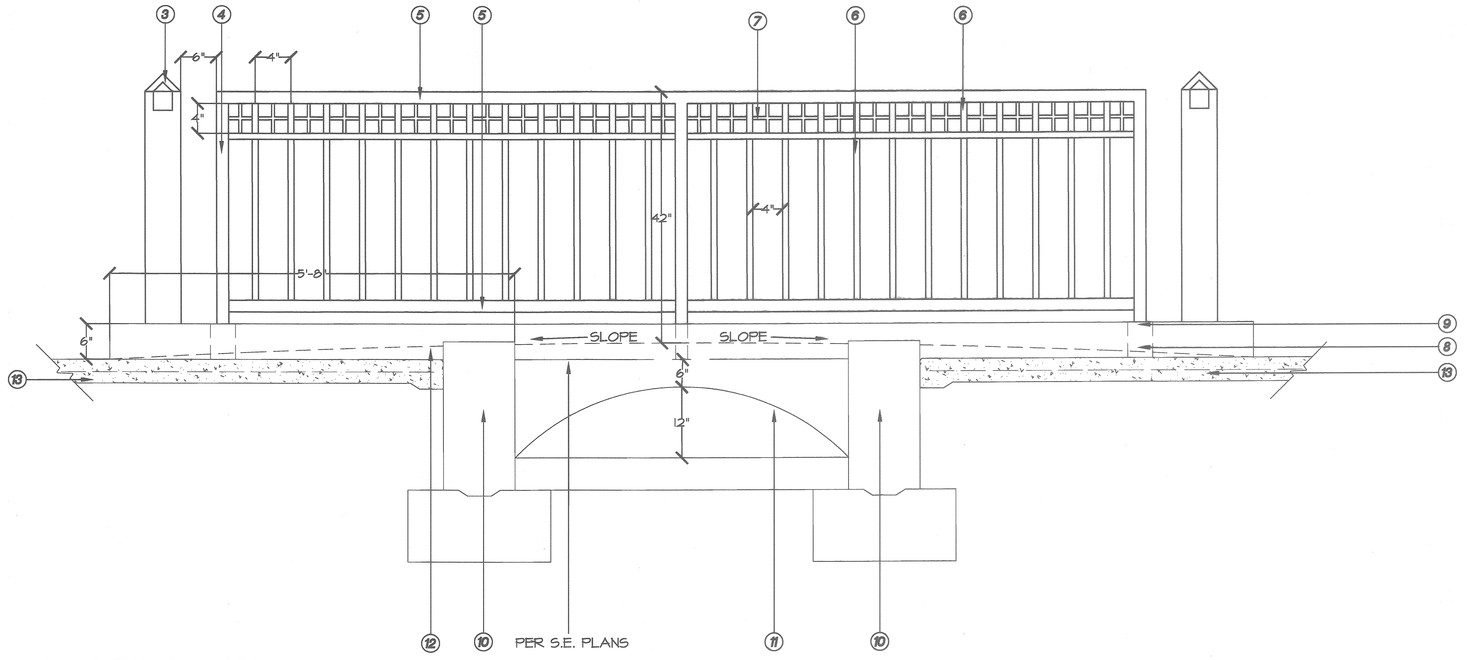
EXISTING FOUNTAIN PLAN VIEW

4' 3' 2' 1' 0 2' 4'

SCALE 1/2"=1'

LEGEND

1. EXISTING FOUNTAIN WATER ELEMENT
2. BRIDGE CROSSING AND RAILINGS
3. LIGHT BOLLARD, SEE ELECTIRCAL PLANS
4. 2" X 2" STEEL POST
5. 2" X 2" STEEL RAILS
6. 1" X 1" STEEL PICKETS @ 5" O.C.
7. ½" X ½" STEEL TRIM ACCENT
8. 3" DIA. CORE DRILL IN CONC. (12" DEEP)
9. EPOXY POST IN PLACE
10. REPAIR WALL TO MATCH EXISTING WALL ADJACENT
11. ARCHWAY (OPEN)
12. BRIDGE ARCH RAMP
13. CONC. PAVING PER DETAIL #F / SHEET #L1.20
14. EXISTING CONC. FOUNTAIN WALL



EXISTING FOUNTAIN SECTION

2' 1.5' 1' 0.5' 0 1' 2'

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E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON #2887
Signature
6/30/09
Exp. Date
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DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

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PUBLIC WORKS DEPARTMENT

	APPROVED BY	BY	DATE
	CONST. CONTRACT ADMIN.		12/5/07
	PRINCIPAL ENGINEER		12/4/07
	STREET SERVICES		
	SURVEYOR		
	TRAFFIC DIVISION		12-6-07
	PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/5/07

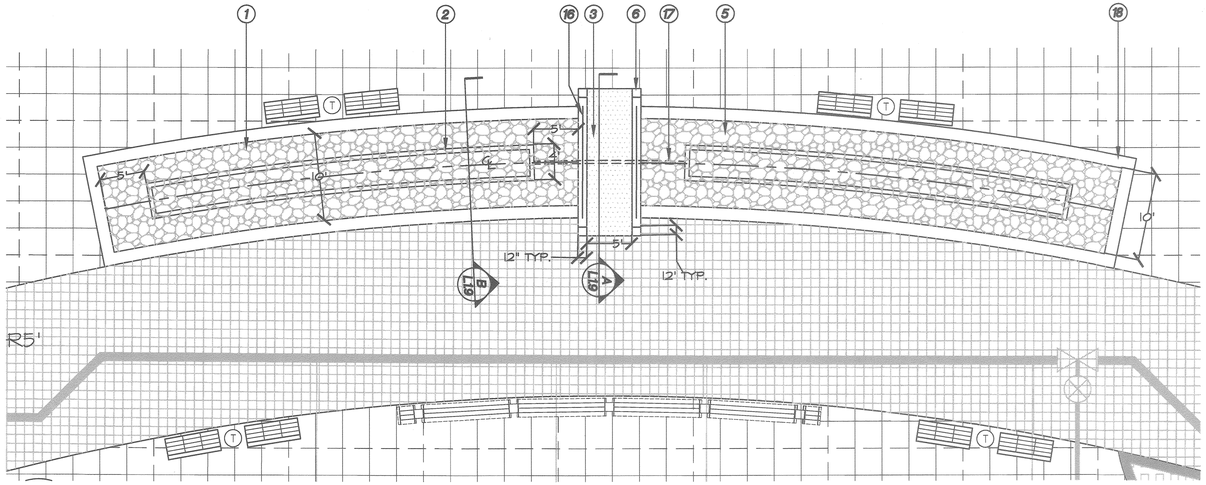
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

FOUNTAIN / BRIDGE
M-457
L1.8

SHEET 33 OF 100

BID SET



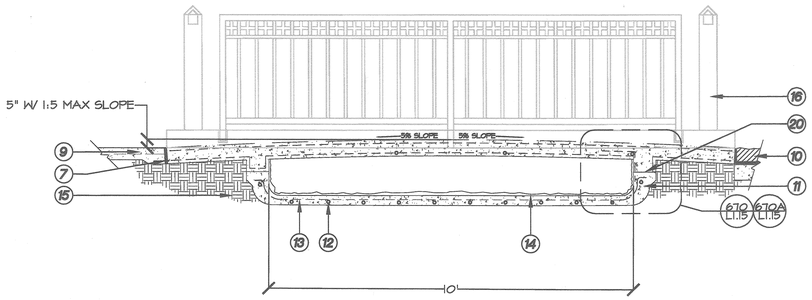
PLAN VIEW

16' 12' 8' 4' 0 8' 16'

SCALE 1/8"=1'

LEGEND

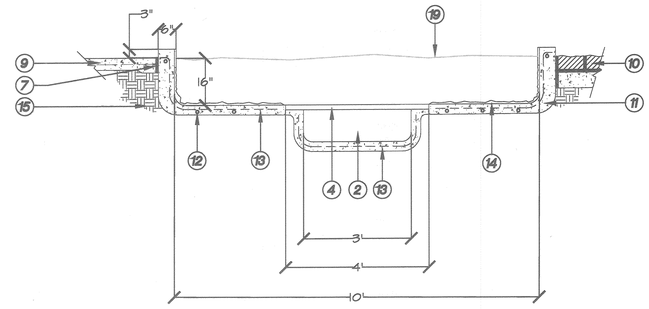
1. FOUNTAIN WATER ELEMENT
2. WATER TROUGH
3. BRIDGE CROSSING AND RAILINGS (CONC. BASE COLOR AND FINISH TO MATCH ADJACENT HARDSCAPE)
4. 48" WIDE FIBERGLASS PLATE, MODEL#MS S-200,BY MCNICHOLS CO. 14108 E. ARBOR PLACE, CERRITOS, CA. 90703 TEL. (562) 921-3344
5. 2'-3' DIA. BOULDER BY SOUTHWEST BOULDER, 5002 2ND STREET, FALLBROOK, CA. 92028 TEL. (760) 451-3335
6. LIGHT BOLLARD, SEE ELECTRICAL PLANS
7. EXPANSION JOINT PER DETAIL #F / SHEET L1.20
8. NOT USED
9. CONC. PAVING PER DETAIL #F / SHEET L1.20
10. PAVERS PER DETAILS #A / SHEET L1.19
11. CONC. FOUNTAIN WALL (CHARCOAL)
12. #3 REBAR @12" O.C. EACH WAY
13. #4 REBAR @ 12" O.C. EACH WAY
14. PEBBLETEC OR EQUIVALENT FINISH. COLOR: MOONLIGHT GREY. CONTACT: (800) 937-5058
15. COMPACTED SUBGRADE (95%)
16. BRIDGE RAILING, SEE DETAIL #B, SHEET L1.21
17. 4" PVC PIPE EQUALIZER
18. FOUNTAIN COPING
19. WATER LINE
20. BOND BREAKER



SECTION A

4' 3' 2' 1' 0 2' 4'

SCALE 1/2"=1'



SECTION B

4' 3' 2' 1' 0 2' 4'

SCALE 1/2"=1'

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
5/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LJD DRAWN BY JM / MA CHECKED BY LJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		12/9/09
PRINCIPAL ENGINEER		12/9/09
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		12-11-09
PARKS DEPARTMENT		

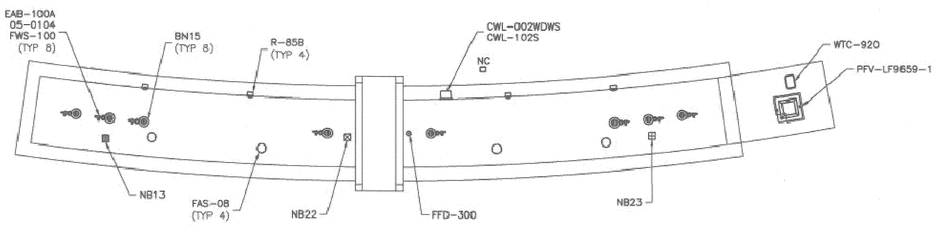
APPROVED BY
CITY ENGINEER
DATE 12/10/09

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

FOUNTAIN / BRIDGE
M-457
L1.9
SHEET 34 OF 100

BID SET



NOTE: FITTINGS "IN POOL" SCALED UP FOR CLARITY

RIVERSIDE DOWNTOWN MALL-BUBBLER FTN. PLAN		
P9659-1GA01	DATE	07-16-07
	SCALE	3/32"=1'
	REV	A
WDB / DIR	DWG NO	P9659-1GA01

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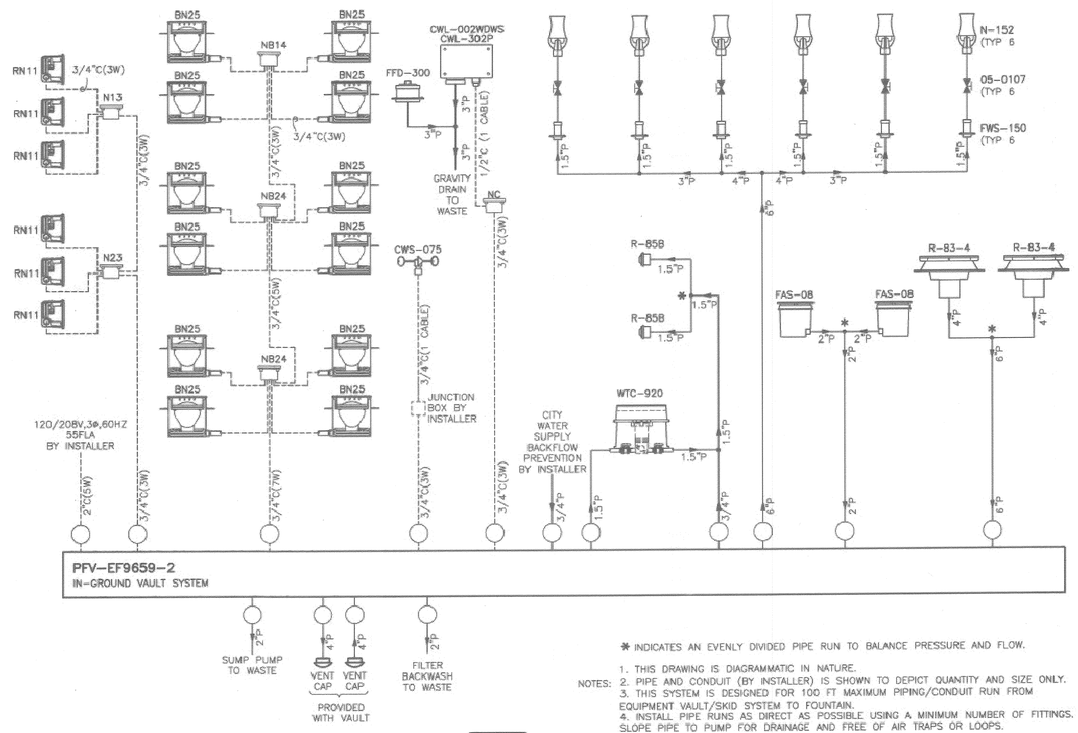

* INDICATES AN EVENLY DIVIDED PIPE RUN TO BALANCE PRESSURE AND FLOW.

NOTES:
1. THIS DRAWING IS DIAGRAMMATIC IN NATURE.
2. PIPE AND CONDUIT (BY INSTALLER) IS SHOWN TO DEPICT QUANTITY AND SIZE ONLY.
3. THIS SYSTEM IS DESIGNED FOR 100 FT MAXIMUM PIPING/CONDUIT RUN FROM EQUIPMENT VAULT/SKID SYSTEM TO FOUNTAIN.
4. INSTALL PIPE RUNS AS DIRECT AS POSSIBLE USING A MINIMUM NUMBER OF FITTINGS. SLOPE PIPE TO PUMP FOR DRAINAGE AND FREE OF AIR TRAPS OR LOOPS.

RIVERSIDE DOWNTOWN MALL-CASCADE FTN. FIELD CONNECTIONS		
P9659-2PD01	DATE	07-16-07
	SCALE	NONE
	REV	
WDB / DIR	DWG NO	P9659-2PD01

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NOTES:
1. THIS DRAWING IS DIAGRAMMATIC IN NATURE.
2. LOCATIONS RECOMMENDED FOR COMPONENTS ARE APPROXIMATE.
3. LOCATION OF PUMPING SYSTEM IS SUBJECT TO SITE CONSIDERATIONS.

RIVERSIDE DOWNTOWN MALL

Design Concept: The visual effects for this water feature will be created by (8) Bubbler Nozzles operating at approximately 6" high. The nozzles will be located in an approximately 104' by 10' fountain basin. Each nozzle will be illuminated from the floor for night viewing.

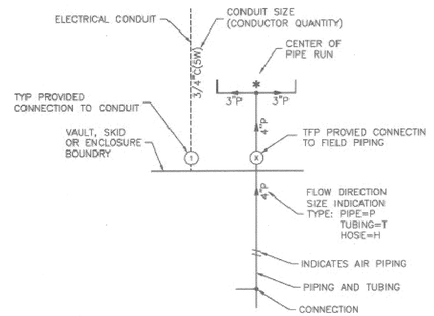
EQUIPMENT LIST:

Qty	Component	Description
1	PFV-LF9659	In-ground Vault System w/: effect pump and strainer; filter pump and strainer; sand filter; backwash discharge; valves; pressure gauges; vacuum gauges; water fill station with hose bib, solenoid valve and isolation valves; check valve for vault drainage; landscape lid; ventilation fan; UL Listed electronic controls including NEMA-12 enclosure, power distribution, GFCI light circuits, motor starters, time clocks, low water cutoff, labeled terminal strips for field connections; System pre-plumbed and pre-wired with sealed vault penetrations. Engineer sealed for in-ground placement.
1	WTC-920	In-Ground Chlorine - Bromine Feeder Assembly including valve box, isolation valves and (7) lb. capacity time release feeder
8	EAB-100A	1" Bubbler Nozzle with Snorkel, Copper and Bronze
4	R-85B	1-1/2" Stream Eyeball Inlet, Cast Bronze
4	FAS-08	8" Anti-Vortex/Diverter Plate, Cast Bronze, w/ABS Sump
1	FFD-300	3" Floor Drain w/Plug and Waterstop, Cast Bronze
8	FWS-100	1" Cast Bronze Waterstop Coupling
8	05-0104	3/4" Ball Valve w/Stainless Handle
1	CWL-002WDWS	Wall Water Level Sensor, Overflow Housing w/ Waterstop, Cast Bronze
1	CWL-102S	Water Level (Cube) Switch w/30' Cord
1	NC	Flush Cast Bronze Junction Box w/(1) 3/4" Bottom Connection, (2) 1/2" Side Connections and Potting Compound
8	BN15	150W, 120V Underwater Cast Bronze Light & Rock Guard, Stainless Steel Niche, w/Lamp
1	NB13	Flush Cast Bronze Junction Box w/(1) 3/4" Bottom Connection, (3) 3/4" Machined Brass Seals and Potting Compound
1	NB22	Flush Cast Bronze Junction Box w/(2) 3/4" Bottom Connections, (2) 3/4" Machined Brass Seals and Potting Compound
1	NB23	Flush Cast Bronze Junction Box w/(2) 3/4" Bottom Connections, (3) 3/4" Machined Brass Seals and Potting Compound
1	DESIGN SERVICES	Schematic drawing to illustrate piping, wiring and utility connections; Installation details for equipment list items; Specifications
3	OPERATION MANUALS	CD-ROM Operation and Maintenance Manuals
1	PERFORMANCE GUARANTEE	Water Effects Performance Guarantee
1	PRODUCT WARRANTY	One Year Equipment Warranty

NOT ALL SYMBOLS ARE USED ON EVERY PROJECT

BASIC DRAWING NOTATIONS

ALL SIZES ARE INCHES UNLESS SPECIFIED OTHERWIDE



NOTES:
1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. REFER TO THE PROJECT PLANS AND SPECIFICATIONS FOR MORE COMPLETE DETAILS.
2. PIPE, FITTINGS, CONDUIT, WIRE, AND TUBING SHALL BE SUPPLIED BY THE CONTRACTOR.
3. CONDUIT LOCATED WITHIN THE POOL BASIN AND STUB-UPS THROUGH POOL FLOOR OR WALLS INTO THE BASIN SHALL BE RED BRASS.
4. INSTALL ONLY STRANDED TYPE COPPER CONDUCTORS WITH WATERPROOF INSULATION BETWEEN UNDERWATER JUNCTION BOXES AND FOUNTAIN CONTROL PANEL. SOLID COPPER CONDUCTORS SHALL NOT BE PERMITTED. CONTRACTOR SHALL SIZE WIRE BASED UPON CONDUIT RUNS AND CODE REQUIREMENTS.
5. REFER TO WIRING DIAGRAMS FOR CONDUCTOR QUANTITY AND CONNECTION INFORMATION.
6. UNDERWATER JUNCTION BOXES LOCATED INSIDE OR OUT OF THE FOUNTAIN BASIN AND BELOW WATER LEVEL, SHALL BE TOTALLY ENCAPSULATED IN AN APPROVED POTTING COMPOUND.
7. MAKE PIPING SLOPE TO THE PUMP FOR DRAINAGE. IF PIPING CANNOT BE SLOPED TO PUMP, MAKE PROVISIONS FOR COMPLETE DRAINING OF EACH PIPE LINE CONNECTING MINIMUM A 1-1/2" DRAIN LINE AND VALVE TO LOWEST POINT IN PIPE RUN.
8. MAKE PIPE RUNS AS DIRECT AS POSSIBLE USING A MINIMUM NUMBER OF FITTINGS. INSTALL PIPING STRAIGHT AND TRUE WITHOUT LOOPS OR TRAPS.
9. PUMP SUCTION PIPING SHALL BE A STRAIGHT RUN INTO THE PUMP FREE OF PIPE BENDS OR TEES FOR A MINIMUM OF TEN PIPE DIAMETERS PRECEDING THE PUMP'S SUCTION CONNECTION UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

FIELD CONNECTIONS SYMBOLS LEGEND		
SYMBOLS LEGEND	DATE	00-00-00
	SCALE	NONE
	REV	
STD	DWG NO	FD01

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RIVERSIDE DOWNTOWN MALL DESIGN CONCEPT - EQUIPMENT LIST			
DSN BWD	CKD EES	SCALE 1=1	DATE 6-19-07

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UNDERGROUND SERVICE ALERT
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227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 5283 - FAX 951 683 4353
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN T. DAVIDSON
Signature
6/30/09
Exp. 08/09
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE _____

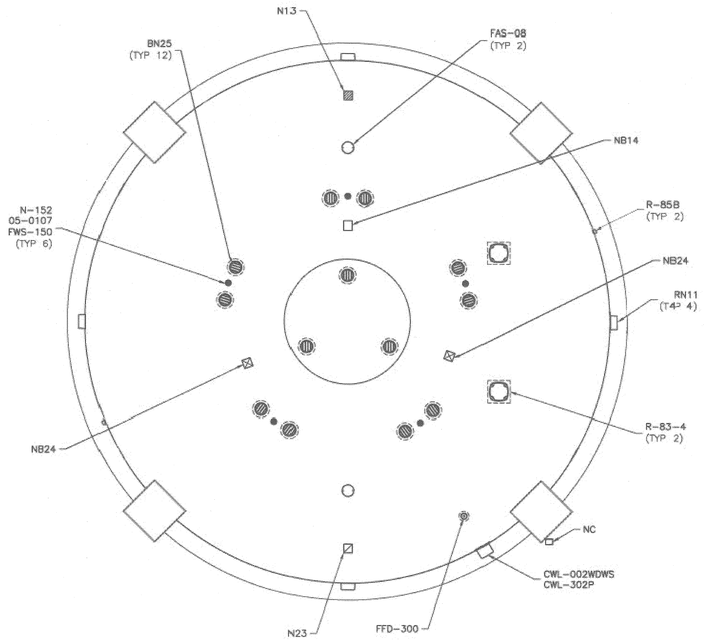
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

LINEAR FOUNTAIN
M-457
L1.10

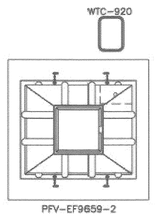
SHEET 35 OF 100

BID SET



CWS-075

LOCATE WIND SENSOR IN THE AREA THAT IS SUBJECT TO THE SAME WIND CONDITIONS AS FOUNTAIN AND IS BEYOND THE REACH OF HUMAN INTERFERENCE.



*LOCATE EQUIPMENT VAULT WITHIN 100 FEET OF THE FOUNTAIN.

NOTES:
1. THIS DRAWING IS DIAGRAMMATIC IN NATURE.
2. LOCATIONS RECOMMENDED FOR COMPONENTS ARE APPROXIMATE.
3. LOCATION OF PUMPING SYSTEM IS SUBJECT TO SITE CONSIDERATIONS.

P9659-2GA01

RIVERSIDE DOWNTOWN MALL-CASCADE FTN.
PLAN

DATE	SCALE	REV	DWG NO
07-17-07	1/4"=1'		P9659-2GA01

DR

THE FOUNTAIN PEOPLE, INC - PO BOX 607 - SAN MARCOS, TX 78667 - 512-392-1155

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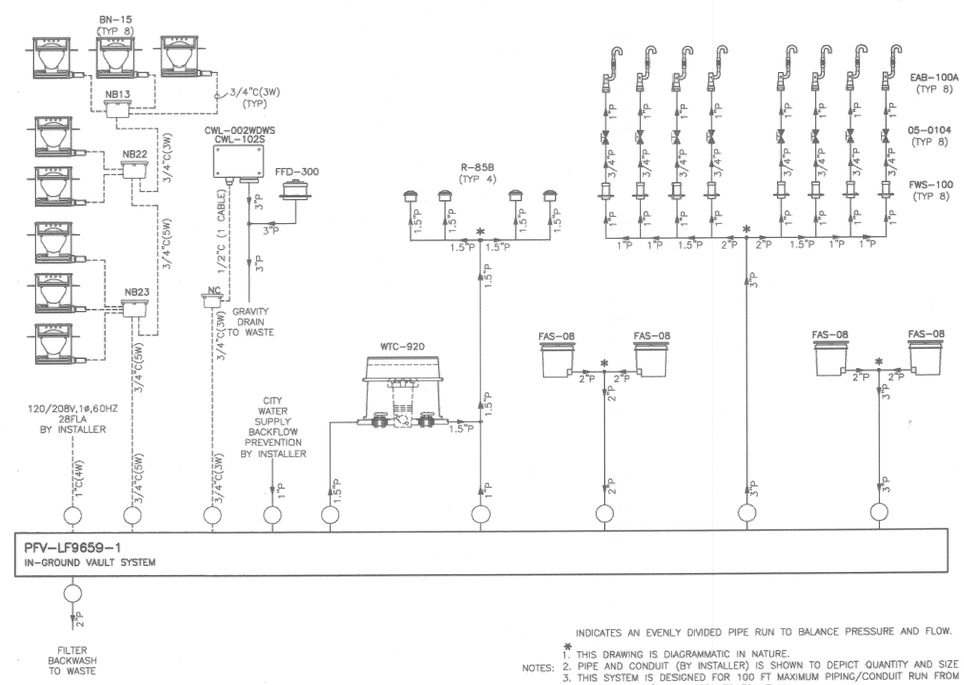

P9659-1PD01

RIVERSIDE DOWNTOWN MALL-BUBBLER FTN.
FIELD CONNECTIONS

DATE	SCALE	REV	DWG NO
07-16-07	NONE	A	P9659-1PD01

WDB
DR

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Fountain People™

* INDICATES AN EVENLY DIVIDED PIPE RUN TO BALANCE PRESSURE AND FLOW.

NOTES:
1. THIS DRAWING IS DIAGRAMMATIC IN NATURE.
2. PIPE AND CONDUIT (BY INSTALLER) IS SHOWN TO DEPICT QUANTITY AND SIZE ONLY.
3. THIS SYSTEM IS DESIGNED FOR 100 FT MAXIMUM PIPING/CONDUIT RUN FROM EQUIPMENT VAULT/SKID SYSTEM TO FOUNTAIN.
4. INSTALL PIPE RUNS AS DIRECT AS POSSIBLE USING A MINIMUM NUMBER OF FITTINGS. SLOPE PIPE TO PUMP FOR DRAINAGE AND FREE OF AIR TRAPS OR LOOPS.

RIVERSIDE DOWNTOWN MALL-CASCADE FOUNTAIN

Design Concept: The visual effects for this water feature will be created by (6) Geyer Nozzles located in a circular pattern, operating at approximately 8' high. Each nozzle will be illuminated from the floor with (2) 250-watt underwater niche lights for night viewing. There are an additional (6) 116-watt underwater niche lights located in the side wall to illuminate the pool.

EQUIPMENT LIST:

Qty	Component	Description
1	PFV-EF9659-2	In-ground Vault System w/: effect pump and strainer; filter pump and strainer; sand filter; backwash discharge; valves; pressure gauges; vacuum gauges; water fill station with hose bib, solenoid valve and isolation valves; sump pump with float switch and check valve for vault drainage; landscape lid; ventilation fan; enamel coated cast iron vent caps; entry ladder; vault interior light and convenience electrical outlet; UL Listed electronic controls including NEMA-12 enclosure, power distribution, GFCI light circuits, motor starters, variable frequency drive, time clocks, HOA switches, low water cutoff, dual stage wind control, labeled terminal strips for field connections; System pre-plumbed and pre-wired with sealed vault penetrations. Engineer sealed for in-ground placement.
1	WTC-920	In-Ground Chlorine - Bromine Feeder Assembly including valve box, isolation valves and (7) lb. capacity time release feeder
6	N-152	1-1/2" Geyser Nozzle, Machined Cast Bronze
2	R-85B	1-1/2" Stream Eyeball Inlet, Cast Bronze
2	FAS-08	8" Anti-Vortex/Diverter Plate, Cast Bronze, w/ABS Sump
2	R-83-4	13" Anti-Vortex/Diverter FRP Sump w/Cast Bronze Plate
1	FFD-300	3" Floor Drain w/Plug and Waterstop, Cast Bronze
6	FWS-150	1-1/2" Cast Bronze Waterstop Coupling
6	05-0107	1-1/2" Ball Valve w/Stainless Handle
1	CWL-002WDWS	Wall Water Level Sensor, Overflow Housing w/ Waterstop, Cast Bronze
1	CWL-302P	Operating Water Level Sensor w/30' Cord
1	CWS-075	Wind Speed Sensor
1	NC	Flush Cast Bronze Junction Box w/(1) 3/4" Bottom Connection, (2) 1/2" Side Connections and Potting Compound
12	BN25	250W, 120V Directional Underwater Cast Bronze Light & Rock Guard, Stainless Steel Niche, w/Lamp
4	RN11	116W, 120V Directional Underwater Light and Bronze Niche w/Lamp
1	N13	Flush Cast Bronze Junction Box w/(1) 3/4" Side Connection, (3) 3/4" Machined Brass Seals and Potting Compound
1	N23	Flush Cast Bronze Junction Box w/(2) 3/4" Side Connections, (3) 3/4" Machined Brass Seals and Potting Compound
1	NB14	Flush Cast Bronze Junction Box w/(1) 3/4" Bottom Connection, (4) 3/4" Machined Brass Seals and Potting Compound
2	NB24	Flush Cast Bronze Junction Box w/(2) 3/4" Bottom Connections, (4) 3/4" Machined Brass Seals and Potting Compound

Qty	Component	Description
1	DESIGN SERVICES	Schematic drawing to illustrate piping, wiring and utility connections; Installation details for equipment list items; Specifications
3	OPERATION MANUALS	CD-ROM Operation and Maintenance Manuals
1	PERFORMANCE GUARANTEE	Water Effects Performance Guarantee
1	PRODUCT WARRANTY	One Year Equipment Warranty

PERFORMANCE GUARANTEE

The Fountain People, Inc. shall guarantee the performance of the fountain design to produce the specified water effects provided all equipment is purchased and installed per our recommendations and all of the architectural details we provide are incorporated into the fountain installation. In the event that others have provided the system design or our recommendations are not utilized, guarantee shall be limited to the performance of the furnished equipment only.

PRODUCT WARRANTY

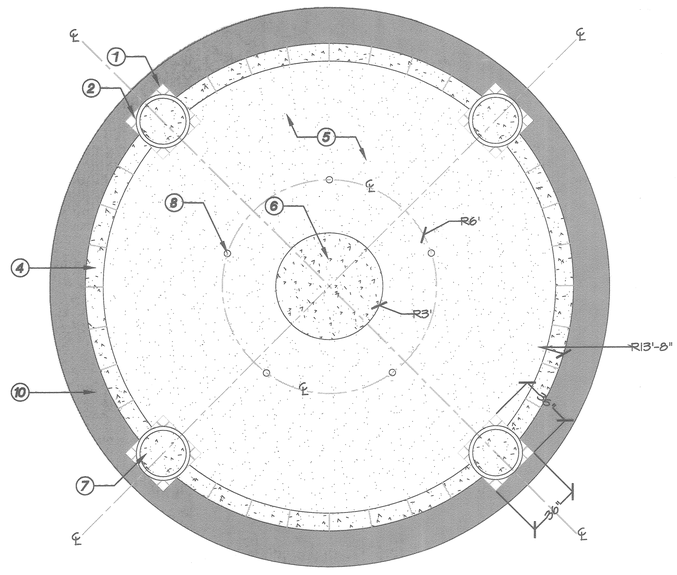
The Fountain People, Inc. shall warrant all properly installed and maintained equipment (except lamps) for a period of one year from date of original shipment. For systems with a factory start-up, the warranty shall extend 18 months from date of original shipment or one year from date of start-up, whichever comes first. The Fountain People, Inc., at their option, shall replace or repair any materials, components, or workmanship found to be defective within the warranty period when returned to the factory, freight pre-paid. No component may be returned to The Fountain People, Inc. for repair or replacement without an approved return materials authorization.

This warranty does not include damage resulting from lightning, vandalism, improper maintenance, operator error, or other conditions beyond the control of The Fountain People, Inc., nor labor, freight charges, or incidental materials required to facilitate fountain repairs. The Fountain People, Inc. shall not be held liable for damage to other equipment or materials, loss of time, profits, or any inconvenience directly or indirectly resulting from the failure of equipment or materials furnished by The Fountain People, Inc.

No other warranty, expressed or implied, including the warranties of merchantability exists beyond that included in this statement.

NOTE:

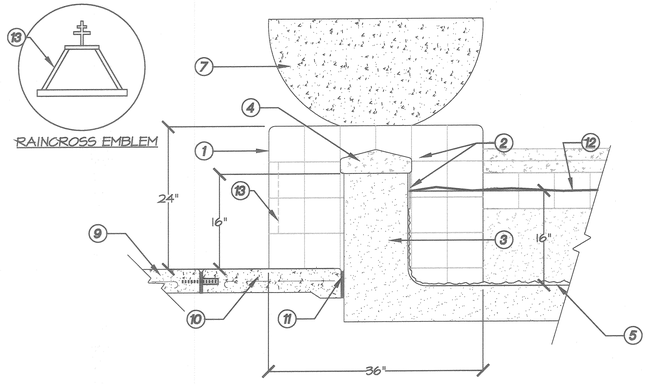
FOR ABOVE GROUND BOND BEAM SEE DETAIL #7 / L1.14



A CIRCULAR FOUNTAIN PLAN

8' 6' 4' 2' 0 4' 8'

SCALE 1/4"=1'



B CIRCULAR FOUNTAIN SECTION

24" 18" 12" 6" 0 12" 24"

SCALE 1"=1'

LEGEND

1. TILE PODIUM
2. 6" X 6" CERAMIC TILE BY DALTILE
   MODEL: DM14 COBALT
   CONTACT: 1132 DURYEA, IRVINE, CA. 92614
   (949) 757-7060
3. POOL WALL, SEE DETAIL F / SHEET L1.21
4. CUSTOM PRECAST CONCRETE CAP BY QUICKCRETE
   COLOR: CHARCOAL INTEGRAL COLOR, FINISH: T1
   CONTACT: 731 PARKRIDGE AVE., NORCO, CA. 92860
   (951) 737-6240
   PER DETAIL #F / SHEET #L1.21
5. PEBBLETEC OR EQUIVALENT FINISH. COLOR: JET BLACK.
   CONTACT: (800) 937-5058
6. DISPLAY PODIUM PER DETAIL 1 / SHEETL1.21
7. CONCRETE POT. QR-CE 3618P. BY QUICK CRETE, SEE DETAIL #L / SHEET L1.19
8. GEYSER NOZZLE PER CASCADE FOUNTAIN PLAN / SHEET L1.11
9. CONC. PAVING PER DETAIL #F / SHEET L1.20
10. CONC. BAND PER DETAIL #B / SHEET L1.20
11. EXPANSION JOINT PER DETAIL #J / SHEET L1.20
12. WATER LINE
13. PRECAST CONC.-RAINCROSS EMBLEM BY QUICKCRETE.
    COLOR: CHARCOAL
    TO BE ATTACHED TO PODIUM FACING AWAY FROM FOUNTAIN

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 50TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4322
E-MAIL: IDAVIDSON@SBCGLOBAL.NET

REGISTERED LANDSCAPE ARCHITECT
IAN D. DAVIDSON
Signature
5/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 4/5/07

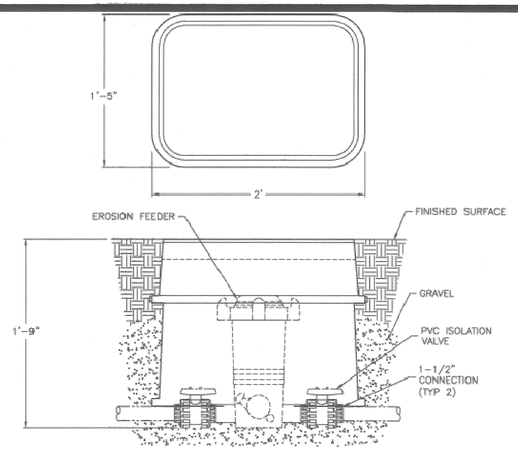
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

CIRCULAR FOUNTAIN
M-457
L1.11

SHEET 36 OF 100

BID SET

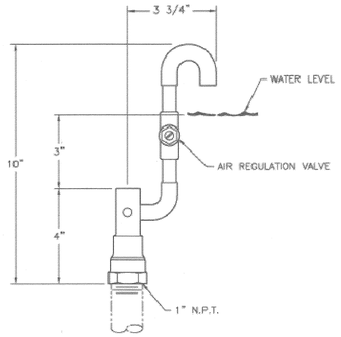


NOTE: PIPE BY INSTALLER

WTC-920
CHLORINE - BROMINE TREATMENT ASSEMBLY

Fountain People™ | CHLORINE-BROMINE TREATMENT ASSEMBLY DETAIL | DWG NO WTC-920 | REV | SCALE N.T.S. | DATE – – | SHT WTC-920
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

G TREATMENT ASSEMBLY DETAIL — SCALE NTS

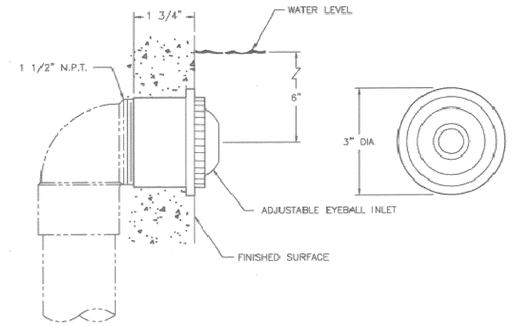


NOTE: PIPE BY INSTALLER

EAB-100A
BUBBLER

Fountain People™ | NOZZLE DETAIL | DWG NO EAB-100A | REV | SCALE 1=3 | DATE – – | SHT EABLOCK
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

F BUBBLER DETAIL — SCALE NTS

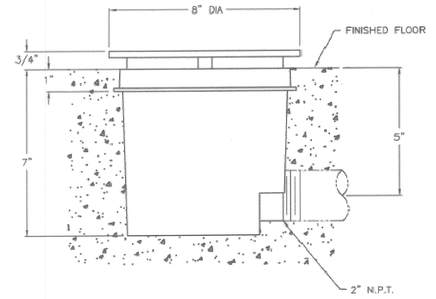


NOTE: PIPE BY INSTALLER

R-85B
ADJUSTABLE STREAM EYEBALL INLET

Fountain People™ | FITTING DETAIL | DWG NO R-85B | REV | SCALE 1=2 | DATE – – | SHT R-85B
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

C ADJ. STREAM EYEBALL INLET — SCALE NTS

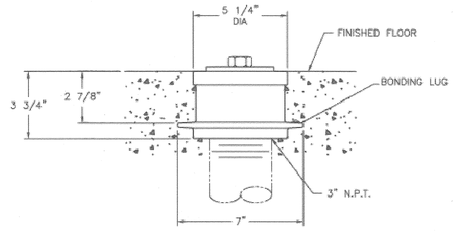


NOTE: PIPE BY INSTALLER

FAS-08
ANTI-VORTEX/DIVERTER PLATE WITH SUMP

Fountain People™ | FITTING DETAIL | DWG NO FAS-08 | REV | SCALE 1=3 | DATE – – | SHT FAS-08
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

A ANTI-VORTEX PLATE W/ SUMP — SCALE NTS

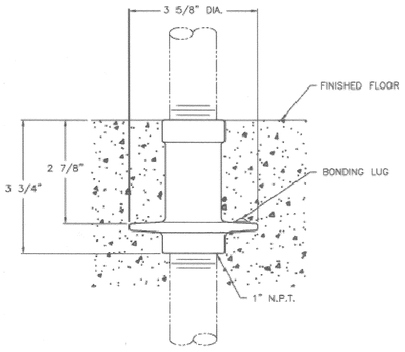


NOTE: PIPE BY INSTALLER

FFD-300
FLOOR DRAIN WITH PLUG

Fountain People™ | FITTING DETAIL | DWG NO FFD-300 | REV | SCALE 1=4 | DATE – – | SHT FFD-300
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

H FLOOR DRAIN W/ PLUG DETAIL — SCALE NTS

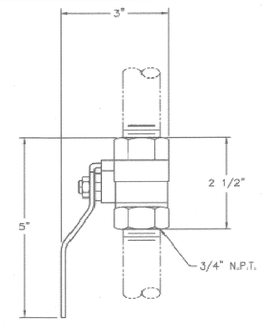


NOTE: PIPE BY INSTALLER

FWS-100
WATERSTOP COUPLING

Fountain People™ | FITTING DETAIL | DWG NO FWS-100 | REV | SCALE 1=2 | DATE – – | SHT FWS-100
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

F WATERSTOP COUPLING DETAIL — SCALE NTS

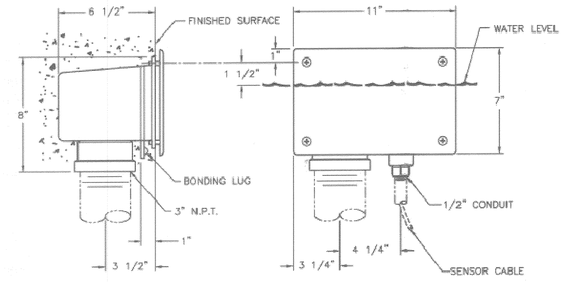


NOTE: PIPE BY INSTALLER

05-0104
BALL VALVE

Fountain People™ | VALVE DETAIL | DWG NO 05-0104 | REV | SCALE 1=2 | DATE – – | SHT 05-0104
THE FOUNTAIN PEOPLE, INC - PO BOX 807 - SAN MARCOS, TX 78667 - 512-392-1155

D BALL VALVE DETAIL — SCALE NTS



NOTE: PIPE AND CONDUIT BY INSTALLER

CWL-002WDWS
WALL WATER LEVEL SENSOR OVERFLOW HOUSING

Fountain People™ | SENSOR HOUSING DETAIL | DWG NO CWL-002WDWS | REV | SCALE 1=5 | DATE – – | SHT CWL-002WDWS
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B SENSOR HOUSING DETAIL — SCALE NTS

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1263 - FAX 951.683.4303
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 — REG. 5978 — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		12/5/07
PRINCIPAL ENGINEER		12/5/07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		12-9-07
PARKS DEPARTMENT		

APPROVED BY — CITY ENGINEER — DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

FOUNTAIN DETAILS
M-457
L1.12

SHEET 37 OF 100

BID SET

INSTALLATION INSTRUCTIONS
(BALLAST SLAB RECOMMENDED IN AREAS WITH HIGH WATER TABLE OR POOR DRAINAGE)

Receiving the Vault
Upon arrival of vault, check both interior and exterior for shipping damage. Report any damage found to the freight carrier and Fountain People, Inc. immediately. If vault is free of damage, proceed with installation. If equipment vault is not to be installed immediately, store in a covered area safe from flooding. If a sand filter is used, filtration sand must be provided and installed by others.

Excavation
Excavate as required and pour a flat ballast slab of size indicated on the drawing. Ballast slab should be reinforced with grid using #4 re-bar on 12" centers. Stainless steel anchor hooks should be tied to the reinforcing grid and located as detailed.

Installing the Vault in the Excavation
Rig vault with straps, taking care not to damage housing or piping connections. Do not use chains or cables to rig vault. Lower vault onto the ballast slab and secure using stainless steel hardware. If the vault is to be secured with cables, loop the stainless steel anchor cables (provided) around slab anchor hooks and through the tie-down lugs on vault. Secure cables with the connection hardware provided. Remove slack from the cables then tighten the cable clamps to the torque rating indicated on the thimble tag provided. Do not over-tighten the cables.

Safeguarding the Vault
If the vault is equipped with forced air ventilation, sump pumps, or gravity drains, these must be connected and made operational immediately. Do not allow excavation to fill with water prior to backfilling as the vault may flood through an opening or attempt to float and damage fittings or anchoring hardware.

Connecting the Vault
Connect all piping and conduit, as required, to connections provided on vault exterior. Do not externally load the vault connections or allow the connections to support the weight of the connected piping. If the piping is not supported properly, soil settling can result in excessive loading on the piping. This can result in broken piping and misaligned connections in the vault.

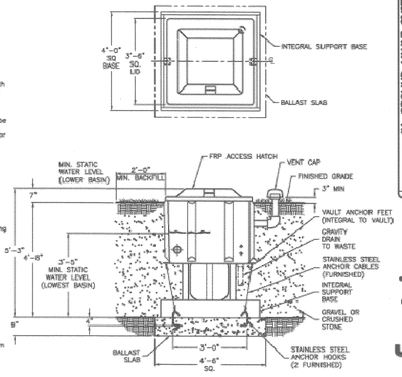
Wiring the Vault
Conduit wiring must be sealed to prevent water from entering the vault through the conduit.

Pressure Testing
Pressure test all piping connected to vault to insure there are no leaks. All equipment and piping within vault has been factory pressure tested. Do not exceed 30 PSI in pressure testing any piping connected to vault.

Backfilling
When backfilling, protect open ends of all piping to prevent backfill material from entering the piping system. Backfill material should be a rounded gravel or crushed stone (3/4" Max. and less than 5% fines). There should be at least 2'-0" of backfill material on all sides of vault between the vault and the surrounding earth. The top of the access hatch should be above finished grade (as indicated on the drawing) and located in an area that is safe from flooding. DO NOT USE SAND OR DIRT FOR BACKFILL. If the surrounding earth has poor drainage provide some means for water to drain away from the vault.

FAILURE TO FOLLOW ALL THE ABOVE PROCEDURES COULD RESULT IN SERIOUS DAMAGE TO THE EQUIPMENT AND WILL VOID THE WARRANTY ON THIS PRODUCT.

For any questions concerning these installation instructions or the installation of the vault system please contact Fountain People, Inc. at (512) 392-1155.



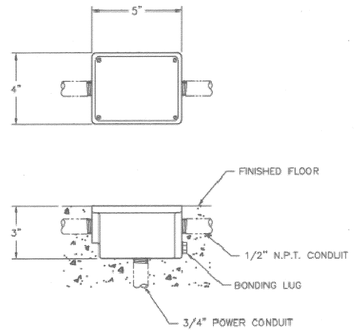
PFV-LF9659
IN-GROUND VAULT

1. INTERCONNECTING PIPE, CONDUIT AND WIRE BY INSTALLER

IN-GROUND VAULT SYSTEM
LF-VAULT INSTALLATION INSTRUCTIONS

Fountain People™

G IN-GROUND VAULT SYSTEM — SCALE: NTS



NOTE: CONDUIT BY INSTALLER

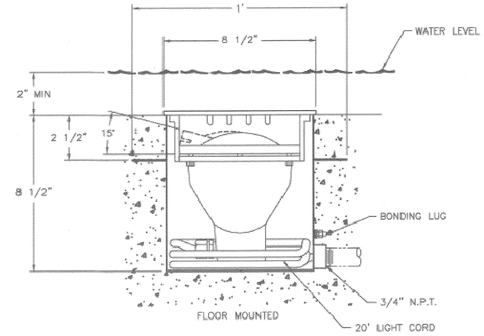
NC
FLUSH JUNCTION BOX

Fountain People™

SIZE	JUNCTION BOX DETAIL				DWG NO.
CAD DWG	NC	REV	SCALE 1=4	DATE – –	NC

THE FOUNTAIN PEOPLE, INC – PO BOX 807 – SAN MARCOS, TX 78667 – 512-392-1155

E FLUSH JUNCTION BOX - NC — SCALE: NTS



NOTE: CONDUIT BY INSTALLER

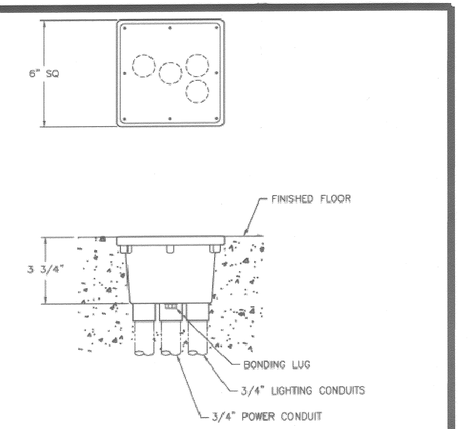
BN15
NICHE LIGHT

Fountain People™

SIZE	LIGHT DETAIL				DWG NO.
CAD DWG	BN15	REV	SCALE 1=4	DATE – –	BN15

THE FOUNTAIN PEOPLE, INC – PO BOX 807 – SAN MARCOS, TX 78667 – 512-392-1155

C NICHE LIGHT DETAIL — SCALE: NTS



NOTE: CONDUITS BY INSTALLER

NB13
FLUSH JUNCTION BOX

Fountain People™

SIZE	JUNCTION BOX DETAIL				DWG NO.
CAD DWG	NB13	REV	SCALE 1=4	DATE – –	NB13

THE FOUNTAIN PEOPLE, INC – PO BOX 807 – SAN MARCOS, TX 78667 – 512-392-1155

B FLUSH JUNCTION BOX - NB13 — SCALE: NTS

WATER FEATURE SPECIFICATION NOTES

THE INSTALLER SHALL BE RESPONSIBLE FOR PURCHASING WATER FEATURE COMPONENTS, AS WELL AS PROVIDING LABOR AND MATERIALS REQUIRED EFFECTING THE INSTALLATION OF THE OPERATIONAL SYSTEMS AS DETAILED IN THE PLANS AND SPECIFICATIONS.

THE PRIME WATER FEATURE INSTALLER SHALL FURNISH FOUNTAIN ELECTRICAL COMPONENTS TO THE ELECTRICAL INSTALLER FOR INSTALLATION AND CONNECTION.

A SINGLE MANUFACTURER SHALL SUPPLY ELECTRICAL AND MECHANICAL WATER FEATURE COMPONENTS IN ORDER TO ENSURE THE INTEGRITY OF THE WATER FEATURE DESIGN.

THE WATER FEATURE EQUIPMENT SHALL BE AS DESIGNED AND MANUFACTURED BY FOUNTAIN PEOPLE, INC., P.O. BOX 807, 4600 HWY 123 EAST, SAN MARCOS, TX 78666. (512) 392-1155.

SUBSTITUTION OF WATER FEATURE MATERIALS SHALL REQUIRE WRITTEN APPROVAL BY THE PROJECT ARCHITECT OR LANDSCAPE ARCHITECT. INSTALLERS OFFERING SUBSTITUTIONS SHALL SUBMIT THREE COPIES OF THE FOLLOWING DATA AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL:

1. COMPLETE WATER FEATURE SYSTEM FLOW DIAGRAM.
2. COMPLETE WATER FEATURE ELECTRICAL CONTROL PANEL LADDER LOGIC DIAGRAMS.
3. A COMPLETE BILL OF MATERIALS ALONG WITH SPECIFICATION CUTS OF PROPOSED SUBSTITUTE ITEMS.
4. A WRITTEN DESCRIPTION OF THE WATER FEATURE'S OPERATIONAL CYCLE.
5. A WRITTEN PERFORMANCE GUARANTEE BY THE ALTERNATE SYSTEM MANUFACTURER CERTIFYING THAT THE ALTERNATE SYSTEM WILL MEET THE SPECIFIED DESIGN CONCEPT AND PERFORMANCE REQUIREMENTS.

FAILURE TO SUBMIT FOR PRIOR APPROVAL OF SUBSTITUTIONS WILL BE GROUNDS FOR REJECTION.

WITH TEN WORKING DAYS OF AWARD OF CONTRACT, INSTALLER SHALL SUBMIT FIVE COPIES OF MANUFACTURERS' DETAILED DATA SHEETS AND SUBMITTAL DRAWINGS OF WATER FEATURE COMPONENTS FOR APPROVAL PRIOR TO INSTALLATION.

UPON COMPLETION OF THE PROJECT, INSTALLER SHALL PROVIDE THREE COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS. MANUALS SHALL BE PROVIDED ON COMPACT DISCS WITH ALL PORTIONS IN A PRINTABLE FORMAT, AND SHALL INCLUDE OPERATING AND MAINTENANCE PROCEDURES ALONG WITH MANUFACTURERS' DATA SHEETS AND SYSTEM DRAWINGS.

GENERAL NOTES

THE WATER FEATURE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INTENDED TO INDICATE THE SCOPE OF THE WORK TO BE DONE. EQUIPMENT AND MATERIAL LOCATIONS MAY BE DISTORTED FOR CLARITY IN PRESENTATION.

QUESTIONS PERTAINING TO WORK THAT DOES NOT APPEAR TO BE SUFFICIENTLY DETAILED OR EXPLAINED, OR PERTAINING TO THE TRUE MEANING OF A PART OF THE DRAWINGS OR SPECIFICATIONS, OR DISCREPANCIES FOUND EXISTING IN OR BETWEEN THE SPECIFICATIONS AND DRAWINGS, SHALL BE REFERRED TO THE ARCHITECT OR LANDSCAPE ARCHITECT FOR CLARIFICATION.

ITEM NUMBERS CORRESPOND TO THE BILL OF MATERIALS AND SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER. THE INSTALLER SHALL FURNISH OTHER MATERIALS, LABOR, TOOLS, EQUIPMENT, APPARATUS, AND SERVICES, WHICH ARE REQUIRED TO COMPLETE THE INSTALLATION OF THE WATER FEATURE SYSTEM.

MECHANICAL

1. THIS INSTALLATION SHALL COMPLY WITH LOCAL PLUMBING CODES.
2. PIPING LOCATED WITHIN A POOL BASIN, AND STUB-UPS THROUGH A POOL FLOOR OR WALLS OF A BASIN, SHALL BE OF BRASS PIPE, TYPE K COPPER TUBING OR STAINLESS STEEL.
3. INSTALLER SHALL SUPPLY WATERSTOP PROTECTION FOR PIPING PENETRATING POOL FLOOR OR WALLS AND FOR FITTINGS CAST THEREIN UNLESS OTHERWISE SPECIFIED WITHIN THESE DRAWINGS AND EQUIPMENT LISTS.
4. INTERCONNECTING PIPE AND FITTINGS BETWEEN THE POOL BASIN AND THE PUMP EQUIPMENT ROOM SHALL BE OF COPPER, MINIMUM-SCHEDULE 40 PVC, STAINLESS STEEL OR FIBERGLASS.
5. PRESSURIZED POTABLE WATER LINES SUPPLYING THE WATER FEATURE SYSTEM SHALL BE OF COPPER AND SHALL BE PROTECTED BY A BACKFLOW PREVENTION DEVICE AND PRESSURE REDUCTION VALVE SET AT 50 PSI MAXIMUM.
6. PIPING RUNS SHALL BE MADE AS DIRECT AS POSSIBLE USING THE MINIMUM NUMBER OF FITTINGS. PIPE SHALL SLOPE TO THE PUMP FOR DRAINAGE AND SHALL BE FREE OF TRAPS OR LOOPS THAT COULD TRAP WATER OR AIR.
7. PUMP SUCTION INTAKE AND SUCTION PIPING SHALL BE ROUTED TO AN ELEVATION BELOW THE WATER LEVEL OF THE LOWEST BASIN SO THAT BOTH THE PUMP AND THE SUCTION PIPING ARE COMPLETELY FLOODED WHEN THE WATER FEATURE SYSTEM IS FILLED UNLESS OTHERWISE SPECIFIED HEREIN.
8. PIPING SHALL BE PRESSURE TESTED PRIOR TO BACK-FILLING AND SHALL BE PROPERLY SUPPORTED.
9. INSTALLER SHALL PROVIDE DRAINAGE AND VENTILATION IN AN EQUIPMENT PUMP ROOM IN ORDER TO PREVENT FLOODING, CONDENSATION, OR OVER-HEATING OF EQUIPMENT.

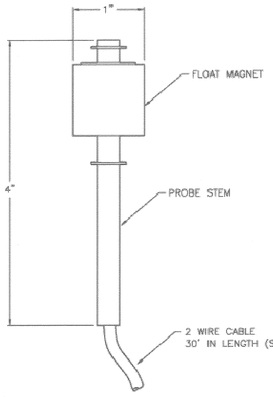
ELECTRICAL

1. UNDERWATER ELECTRICAL EQUIPMENT CAN CAUSE FATAL ELECTRICAL SHOCK IF NOT INSTALLED PROPERLY. THIS INSTALLATION HAS BEEN DESIGNED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 680. INSTALLER SHALL INSTALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 680 AND LOCAL ELECTRICAL CODES.
2. A CLASS 'A' GROUND FAULT CIRCUIT INTERRUPTER (GFCI) SHALL BE INSTALLED ON CIRCUITS THAT HAVE AN OPERATING VOLTAGE GREATER THAN 15 VOLTS AND THAT SUPPLY WATER FEATURE EQUIPMENT LOCATED WITHIN BASINS. EQUIPMENT OPERATING AT LESS THAN 15 VOLTS SHALL BE PROTECTED BY A TRANSFORMER WHICH IS UL LISTED AND MARKED FOR THE APPLICATION.
3. UNLESS UL LISTED FOR EITHER WET OR DRY OPERATION, UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED SO THAT THEY ARE SUBMERGED WHEN IN OPERATION, SHALL BE PROTECTED BY A LENS GUARD IF POINTED UPWARD, AND SHALL BE PROTECTED BY AN INTEGRAL THERMAL CUTOFF DEVICE TO PREVENT OVERHEATING.
4. UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED WITH SUFFICIENT CORD LENGTH TO ALLOW REMOVAL FROM THE WATER FOR RELAMPING AND NORMAL MAINTENANCE WITHOUT LOWERING THE BASIN WATER LEVEL.
5. UNDERWATER JUNCTION BOXES SHALL BE EQUIPPED WITH THREADED CONDUIT ENTRIES AND STRAIN RELIEF SEALS FOR CORD ENTRY. STRAIN RELIEF SEALS SERVING NICHE MOUNTED FIXTURES SHALL MAKE PROVISION FOR BOTH THE FIXTURE CORD AND AN AWG # 8 COPPER BONDING WIRE WHEN REQUIRED BY LOCAL CODE.
6. UNDERWATER JUNCTION BOXES, OR JUNCTION BOXES MOUNTED OUTSIDE THE BASIN BUT BELOW THE WATER LEVEL, SHALL BE POTTED USING 3M "DELLA" 8583 RE-ENTERABLE POTTING COMPOUNDS. CONDUIT ENTRIES SHALL BE SEALED PRIOR TO POTTING THE JUNCTION BOX TO PREVENT POTTING COMPOUND FROM ENTERING THE CONDUIT SYSTEM.
7. STUB-UPS FOR CONDUIT MOUNTED UNDERWATER JUNCTION BOXES MUST BE OF RED BRASS PIPE OR STAINLESS STEEL. NON-METALLIC CONDUIT MAY NOT BE USED FOR SUPPORT OF JUNCTION BOXES.
8. WIRE PULLED BETWEEN WATER FEATURE ELECTRICAL CONTROLS PANELS AND UNDERWATER JUNCTION BOXES SHALL BE OF STRANDED COPPER. WATER-RESISTANT TYPE SELECTED AND SIZED FOR THE APPLICATION.
9. CONDUIT SHALL BE SEALED TO PREVENT ENTRY OF MOISTURE AND TO PREVENT WATER FROM DRAINING INTO THE WATER FEATURE ELECTRICAL CONTROL PANELS.

WATER FEATURE GENERAL SPECIFICATION
ELECTRICAL/MECHANICAL DESIGN NOTES
DWN CHKD 01-00-00

Fountain People™

H WATER FEATURE GENERAL SPECIFICATION — SCALE: NTS



CWL-102S
WATER LEVEL SWITCH

Fountain People™

SIZE	SENSOR DETAIL				DWG NO.
CAD DWG	CWL-102S	REV	SCALE 1=1	DATE – –	CWL-102S

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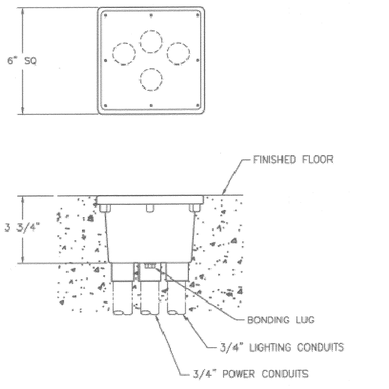
F WATER LEVEL SWITCH — SCALE: NTS



NOTE: CONDUIT BY INSTALLER

NB22
FLUSH JUNCTION BOX

Fountain People™

SIZE	JUNCTION BOX DETAIL				DWG NO.
CAD DWG	NB22	REV	SCALE 1=4	DATE – –	NB22

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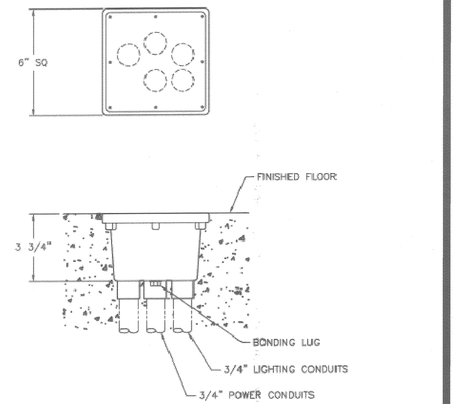
D FLUSH JUNCTION BOX - NB22 — SCALE: NTS



NOTE: CONDUIT BY INSTALLER

NB23
FLUSH JUNCTION BOX

Fountain People™

SIZE	JUNCTION BOX DETAIL				DWG NO.
CAD DWG	NB23	REV	SCALE 1=4	DATE – –	NB23

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B FLUSH JUNCTION BOX - NB23 — SCALE: NTS

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3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4312
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON #2987
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE _____

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

FOUNTAIN DETAILS
M-457
L1.13

SHEET 38 OF 100

BID SET

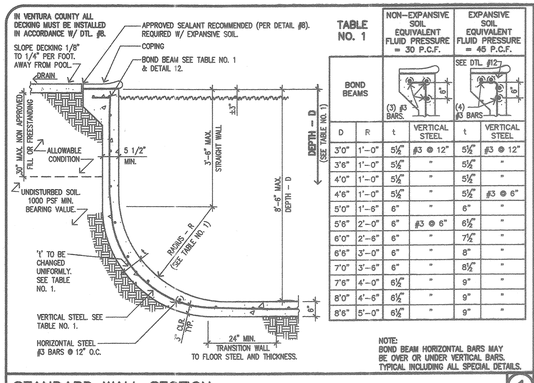
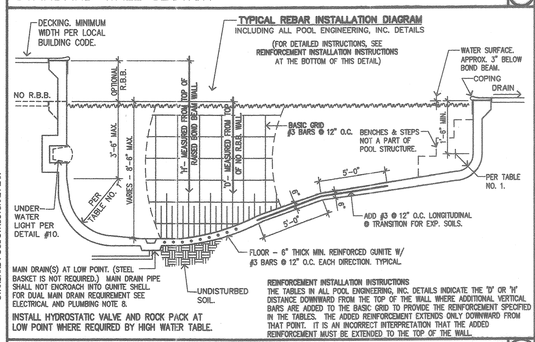


TABLE NO. 1

BOND BEAMS			NON-EXPANSIVE SOIL EQUIVALENT FLUID PRESSURE = 30 P.C.F. (3) #3 BARS.		EXPANSIVE SOIL EQUIVALENT FLUID PRESSURE = 45 P.C.F. SEE DTL. #12. (4) #3 BARS	
D	R	t	VERTICAL STEEL	t	VERTICAL STEEL	
3'-0"	1'-0"	5½"	#3 @ 12"	5½"	#3 @ 12"	
3'-6"	1'-0"	5½"	"	5½"	"	
4'-0"	1'-0"	5½"	"	5½"	"	
4'-6"	1'-0"	5½"	"	5½"	#3 @ 6"	
5'-0"	1'-6"	6"	"	6"	"	
5'-6"	2'-0"	6"	#3 @ 6"	6½"	"	
6'-0"	2'-6"	6"	"	7½"	"	
6'-6"	3'-0"	6"	"	8"	"	
7'-0"	3'-6"	6"	"	8½"	"	
7'-6"	4'-0"	6½"	"	9"	"	
8'-0"	4'-6"	6½"	"	9"	"	
8'-6"	5'-0"	6½"	"	9"	"	

NOTE: BOND BEAM HORIZONTAL BARS MAY BE OVER OR UNDER VERTICAL BARS. TYPICAL INCLUDING ALL SPECIAL DETAILS.

STANDARD WALL SECTION — 1



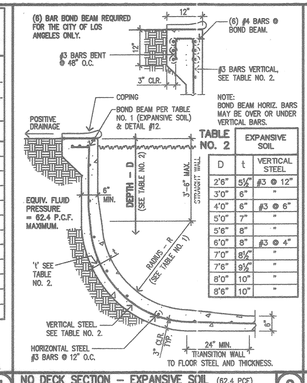
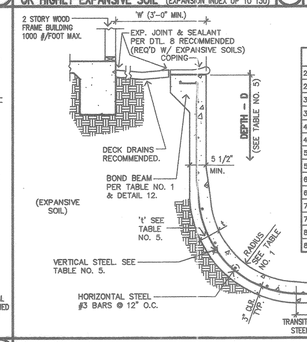


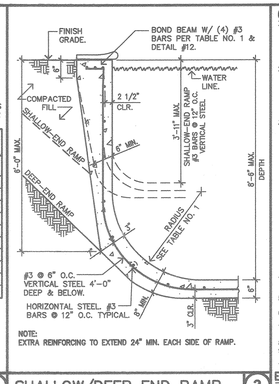
TABLE NO. 2

D	t	EXPANSIVE VERTICAL STEEL
2'-6"	5½"	#3 @ 12"
3'-0"	6"	"
4'-0"	6"	#3 @ 6"
5'-0"	7"	"
5'-6"	8"	"
6'-0"	8"	#3 @ 4"
7'-0"	8½"	"
7'-6"	9½"	"
8'-0"	10"	"
8'-6"	10"	"

NO DECK SECTION – EXPANSIVE SOIL (62.4 PCF) OR HIGHLY EXPANSIVE SOIL (EXPANSION INDEX UP TO 130) — 2



SHALLOW/DEEP END RAMP — 3



GENERAL NOTES

1. THIS STANDARD POOL STRUCTURAL PLAN MUST BE ACCOMPANIED BY A CLEAR PLOT PLAN SHOWING POOL & OR SPA SHAPE, DEPTH AND DISTANCE TO PROPERTY LINE, SLOPES AND STRUCTURES. IN THE CITY OF LOS ANGELES, THE POOL LOCATION SHALL COMPLY WITH THE CITY OF LOS ANGELES ZONING CODE. IN SAN BERNARDINO COUNTY POOL APPROVED FOR PRIVATE USE ONLY, A SOILS REPORT MAY BE REQUIRED IN EXPANSIVE SOIL AREAS AND THE POOL LOCATION SHALL COMPLY WITH THE SAN BERNARDINO COUNTY ZONING CODE.
2. REPRESENTATIVES OF POOL ENGINEERING INC. HAVE NOT INSPECTED THE SITE & ARE RELYING ON INFORMATION PROVIDED BY THE CONTRACTOR OR OWNER TO DETERMINE THE ADEQUACY OF THIS STANDARD POOL STRUCTURAL PLAN FOR THE ACTUAL SITE CONDITIONS. SHOULD SITE CONDITIONS VARY FROM THAT COVERED BY THIS STANDARD POOL STRUCTURAL PLAN, IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER TO NOTIFY POOL ENGINEERING INC. AND OBTAIN APPLICABLE SPECIAL ENGINEERING DETAILS PRIOR TO CONSTRUCTION. EXPANSIVE SOIL DETAILS ARE VALID ONLY FOR STATED EQUIVALENT FLUID PRESSURES AND POOL ENGINEERING INC. RECOMMENDS THAT THE OWNER OR CONTRACTOR OBTAIN A SOILS REPORT.
3. THIS PLAN IS NOT VALID WITHOUT ADDITIONAL SURCHARGE DETAILS WHEN THE FOLLOWING CONDITIONS APPLY (PER LATEST ADOPTED EDITION OF THE CBC SECTION 1805.5.2 THROUGH 1806.5.4. IN VENTURA, LOS ANGELES COUNTIES, 'I' MIN. IS 1 1/2' & 'X' MIN. IS 2 1/2').

SPECIAL DETAIL REQUIRED WHEN 'I' IS LESS THAN POOL DEPTH OR H/4 (7.5' MAX. H/V)

4. THE STANDARD POOL STRUCTURAL PLAN IS NOT INTENDED TO BE APPLICABLE TO NON-STRUCTURAL ITEMS INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, FENCING, CONCRETE DECKING AND POOL GEOMETRICS.
5. DECKING CONSTRUCTION IS SHOWN AS RECOMMENDED MINIMUM CONSTRUCTION AND DOES NOT DEMONSTRATE A SYSTEM THAT WILL RESIST HEAVING DUE TO SOIL EXPANSION.
6. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE UNIFORM BUILDING CODE,CBC AND LOCAL ORDINANCES.
7. POOLS WITH DIVING BOARDS SHALL MEET DIVING BOARD MANUFACTURER'S POOL GEOMETRIC STANDARDS AND/OR LOCAL CODES.
8. SIGNS & SAFETY EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.
9. PUBLIC POOLS REQUIRE COUNTY HEALTH DEPARTMENT APPROVAL AND PROVISIONS FOR ASSISTIVE DEVICES FOR THE DISABLED.
10. CONTRACTOR OR OWNER SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AT JOB SITE.

ELECTRICAL AND PLUMBING

1. ALL ELECTRICAL SHALL BE IN CONFORMANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE SECTION 680.
2. ANY METAL WITHIN 5' OF POOL EDGE MUST BE BONDED PER THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE.
3. OBTAIN ELECTRICAL AND PLUMBING PERMITS ALONG WITH POOL BUILDING PERMIT.
4. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL REGULATIONS.
5. POOLS SHALL BE EQUIPPED WITH A FILTERING SYSTEM & A DRAIN.
6. BACKWASH SHALL BE DISPOSED OF IN AN APPROVED MANNER.
7. GAS PIPING TO BE IN CONFORMANCE WITH LATEST ADOPTED EDITION OF THE CALIFORNIA PLUMBING CODE SECTION 1210.1.
8. CONTRACTOR IS ADVISED TO REFER TO SECTION 115928 OF THE CALIFORNIA HEALTH & SAFETY CODE FOR PROPER INSTALLATION OF THE POOL DRAIN SYSTEM.

STRUCTURAL NOTES

1. SOIL SHALL HAVE A MINIMUM BEARING VALUE OF 1000 PSF. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL OR BUILDING DEPARTMENT APPROVED 90% COMPACT FILL. THIS PLAN IS NOT SUITABLE WHERE POTENTIAL EXISTS FOR DIFFERENTIAL MOVEMENT FROM DISSIMILAR SOIL CONDITIONS UNDER POOL SUCH AS CUT-FILL TRANSITIONS.
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS & CONFORM TO ASTM A615 GRADE 40 FOR #3 BARS AND #4 BARS. SPLICES TO BE LAPPED 24" MIN. MINIMUM CLEARANCE BETWEEN PARALLEL BARS IS 2 1/2".
3. (5) #4 BAR IS REQUIRED IN LIEU MAY BE USED IN PLACE OF (2) #3 BARS, WITH THE EXCEPTION THAT IF #4 BARS ARE USED FOR THE BASIC GRID, THE MAXIMUM SPACING IS #4 BARS AT 16" O.C.
4. THE PLAN TABLES SPECIFY THE MINIMUM REQUIRED REINFORCEMENT. FOR CONVENIENCE OF THE INSTALLER, THERE MAY BE MORE REINFORCEMENT THAN SPECIFIED AT ANY GIVEN POINT IN THE POOL STRUCTURE.
5. GROUNDING (PER THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE) OF THE STRUCTURAL REINFORCING MUST BE INSTALLED PRIOR TO PLACEMENT OF GUNITE.
6. SHOTCRETE (GUNITE) TO BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CBC SECTION 1924 & SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS, AND CONSIST OF 1 PART PORTLAND CEMENT TO 4-1/2 PARTS SAND & 3 GALLONS OF WATER PER SACK OF CEMENT.
7. CEMENT SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE CBC STD 19-1, ASTM 150.02.
8. SHOTCRETE/GUNITE IN CONTACT WITH SOIL SHALL BE IN ACCORDANCE WITH C.B.C. TABLE 19-A-4 FOR CONCRETE EXPOSURE TO SULFATE.
9. KEEP CONCRETE DAMP CONTINUOUSLY FOR 14 DAYS.
10. ALL INTERIOR SURFACES OF POOL/SPA SHALL BE COATED WITH A WATERPROOF SILICA PLASTER.

OWNER

1. KEEP SHOTCRETE (GUNITE) DAMP CONTINUOUSLY FOR 14 DAYS AFTER INSTALLATION.
2. DO NOT TURN ON LIGHT WHEN POOL IS EMPTY.
3. DO NOT USE BLACK RUBBER HOSE WHEN FILLING POOL (IT MARKS THE PLASTER).

GLAZING IN HAZARDOUS LOCATIONS

WHEN REQUIRED BY THE BUILDING OFFICIAL, GLAZING SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE CBC SECTION 2406.4, ITEM 9 INCLUDING LOCALLY ADOPTED AMENDMENTS.
1. GLAZING IN WALLS AND FENCES USED AS A BARRIER SHALL BE SAFETY GLAZING WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT:
   A. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE POOL SIDE OF THE GLAZING.
   B. THE GLAZING IS WITHIN 5 FEET OF A SWIMMING POOL OR SPA DECK AREA.

CONTINUOUS SHOTCRETE INSPECTION

WHERE REQUIRED ALL PNEUMATIC CONCRETE PLACEMENT SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN CONFORMANCE WITH UBC/CBC SECTION 1701, WHO SHALL SUBMIT A STATEMENT INDICATING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. THE FOLLOWING AGENCIES AMONG OTHERS REQUIRE CONTINUOUS INSPECTION.
A. CITY OF LOS ANGELES – INSPECTOR MUST BE APPROVED BY THE DEPARTMENT OF BUILDING & SAFETY, PER RDA 14-67.
B. COUNTY OF VENTURA.
C. THE CITIES OF: BEVERLY HILLS, COSTA MESA, CULVER CITY, CYPRESS, FULLERTON, HERMOSA BEACH, IRVINE, NEWPORT BEACH, LA HABRA, LA PALMA, LAGUNA HILLS, LAKE ELSINORE, LONG BEACH, LOS ALAMITOS, MISSION VIEJO, NORCO, SEAL BEACH, STANTON, TUSTIN, VILLA PARK & WESTMINSTER.
D. IN THE CITY OF SAN DIEGO, PNEUMATIC CONCRETE WORK NOT FULLY SUPPORTED ON EARTH MAY REQUIRE CONTINUOUS INSPECTION AND VISUAL EXAMINATION FOR STRUCTURAL SOUNDNESS OF IN PLACE PNEUMATIC CONCRETE.

TITLE 24

MANDATORY REQUIREMENTS FOR POOL & SPA HEATING SYSTEMS & EQUIPMENT:
1. SYSTEM IS CERTIFIED WITH 78% THERMAL EFFICIENCY (PER LATEST ADOPTED ANSI STANDARD). READILY ACCESSIBLE ON-OFF SWITCH, WEATHERPROOF OPERATING INSTRUCTIONS ON ENERGY EFFICIENT OPERATIONS, NO ELECTRIC RESISTANCE HEATING AND NO PILOT LIGHT.
2. SYSTEM IS INSTALLED WITH:
   A. AT LEAST 36" PIPE BETWEEN FILTER & HEATER FOR FUTURE SOLAR HEATING.
   B. COVER FOR OUTDOOR POOLS OR OUTDOOR SPA.
3. POOL SYSTEM HAS DIRECTIONAL INLETS & A CIRCULATION PUMP TIME SWITCH TO PERMIT OFF PEAK OPERATION.

FENCING AND BARRIERS

1. PRIOR TO FILLING, THE POOL AND OR SPA SHALL BE COMPLETELY ENCLOSED BY 5' MIN. HIGH FENCING & GATES WITH NO OPENINGS GREATER THAN 4". GATES TO BE SELF-CLOSING & SELF-LATCHING WITH LATCH A MIN. OF 5' HIGH. WHERE THIS VARIES FROM LOCAL CODES, THE LOCAL CODES SHALL PREVAIL.
2. WHEN REQUIRED BY THE BUILDING OFFICIAL, BARRIERS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE CBC SECTION 421, APPENDIX CHAPTER 4 INCLUDING LOCALLY ADOPTED AMENDMENTS.
   A. IN THE CITY OF LOS ANGELES, PROTECTIVE BARRIERS ARE REQUIRED IN CONFORMANCE WITH THE LOS ANGELES CITY BUILDING CODE SECTION 91.6103(A).
   B. IN THE COUNTY OF LOS ANGELES, BARRIERS REQUIRED BY CHAPTER 11.50 OF THE LOS ANGELES COUNTY HEALTH AND SAFETY CODE AND ORDINANCE 95-0039 SHALL BE REQUIRED. THESE BARRIER REQUIREMENTS SHALL BE ATTACHED TO THE SWIMMING POOL SITE PLAN.
   C. IN THE COUNTY OF VENTURA, PROTECTIVE BARRIERS ARE REQUIRED IN CONFORMANCE WITH VENTURA COUNTY BUILDING CODE (1989) ARTICLE 3, DIVISION 45, SECTION 45.6.
   D. IN THE CITY OF SAN DIEGO, PROTECTIVE BARRIERS ARE REQUIRED IN CONFORMANCE WITH THE CITY OF SAN DIEGO LATEST ADOPTED BUILDING CODE AMENDMENTS IN DIVISION 84. ALL DOORS PROVIDING DIRECT ACCESS FROM THE HOME TO THE SWIMMING POOL SHALL BE EQUIPPED WITH AN EXIT ALARM AND A SELF-CLOSING, SELF-LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54" ABOVE THE FLOOR.
   E. IN THE COUNTY OF SAN BERNARDINO, PROTECTIVE BARRIERS ARE REQUIRED IN CONFORMANCE WITH SAN BERNARDINO COUNTY CODE SECTION 33.0123, SEE ATTACHED COPY OF SWIMMING POOL ENCLOSURE STANDARD PROCEDURE.

CITY OF LOS ANGELES SPECIAL NOTES

THESE NOTES ARE ONLY APPLICABLE IN THE CITY OF LOS ANGELES.
1. DESIGN AND CONSTRUCTION MUST CONFORM WITH THE REQUIREMENTS OF 91.31B DIV II AND P/BC 2000-14.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH FOR SHOTCRETE OR GUNITE SHALL BE 2500 PSI.

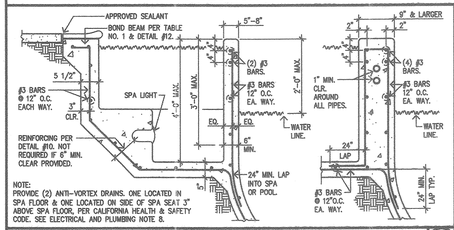
COUNTY OF LOS ANGELES SPECIAL NOTES

IN THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC WORKS, BUILDING & SAFETY/LAND DEVELOPMENT DIVISION NOTES TILED BARRIERS FOR SWIMMING POOL, SPAS, AND HOT TUBS FOR R-3 OCCUPANCIES SHALL BE ATTACHED TO AND MADE A PART OF THIS PLAN. CONSTRUCTION TO BE PER 2002 LOS ANGELES COUNTY BUILDING CODE (LACBC)

VENTURA COUNTY SPECIAL NOTES

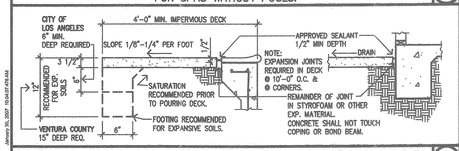
THESE NOTES ARE ONLY APPLICABLE IN VENTURA COUNTY.
1. DECK TO BE REINFORCED WITH #3 BARS @ 24" O.C. EACH WAY.
   A. DECK BONDING: WHEN DECKS ARE TO BE INSULATED, WHETHER STRUCTURALLY REQUIRED OR NOT, THE REINFORCING INSTALLED THEREIN SHALL BE ELECTRICALLY BONDED TOGETHER WITH THE POOL SHELL REINFORCING & METAL PARTS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE POOL WATER RECIRCULATING SYSTEM & WITH MISCELLANEOUS METAL ACCESSORIES, SUCH AS POOL SLIDES, DIVING BOARD & SPRING MOUNTS, IN ACCORDANCE WITH NEC SEC. 680-22.
2. 12" DEEP PERIMETER FOOTING IS REQUIRED.
3. PERIMETER FOOTING MAY BE OMITTED WHEN 6' WIDE DECK IS INSTALLED.
4. MINIMUM DECK WIDTH IS 4' UNLESS PERIMETER FOOTING DEPTH IS INCREASED BY THE AMOUNT PROPORTIONAL TO THE REDUCTION IN DECK WIDTH.
5. WHEN DECK SUB-GRADE SOIL HAS AN EXPANSION INDEX > 91 SATURATION TO 18" MINIMUM DEPTH IS REQUIRED.
6. JOINTS IN DECKS & COPING SHALL BE MADE WATERTIGHT WITH AN APPROVED PERMANENT RESILIENT SEALANT.
7. SURFACE WATER FROM POOL DECKS SHALL BE COLLECTED & CONDUCTED THROUGH NON-EROSIVE DEVICES TO A STREET, STORM DRAIN, OR OTHER APPROVED WATERCOURSE OR DISPOSAL AREA.
8. WHENEVER ACCESS FROM A POOL IS RESTRICTED BY THE PRESENCE OF A VERTICAL WALL OR OTHER BARRIER WHICH EXTENDS MORE THAN 12" ABOVE THE WATER SURFACE AT THE POOL EDGE, PERMANENT CONTINUOUS GRAB BARS, HANDRAILS, OR OTHER APPROVED EQUIVALENT DEVICES SHALL BE INSTALLED WITHIN 12" OF THE WATER SURFACE. SUCH DEVICES SHALL BE CAPABLE OF BEING SECURELY GRASPED, AND SHALL BE ADEQUATE TO SUPPORT THE WEIGHT OF A USER OF THE POOL, PER V.C.B.C. CH.41 SECTION 41.2.6.

TYPICAL LONGITUDINAL SECTION — 4



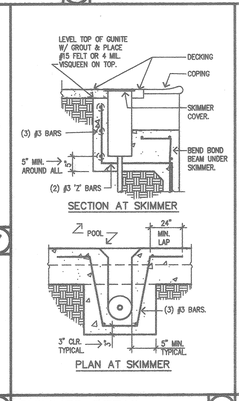
NOTE: PROVIDE (2) ANTI-VORTEX DRAINS. ONE LOCATED IN SPA FLOOR & ONE LOCATED ON SIDE OF SPA SEAT 3" ABOVE SPA FLOOR, PER CALIFORNIA HEALTH & SAFETY CODE. SEE ELECTRICAL AND PLUMBING NOTE 8.

SPA DETAILS – SPA DETAILS MAY BE USED FOR SPAS WITHOUT POOLS. — 7

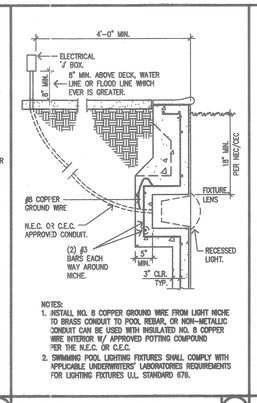


EXPANSIVE SOIL DETAILS — IN EXPANSIVE SOILS WHERE MIN DECK REQMTS ARE NOT MET USE DET. #2. | SEE VENTURA CO. MIN DECK STDS | IN NOTES SECT FOR DECK REQMTS. — 8

SKIMMER DETAIL — 9



SECTION AT LIGHT — 10



NOTES:
1. INSTALL NO. 8 COPPER GROUND WIRE FROM LIGHT NICHE TO BRASS CONDUIT TO POOL REBAR, OR NON-METALLIC CONDUIT CAN BE USED WITH INSULATED NO. 8 COPPER WIRE INTERIOR W/ APPROVED POTTING COMPOUND PER THE N.E.C. OR C.E.C.
2. SWIMMING POOL LIGHTING FIXTURES SHALL COMPLY WITH APPLICABLE UNDERWRITERS' LABORATORIES REQUIREMENTS FOR LIGHTING FIXTURES U.L. STANDARD 676.

RAISED BOND BEAM — 11

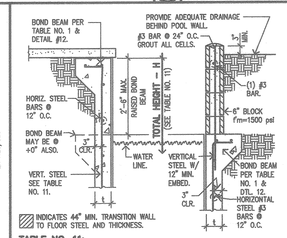
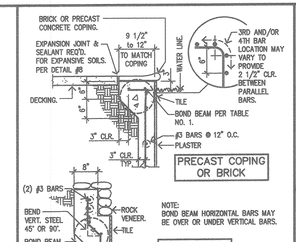


TABLE NO. 11:
TOTAL HEIGHT = NORMAL POOL DEPTH (D) + HEIGHT OF RAISED BOND BEAM.

TOTAL HEIGHT – H		2'	3'	4'	5'	6'	7'	8'	9'	10'	11'
NON-EXPANSIVE SOIL E.F.P. = 30 P.C.F.	t	5½"	6"	6"	6"	6½"	8"	9½"	11"	12"	12"
	VERTICAL STEEL	#3 @12"	#3 @12"	#3 @12"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"
MODERATE EXPANSIVE SOIL E.F.P. = 45 P.C.F.	t	5½"	6"	6"	7"	8"	9"	10"	10½"	11½"	11½"
	VERTICAL STEEL	#3 @12"	#3 @12"	#3 @12"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"
HIGHLY EXPANSIVE OR NO DECK E.F.P. = 62.4 P.C.F.	t	5½"	6"	6"	7"	8"	9"	10½"	11"	12"	12½"
	VERTICAL STEEL	#3 @12"	#3 @12"	#3 @12"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"	#3 @6"

BOND BEAM DETAILS — 12



NOTE:
BY THE USE OF THIS PLAN THE USER ACKNOWLEDGES THAT HE HAS READ AND UNDERSTANDS ALL OF THE NOTES INCLUDED HEREIN.

THIS PLAN IS THE WORK OF THE ENGINEER AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE USED WITHOUT THEIR WRITTEN PERMISSION.

PLAN VALID ONLY WITH WET STAMP & ENGINEER'S SIGNATURE IN RED INK ON PLAN.

AUTHORIZED SIGNATURES:
RONALD L. LACHER, P.E.
AARON J. COWEN, P.E.
TODD L. LACHER, P.E.

STANDARD PLAN APPROVALS:

CITY OF LOS ANGELES:	#268	SAN BERNARDINO:	#06-08762-22A-01
CITY OF ONTARIO:	APPROVED FOR 97 UBC	RIVERSIDE COUNTY:	#342375
SAN DIEGO:	MP #92	ORANGE COUNTY:	#SW-05-0390 SHOTCRETE/GUNITE PER C.B.C. TBL. 19-A-4 SEVERE EXPOSURE, IF NO TEST PEIFORMED
SIMI VALLEY:	SP1 REQ'S SIMI VALLEY NOTES ATTACHMENT	LOS ANGELES COUNTY:	#26077 CONSTRUCTION TO BE PER 2002 LOS ANGELES COUNTY BUILDING CODE:
SANTA CLARITA:	#306 REQ'S SUPPLEMENTAL NOTES	VENTURA COUNTY:	#6-99 REQUIRES ATTACHMENT OF VENTURA COUNTY BARRIER REQUIREMENTS
		CITY OF BEVERLY HILLS:	#13 CONSTRUCTION TO BE PER 2001 C.B.C AND BEVERLY HILLS MUNICIPAL CODE ARTICLE 6
		KERN COUNTY:	#213
		CITY OF FRESNO:	P-00-01 REQ'S SUPPLEMENTAL NOTES
		FRESNO COUNTY:	REQ'S SUPPLEMENTAL NOTES

STANDARD POOL STRUCTURAL PLAN

pool engineering inc.
Ron Lacher, R.C.E.
1201 N. Tustin Ave.
Anaheim, California 92807
Fax: (714) 630-6114
Phone: (714) 630-6100

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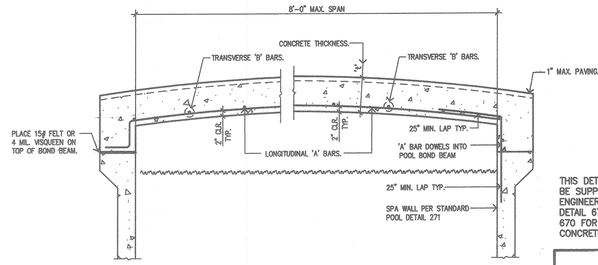


BRIDGE ON BOND BEAM OPTION (C)
NO SCALE

THIS DETAIL IS INTENDED TO BE SUPPLEMENTARY TO POOL ENGINEERING CONCRETE BRIDGE DETAIL 670. REFER TO DETAIL 670 FOR BRIDGE STEEL AND CONCRETE SCHEDULES.

CONCRETE BRIDGE TO DOWEL INTO POOL BOND BEAM ON ONE SIDE AND FLOAT ON BOND BEAM ON OPPOSING SIDE.

PLAN VALID ONLY WITH ENGINEER'S SIGNATURE IN RED INK ON PLAN.
THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD BRIDGE DETAIL 670

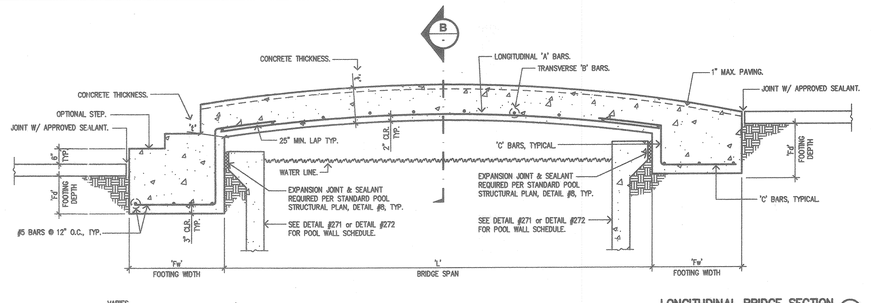
pool engineering inc.

Ron Lacher, R.C.E.
1201 N. Tustin Ave.
Anaheim, California 92807
Fax: (714) 630-6114
Phone: (714) 630-6100

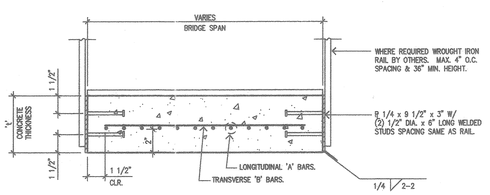
SUPPLEMENTARY DETAIL 670-A
BRIDGE SUPPORT ON POOL BOND BEAM

DATE: 10/11/05
DRAWN BY: T.L.L.
CHECKED BY: A.J.C.

DETAIL #670-A

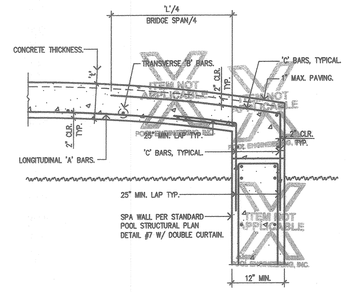


LONGITUDINAL BRIDGE SECTION (A)
NO SCALE



BRIDGE CROSS-SECTION (B)
NO SCALE

BRIDGE INFORMATION							POOL WALL SURCHARGE
BRIDGE SPAN 'L'	CONCRETE THICKNESS 't'	'A' BARS	't' BARS	'C' BARS	FOOTING WIDTH 'Fw'	FOOTING DEPTH 'Fd'	
6'-0"	6"	#4 @ 12"	#4 @ 12"	#5 @ 12"	12"	18"	USE DETAIL #271
8'-0"	6"	#4 @ 8"	#4 @ 12"	#5 @ 8"	12"	18"	
10'-0"	8"	#4 @ 6"	#4 @ 12"	#5 @ 6"	1'-3"	18"	
12'-0"	8"	#4 @ 4"	#4 @ 12"	#5 @ 4"	1'-6"	18"	
14'-0"	9"	#4 @ 4"	#4 @ 10"	#5 @ 4"	1'-10"	18"	USE DETAIL #272
16'-0"	12"	#5 @ 6"	#4 @ 8"	#5 @ 6"	2'-6"	18"	
20'-0"	12"	#5 @ 4"	#4 @ 8"	#5 @ 4"	3'-0"	18"	



BRIDGE ON SPA WALL OPTION (C)
NO SCALE

NOTES:
1. f'c = 2,500 P.S.I.
2. REINFORCING GRADE 40.
3. ALL FIELD WELDING SHALL HAVE SPECIAL INSPECTION & WELDERS TO BE A.W.S. CERTIFIED.

Ron Lacher, R.C.E.
1201 N. Tustin Ave.
Anaheim, California 92807
Fax: (714) 630-6114
Phone: (714) 630-6100

pool engineering inc.

PLAN VALID ONLY WITH ENGINEER'S SIGNATURE IN RED INK ON PLAN.
THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD POOL STRUCTURAL PLAN

DATE: 11/28/06
CALCS BY: D.P.
CHECKED BY: R.L.L.

CONCRETE BRIDGE OVER POOL

DETAIL #670

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227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 50TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4313
E-MAIL: IDAVIDSON@IDSCAPE.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	DW	12/5/07
PRINCIPAL ENGINEER	DW	12/6/07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION	KR	12-4-07
PARKS DEPARTMENT		

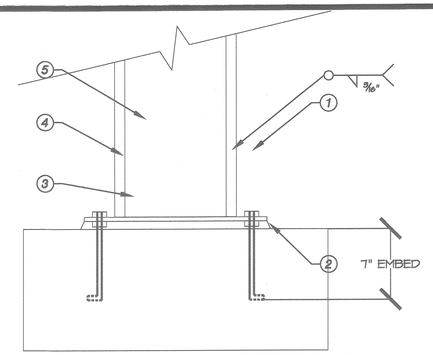
APPROVED BY
CITY ENGINEER
DATE 12/5/07

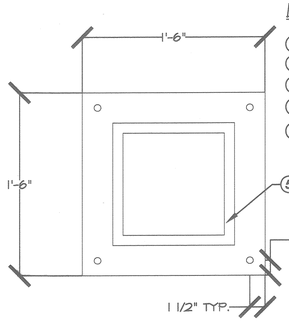
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

STRUCTURAL DETAILS
M-457
L1.15
SHEET 40 OF 100

BID SET





LEGEND

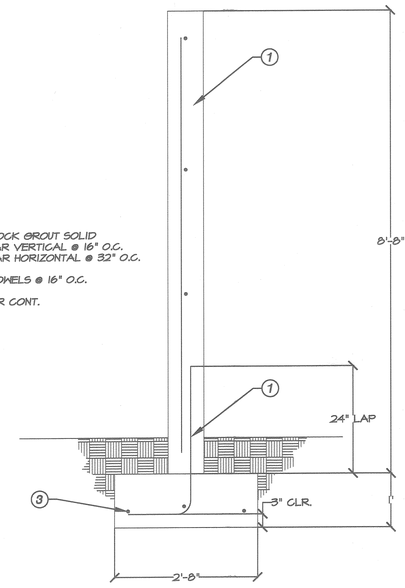
1. 18" SQ. X 3/8" THICK BASE PLATE
2. FOOTING PER PLAN
3. 3/8" DIA. X 10" A.B. W/ DOUBLE NUT
4. NON SHRINK GROUT
5. 12" X 12" X 1/4" STRUCTURAL TUBE

B STEEL COLUMN BASE

SCALE: NTS

LEGEND

1. 8" CONC. BLOCK GROUT SOLID
   #5 REBAR VERTICAL @ 16" O.C.
   #4 REBAR HORIZONTAL @ 32" O.C.
2. #5 REBAR DOWELS @ 16" O.C.
3. 3 - #4 REBAR CONT.



A GARDEN WALL

SCALE: NTS

UNDERGROUND SERVICE ALERT
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 , FAX 951 683 4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
6/30/09
Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		12/5/07
PRINCIPAL ENGINEER		12/4/07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		12-12-07
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/5/07

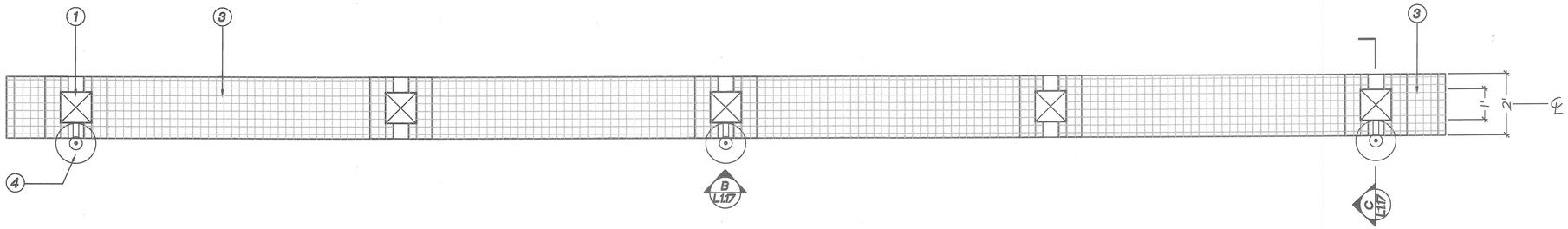
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

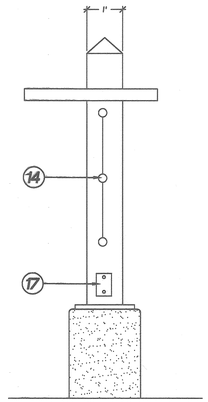
STRUCTURAL DETAILS
M-457
L1.16

SHEET 41 OF 100

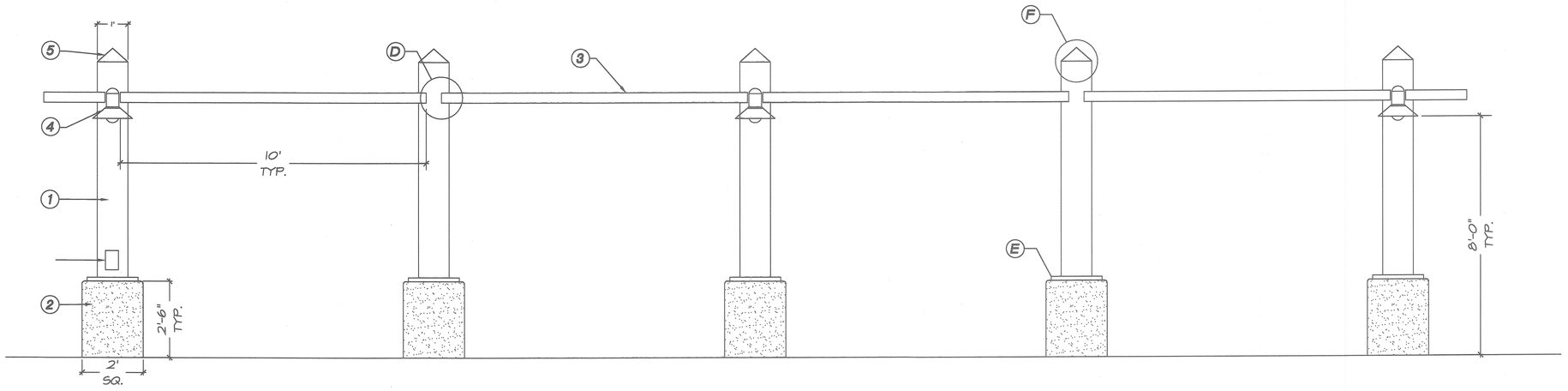
BID SET



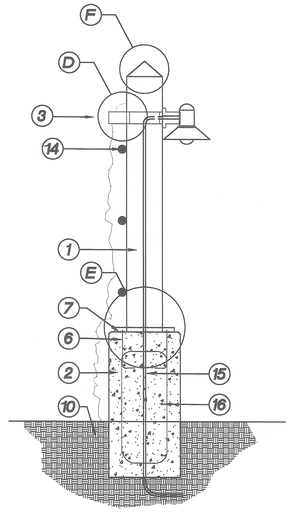
A ARBOR PLAN



REAR VIEW

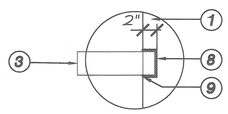


B ARBOR ELEVATION

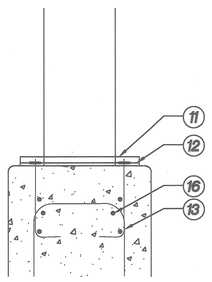


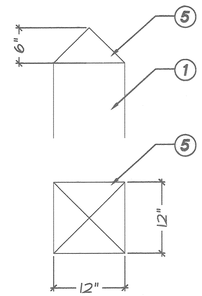
C ARBOR SIDE SECTION

SCALE 1/2"=1'



D WELDING DETAIL





E ANCHOR TIE DETAIL

F CAP DETAIL

2' 1.5' 1' 0.5' 0 1' 2'

SCALE 1"=1'

LEGEND

1. 12" SQ. STEEL POST.
2. CONCRETE BASE. SUMMBER BEIGE COLOR LIGHT SANDBLAST FINISH.
3. 2'X10' GREEN SCREEN PANEL.
4. ELA LIGHT FIXTURE. MOUNTED TO STEEL POLE PER MANUFACTURER'S REQUIREMENT.
5. STEEL CAP.
6. TIE RODS.
7. STEEL BOLT DOWN BASE W/ COVER CAP.
8. POST POCKET WELDED STEEL.
9. SPOT WELD.
10. COMPACTED SUBGRADE AND BASE MATERIAL PER GEOTECHNICAL REPORT.
11. STEEL COVER CAP.
12. ¼" PLATE STEEL.
13. ANCHOR TIES (4 PER POST; SEE SHOP DRAWINGS).
14. 1/2" STEEL EYES FOR VINE ATTACHMENT

NOTES;

A. PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

B. FIELD SURVEY DIMENSIONS AND CONDTIONS PRIOR TO BID AND CONSTRUCTION.

C. FABRICATE FENCING WITH SQUARE TUBE STOCK. GRIND SMOOTH ALL WELDS. SHOP PRIME 2 COATS. PAINT ON SITE 2 COATS. COLOR; SEMI-GLOSS BLACK

D. FOOTINGS ARE SHOWN FOR BID PURPOSES ONLY. VERIFY REQUIREMENTS WITH SOIL ENGINEERS PLANS AND COMPLY.

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E-MAIL IDAVIDSON@EARTHLINK.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON 4028
Signature
12/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/5/07

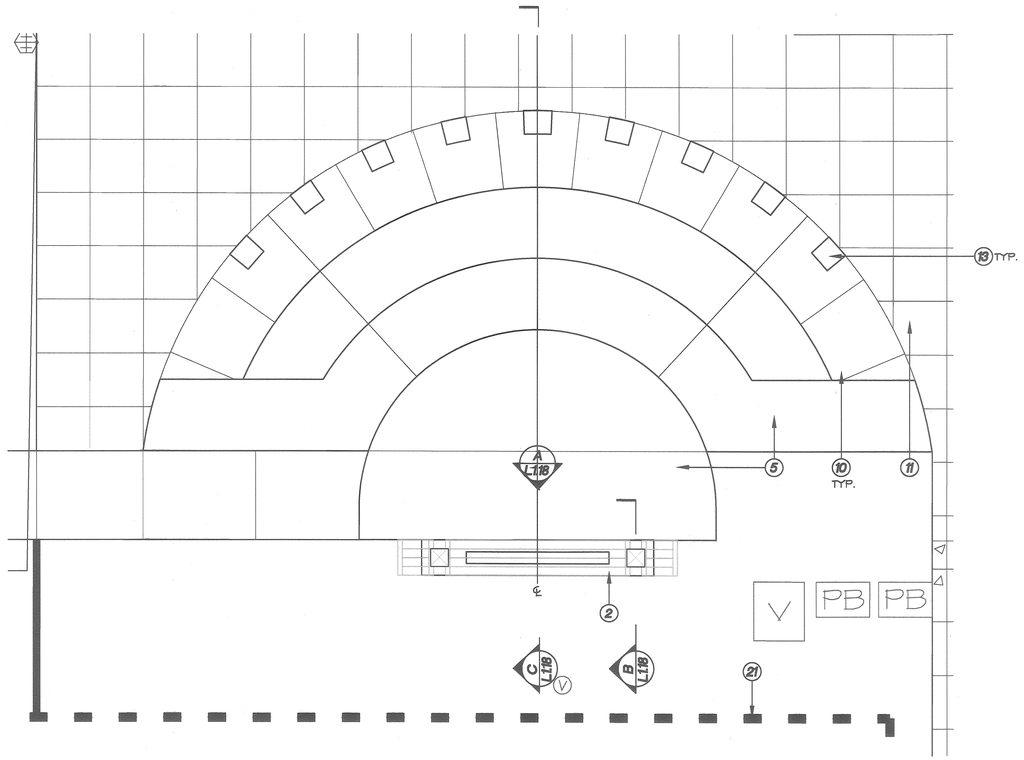
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

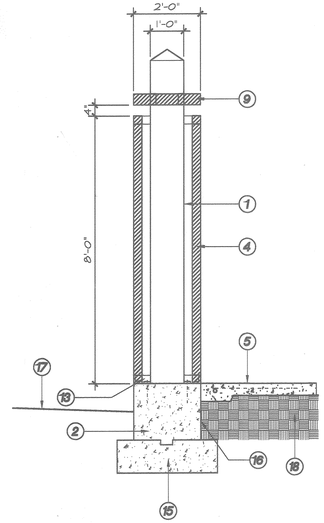
ARBOR DETAIL
M-457
L1.17

SHEET 42 OF 100

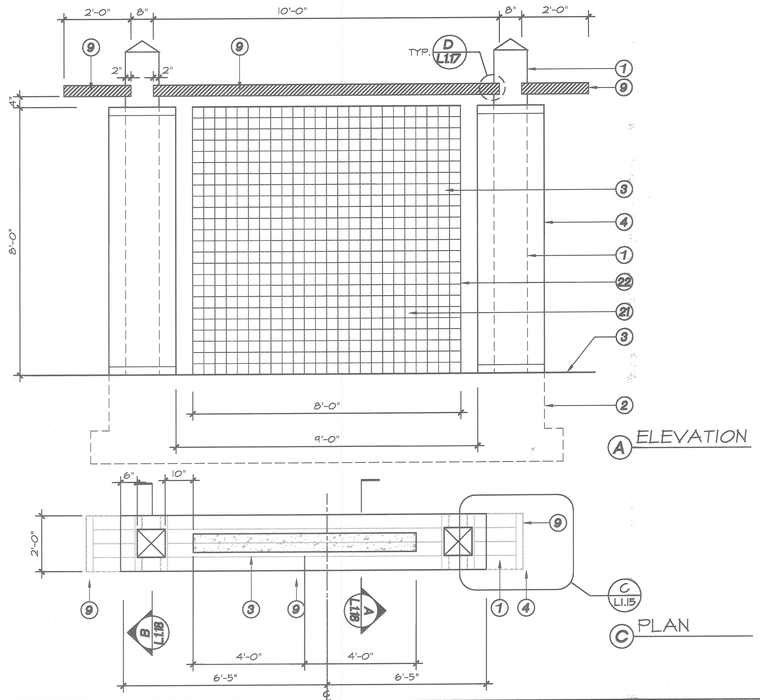
BID SET



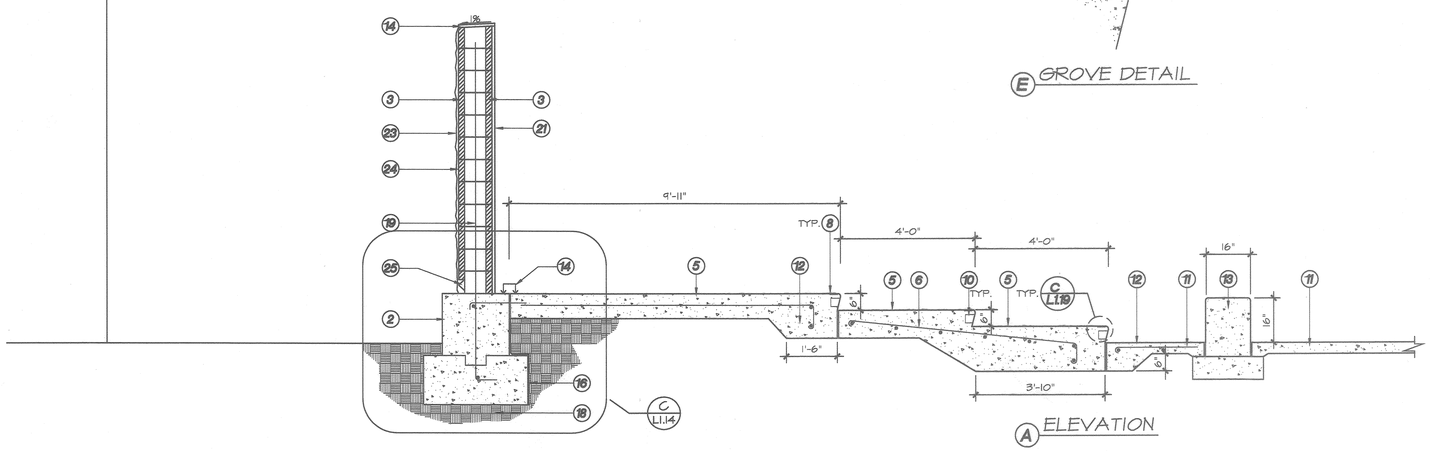
PUBLIC COURT ENLARGEMENT PLAN | 1/4"=1'-0" | 14



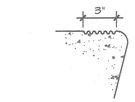
B COLUMN SECTION



PUBLIC COURT BACKGROUND SCREEN ELEVATION | 3/8"=1'-0" | 04



A ELEVATION



E GROVE DETAIL

LEGEND

1. 12" X 12" X ¼" STRUCTURAL STEEL TUBE W/ CAP IN ANCHOR, SEE DETAIL #E/SHT #L1.17 & #F, SHT #L1.17.
2. CONCRETE RETAINING WALL. FINISH AND COLOR TO MATCH ADJACENT STAGE. SEE DETAIL #1, SHT. #1.19
3. 8" X 8" X 16" CMU PRECISION BLOCK GROUT. FILL ALL CELLS SOLID. STEEL REINFORCEMENT PER STRUCUTURAL ENGINEER
4. GREEN SCREEN COLUMN. COLOR: BLACK TEL: 800-450-3444
5. CONC. TERRACE, MED. BROOM FINISH, COLOR: SUMMER BEIGE BY L.M. SCOFIELD TEL: (323) 720-30303
6. #3 REBAR @ 16" O.C. EACH WAY
7. EXPANSION JOINT W/ FILLER, SEE DETAIL #J, SHT. #L1.20
8. NON-SKID GROOVES, SEE DETAIL #C, SHT. #L1.19
9. 2' WIDE GREEN SCREEN TRELLIS. WELDING DETAIL SEE DETAIL #D, SHT. #L1.19
10. STEP LIGHT, TYP. SEE ELECTRICAL PLANS
11. CONC. PAVING PER DETAIL #F, SHT #L1.20
12. CONCRETE THICKEN EDGE
13. CONC. PEDESTAL PER DETAIL #C, SHT. #L1.20
14. TOP OF WALL FLUSH W/ TOP OF TERRACE. VERIFY W/ CIVIL ENGINEERS PLAN FOR WALL HEIGHT
15. CONCRETE FOOTING. DIMENSIONS AND STEEL REINFORCEMENT PER STRUCUTURAL ENGINEER
16. WATER PROOFING PER DETAIL, #1, SHT #L1.19
17. FINISH GRADE
18. COMPACTED SUBBASE MATERIAL PER GEOTECHNICAL REPORT
19. #4 REBAR @ 12" O.C.
20. NOT USED
21. GRANITE VENEER AT WALL FACE, TOP, AND SIDES MODEL: ABSOLUTE BLACK PAVER MANUF: SPECCERAMICS, INC., 1195 N. OSPREY CIRCLE, ANAHEIM, CA. 92807. TEL. #(714) 808-0134
22. DRYSET OR LATEX-PORTLAND CEMENT MORTAR BOND COAT FOR STONE ADHERANCE AT SIDE AND TOP OF WALL
23. EXTERIOR PLASTER SYSTEM @ BACK OF SCREEN WALL (BLK)
24. WEEP SCREED @ PLASTER BASE
25. ½" STEEL EYES FOR VINE ATTATCHMENT

NOTES:

A. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

B. FIELD SURVEY DIMENSIONS AND CONDITIONS PRIOR TO BID AND CONSTRUCTION.

C. FABRICATE STEEL POST WITH SQUARE TUBE STOCK. GRIND SMOOTH ALL WELDS. SHOP PRIME 2 COATS. PAINT ON SITE 2 COATS. COLOR: SEMI-GLOSS BLACK

D. FOOTINGS ARE SHOWN FOR BID PURPOSES ONLY. VERIFY REQUIREMENTS WITH STRUCTURAL PLANS AND COMPLY.

PUBLIC COURT SECTION | 1/2"=1'-0" | 01

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1233 FAX 951.683.4332
E-MAIL: IDAVIDSON@IDLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — 4834 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

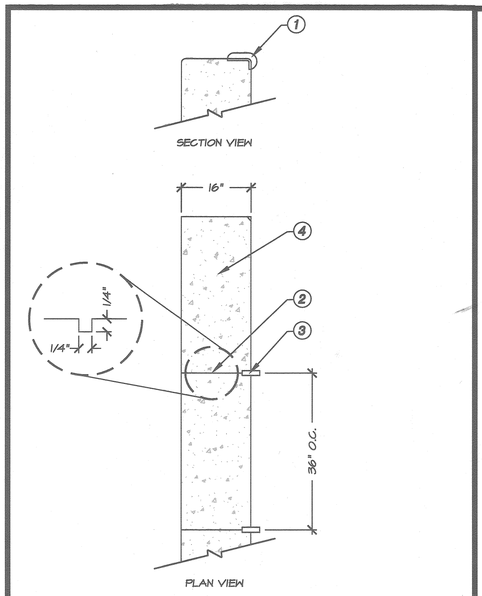
12/03/07

PUBLIC COURT
M-457
L1.18

SHEET 43 OF 100

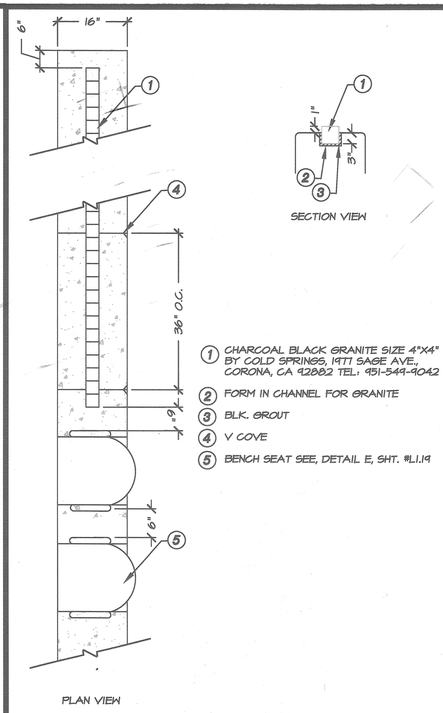
BID SET

K SKATEBOARD STOPS — SCALE: NTS



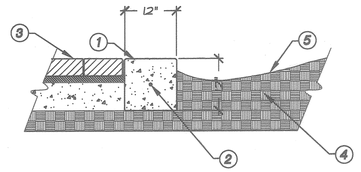
1. SKATEBOARD STOP BY SKATE STOPPERS
   MODEL: MALLORY DESIGN
   1444 PIONEER WAY, SUITE 13. EL CAJON, CA 92020
   TEL: 619-447-6374
2. FORMED CHANNEL JOINT
3. SKATEBOARD STOP EMBEDMENT
4. BENCH SEAT SEE, DETAIL E, SHT. #L1.19

J GRANITE INSERT — SCALE: NTS



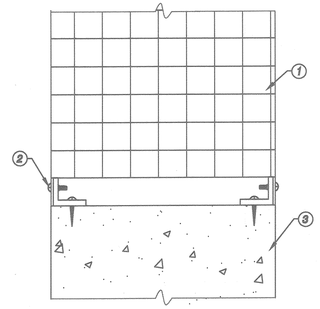
1. CHARCOAL BLACK GRANITE SIZE 4"X4" BY COLD SPRINGS, 1771 SAGE AVE., CORONA, CA 92882 TEL: 951-549-9042
2. FORM IN CHANNEL FOR GRANITE
3. BLK. GROUT
4. V COVE
5. BENCH SEAT SEE, DETAIL E, SHT. #L1.19

G CONC. BAND @ PLANTING AREAS — SCALE: NTS



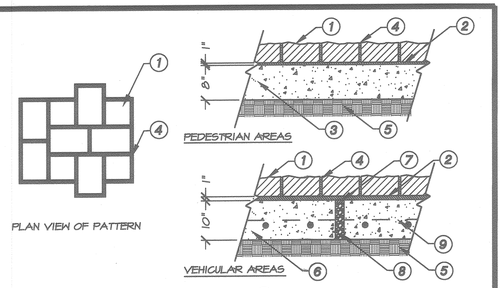
1. 12" WIDE CONCRETE INTEGRAL COLOR BAND/ L.M. SCOFIELD, 5206 TAMARA POINT, PANORA, IA 50216, TEL. (323) 720-3030 WITH LIGHT BROOM FINISH COLOR: SUMMER BEIGE
2. #3 REBAR (CONT.)
3. PAVERS PER, DETAIL #A, SHT. #L1.19
4. CONC. PAVING PER, DETAIL#F SHT. #L1.20
5. COMPACTED SUB-GRADE

D COLUMN ATTACHMENT — SCALE FACTOR: SCALE: NTS



1. GREEN SCREEN COLUMN 2' DIA. X 8' BLK. BY GREENSCREEN PRODUCT #5104 OR 5105 1743 S. LA CIENGA BLVD., LOS ANGELES, CA 90035-4650 TEL: 800-450-3444
2. MACHINE BOLT AND ATTACHMENT BRACKET BOLT TO GREEN SCREEN HARDWARE, CALL MANUF. RED HEADTO CONC. WALL
3. CONC. WALL

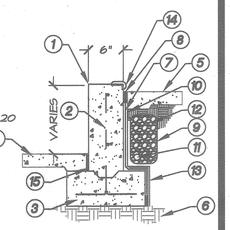
A PAVERS — SCALE: NTS



1. PAVERS BY ACKERSTONE (80 mm.) TUMBLED ANTIQUE COBBLE W/ I-PATTERN 13246 TEMESCAL CANYON ROAD, CORONA, CA 92883-5299 TEL: 909-322-1988
2. 1" SAND LEVELING BED (COMPACTED)*
3. AGG. BASE MATERIAL (COMPACTED)*
4. SANDLOCK ORGANIC JOINT SAND STABILIZER ADDITIVE BY PAVETECH
5. SUBGRADE (COMPACTED)*
6. CONCRETE BASE
7. FILTER CLOTH
8. 2" DIA. WEEP HOLE FILLED W/ PEA GRAVEL, 10' O.C. MAX.
9. #4 REBAR @ 8' O.C. EACH WAY

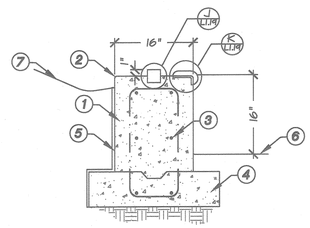
*ALL COMPACTED SOIL PER SOIL ENGINEER'S REPORT

H CONCRETE SPHERES — SCALE: NTS



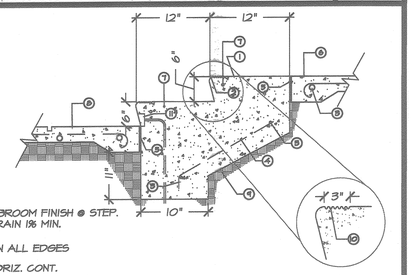
1. CONSTRUCT CONC. PAVING, 'CAST IN PLACE' WALLS W/ INTEGRAL COLOR: SUMMER BEIGE BY L.M.SCOFIELD / MEDIUM SANDBLAST FINISH 5206 TAMARA POINT, PANORA, IA 50216 TEL.: (323) 720-3030
2. #4 REBAR
3. CONCRETE FOOTING
4. CONC. PAVING SURFACE, SEE DETAIL F, SHT. #L1.20
5. CONC.-RAMP, PER CITY STANDARDS
6. COMPACTED SUBGRADE
7. WATER PROOFING
8. MASTIC SEAL @ MEMBRANE TERMINATIONS
9. MIRAFI' 140N FILTER FABRIC
10. PROTECTION BOARD, OVER 'BITUTHENE' MEMBRANE OVER PRIMED WALL
11. 4" PERFORATED DRAINLINE INSTALLED WITH PERFORATION DOWN. 1% MIN. GRADIENT FLOW TO END OF WALL. CONNECT TO CIVIL DRAIN LINE, SEE CIVIL PLANS.
12. CLASS 2 PERMEABLE FILTER MATERIAL COMPACTED TO ATLEAST 90% RELATIVE COMPACTION.
13. OVERLAP 'BITUTHENE' MEMBRANE AS RECOMMENDED BY MANUFACTURER.
14. SKATEBOARD STOP @ 36" O.C. AND V COVE (TYPICAL), SEE DETAIL K, SHT. #L1.19
15. EXPANSION JOINT, SEE DETAIL J, SHT. #L1.20

E WALL FURNISHING — SCALE: NTS



1. CONSTRUCT CONC. PAVING, 'CAST IN PLACE' WALLS W/ INTEGRAL COLOR: SUMMER BEIGE BY L.M.SCOFIELD / MEDIUM SANDBLAST FINISH 5206 TAMARA POINT, PANORA, IA 50216 TEL.: (323) 720-3030
2. 1/4" BEVELED COVE (TOP EDGES AND VERTICAL JOINTS AND TOP) @ 36" O.C. TYPICAL
3. #4 REBAR AT 12" O.C. EACH WAY
4. CONCRETE FOOTING
5. WATER PROOFING, SEE DETAIL #1, SHT. #L1.19
6. PAVING SURFACE
7. DRAINAGE SWALE

B GRANITE PAVERS — SCALE: NTS

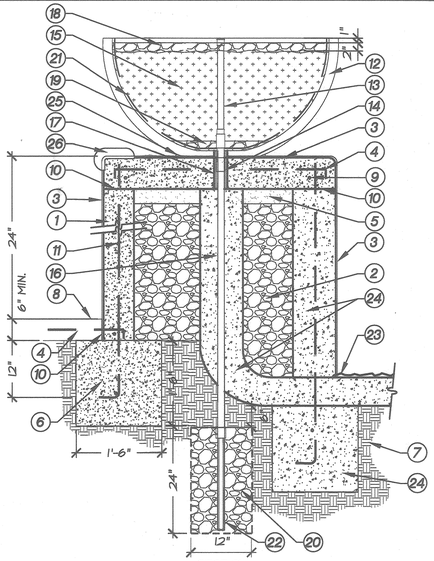


LEGEND

1. 12" WIDE LT. BROOM FINISH @ STEP. SLOPE TO DRAIN 1% MIN.
2. 1/4" RADIUS ON ALL EDGES
3. #4 REBAR HORIZ. CONT.
4. #4 REBAR VERT. @ 18" O.C.
5. EXPANSION JOINT W/ FILLER
6. CONCRETE PAVING
7. #3 REBAR IN NOSING CONT.
8. 6' x 4' x 3 1/2" CONCRETE LANDING
9. 90% COMPACTED SUBGRADE
10. NON-SKID GROOVES
11. STEP LIGHT W/ CONDUIT, SEE ELEC. PLANS

NOTE: COLOR OF STEPS TO MATCH PAVEMENT

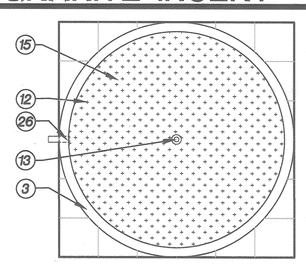
L POT ON FOUNTAIN PEDESTAL — SCALE: NTS



1. CAST IN PLACE CONCRETE WALL
2. INORGANIC RUBBLE FILL.
3. 6" X 6" CERAMIC TILE BY DALTILE PER DETAIL #1 / SHEET #L1.21
4. #4 DOWELS X 12" @ 16" O.C. AT CENTER OF SLAB WRAP SLAB SIDE.
5. 2" SAND LEVELING LAYER BED.
6. CONCRETE FOOTING.
7. COMPACTED SUBGRADE.
8. FINISH SURFACE OF ADJACENT HARDSCAPE, REFER TO CONSTRUCTION PLAN.
9. #4 REBAR CONT. AT TOP, BOTTOM AND FOOTING.
10. EXPANSION JOINT LOCATION.
11. #4 REBAR CONT. AT 12" O.C. BOTH WAYS.
12. CONCRETE POT. QR-CE 361BP. BY QUICK CRETE COLOR: SUMMER BEIGE, FINISH: T1
13. BUBBLER/EMITTER PER IRRIGATION PLAN.
14. 1 1/2" PVC SLIP COUPLING AT DRAIN LINE STUB-OUT. ADJUST TOP OF COUPLING FLUSH W/ BOTTOM OF POT. VERIFY OPENING W/ MANUFACTURER.
15. PLANTER MIX PER PLANTING PLAN.
16. 1/2" DRAIN LINE CONNECT TO DRY WELL.
17. CLEAR SILICONE SEALANT AROUND THE DRAIN LINE AND IRRIGATION LINE. VERIFY NO LEAKS. SEALANT SHOULD NOT BE VISIBLE.
18. 2" BAJA CRESTA 1"-3" CRUSHED ROCK.
19. 1/2" DIA. DRAIN GRAVEL 2" THICK.
20. DRY WELL W/ DRAIN GRAVEL. W/ 'MIRAFI' FILTER FABRIC WRAP AROUND THE DRAIN GRAVEL.
21. 'MIRAFI 140N' FILTER FABRIC. WRAP AROUND THE DRAIN GRAVEL AND THE SIDE AND BOTTOM OF POT.
22. PERFORATED DRAIN PIPE.
23. PEBBLETEC OR EQUIVALENT FINISH. COLOR: JET BLACK. CONTACT: (800) 937-5058
24. GUNITE
25. ELASTERIC BEAD (CONTINUOUS)
26. SKATEBOARD STOP, SEE DETAIL K, SHT. #L1.19

NOTE: WATER PROOFING OF POT PER MANUFACTURER REQUIREMENT

I WALL @ 16" DETAIL — SCALE: NTS



F WALL DETAIL — SCALE: NTS

1. CONSTRUCT CONC. PAVING, 'CAST IN PLACE' WALLS W/ INTEGRAL COLOR: SUMMER BEIGE BY L.M. SCOFIELD, / MEDIUM SANDBLAST FINISH PRODUCT, 5206 TAMARA POINT, PANORA, IA 50216 TEL.: (323) 720-3030
2. PRESIDIO WALL SEAT, MIX SEATING SYSTEM, COLOR: BLACK, BY LANDSCAPE FORMS, 431 LAWNDALE AVE., KALAMAZOO, MI 49048 TEL: (818) 761-0655
3. PROVIDE AND INSTALL FURNITURE COMPONENTS
4. WATER PROOFING, SEE DETAIL # 1, SHT. #L1.19
5. SLEEVE FOR BENCH MOUNTS. FABRICATE ANCHORAGE, AS-REQUIRED AND EPOXY IN PLACE

NOTE:
SEE CONSTRUCTION PLAN / SHEETS L1.1-L1.6 FOR LOCATIONS

C CONCRETE STEPS — SCALE: NTS

UNDERGROUND SERVICE ALERT
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1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4103
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LJD DRAWN BY JM / MA CHECKED BY LJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

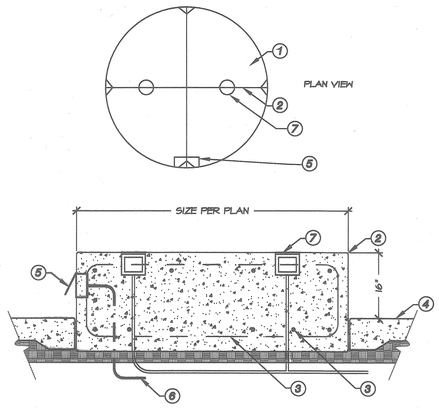
APPROVED BY
CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

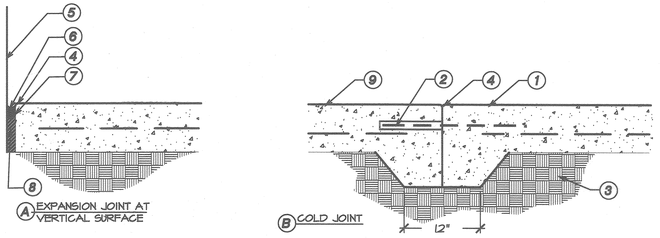
CONST. DETAILS
M-457
L1.19
SHEET 44 OF 100

BID SET



1. CONC. PODIUM (INTEGRAL COLOR) BY LM SCOFIELD, 5206 TAMARA POINT, PANORA, IA 50216, TEL. (323) 720-3030 CHARCOAL, #C-24 W/ LIGHT SANDBLAST FINISH
2. ¼" BEVELED COVE (CONT.) TOP EDGES AND VERTICAL JOINTS @ 36" O.C. TYPICAL
3. #4 REBAR @ 12" O.C. EACH WAY
4. CONC. PAVING PER, DETAIL#F, SHT.#L1.20
5. BRONZE (FLUSH DOOR) ELECTRICAL OUTLET WATERPROOF W/ G.F.I. AND LOCKABLE, SEE ELEC. PLAN
6. ELECTRICAL SERVICE FROM POWER SOURCE
7. FLORESCENT UP-LIGHT, SEE ELEC. PLAN

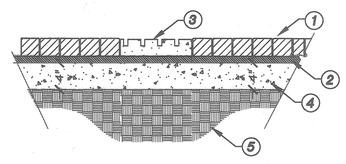
I DISPLAY PODIUM — SCALE: NTS



1. CONCRETE PAVING, COLOR, FINISH, AND JOINT LOCATION PER CONSTRUCTION PLAN.
2. 12" "SPEED DOWEL." USE 24" LONG SMOOTH #5 REBAR FOR SLIP DOWEL. SPACE DOWELS @ 36" O.C. TYP.
3. COMPACTED SUB-GRADE AND BASE MATERIAL PER GEOTECHNICAL REPORT.
4. TOOLED SCORE JOINT W/ ¼" RADIUS. TYP.
5. VERTICAL SURFACE OR AS NOTED
6. JOINT SEALANT. TRAFFIC CAULK JOINT SEALANT TO MATCH CONC. COLOR
7. BACKER ROD
8. PREMOLDED JOINT FILLER
9. EXISTING CONCRETE.

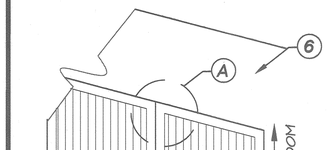
NOTE:
1. ALL SCORE & EXPANSION JOINTS TO END AT EDGE OF PAVEMENT.

J CONC. JOINT DETAIL — SCALE FACTOR: SCALE: NTS

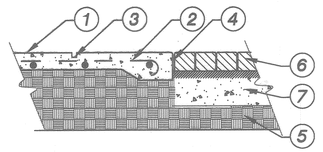


1. GRANITE PAVERS BY GOLD SPRINGS GRANITE, SIZE: 3" x 3", COLOR: CHARCOAL BLACK, 1971 SAGE AVE., CORONA, CA 92882 TEL: (951) 546-9042
2. SANDLOCK ORGANIC JOINT SAND STABILIZER ADDITIVE BY PAVETECH
3. SAW CUT GROVES, COLOR: SUMMER BEIGE BY L.M. SCOFIELD
4. CONCRETE SUB BASE
5. COMPACTED SUB-BASE

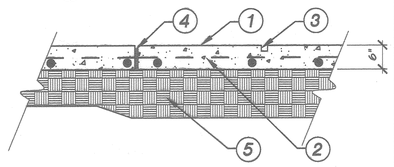
K GROOVE DETAIL — SCALE: NTS



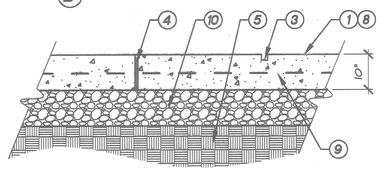
PLAN VIEW OF PATTERN



A SECTION VIEW W/ PAVERS



B PEDESTRIAN AREA SECTION VIEW

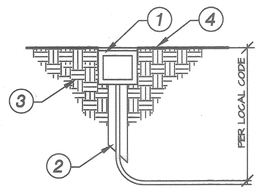


C VEHICULAR AREA SECTION VIEW

1. CONC. PAVING (INTEGRAL COLOR) BY LM SCOFIELD, 5206 TAMARA POINT, PANORA, IA 50216 TEL. (323) 720-3030 SUMMER BEIGE, #5234, W/ MEDIUM BROOM FINISH
2. #3 REBAR @ 24" O.C. EACH WAY
3. TOOLED SCORE LINE (3' X 3' GRID)
4. EXPANSION JOINT W/ FILLER @ 15' O.C. EACH WAY, PER DETAIL J, SHT. #L1.20
5. 90% COMPACTED SUB-GRADE
6. PAVER PER, DETAIL A, SHT.# L1.19
7. CONC. SUB BASE
8. 6" THK. P.C.C. PAVEMENT 2500 PSI @ 28 DAYS
9. #4 REBAR @12" O.C. EXP. JT. TO HAVE 12" LONG SPEED DOWEL 24" O.C.
10. 6" CL-11 AGG. BASE PER STRUCTURAL SOILS REPORT

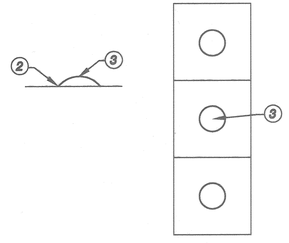
NOTE:
USE #C-24 CHARCHOAL W/ MED. BROOM FINISH FOR CALL OUT # 25

F CONCRETE PAVING 3' X 3' GRID — SCALE: NTS



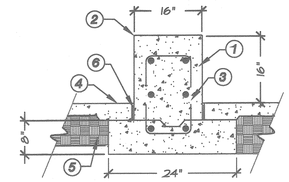
1. FLORESCENT UP-LIGHT, TYP.
2. CONDUIT OR DIRECT BURIAL ROMEX
3. COMPACTED SUB-GRADE
4. FINISH GRADE

H LIGHT DETAIL — SCALE: NTS



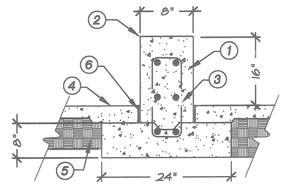
1. CERAMIC 6" BOTTS DOT, COLOR: BLACK, GLAZED FINISH PER CITY REQUIREMENT BY HY-VIZ'S TEL. (973)-541-6641
2. EPOXY TO PAVING SURFACE
3. CONC. PAVING, SEE DETAIL #F, SHT. L1.20

G TRAFFIC DOTS — SCALE: NTS



1. CONSTRUCT (CAST IN PLACE) CONC. BENCH W/ INTEGRAL COLOR: SUMMER BEIGE #5234, BY L.M. SCOFIELD COMPANY, 5206 TAMARA POINT, PANORA, IA 50216, TEL.. (323) 720-3030 MED. SANDBLAST FINISH
2. 1/4" BEVEL (ALL EDGES)
3. #4 REBAR @ 12" O.C.
4. CONC. PAVING PER DETAIL F, SHT# L1.20
5. COMPACTED SUBGRADE
6. EXPANSION JOINT, SEE DETAIL #J, SHT. #L1.20

C SEAT WALL — SCALE: NTS

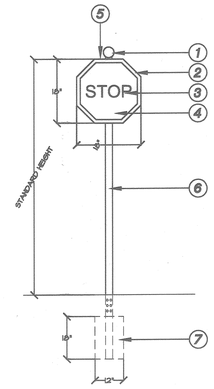


1. CONSTRUCT (CAST IN PLACE) EXPOSED AGGREGATE CONC. WALL (TO MATCH EXISTING)
2. 1/4" BEVEL (ALL EDGES)
3. #4 REBAR @ 12" O.C.
4. CONC. PAVING PER DETAIL F, SHT# L1.20
5. COMPACTED SUBGRADE
6. EXPANSION JOINT, SEE DETAIL #J, SHT. #L1.20

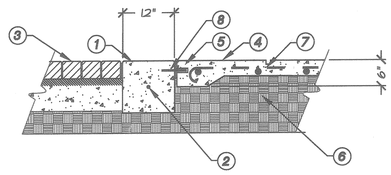
D EX. AGG. SEAT WALL — SCALE: NTS

LEGEND

1. 3" STEEL BALL
2. BLACK EDGE
3. WHITE LETTERING
4. RED BACKGROUND
5. BACK OF SIGN COLOR: BLACK
6. 2" X 2" STEEL POST COLOR: BLACK
7. CONCRETE FOOTING



A CUSTOM STOP SIGN — SCALE: NTS

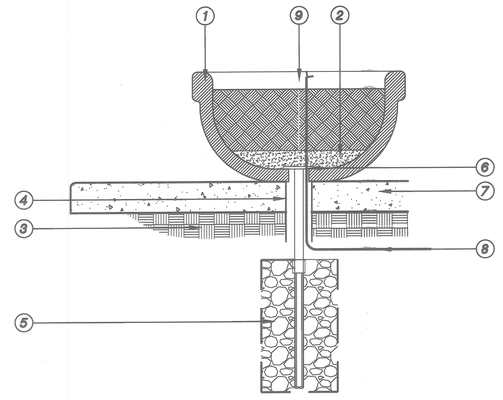


1. 12" WIDE CONCRETE INTEGRAL COLOR BAND/ L.M. SCOFIELD, 5206 TAMARA POINT, PANORA, IA 50216 TEL.. (323)720-3030 WITH LIGHT BROOM FINISH COLOR: CHARCOAL, #C-24
2. #3 REBAR (CONT.)
3. GRANITE PAVERS PER, DETAIL #B, SHT. #L1.19
4. CONC. PAVING PER, DETAIL#F, SHT. # L1.20
5. 6" THICK EDGE @ CONC. BAND
6. COMPACTED SUB-GRADE
7. #3 REBAR HOOK
8. SPEED DOWEL, SEE DETAIL #J, SHT. #L1.20

B CONC. BAND @ PAVING — SCALE: NTS

LEGEND

1. POT - SEE PLANTING PLAN AND POT SCHEDULE WATERPROOF PRIOR TO PLANTING
2. WARREN'S TERRABOND WITH 2" LAYER OF PEA GRAVEL
3. COMPACTED SUBGRADE
4. 3" SCH. 40 PVC PIPE TO 12" DIA., 18" DEEP DRAINAGE SUMP
5. DRAINAGE SUMP W/ DRAIN GRAVEL W/ MIRAFI FILTER FABRIC WRAP AROUND THE DRAIN GRAVEL
6. 1" BUSHING SEALED W/ SILICON TO POT
7. CONCRETE SEE CONSTRUCTION PLAN
8. SEE IRRIGATION PLAN FOR TUBING SPECS.
9. SEE IRRIGATION PLAN FOR NOZZLE TYPE



E POT DETAIL — SCALE: NTS

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4313
E-MAIL: IDAVIDSON@DSLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN DAVIDSON — Signature — 5/30/09 — Exp. 08/16 — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE _____

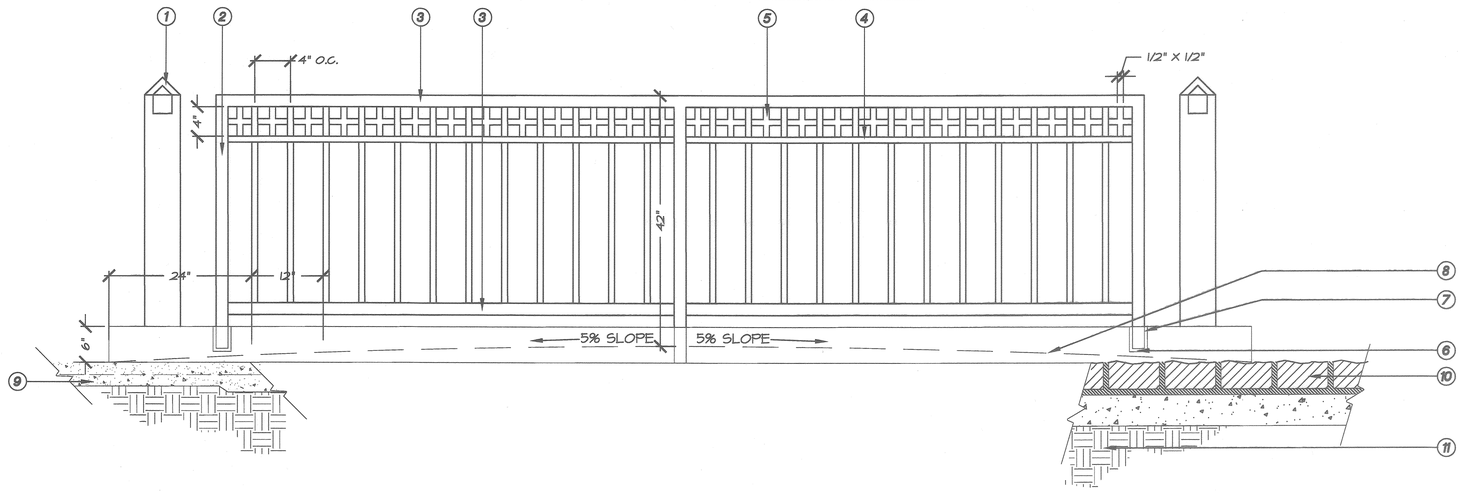
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

CONST. DETAILS
M-457
L1.20

SHEET 45 OF 100

BID SET

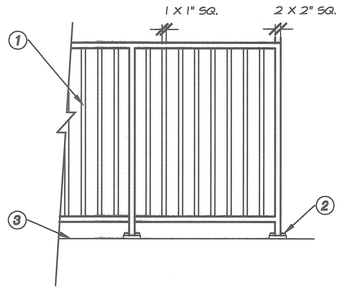


LEGEND

1. BEGA BOLLARD, COLOR: STANDARD BEGA COLOR AND FINISH, SEE ELECTRICAL PLAN, BY BEGA, 3217 HONOLULU AVE., GLENDALE, CA 91214 TEL: (818) 541-6641
2. 2" X 2" STEEL POST
3. 2" X 2" STEEL RAILS
4. 1" X 1" STEEL PICKETS @ 6" O.C.
5. ½" X ½" STEEL TRIM ACCENT
6. 3" DIA. CORE DRILL IN CONC. (6" DEEP)
7. EPOXY POST IN PLACE
8. BRIDGE ARCH RAMP (EXP. PEA CONC. - CHARCOAL)
9. CONC. PAVING PER DETAIL #F / SHEET #L1.19
10. PAVERS PER DETAILS #A / #L1.19
11. COMPACTED SUBGRADE (95%)

B LINEAR FOUNTAIN BRIDGE RAILING

SCALE: NTS

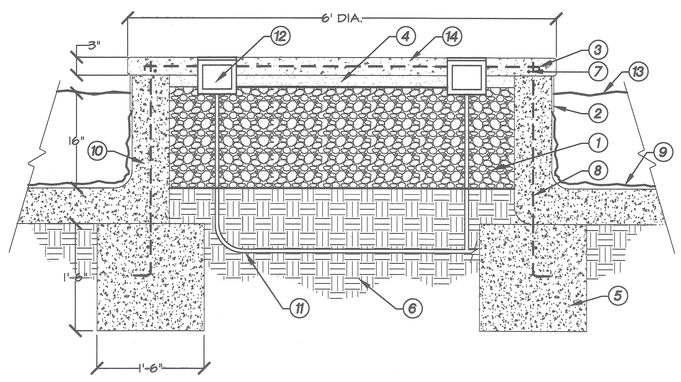


LEGEND:
1. EXISTING WROUGHT IRON TRAP FENCE TO BE REMOVED, REFINISHED, AND REPLACED
2. BOLTS
3. FINISH GRADE.

NOTE: REFINISH METAL WITH TWO COATS OF RUST INHIBITING PRIMER & TWO COATS GLOSS BLOCK ENAMEL FINISH.

H PATIO FENCE

SCALE: NTS



LEGEND

1. INORGANIC RUBBLE FILL
2. 6" X 6" CERAMIC TILE BY DALTILE MODEL: DM14 COBALT CONTACT: 1132 DURYEA, IRVINE, CA. 92614 (949) 757-7060
3. #4 DOWELS X 12" @ 12" O.C. AT CENTER OF SLAB WRAP SLAB SIDE
4. 2" SAND LEVELING LAYER BED
5. GUNITE FOOTING
6. COMPACTED SUBGRADE
7. #3 REBAR CONT. AT TOP, BOTTOM, AND FOOTING
8. #3 REBAR CONT. AT 12" O.C. BOTH WAYS
9. PEBBLETEC OR EQUIVALENT FINISH COLOR: JET BLACK CONTACT: (800) 937-5056
10. GUNITE
11. ELECTRICAL SERVICE FROM POWER SOURCE
12. FLORESCENT UPLIGHT, SEE CASCADE FOUNTAIN PLAN, SHEET L1.11
13. WATER LINE
14. POURED IN PLACE CONC. CAP COLOR: CHARCOAL, W/ MEDIUM BROOM FINISH

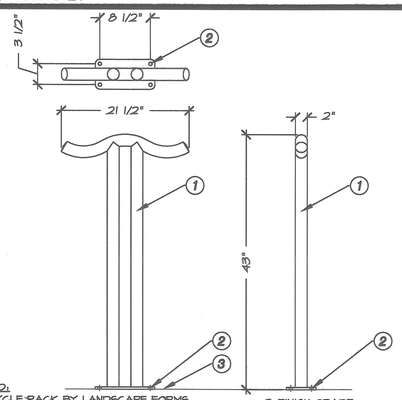
I CIRCULAR FOUNTAIN PODIUM WALL DETAIL

SCALE: 1"=1'

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

G BICYCLE RACK

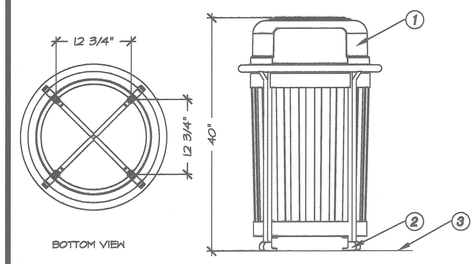
SCALE: NTS



LEGEND:
1. BICYCLE RACK BY LANDSCAPE FORMS MODEL: PI, COLOR: BLACK 431 LAWNDALE AVE., KALAMAZOO, MI 49048 TEL: (818) 761-0655
2. FREESTANDING OR SURFACE MOUNT OPTIONS. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS. 9/16" DIA. MOUNTING HOLES.

E TRASH RECEPTACLE

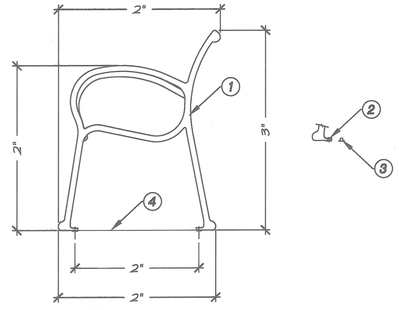
SCALE: NTS



LEGEND:
1. TRASH RECEPTACLE W/ SAND PAN BY LANDSCAPE FORMS MODEL: SCARBOROUGH, COLOR: BLACK 431 LAWNDALE AVE., KALAMAZOO, MI 49048 TEL: (818) 761-0655
2. FREESTANDING OR SURFACE MOUNT OPTIONS. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS. 7/16" DIA. MOUNTING HOLES.
3. FINISH GRADE.

D BENCH (3 ARM)

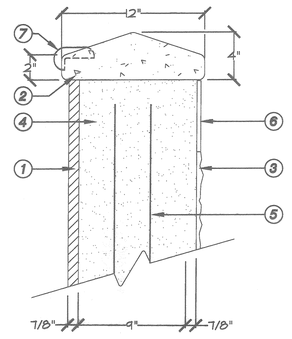
SCALE: NTS



LEGEND:
1. 3 ARM BENCH BY LANDSCAPE FORMS MODEL: SCARBOROUGH, COLOR: BLACK 431 LAWNDALE AVE., KALAMAZOO, MI 49048 TEL: (818) 761-0655
2. FREESTANDING OR SURFACE MOUNT OPTIONS. NON-CORROSIVE ANCHORING HARDWARE SUPPLIED BY OTHERS. 7/16" DIA. MOUNTING HOLES.
3. GLIDE
4. FINISH GRADE.

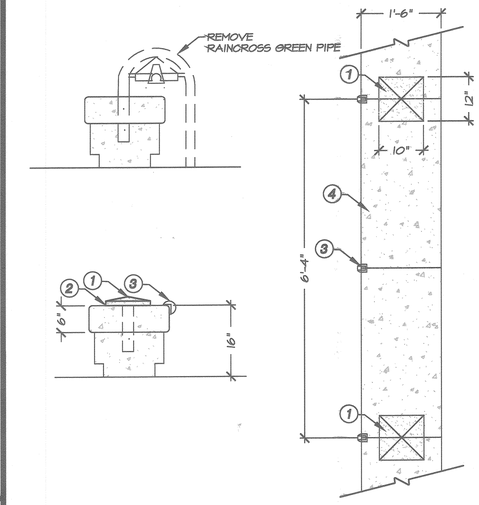
F CIRCULAR FOUNTAIN WALL DETAIL

SCALE: 1"=1/2'



LEGEND

1. HARD TROWEL FINISH W/ MEDIUM ACID ETCH FINISH
2. CUSTOM PRECAST CONCRETE CAP BY QUICKCRETE COLOR: CHARCOAL INTEGRAL COLOR, FINISH: T7 CONTACT: 731 PARKRIDGE AVE., NORCO, CA. 92860 (951) 737-6240
3. PEBBLETEC OR EQUIVALENT FINISH. COLOR: JET BLACK. CONTACT: (800) 937-5058
4. GUNITE
5. DOUBLE WALLED REBAR
6. 6" X 6" CERAMIC TILE BY DALTILE MODEL: DM14 COBALT CONTACT: 1132 DURYEA, IRVINE, CA. 92614 (949) 757-7060
7. SKATEBOARD STOP BY SKATE STOPPERS @ 36" O.C. MODEL: MALLORY DESIGN 1444 PIONEER WAY, SUITE 13. EL CAJON, CA 92020 TEL: 619-447-6514



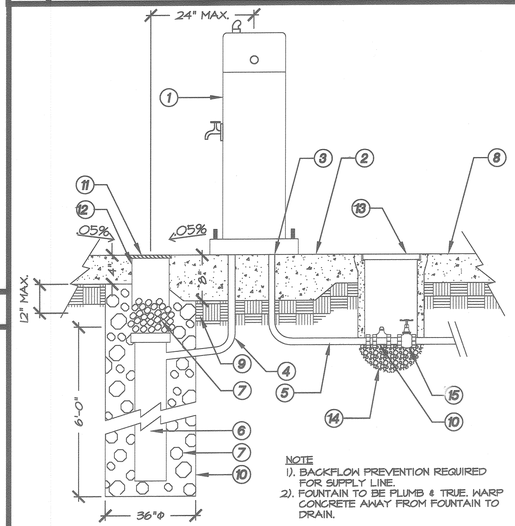
PLAN VIEW

1. PRECAST DECORATIVE CONC. CAP BY QUICKCRETE MODEL P.O. BOX 639, 731 PARKRIGDE AVE., NORCO, CA 92860 #: Q-EIOPC
2. COLOR: SUMMER BEIGE W/ LIGHT SAND-BLAST FINISH) TEL: (951) 737-7032

   EPOXY CAP TO WALL TO COVER PIPE HOLE
3. 'BRONZE' SKATEBOARD STOP LOCATED AT EACH DEC. CAP. SAW CUT AND EPOXY TO EX. WALL
4. EXISTING FOUNTAIN WALL

A EX. FOUNTAIN WALL DETAIL

SCALE: NTS



NOTE
1). BACKFLOW PREVENTION REQUIRED FOR SUPPLY LINE.
2). FOUNTAIN TO BE PLUMB & TRUE. WARP CONCRETE AWAY FROM FOUNTAIN TO DRAIN.

LEGEND:

1. DRINKING FOUNTAIN MFG: MURDOCK 2488 RIVER ROAD, CINCINNATI, OHIO 45204. TEL: (513) 471-7100 MODEL NO. M-80NP FINISH: FACTORY FINISH PONDERCOAT, BLACK IN COLOR INSTALL PER MFG'S SPECIFICATIONS
2. CONCRETE FOUNDATION WITH CONCRETE PAD PER DETAIL #F / SHEET #L1.20
3. 2" SLEEVE
4. 1 1/2" PVC SCH. 40 DRAIN LINE
5. 3/4" DIA. PVC SUPPLY LINE
6. 4" PERFORATED PIPE WITH CAP AT TOP
7. 3/4" CRUSHED AGGREGATE
8. FINISH GRADE
9. 95% COMPACTED SUBGRADE
10. PARKWAY GRATE #212 BY BROOKS (213)283-0631
11. CONCRETE CATCH BASIN #212 BY BROOKS
12. CONCRETE VALUE BOX WITH LOCKABLE, CAST IRON LID & CONCRETE EXTENSIONS AS NECESSARY.
13. 3/4"Ø REA GRAVEL BASE
14. 1" GATE VALVE
15. 1" PLUGGED TEE FOR LINE DRAIN.

C DRINKING FOUNTAIN

SCALE: NTS

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4113
E-MAIL: IDAVIDSON@ROADRUNNER.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON #2539 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY I.D. DRAWN BY IM / MA CHECKED BY I.D.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER

DATE _____

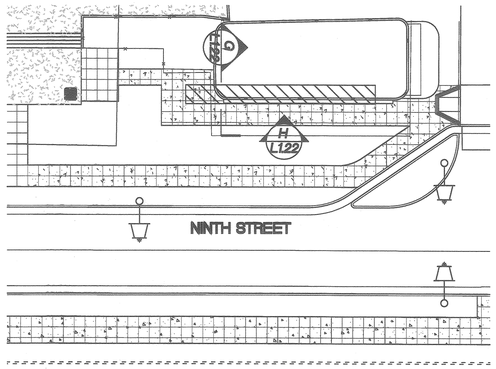
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

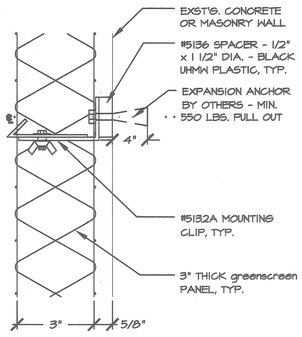
CONST. DETAILS
M-457
L1.21

SHEET 46 OF 100

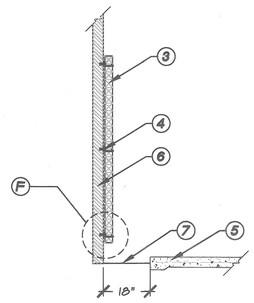
BID SET



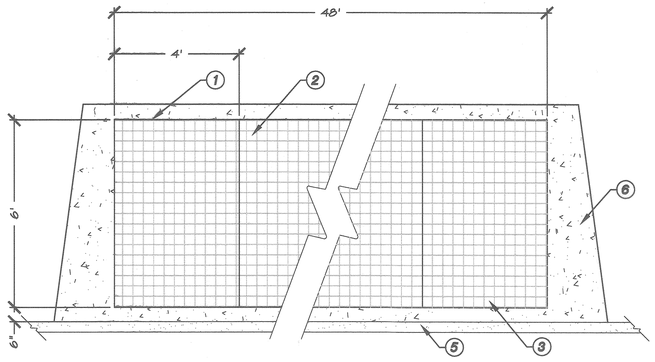
E UTILITY WALL SCRIM PLAN



F #5132A GREENSCREEN CLIP



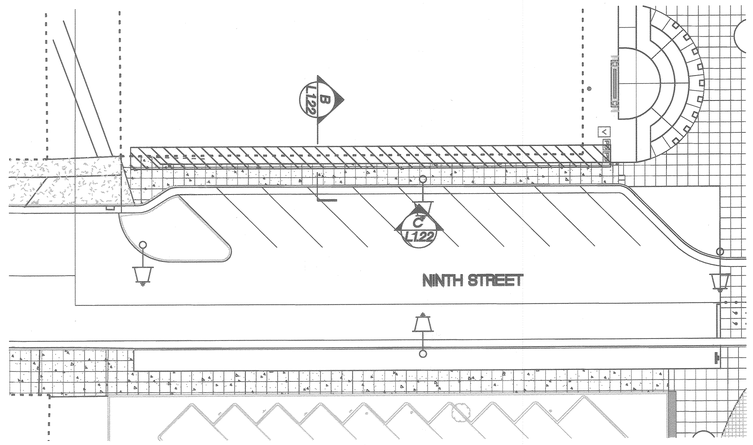
G GREENSCREEN SECTION



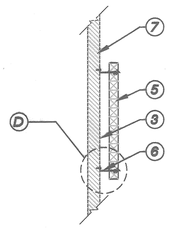
H GREENSCREEN ELEVATION

LEGEND:
1. SAW CUT EDGE
2. PAINT EXISTING WALL BEHIND SCRIM W/ ANTI-GRAFFITI PAINT
3. 4' X 6' GREENSCREEN PANEL. COLOR: BLACK
4. GREENSCREEN #5132 A ADJUSTABLE MOUNTING CLIP. (6) PER PANEL. COLOR: BLACK
5. CONC. PAVING, SEE DETAIL #F, SHT. #L1.20
6. EXISTING UTILITY WALL
7. PLANTING AREA

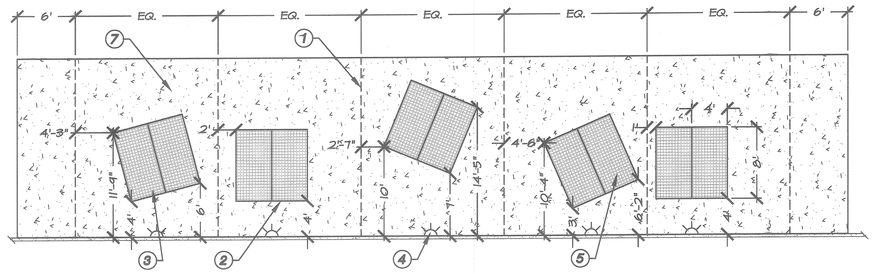
NOTE:
SECURE CLIP TO EXISTING WALL W/ LAG BOLT, LOCK WASHER, AND EXPANSION SHIELD.



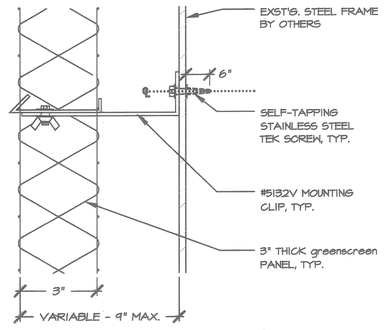
A PARKING STRUCTURE WALL SCRIM PLAN



B GREENSCREEN SECTION



C GREENSCREEN ELEVATION



D #5132V GREENSCREEN CLIP

LEGEND:
1. SAW CUT
2. SAW CUT EDGE
3. PAINT EXISTING WALL BEHIND SCRIM W/ ANTI-GRAFFITI PAINT
4. SCRIM UP-LIGHTS
5. 8' SQ. GREENSCREEN. 2 - 4' X 8' PANELS FOR ART ELEMENTS. COLOR: BLACK
6. GREENSCREEN #5132 V ADJUSTABLE MOUNTING CLIP. (8) PER PANEL. COLOR: BLACK
7. EXISTING PARKING STRUCTURE WALL

NOTE:
1. EXACT LOCATION OF GREENSCREENS TO BE VERIFIED IN FIELD.
2. SECURE CLIP TO EXISTING WALL W/ LAG BOLT, LOCK WASHER, AND EXPANSION SHIELD

B UTILITY WALL SCRIM — SCALE: NTS

A PARKING STRUCTURE WALL SCRIM — SCALE: NTS

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4702
E-MAIL: IDAVIDSON@IDSAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON 4028
Signature
6/30/09
EXP. DATE
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE

DOWNTOWN MALL
LANDSCAPE PLANS

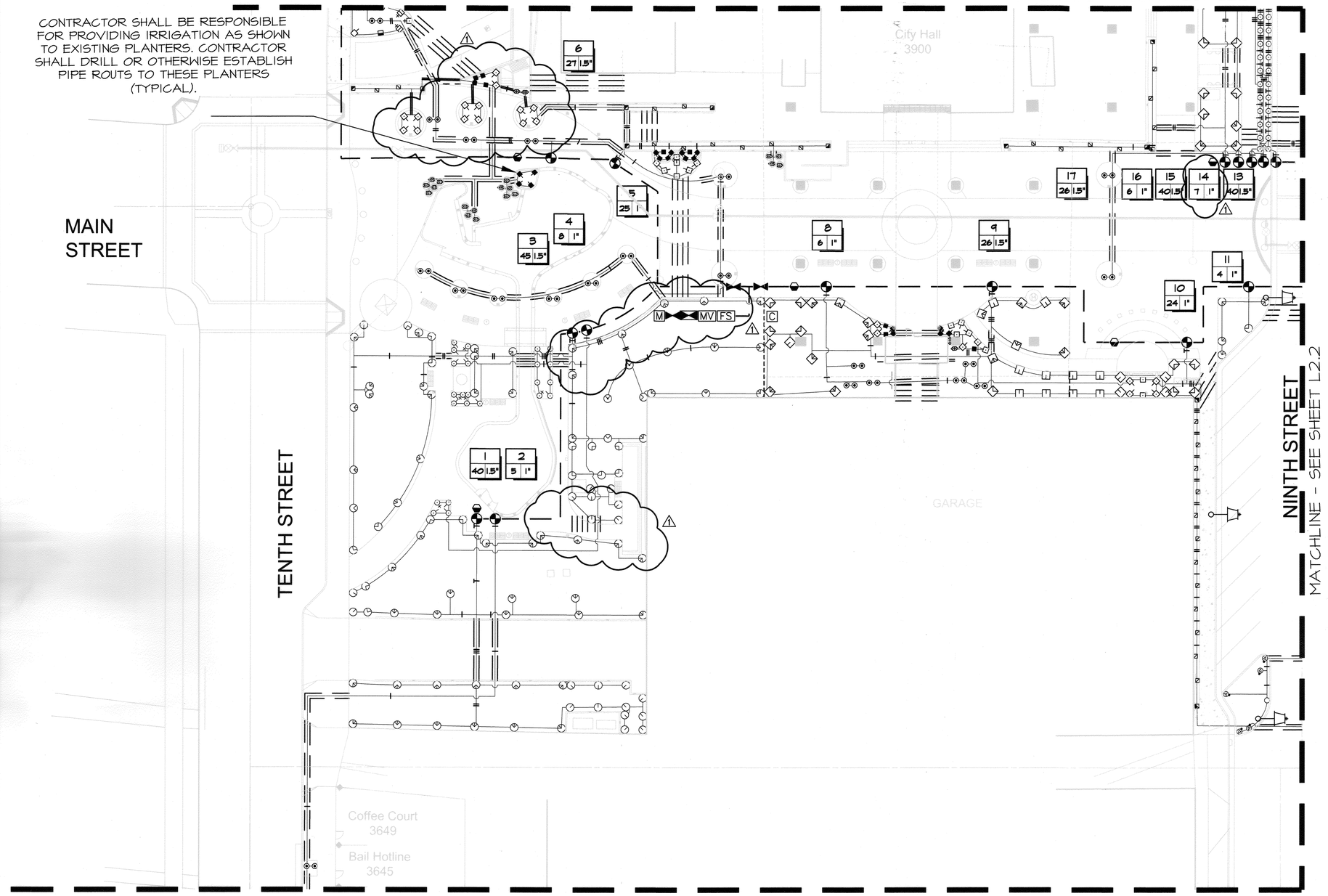
12/03/07

ART ELEMENTS
M-457
L1.22

SHEET 47 OF 100

BID SET

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING IRRIGATION AS SHOWN TO EXISTING PLANTERS. CONTRACTOR SHALL DRILL OR OTHERWISE ESTABLISH PIPE ROUTS TO THESE PLANTERS (TYPICAL).



MATCHLINE - SEE SHEET L2.4

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	Q/T/H/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	8-VAN	6'	30			.14 - 1.2				
	RAIN BIRD 1806-SAM-PRS-8	Q/T/H/F	8'	30	.26	.35	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	30			.36 - 1.7				
	RAIN BIRD 1806-SAM-PRS-10	Q/T/H/F	10'	30	.34	.35	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	30			.36 - 2.6				
	RAIN BIRD 1806-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	30	.65	.87	1.5	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	30			.36 - 2.6				
	RAIN BIRD 1806-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	30	.42	1.2	1.4	2.3	2.6	5.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	30			.46 - 5.7				
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	30			.57 - 5.5				
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/BST/CST	4'x15'	30			.61/1.21/1.21				
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	Q/T/H/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	8-VAN	6'	30			.14 - 1.2				
	RAIN BIRD 1812-SAM-PRS-8	Q/T/H/F	8'	30	.26	.35	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	30			.36 - 1.7				
	RAIN BIRD 1812-SAM-PRS-10	Q/T/H/F	10'	30	.34	.35	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	30			.36 - 2.6				
	RAIN BIRD 1812-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	30	.65	.87	1.5	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	30			.36 - 2.6				
	RAIN BIRD 1812-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	30	.42	1.2	1.4	2.3	2.6	5.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	30			.46 - 5.7				
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	30			.57 - 5.5				
	RAIN BIRD 1812-SAM-PRS-5-S	Q/H/F/CST	5'	30			0.23/1.0/1.5/10.5				
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/BST/CST	4'x15'	30			.61/1.21/1.21				
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	30			0.5				

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.57			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-40-210	17'	30	.38	.48	.68	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1806-SAM-PRS	MP3000-40-210	21'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	21'	30						3.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.57			
	RAIN BIRD 1812-SAM-PRS	MP2000-40-210	17'	30	.38	.48	.68	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1812-SAM-PRS	MP3000-40-210	21'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	21'	30						3.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2200S AUTOMATIC CONTROLLER CONTACT BOB MOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-28-06 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-06 SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-6LVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-28-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

	0.75" PIPE
	1" PIPE
	1.25" PIPE
	1.5" PIPE
	2" PIPE
	2.5" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	4-18 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	34-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS

(HIGHEST FLOW=45 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	5.9
BACKFLOW DEVICE	2"	12.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.5
LATERAL LINES	@ FPS	1.9
SUBTOTAL PRESSURE LOSSES		25.9
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		28.5
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		58.5
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		6.7

POINT OF CONNECTION 'A' - POTABLE
WATER METER #
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE -2"
FLOW SENSOR - 2"
MASTER VALVE - 2"
MAXIMUM DEMAND - 45 GPM
NUMBER OF VALVES - 52
CONTROLLER SIZE - 52 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20,128 SQ. FT.
TOTAL AREA COVERED - 27,838 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 45 GPM. STATIC PRESSURE AT METER IS 68 PSI. INFORMATIN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITIES AT 826-5285 ON JULY 8, 2007. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951-683-1283 . FAX 951-683-4052
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
	SUPERCEDES SHT L2.1	APP	3-25-08

DESIGNED BY LJD DRAWN BY JM / MA CHECKED BY LJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	SGF	3/25/08
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

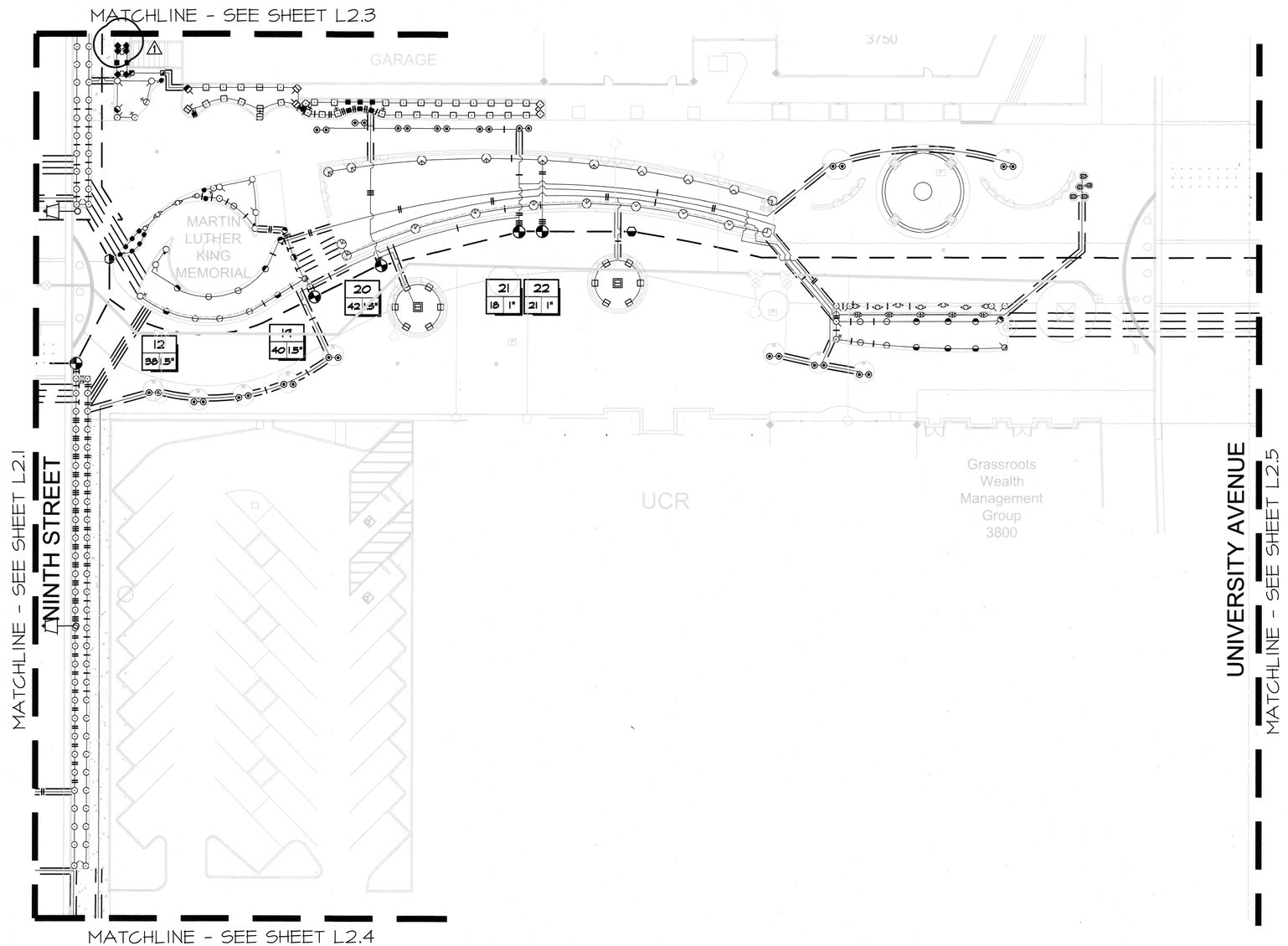
DOWNTOWN MALL
LANDSCAPE PLANS

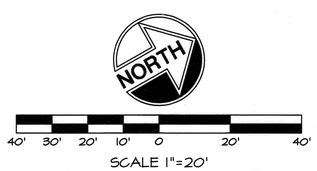
3/20/08

IRRIGATION PLAN
M-457
L2.1A

SHEET 48 OF 100

BID SET





SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	Q/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	6-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1806-SAM-PRS-8	Q/T/H/F	8'	50	.26	.35	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	50	.36 - 1.7						
	RAIN BIRD 1806-SAM-PRS-10	Q/T/H/F	10'	50	.54	.75	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	50	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	50	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	50	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	50	.92	1.2	1.4	2.5	2.8	5.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	50	.67 - 5.5						
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/BST/CST	4'x15'	50	.61/1.21/1.21						
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	Q/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	6-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1812-SAM-PRS-8	Q/T/H/F	8'	50	.26	.35	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	50	.36 - 1.7						
	RAIN BIRD 1812-SAM-PRS-10	Q/T/H/F	10'	50	.54	.75	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	50	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	50	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	50	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	50	.92	1.2	1.4	2.5	2.8	5.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	50	.67 - 5.5						
	RAIN BIRD 1812-SAM-PRS-5-S	Q/H/F/CST	5'	50	.05/1.0/1.5/0.5						
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/BST/CST	4'x15'	50	.61/1.21/1.21						
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	50	.05						

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-40-210	12'	50	.16	.22	.32	.37			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-40-210	17'	50	.33	.46	.65	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	50						1.5	
	RAIN BIRD 1806-SAM-PRS	MP3000-40-210	27'	50	.74	1.1	1.6	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	27'	50						5.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-40-210	12'	50	.16	.22	.32	.37			
	RAIN BIRD 1812-SAM-PRS	MP2000-40-210	17'	50	.33	.46	.65	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	50						1.5	
	RAIN BIRD 1812-SAM-PRS	MP3000-40-210	27'	50	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	27'	50						5.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000E AUTOMATIC CONTROLLER. CONTACT BOB HOXLEY AT CALSENSE FOR MODEL NUMBER.	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-26-06 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-SS SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-BLVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-26-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

	0.75" PIPE
	1" PIPE
	1.25" PIPE
	1.5" PIPE
	2" PIPE
	2.5" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-6 WIRES	N/A
1.5" SLEEVE	7-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-56 WIRES	1" PIPE
3" SLEEVE	54-84 WIRES	1.25" PIPE
4" SLEEVE	59-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW-48 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	9.4
BACKFLOW DEVICE	2"	12.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.5
LATERAL LINES	@ FPS	1.4
SUBTOTAL PRESSURE LOSSES		28.9
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		26.3
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		56.3
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION 'A' - POTABLE
WATER METER #1
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE -2"
FLOW SENSOR - 2"
MASTER VALVE - 2"
MAXIMUM DEMAND - 48 GPM
NUMBER OF VALVES - 52
CONTROLLER SIZE - 52 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20129 SQ. FT.
TOTAL AREA COVERED - 27,856 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 48 GPM. STATIC PRESSURE AT METER IS 65 PSI. INFORMATIN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITIES AT 826-5235 ON JULY 5, 2007. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3144 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 - FAX 951.683.4172
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN DAVIDSON #2821 Signature 3/20/08 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
	SUPERCEDES SHT L2.2	AFD	3-25-08

DESIGNED BY UD DRAWN BY JM / MA CHECKED BY UD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	SAC	3/24/08
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 3/24/08

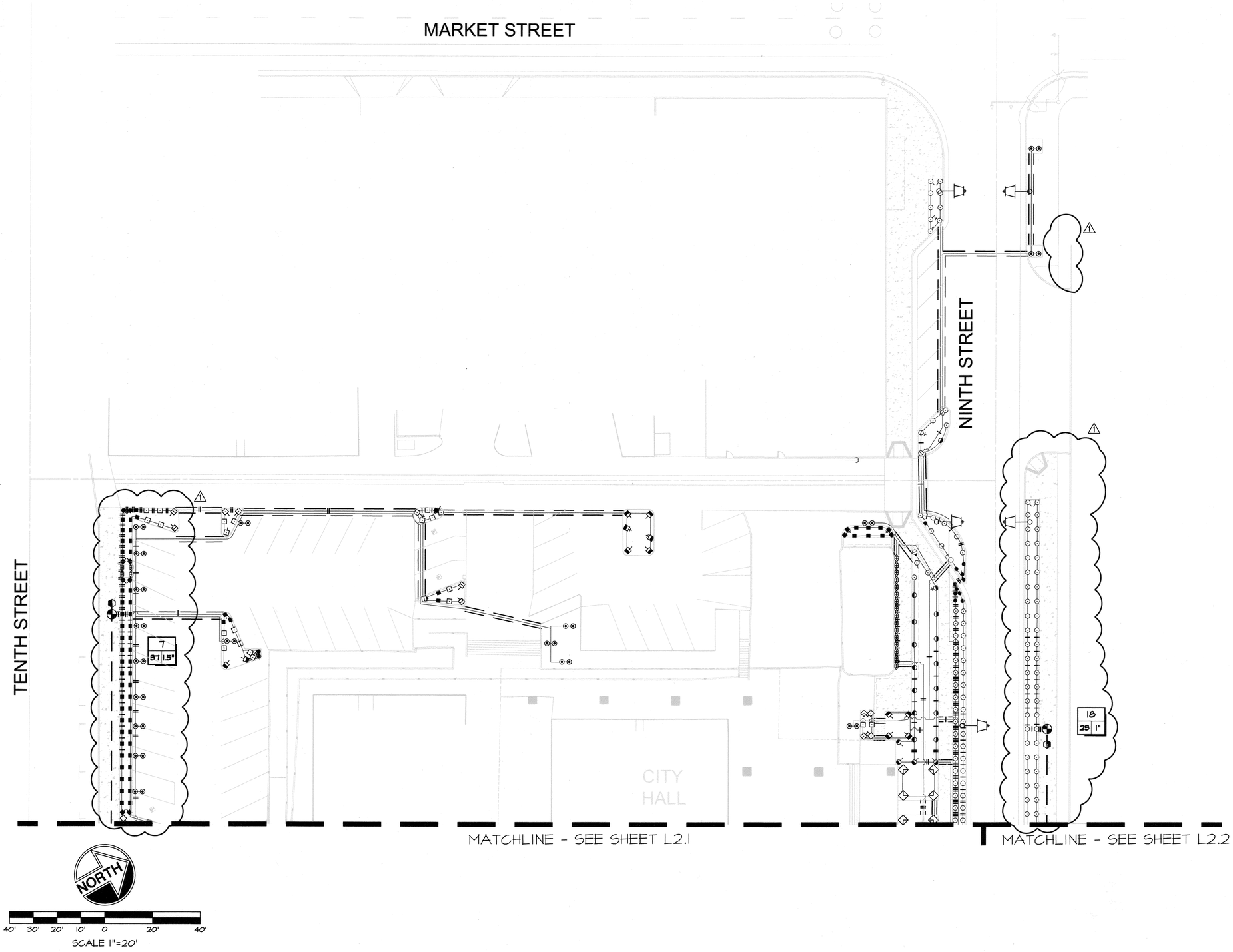
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

IRRIGATION PLAN
M-457
L2.2A

SHEET 49 OF 100

BID SET



SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	0/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	8-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1806-SAM-PRS-8	0/T/H/F	8'	50	.26	.35	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	50	.56 - 1.7						
	RAIN BIRD 1806-SAM-PRS-10	0/T/H/F	10'	50	.24	.35	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	50	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-12	0/T/H/TT/TQ/F	12'	50	.65	.97	1.3	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	50	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-15	0/T/H/TT/TQ/F	15'	50	.42	1.2	1.4	2.3	2.6	5.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	50	.97 - 5.5						
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	50	.61/1.21/1.21						
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	0/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	8-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1812-SAM-PRS-8	0/T/H/F	8'	50	.26	.35	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	50	.56 - 1.7						
	RAIN BIRD 1812-SAM-PRS-10	0/T/H/F	10'	50	.24	.35	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	50	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-12	0/T/H/TT/TQ/F	12'	50	.65	.97	1.3	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	50	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-15	0/T/H/TT/TQ/F	15'	50	.42	1.2	1.4	2.3	2.6	5.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	50	.97 - 5.5						
	RAIN BIRD 1812-SAM-PRS-5-B	0/H/F/CST	5'	50	0.31/1.01/1.51/2.03						
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	50	.61/1.21/1.21						
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	50	0.5						

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-40-210	12'	50	.16	.22	.32	.57			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-40-210	17'	50	.28	.48	.68	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	50						1.3	
	RAIN BIRD 1806-SAM-PRS	MP3000-40-210	21'	50	.74	1.1	1.6	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	21'	50						3.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-40-210	12'	50	.16	.22	.32	.57			
	RAIN BIRD 1812-SAM-PRS	MP2000-40-210	17'	50	.28	.48	.68	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	50						1.3	
	RAIN BIRD 1812-SAM-PRS	MP3000-40-210	21'	50	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	21'	50						3.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000E AUTOMATIC CONTROLLER CONTACT BOB HOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-26-08 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-SS SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-SLVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-26-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

0.75" PIPE	
1" PIPE	
1.25" PIPE	
1.5" PIPE	
2" PIPE	
2.5" PIPE	
3" PIPE	
4" PIPE	
6" PIPE	
8" PIPE	

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	9-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-36 WIRES	1" PIPE
3" SLEEVE	36-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW=45 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	9.9
BACKFLOW DEVICE	2"	12.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.8
LATERAL LINES	@ FPS	1.9
SUBTOTAL PRESSURE LOSSES		29.9
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		26.8
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		56.8
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 45 GPM. STATIC PRESSURE AT METER IS 65 PSI. INFORMATIN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITIES AT 826-5285 ON JULY 8, 2001. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

POINT OF CONNECTION 'A' - POTABLE
METER METER #
METER SIZE = 1.5"
BACKFLOW PREVENTER SIZE -2"
FLOW SENSOR - 2"
MASTER VALVE - 2"
MAXIMUM DEMAND - 45 GPM
NUMBER OF VALVES - 52
CONTROLLER SIZE - 52 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20/28 SQ. FT.
TOTAL AREA COVERED - 27,888 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

UNDERGROUND SERVICE ALERT
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4312
E-MAIL: IDAVIDSON@DLANC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
	SUPERCEDES SHT L2.3	MD	3-25-08

DESIGNED BY I.D. DRAWN BY JM / MA CHECKED BY I.D.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/24/08

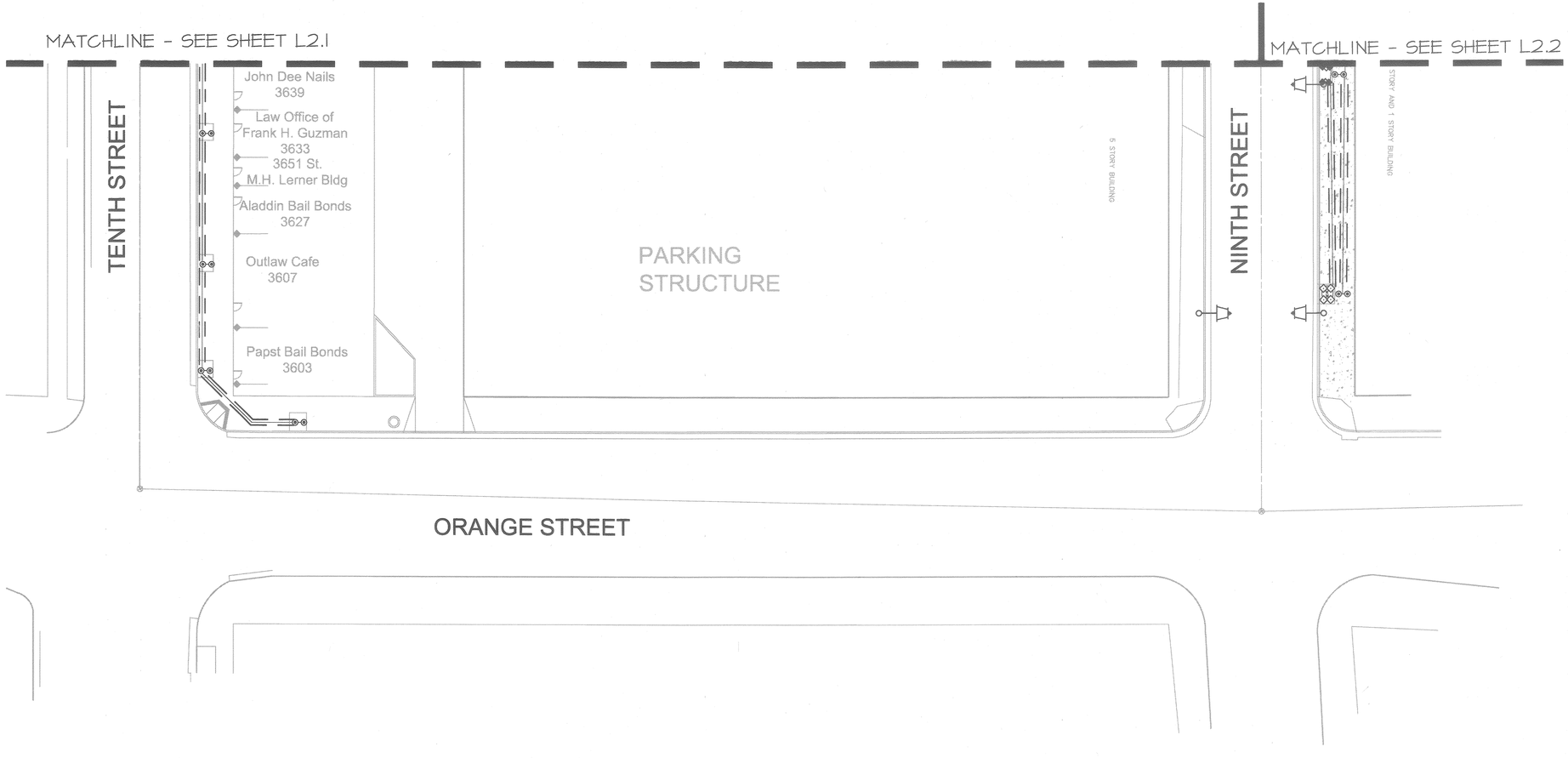
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

IRRIGATION PLAN
M-457
L2.3A

SHEET 50 OF 100

BID SET



SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	6/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	6-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1806-SAM-PRS-8	6/T/H/F	8'	50	.26	.55	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	50	.36 - 1.7						
	RAIN BIRD 1806-SAM-PRS-10	6/T/H/F	10'	50	.54	.55	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	50	.55 - 2.6						
	RAIN BIRD 1806-SAM-PRS-12	6/T/H/TT/TQ/F	12'	50	.65	.87	1.5	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	50	.55 - 2.6						
	RAIN BIRD 1806-SAM-PRS-15	6/T/H/TT/TQ/F	15'	50	.72	1.2	1.9	2.3	2.8	5.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	50	.57 - 9.5						
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	50	.61/1.21/1.21						
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	6/T/H/F	5'	50	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	6-VAN	6'	50	.14 - 1.2						
	RAIN BIRD 1812-SAM-PRS-8	6/T/H/F	8'	50	.26	.55	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	50	.36 - 1.7						
	RAIN BIRD 1812-SAM-PRS-10	6/T/H/F	10'	50	.54	.55	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	50	.55 - 2.6						
	RAIN BIRD 1812-SAM-PRS-12	6/T/H/TT/TQ/F	12'	50	.65	.87	1.5	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	50	.55 - 2.6						
	RAIN BIRD 1812-SAM-PRS-15	6/T/H/TT/TQ/F	15'	50	.72	1.2	1.9	2.3	2.8	5.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	50	.46 - 5.7						
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	50	.57 - 9.5						
	RAIN BIRD 1812-SAM-PRS-5-B	6/H/F/CST	5'	50	0.51/1.01/1.15/0.5						
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	50	.61/1.21/1.21						
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	50	0.5						

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-10-210	12'	50	.16	.22	.52	.57			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-10-210	17'	50	.55	.48	.65	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	50						1.5	
	RAIN BIRD 1806-SAM-PRS	MP3000-10-210	27'	50	.74	1.1	1.8	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	27'	50						9.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-10-210	12'	50	.16	.22	.52	.57			
	RAIN BIRD 1812-SAM-PRS	MP2000-10-210	17'	50	.55	.48	.65	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	50						1.5	
	RAIN BIRD 1812-SAM-PRS	MP3000-10-210	27'	50	.74	1.1	1.8	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	27'	50						9.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000e AUTOMATIC CONTROLLER CONTACT BOB MOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-26-03 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-SS SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-BLVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-26-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	14 GA DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

	0.75" PIPE
	1" PIPE
	1.25" PIPE
	1.5" PIPE
	2" PIPE
	2.5" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	4-16 WIRES	0.5" PIPE
2" SLEEVE	11-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	34-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW-45 GPM)

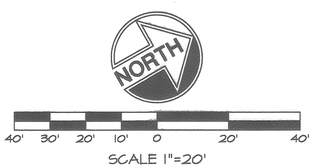
EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	5.4
BACKFLOW DEVICE	2"	13.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.5
LATERAL LINES	@ PSI	1.9
SUBTOTAL PRESSURE LOSSES		25.9
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		28.3
PRESSURE REQUIRED AT HEAD		50.0
TOTAL PRESSURE REQUIRED		56.3
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 45 GPM. STATIC PRESSURE AT METER IS 65 PSI. INFORMATIN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITIES AT 826-5235 ON JULY 5, 2007. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

POINT OF CONNECTION 'A' - POTABLE
WATER METER #
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE -2"
FLOW SENSOR - 2"
MASTER VALVE -2"
MAXIMUM DEMAND - 45 GPM
NUMBER OF VALVES - 38
CONTROLLER SIZE - 32 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20,128 SQ. FT.
TOTAL AREA COVERED - 27,838 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.



SCALE 1"=20'

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.9283 . FAX 951.683.4103
E-MAIL: IDAVIDSON@SBCGLOBAL.COM

REGISTERED LANDSCAPE ARCHITECT
IAN A. DAVIDSON #2891
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY IAD DRAWN BY JM / MA CHECKED BY IAD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	SG	12/7/07
PRINCIPAL ENGINEER	MF	12/14/07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

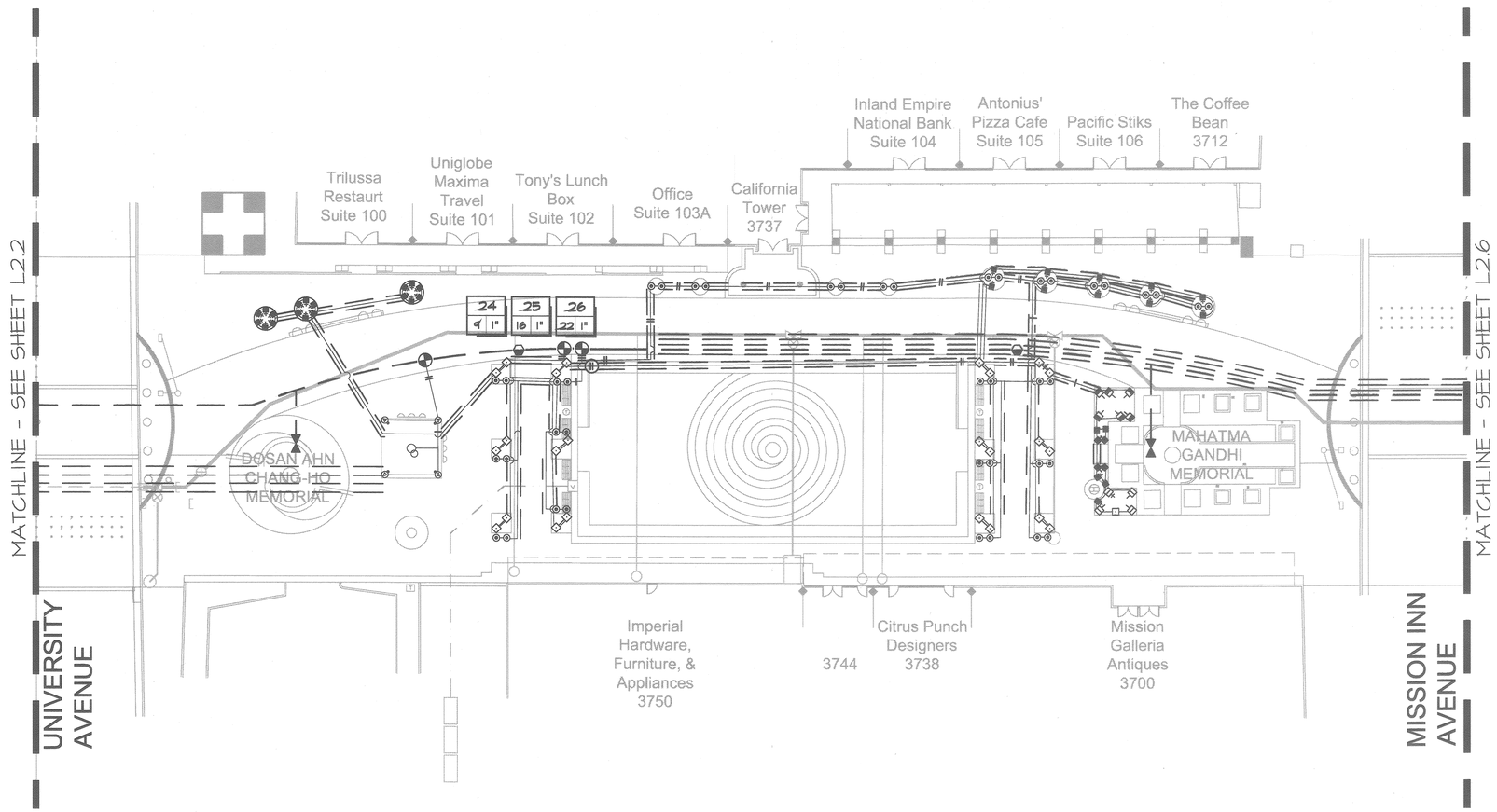
APPROVED BY
CITY ENGINEER
DATE 12/17/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

IRRIGATION PLAN
M-457
L2.4
SHEET 51 OF 100

BID SET



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	6/T/M/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	6-VAN	6'	30			.19 - 1.2				
	RAIN BIRD 1806-SAM-PRS-8	6/T/M/F	8'	30	.26	.58	.82			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	30			.36 - 1.7				
	RAIN BIRD 1806-SAM-PRS-10	6/T/M/F	10'	30	.54	.58	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	30			.36 - 2.6				
	RAIN BIRD 1806-SAM-PRS-12	6/T/M/TT/TQ/F	12'	30	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	30			.58 - 2.6				
	RAIN BIRD 1806-SAM-PRS-15	6/T/M/TT/TQ/F	15'	30	.92	1.2	1.9	2.5	2.8	3.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	30			.46 - 3.7				
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	30			.67 - 3.5				
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	30			.61/1.21/1.21				
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	6/T/M/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	6-VAN	6'	30			.19 - 1.2				
	RAIN BIRD 1812-SAM-PRS-8	6/T/M/F	8'	30	.26	.58	.82			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	30			.36 - 1.7				
	RAIN BIRD 1812-SAM-PRS-10	6/T/M/F	10'	30	.54	.58	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	30			.36 - 2.6				
	RAIN BIRD 1812-SAM-PRS-12	6/T/M/TT/TQ/F	12'	30	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	30			.58 - 2.6				
	RAIN BIRD 1812-SAM-PRS-15	6/T/M/TT/TQ/F	15'	30	.92	1.2	1.9	2.5	2.8	3.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	30			.46 - 3.7				
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	30			.67 - 3.5				
	RAIN BIRD 1812-SAM-PRS-5-S	6/M/F/CST	5'	30			0.31/0.13/10.5				
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	30			.61/1.21/1.21				
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	30			0.5				

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW Q	T	H	.210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.37			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-40-210	17'	30	.35	.48	.68	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1806-SAM-PRS	MP3000-40-210	27'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	27'	30						3.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.37			
	RAIN BIRD 1812-SAM-PRS	MP2000-40-210	17'	30	.35	.48	.68	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1812-SAM-PRS	MP3000-40-210	27'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	27'	30						3.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000S AUTOMATIC CONTROLLER CONTACT BOB MOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-26-08 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-66 SERIES STAINLESS STEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-BLVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-26-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

	0.75" PIPE
	1" PIPE
	1.25" PIPE
	1.5" PIPE
	2" PIPE
	2.5" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-5 WIRES	N/A
1.5" SLEEVE	6-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	39-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW-48 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	5.4
BACKFLOW DEVICE	2"	12.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.3
LATERAL LINES	@ FPS	1.4
SUBTOTAL PRESSURE LOSSES		28.4
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		28.3
PRESSURE REQUIRED AT HEAD		50.0
TOTAL PRESSURE REQUIRED		56.3
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION 'A' - POTABLE
WATER METER #1
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE =2"
FLOW SENSOR - 2"
MASTER VALVE - 2"
MAXIMUM DEMAND - 48 GPM
NUMBER OF VALVES - 26
CONTROLLER SIZE - 32 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20,128 SQ. FT.
TOTAL AREA COVERED - 27,838 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 48 GPM. STATIC PRESSURE AT METER IS 65 PSI. INFORMATIN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITIES AT 826-5235 ON JULY 5, 2007. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

UNDERGROUND SERVICE ALERT
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1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 50TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/08
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

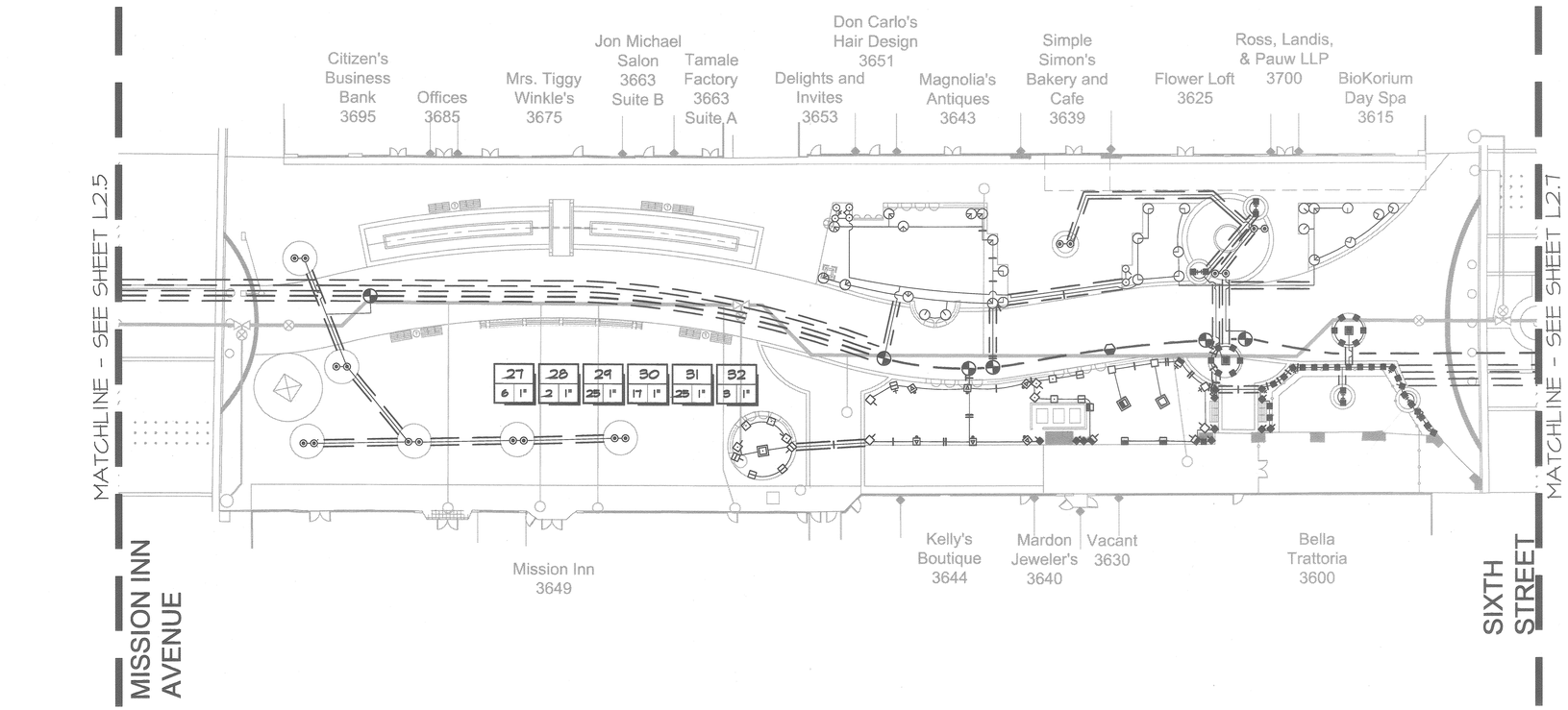
APPROVED BY
CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

IRRIGATION PLAN
M-457
L2.5
SHEET 52 OF 100

BID SET



SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	TT	TG	P	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-S	G/T/M/P	9'	30	.10	.18	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	S-VAN	6'	30	.14 - 1.2						
	RAIN BIRD 1806-SAM-PRS-S	G/T/M/P	8'	30	.26	.55	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	S-VAN	8'	30	.56 - 1.7						
	RAIN BIRD 1806-SAM-PRS-10	G/T/M/P	10'	30	.54	.55	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	30	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-12	G/T/M/TT/TG/P	12'	30	.65	.57	1.3	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	30	.56 - 2.6						
	RAIN BIRD 1806-SAM-PRS-15	G/T/M/TT/TG/P	15'	30	.92	1.2	1.9	2.3	2.8	3.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	30	.46 - 3.7						
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	30	.67 - 3.5						
	RAIN BIRD 1806-SAM-PRS-13 STRIP	EST/BST/CST	4'x13'	30	.61/1.21/1.21						
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-S	G/T/M/P	9'	30	.10	.18	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	S-VAN	6'	30	.14 - 1.2						
	RAIN BIRD 1812-SAM-PRS-S	G/T/M/P	8'	30	.26	.55	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	S-VAN	8'	30	.56 - 1.7						
	RAIN BIRD 1812-SAM-PRS-10	G/T/M/P	10'	30	.54	.55	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	30	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-12	G/T/M/TT/TG/P	12'	30	.65	.57	1.3	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	30	.56 - 2.6						
	RAIN BIRD 1812-SAM-PRS-15	G/T/M/TT/TG/P	15'	30	.92	1.2	1.9	2.3	2.8	3.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	30	.46 - 3.7						
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	30	.67 - 3.5						
	RAIN BIRD 1812-SAM-PRS-S-S	G/M/P/CST	9'	30	0.51/0.1/3/0.25						
	RAIN BIRD 1812-SAM-PRS-13 STRIP	EST/BST/CST	4'x13'	30	.61/1.21/1.21						
TREE BUBBLERS											
	RAIN BIRD MQ2	N/A	N/A	30	0.5						

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	.210	TG	P	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-90-210	12'	30	.16	.22	.32	.37			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-90-210	17'	30	.35	.48	.69	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	30						1.3	
	RAIN BIRD 1806-SAM-PRS	MP5000-90-210	27'	30	.74	1.1	1.5	1.9			
	RAIN BIRD 1806-SAM-PRS	MP5000-360	27'	30						3.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-90-210	12'	30	.16	.22	.32	.37			
	RAIN BIRD 1812-SAM-PRS	MP2000-90-210	17'	30	.35	.48	.69	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	30						1.3	
	RAIN BIRD 1812-SAM-PRS	MP5000-90-210	27'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP5000-360	27'	30						3.2	
MP ROTATOR NOZZLES AVAILABLE FROM EWING IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000e AUTOMATIC CONTROLLER CONTACT BOB MOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-28-08 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-SS SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-BLVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-28-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

0.75"	0.75" PIPE
1"	1" PIPE
1.25"	1.25" PIPE
1.5"	1.5" PIPE
2"	2" PIPE
2.5"	2.5" PIPE
3"	3" PIPE
4"	4" PIPE
6"	6" PIPE
8"	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	9-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-58 WIRES	1" PIPE
3" SLEEVE	59-84 WIRES	1.25" PIPE
4" SLEEVE	85-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW-45 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	9.4
BACKFLOW DEVICE	2"	13.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.5
LATERAL LINES	45 FPS	1.4
SUBTOTAL PRESSURE LOSSES		29.9
MISC. LOSSES THRU SYSTEM (10%)		3.4
TOTAL PRESSURE LOSSES		26.3
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		56.3
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION INTO NEW SITE WATER METER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR IRRIGATION SYSTEM ISOLATION. INSTALL BACKFLOW PREVENTER IMMEDIATELY DOWNSTREAM OF BALL VALVE PER ALL LOCAL CODES. FINAL BACKFLOW PREVENTER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 45 GPM. STATIC PRESSURE AT METER IS 65 PSI. INFORMATN RECEIVED FROM STELLA AT RIVERSIDE PUBLIC UTILITES AT 826-5285 ON JULY 3, 2007. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO START OF INSTALLATION. IF A PRESSURE RELATED ISSUE IS IDENTIFIED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

POINT OF CONNECTION 'A' - POTABLE
WATER METER #1
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE =2"
FLOW SENSOR - 2"
MASTER VALVE - 2"
MAXIMUM DEMAND - 45 GPM
NUMBER OF VALVES - 28
CONTROLLER SIZE - 32 STATION
AREA SHRUBS - 7,710 SQ. FT.
AREA TURF - 20,128 SQ. FT.
TOTAL AREA COVERED - 27,838 SQ. FT.

CONTROLLER
FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER. THE OWNER IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
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227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4312
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

	BY	DATE
APPROVED BY		
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

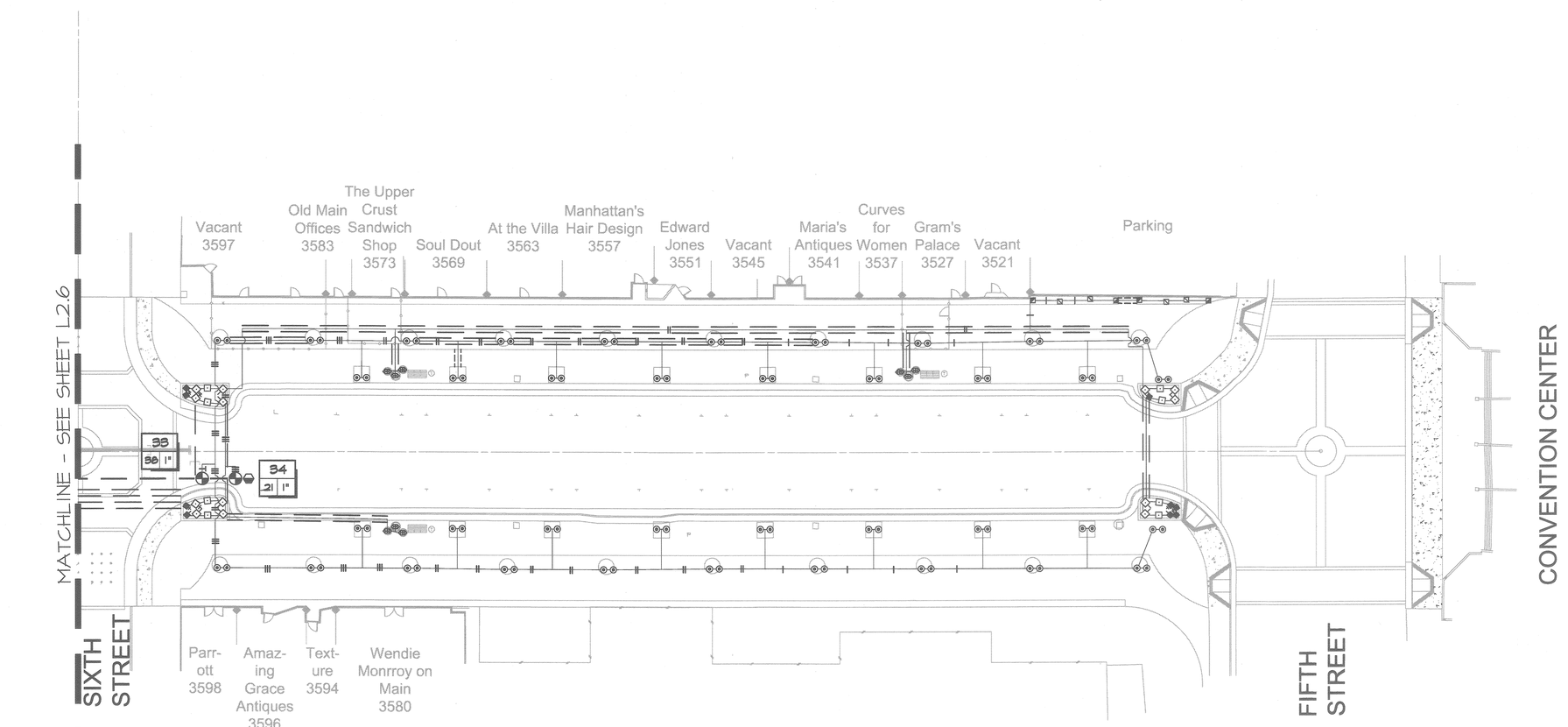
APPROVED BY
CITY ENGINEER
DATE 12/5/07

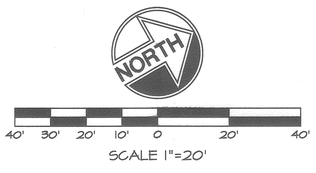
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

IRRIGATION PLAN
M-457
L2.6
SHEET 53 OF 100

BID SET





SCALE 1"=20'

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	TT	TQ	F	DETAIL
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS-5	Q/T/H/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	6-VAN	6'	30	.14 - 1.2						
	RAIN BIRD 1806-SAM-PRS-8	Q/T/H/F	8'	30	.26	.38	.52			1.1	
	RAIN BIRD 1806-SAM-PRS	8-VAN	8'	30	.36 - 1.7						
	RAIN BIRD 1806-SAM-PRS-10	Q/T/H/F	10'	30	.34	.38	.74			1.6	
	RAIN BIRD 1806-SAM-PRS	10-VAN	10'	30	.38 - 2.6						
	RAIN BIRD 1806-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	30	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1806-SAM-PRS	12-VAN	12'	30	.38 - 2.6						
	RAIN BIRD 1806-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	30	.92	1.2	1.9	2.3	2.8	5.7	
	RAIN BIRD 1806-SAM-PRS	15-VAN	15'	30	.46 - 5.7						
	RAIN BIRD 1806-SAM-PRS	18-VAN	18'	30	.57 - 5.5						
	RAIN BIRD 1806-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	30	.61/1.21/1.21						
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS-5	Q/T/H/F	5'	30	.10	.15	.20			.41	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1812-SAM-PRS	6-VAN	6'	30	.14 - 1.2						
	RAIN BIRD 1812-SAM-PRS-8	Q/T/H/F	8'	30	.26	.38	.52			1.1	
	RAIN BIRD 1812-SAM-PRS	8-VAN	8'	30	.36 - 1.7						
	RAIN BIRD 1812-SAM-PRS-10	Q/T/H/F	10'	30	.34	.38	.74			1.6	
	RAIN BIRD 1812-SAM-PRS	10-VAN	10'	30	.38 - 2.6						
	RAIN BIRD 1812-SAM-PRS-12	Q/T/H/TT/TQ/F	12'	30	.65	.87	1.3	1.7	2.0	2.6	
	RAIN BIRD 1812-SAM-PRS	12-VAN	12'	30	.38 - 2.6						
	RAIN BIRD 1812-SAM-PRS-15	Q/T/H/TT/TQ/F	15'	30	.92	1.2	1.9	2.3	2.8	5.7	
	RAIN BIRD 1812-SAM-PRS	15-VAN	15'	30	.46 - 5.7						
	RAIN BIRD 1812-SAM-PRS	18-VAN	18'	30	.57 - 5.5						
	RAIN BIRD 1812-SAM-PRS-5-S	Q/H/F/CST	5'	30	0.5/1.0/1.5/10.5						
	RAIN BIRD 1812-SAM-PRS-15 STRIP	EST/SST/CST	4'x15'	30	.61/1.21/1.21						
TREE BUBBLERS											
	RAIN BIRD 1402	N/A	N/A	30	0.5						

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL	NOZZLE	RAD	PSI	FLOW G	T	H	210	TQ	F	DETAIL
TURF POP-UP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1806-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.97			REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
	RAIN BIRD 1806-SAM-PRS	MP2000-40-210	17'	30	.33	.48	.68	.74			
	RAIN BIRD 1806-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1806-SAM-PRS	MP3000-40-210	21'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1806-SAM-PRS	MP3000-360	21'	30						3.2	
SHRUB HI-POP HEADS WITH MP ROTATOR NOZZLE, CHECK VALVE AND PRESSURE REGULATION											
	RAIN BIRD 1812-SAM-PRS	MP1000-40-210	12'	30	.16	.22	.32	.97			
	RAIN BIRD 1812-SAM-PRS	MP2000-40-210	17'	30	.33	.48	.68	.74			
	RAIN BIRD 1812-SAM-PRS	MP2000-360	17'	30						1.5	
	RAIN BIRD 1812-SAM-PRS	MP3000-40-210	21'	30	.74	1.1	1.6	1.9			
	RAIN BIRD 1812-SAM-PRS	MP3000-360	21'	30						3.2	
MP ROTATOR NOZZLES AVAILABLE FROM EVANS IRRIGATION.											

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
C	CALSENSE ET-2000S AUTOMATIC CONTROLLER CONTACT BOB HOXLEY AT CALSENSE FOR MODEL NUMBER	40 STA	REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS
M	WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER	2"	
MV	TORO 220-26-05 BRASS MASTER CONTROL VALVE	2"	
FS	DATA INDUSTRIAL IR220-SS SERIES STAINLESS STEEL FLOW SENSOR	2"	
	NIBCO T-580-70 BRONZE BALL VALVE	LINE SIZE	
	TORO 100-ELVLC QUICK COUPLING VALVE WITH LOCKING VINYL COVER	1"	
	TORO P-220-26-XX REMOTE CONTROL VALVE	PLAN SIZE	
	CLASS 315 PVC IRRIGATION PRESSURE MAINLINE - 18" MINIMUM COVER	3"	
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE	
	SCH 40 PVC IRRIGATION PIPE/CONTROL WIRE SLEEVE - 18" MINIMUM COVER	PLAN SIZE	
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS	N/A	

PIPE SIZING

	0.75" PIPE
	1" PIPE
	1.25" PIPE
	1.5" PIPE
	2" PIPE
	2.5" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING

1.25" SLEEVE	1-9 WIRES	N/A
1.5" SLEEVE	4-16 WIRES	0.5" PIPE
2" SLEEVE	11-25 WIRES	0.75" PIPE
2.5" SLEEVE	21-36 WIRES	1" PIPE
3" SLEEVE	34-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

STATION # / CONTROLLER

FLOW (GPM)	VALVE SIZE

PRESSURE LOSS CALCULATIONS (HIGHEST FLOW-45 GPM)

EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	5.6
BACKFLOW DEVICE	2"	12.0
FLOW SENSOR	2"	1.0
MASTER VALVE	2"	2.0
MAINLINE	3"	0.8
CONTROL VALVE	1.5"	2.5
LATERAL LINES	45 FPS	1.4
SUBTOTAL PRESSURE LOSSES		25.4
MISC. LOSSES THRU SYSTEM (10%)		2.4
TOTAL PRESSURE LOSSES		26.8
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		56.8
DESIGN PRESSURE		65.0
RESIDUAL PRESSURE		8.7

POINT OF CONNECTION 'A' - POTABLE
WATER METER #1
METER SIZE = 1.5"
BACKFLOW PREVENTER SIZE =2"
FLOW SENSOR = 2"
MASTER VALVE = 2"
MAXIMUM DEMAND = 45 GPM
NUMBER OF VALVES = 38
CONTROLLER SIZE = 52 STATION
AREA SHRUBS = 7,710 SQ. FT.
AREA TURF = 20,128 SQ. FT.
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POINT OF CONNECTION
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON 4028 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

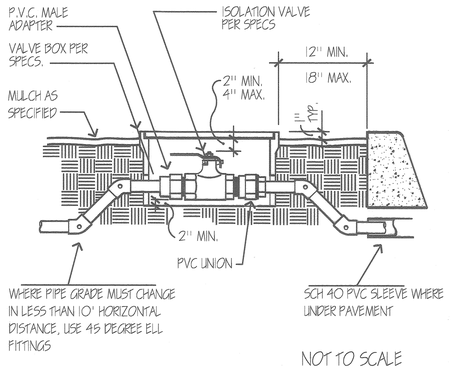
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

IRRIGATION PLAN
M-457
L2.7
SHEET 54 OF 100

BID SET

M-457

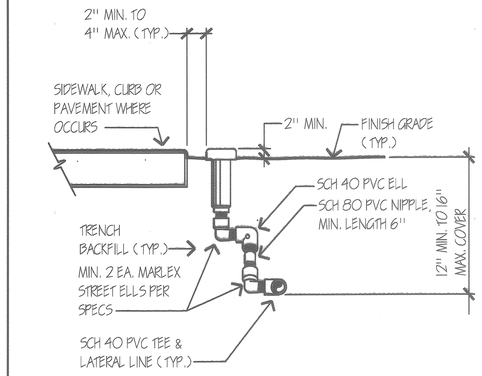


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

ISOLATION VALVE IN BOX

Detail No. 4052

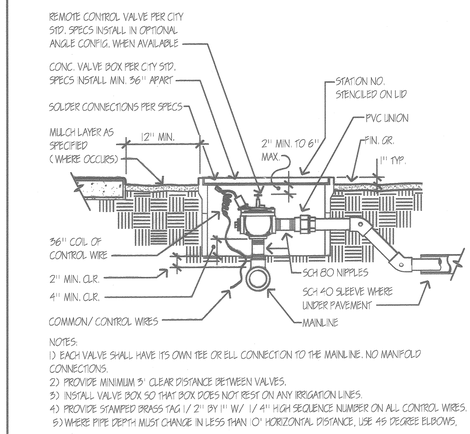


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

IRRIGATION SPRAY HEAD

Detail No. 4040

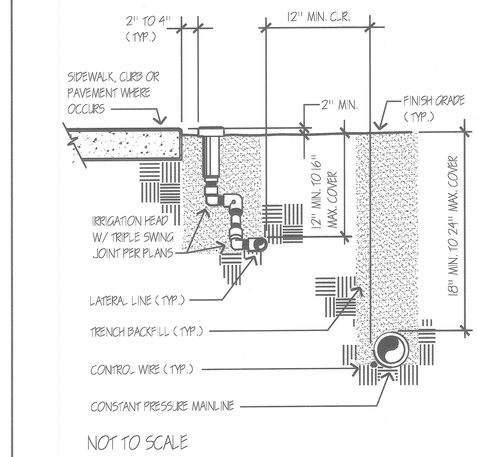


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

REMOTE CONTROL VALVE

Detail No. 4030

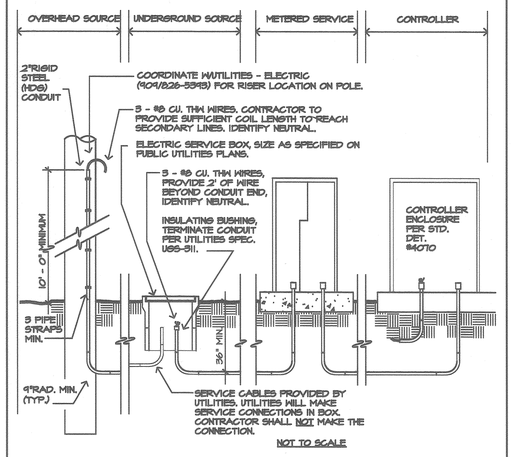


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

TRENCH AND LINE PLACEMENT

Detail No. 4010

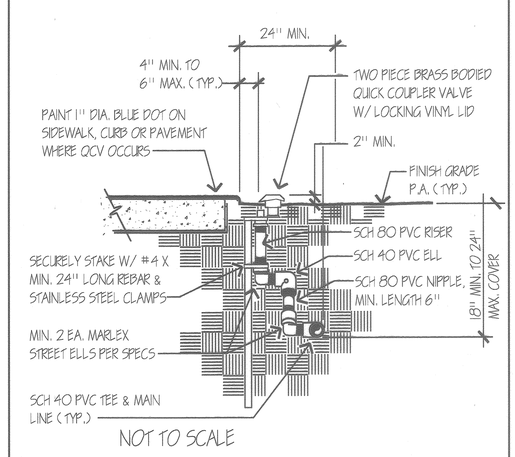


Approved	Date
BJ	05/01/02
Revised	Date
BJ - Rev. Conductors	11/21/02

Park and Recreation Department
CITY OF RIVERSIDE

METERED ELECTRIC SERVICE

Detail No. 4061

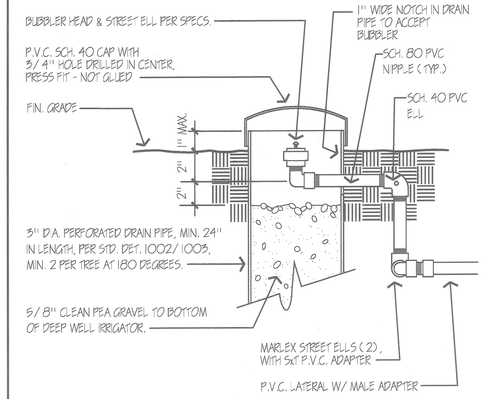


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

QUICK COUPLER VALVE

Detail No. 4050

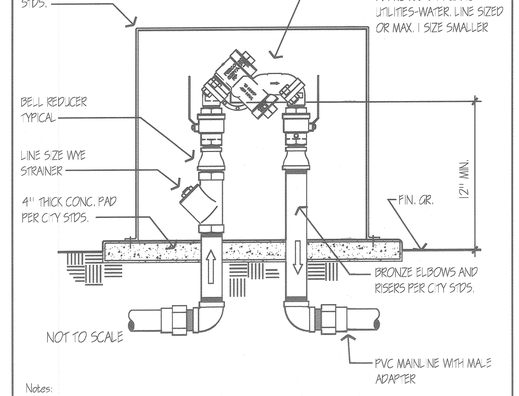


Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

DEEP WELL IRRIGATOR

Detail No. 4034



Notes:
1) Install backflow device square with hardscape elements as approved by the Park Projects inspector in the field.
2) Coordinate with Public Utilities-Water for location of backflow and water service. Wherever possible, locate service and backflow in the parkway at mid-block a minimum of 150' from the BCR at the nearest intersection per City standards.

Approved	Date
BJ	08/28/08
Revised	Date

Park and Recreation Department
CITY OF RIVERSIDE

REDUCED PRESSURE BACKFLOW DEVICE

Detail No. 4011

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECT
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4370
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN C. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

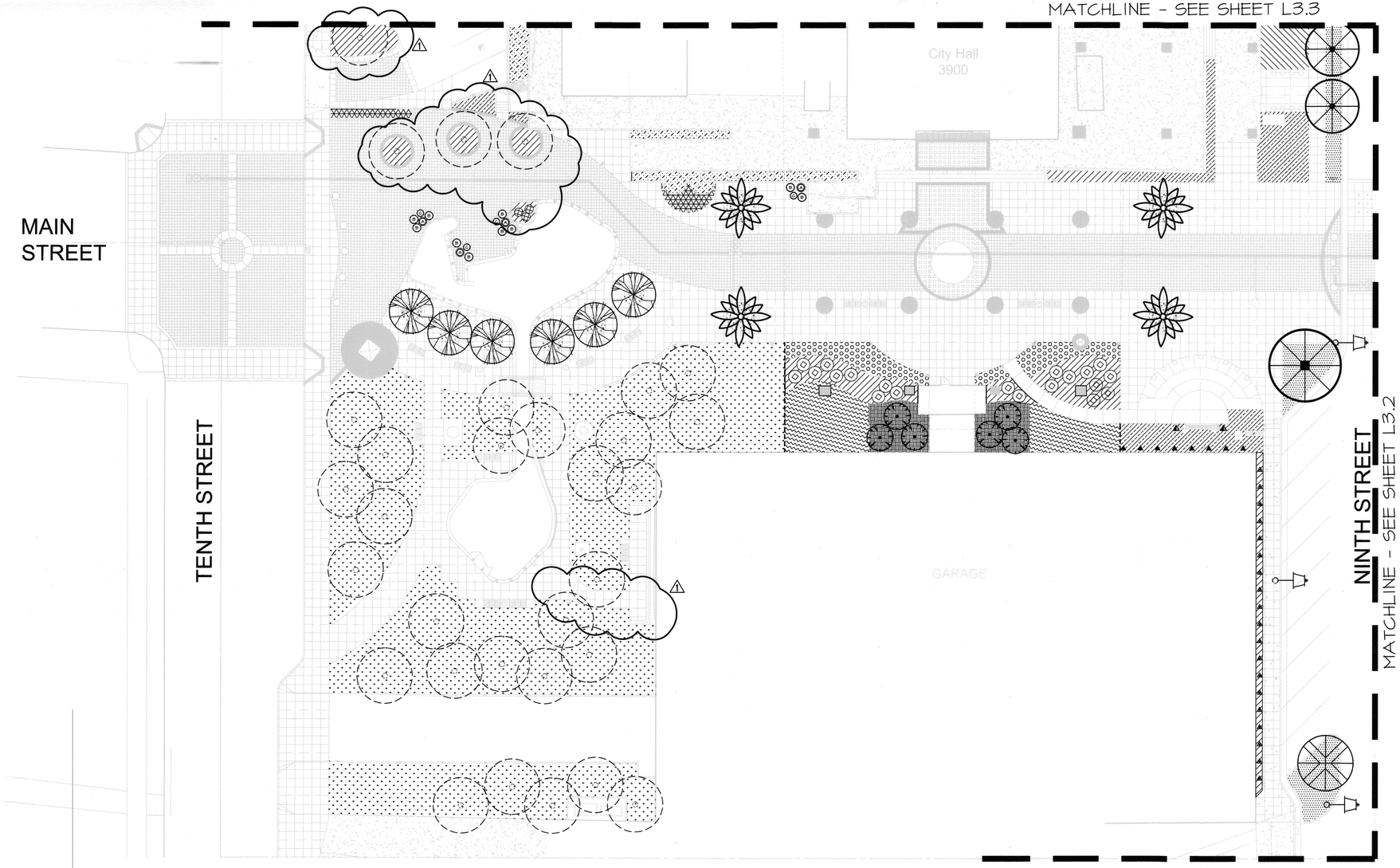
12/03/07

IRRIGATION DETAILS
M-457
L2.8

SHEET 55 OF 100

BID SET

M-457



PLANTING LEGEND

TREE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL	QTY.
	T1	JACARANDA MIMOSIFOLIA/ JACARANDA	36" BOX/ PER PLAN	GUYING	4
	T2	LAGERSTROEMIA INDICA/ CRAPE MYRTLE	36" BOX/ PER PLAN	GUYING	7
	T3	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	36" BOX/ PER PLAN	GUYING	22
	T4	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	60" BOX/ PER PLAN	GUYING	2
	T5	MAGNOLIA LITTLE GEM/ LITTLE GEM MAGNOLIA	36" BOX/ PER PLAN	GUYING	11
	T6	PHOENIX CANARIENSIS/ DATE PALM	25' BTF/ PER PLAN	-	4
	T7	PLATANUS ACERIFOLIA/ LONDON PLANE TREE	36" BOX/ PER PLAN	GUYING	16
	T8	CITRUS (NAVEL) ORANGE	24" BOX/ PER PLAN	DOUBLE STAKE	2
	T9	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	36" BOX/ PER PLAN	DOUBLE GUYING	8
	T10	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	24" BOX/ PER PLAN	DOUBLE STAKE	13
	T11	PRUNUS CERASIFERA 'KRAUTER VESUVIUS'/ FLOWERING PLUM	36" BOX/ PER PLAN	GUYING	6
	T12	CEDRUS DEODARA/ DEODAR CEDAR	48" BOX/ PER PLAN	GUYING	1
	T13	OLEA 'SWAN HILL'/ SWAN HILL OLIVE TREE	48" BOX/ PER PLAN	GUYING	2
	T14	WASHINGTONIA ROBUSTA/ MEXICAN FAN PALM	15' BTF/ PER PLAN	-	11
	T15	CYATHEA COOPERI/ AUSTRALIAN TREE FERN	10' TF/ PER PLAN	DOUBLE STAKE	6
	T16	EXISTING TREE PROTECTED IN PLACE		-	150
	T17	EXISTING PALM TREE PROTECTED IN PLACE		-	2

SHRUB / VINE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	QTY.
	S1	CAMELLIA JAPONICA 'DAHLOHNEGA' DAHLOHNEGA CAMELLIA	5 GAL/ 30" OC	40
	S2	PITTOSPORUM TOBIRA 'WHEELERI' WHEELERS DWARF	5 GAL/ 30" OC	2009 SQ. FT.
	S3	XYLOSMA CONGESTUM 'COMPACTA' XYLOSMA	5 GAL/ 30" OC	2337 SQ. FT.
	S4	BUXUS MICROPHYLLA BOXWOOD	5 GAL/ 18" OC	173
	S5	ASPIDISTRA ELATIOR 'VARIEGATA' CAST IRON PLANT	5 GAL/ 30" OC	1584 SQ. FT.
	S6	ASPARAGUS SETACEUS ASPARAGUS FERN	5 GAL/ 30" OC	1243 SQ. FT.
	S7	PHORMIUM 'JACK SPRATT' DWARF FLAX	5 GAL/ 18" OC	160 SQ. FT.
	V1	DISTICTIS BUCCINATORIA BLOOD RED TRUMPET VINE	15 GAL/ PER PLAN	28
	V2	FICUS REPENS/ CREEPING FIG	1 GAL/ 6' OC	8
	V3	MANDEVEILLEA 'ALICE DUPONT' N.C.N.	5 GAL/ PER PLAN	2
	V4	PARTHENOCISSUS TRICUSPIDATA BOSTON IVY	1 GAL/ 6' OC	19

GROUNDCOVER

REF.			
GC1	TRACHELOSPERMUM JASMINOIDES STAR JASMINE	FLATS/ 6" OC	4651 SQ. FT.
GC2	PELARGONIUM PELTATUM IVY GERANIUM 'PURPLE'	1 GAL/ 18" O.C.	195 SQ. FT.
GC3	ANNUAL COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	4" POTS/ 8" OC	183 SQ. FT.

TURF LIST

REF.		
G1	WEST COASTER / SOD W/ GRASSPAVE 2 BY INVISIBLE STRUCTURES, INC.	13,852 SQ. FT.
G2	WEST COASTER / SOD	11,860 SQ. FT.

MISCELLANEOUS SYMBOLS

	METAL EDGING	
	3/8" MINUS APACHE RED DECOMPOSED GRANITE KALAMAZOO MATERIALS, INC. TEL. (520) 575-4601	2946 SQ. FT.
	EXISTING PLANTING TO REMAIN	2223 SQ. FT.
	2" THICK BARK MULCH (ONLY) NOTE: ALL PLANTED AREAS SHALL RECEIVE 2" THICK BARK MULCH GROUNDCOVER.	12,930 SQ. FT.

POT LIST

REF.		
P1	DASYLIRION TEXANUM / GREEN DESERT SPOON PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL / 1 GAL / 18" O.C.
P2	SALVIA GRAHAMII / GRAHAM'S SAGE PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL / 1 GAL / 18" O.C.
P3	PHORMIUM TENAX 'JACK SPRATT' / JACK SPRATT NEW ZEALAND FLAX PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL / 1 GAL / 18" O.C.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4912
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON #3981
Signature
3/20/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
	SUPERCEDES SHT L3.1	IPD	3.20.08

DESIGNED BY I.D. DRAWN BY JM / MA CHECKED BY I.D.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/24/08

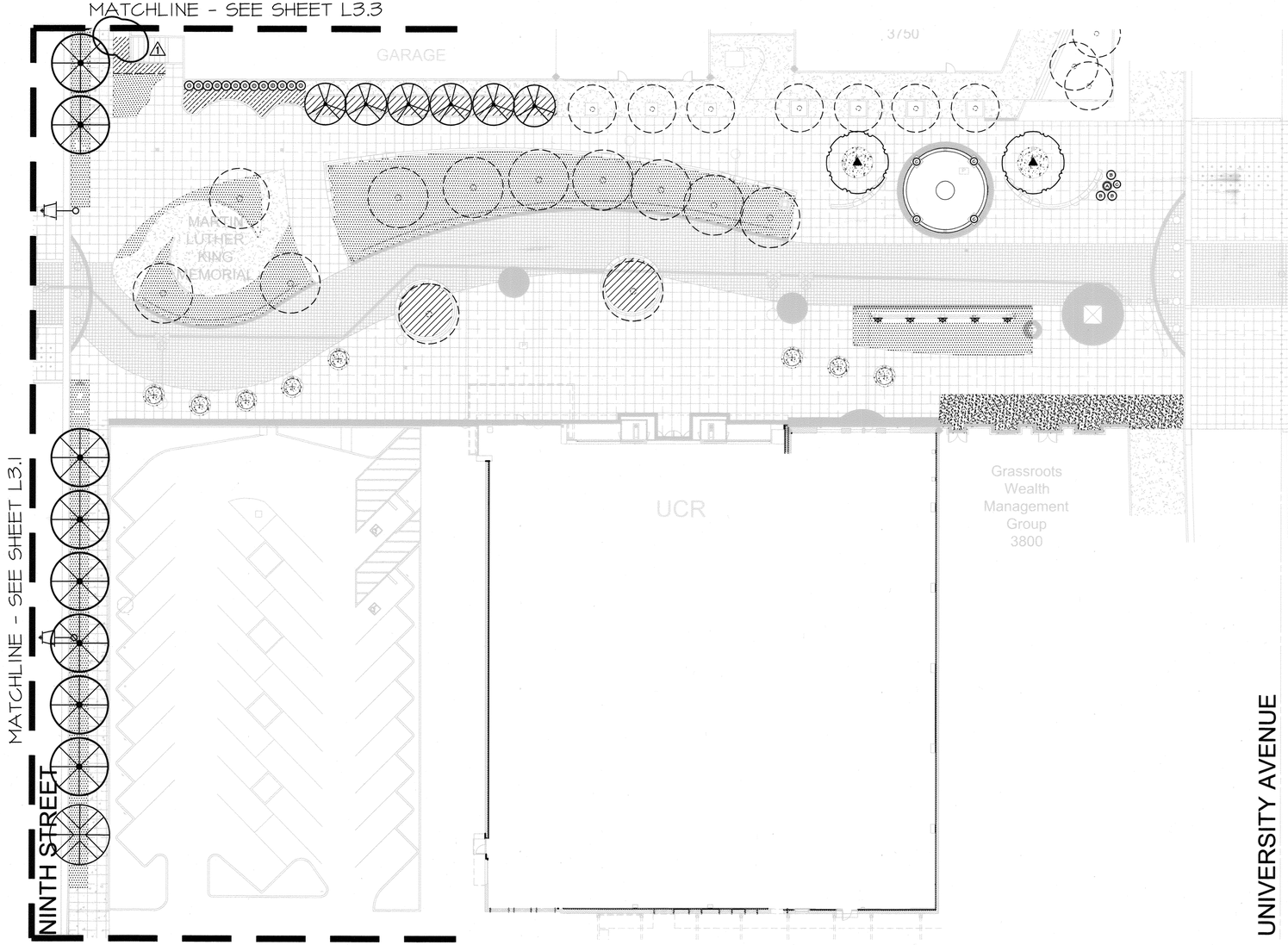
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

PLANTING PLAN
M-457
L3.1A

SHEET 56 OF 100

BID SET



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLANTING LEGEND

TREE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL	QTY.
	T1	JACARANDA MIMOSIFOLIA/ JACARANDA	36" BOX/ PER PLAN	GUYING	4
	T2	LAGERSTROEMIA INDICA/ CRAPE MYRTLE	36" BOX/ PER PLAN	GUYING	7
	T3	MAGNOLIA GRANDIFLORA/ MAGNOLIA 'MAJESTIC BEAUTY'	36" BOX/ PER PLAN	GUYING	22
	T4	MAGNOLIA GRANDIFLORA/ MAGNOLIA 'MAJESTIC BEAUTY'	60" BOX/ PER PLAN	GUYING	2
	T5	MAGNOLIA LITTLE GEM/ LITTLE GEM MAGNOLIA	36" BOX/ PER PLAN	GUYING	11
	T6	PHOENIX CANARIENSIS/ DATE PALM	25' BTF/ PER PLAN	-	4
	T7	PLATANUS ACERIFOLIA/ LONDON PLANE TREE	36" BOX/ PER PLAN	GUYING	16
	T8	CITRUS (NAVEL)/ ORANGE	24" BOX/ PER PLAN	DOUBLE STAKE	2
	T9	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	36" BOX/ PER PLAN	DOUBLE GUYING	8
	T10	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	24" BOX/ PER PLAN	DOUBLE STAKE	13
	T11	PRUNUS CERASIFERA 'KRAUTER VESUVIUS'/ FLOWERING PLUM	36" BOX/ PER PLAN	GUYING	6
	T12	CEDRUS DEODARA/ DEODAR CEDAR	96" BOX/ PER PLAN	GUYING	1
	T13	OLEA 'SHAN HILL'/ SHAN HILL OLIVE TREE	48" BOX/ PER PLAN	GUYING	2
	T14	WASHINGTONIA ROBUSTA/ MEXICAN FAN PALM	15' BTF/ PER PLAN	-	11
	T15	CYATHEA COOPERI/ AUSTRALIAN TREE FERN	10' TF/ PER PLAN	DOUBLE STAKE	6
	T16	EXISTING TREE PROTECTED IN PLACE		-	150
	T17	EXISTING PALM TREE PROTECTED IN PLACE		-	2

SHRUB / VINE LIST

	S1	CAMELLIA JAPONICA 'DAHLONEGA'/ DAHLONEGA CAMELLIA	5 GAL/ 30" OC	40
	S2	PITTOSPORUM TOBIRA 'WHEELERI'/ WHEELERS DWARF	5 GAL/ 30" OC	2009 SQ. FT.
	S3	XYLOSMA CONGESTUM 'COMPACTA'/ XYLOSMA	5 GAL/ 30" OC	2387 SQ. FT.
	S4	BUXUS MICROPHYLLA/ BOXWOOD	5 GAL/ 18" OC	175
	S5	ASPIDISTRA ELATIOR 'VARIEGATA'/ CAST IRON PLANT	5 GAL/ 30" OC	1584 SQ. FT.
	S6	ASPARAGUS SETACEUS/ ASPARAGUS FERN	5 GAL/ 30" OC	1293 SQ. FT.
	S7	PHORMIUM 'JACK SPRATT'/ DWARF FLAX	5 GAL/ 18" OC	160 SQ. FT.
	V1	DISTICTIS BUCCINATORIA/ BLOOD RED TRUMPET VINE	15 GAL/ PER PLAN	28
	V2	FICUS REPENS/ CREEPING FIG	1 GAL/ 6' OC	8
	V3	MANDEVEILLEA 'ALICE DUPONT'/ N.C.N.	5 GAL/ PER PLAN	2
	V4	PARTHENOCISSUS TRICUSPIDATA/ BOSTON IVY	1 GAL/ 6' OC	19

GROUNDCOVER

	GC1	TRACHELOSPERMUM JASMINOIDES/ STAR JASMINE	FLATS/ 6" OC	4657 SQ. FT.
	GC2	PELARGONIUM PELTATUM/ IVY GERANIUM 'PURPLE'	1 GAL/ 18" O.C.	135 SQ. FT.
	GC3	ANNUAL COLOR/ TO BE SELECTED BY LANDSCAPE ARCHITECT	4" POTS/ 8" OC	183 SQ. FT.

TURF LIST

	G1	WEST COASTER / SOD W/ GRASSPAVE 2 BY INVISIBLE STRUCTURES, INC.	13,852 SQ. FT.
	G2	WEST COASTER / SOD	11,860 SQ. FT.

MISCELLANEOUS SYMBOLS

	METAL EDGING	
	3/8" MINUS APACHE RED DECOMPOSED GRANITE KALAMAZOO MATERIALS, INC. TEL. (520) 575-4601	2946 SQ. FT.
	EXISTING PLANTING TO REMAIN	2223 SQ. FT.
	2" THICK BARK MULCH (ONLY) NOTE: ALL PLANTED AREAS SHALL RECEIVE 2" THICK BARK MULCH GROUNDCOVER.	12,930 SQ. FT.

POT LIST

A	P1	DASYLIRION TEXANUM / GREEN DESERT SPOON PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
B	P2	SALVIA GRAHAMII / GRAHAM'S SAGE PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
C	P3	PHORMIUM TENAX 'JACK SPRATT' / JACK SPRATT NEW ZEALAND FLAX PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.

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3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4312
E-MAIL: IDAVIDSON@COX.NET

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON No. 4815
Signature
5/20/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE		
	SUBRCEDES SHT L3.2	IJD	3.25.08

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____
CITY ENGINEER
DATE 3/25/08

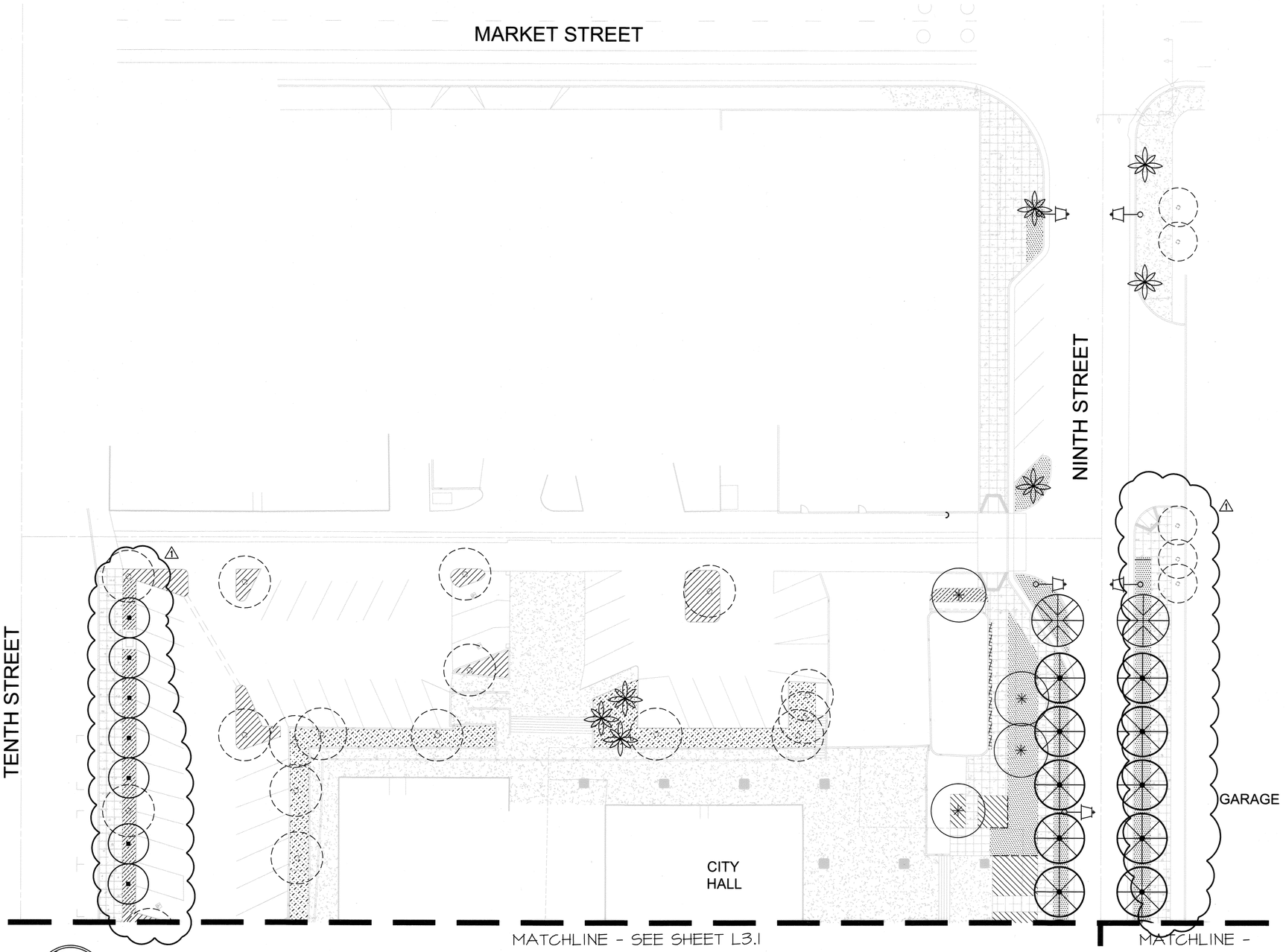
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

PLANTING PLAN
M-457
L3.2A

SHEET 57 OF 100

BID SET



PLANTING LEGEND

TREE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL	QTY.
	T1	JACARANDA MIMOSIFOLIA/ JACARANDA	36" BOX/ PER PLAN	GUYING	4
	T2	LAGERSTROEMIA INDICA/ CRAPE MYRTLE	36" BOX/ PER PLAN	GUYING	7
	T3	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	36" BOX/ PER PLAN	GUYING	22
	T4	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	60" BOX/ PER PLAN	GUYING	2
	T5	MAGNOLIA LITTLE GEM/ LITTLE GEM MAGNOLIA	36" BOX/ PER PLAN	GUYING	11
	T6	PHOENIX CANARIENSIS/ DATE PALM	25' BTF/ PER PLAN	-	4
	T7	PLATANUS ACERIFOLIA/ LONDON PLANE TREE	36" BOX/ PER PLAN	GUYING	16
	T8	CITRUS (NAVEL) ORANGE	24" BOX/ PER PLAN	DOUBLE STAKE	2
	T9	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	36" BOX/ PER PLAN	DOUBLE GUYING	8
	T10	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	24" BOX/ PER PLAN	DOUBLE STAKE	13
	T11	PRUNUS CERASIFERA 'KRAUTER VESUVIUS'/ FLOWERING PLUM	36" BOX/ PER PLAN	GUYING	6
	T12	CEDRUS DEODARA/ DEODAR CEDAR	96" BOX/ PER PLAN	GUYING	1
	T13	OLEA 'SHAN HILL'/ SHAN HILL OLIVE TREE	48" BOX/ PER PLAN	GUYING	2
	T14	WASHINGTONIA ROBUSTA/ MEXICAN FAN PALM	15' BTF/ PER PLAN	-	11
	T15	CYATHEA COOPERI/ AUSTRALIAN TREE FERN	10' TF/ PER PLAN	DOUBLE STAKE	6
	T16	EXISTING TREE PROTECTED IN PLACE		-	150
	T17	EXISTING PALM TREE PROTECTED IN PLACE		-	2

SHRUB / VINE LIST

	S1	CAMELLIA JAPONICA 'DAHLONEGA' DAHLONEGA CAMELLIA	5 GAL/ 30" OC	40
	S2	PITTOSPORUM TOBIRA 'WHEELERI' WHEELERS DWARF	5 GAL/ 30" OC	2009 SQ. FT.
	S3	XYLOSMA CONGESTUM 'COMPACTA' XYLOSMA	5 GAL/ 30" OC	2337 SQ. FT.
	S4	BUXUS MICROPHYLLA BOXWOOD	5 GAL/ 18" OC	175
	S5	ASPIDISTRA ELATIOR 'VARIEGATA' CAST IRON PLANT	5 GAL/ 30" OC	1584 SQ. FT.
	S6	ASPARAGUS SETACEUS ASPARAGUS FERN	5 GAL/ 30" OC	1293 SQ. FT.
	S7	PHORMIUM 'JACK SPRATT' DWARF FLAX	5 GAL/ 18" OC	160 SQ. FT.
	V1	DISTICTIS BUCCINATORIA BLOOD RED TRUMPET VINE	15 GAL/ PER PLAN	28
	V2	FICUS REPENS/ CREEPING FIG	1 GAL/ 6' OC	8
	V3	MANDEVEILLEA 'ALICE DUPONT' N.C.N.	5 GAL/ PER PLAN	2
	V4	PARTHENOCISSUS TRICUSPIDATA BOSTON IVY	1 GAL/ 6' OC	14

GROUNDCOVER

	GC1	TRACHELOSPERMUM JASMINOIDES STAR JASMINE	FLATS/ 6" OC	4657 SQ. FT.
	GC2	PELARGONIUM PELTATUM IVY GERANIUM 'PURPLE'	1 GAL/ 18" O.C.	195 SQ. FT.
	GC3	ANNUAL COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	4" POTS/ 8" OC	183 SQ. FT.

TURF LIST

	G1	WEST COASTER / SOD W/ GRASSPAVE 2 BY INVISIBLE STRUCTURES, INC.	13,852 SQ. FT.
	G2	WEST COASTER / SOD	11,860 SQ. FT.

MISCELLANEOUS SYMBOLS

-------	METAL EDGING	
	3/8" MINUS APACHE RED DECOMPOSED GRANITE KALAMAZOO MATERIALS, INC. TEL. (520) 575-4601	2946 SQ. FT.
	EXISTING PLANTING TO REMAIN	2223 SQ. FT.
	2" THICK BARK MULCH (ONLY) NOTE: ALL PLANTED AREAS SHALL RECEIVE 2" THICK BARK MULCH GROUNDCOVER.	12,930 SQ. FT.

POT LIST

A	P1	DASYLIRION TEXANUM / GREEN DESERT SPOON PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
B	P2	SALVIA GRAHAMII / GRAHAM'S SAGE PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
C	P3	PHORMIUM TENAX 'JACK SPRATT' / JACK SPRATT NEW ZEALAND FLAX PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 · FAX 951.683.4972
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
3/20/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUPERCEDES SAT L3.3	MM	3-25-08

DESIGNED BY LID DRAWN BY JM / MA CHECKED BY LID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/24/08

DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

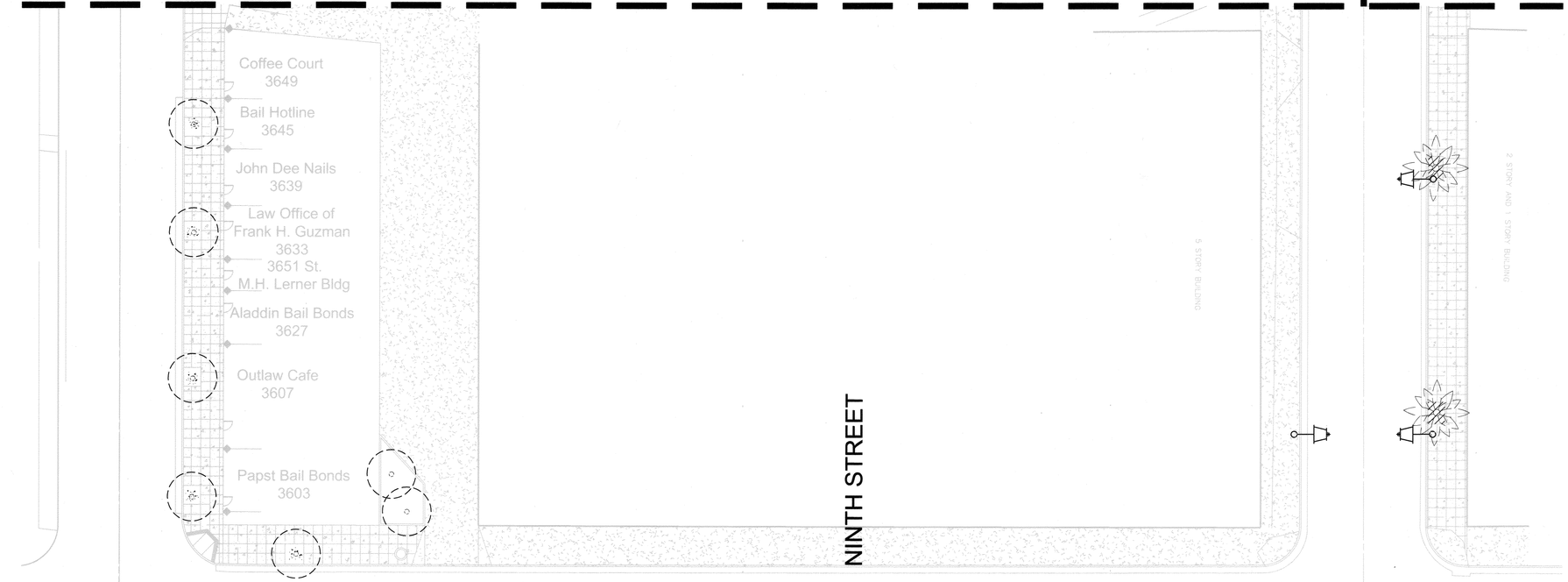
PLANTING PLAN
M-457
L3.3A

SHEET 58 OF 100

BID SET

MATCHLINE - SEE SHEET L3.1

MATCHLINE - SEE SHEET L3.2



ORANGE STREET

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLANTING LEGEND

TREE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL	QTY.
	T1	JACARANDA MIMOSIFOLIA/ JACARANDA	36" BOX/ PER PLAN	GUYING	4
	T2	LAGERSTROEMIA INDICA/ CRAPE MYRTLE	36" BOX/ PER PLAN	GUYING	7
	T3	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	36" BOX/ PER PLAN	GUYING	22
	T4	MAGNOLIA GRANDILFORA/ MAGNOLIA 'MAJESTIC BEAUTY'	60" BOX/ PER PLAN	GUYING	2
	T5	MAGNOLIA LITTLE GEM/ LITTLE GEM MAGNOLIA	36" BOX/ PER PLAN	GUYING	11
	T6	PHOENIX CANARIENSIS/ DATE PALM	25' BTF/ PER PLAN	-	4
	T7	PLATANUS ACERIFOLIA/ LONDON PLANE TREE	36" BOX/ PER PLAN	GUYING	16
	T8	CITRUS (NAVEL) ORANGE	24" BOX/ PER PLAN	DOUBLE STAKE	2
	T9	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	36" BOX/ PER PLAN	DOUBLE GUYING	8
	T10	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	24" BOX/ PER PLAN	DOUBLE STAKE	13
	T11	PRUNUS CERASIFERA 'KRAUTER VESUVIUS'/ FLOWERING PLUM	36" BOX/ PER PLAN	GUYING	6
	T12	CEDRUS DEODARA/ DEODAR CEDAR	96" BOX/ PER PLAN	GUYING	1
	T13	OLEA 'SHAN HILL'/ SHAN HILL OLIVE TREE	48" BOX/ PER PLAN	GUYING	2
	T14	WASHINGTONIA ROBUSTA/ MEXICAN FAN PALM	15' BTF/ PER PLAN	-	11
	T15	CYATHEA COOPERI/ AUSTRALIAN TREE FERN	10' TF/ PER PLAN	DOUBLE STAKE	6
	T16	EXISTING TREE PROTECTED IN PLACE		-	150
	T17	EXISTING PALM TREE PROTECTED IN PLACE		-	2

SHRUB / VINE LIST

◇	S1	CAMELLIA JAPONICA 'DAHLOHNEGA' DAHLOHNEGA CAMELLIA	5 GAL/ 30" OC	40
	S2	PITTOSPORUM TOBIRA 'WHEELERI' WHEELERS DWARF	5 GAL/ 30" OC	2004 SQ. FT.
	S3	XYLOSMA CONGESTUM 'COMPACTA' XYLOSMA	5 GAL/ 30" OC	2387 SQ. FT.
△	S4	BUXUS MICROPHYLLA BOXWOOD	5 GAL/ 18" OC	175
	S5	ASPIDISTRA ELATIOR 'VARIEGATA' CAST IRON PLANT	5 GAL/ 30" OC	1584 SQ. FT.
	S6	ASPARAGUS SETACEUS ASPARAGUS FERN	5 GAL/ 30" OC	1293 SQ. FT.
	S7	PHORMIUM 'JACK SPRATT' DWARF FLAX	5 GAL/ 18" OC	160 SQ. FT.
	V1	DISTICTIS BUCCINATORIA BLOOD RED TRUMPET VINE	15 GAL/ PER PLAN	28
▲	V2	FICUS REPENS/ CREEPING FIG	1 GAL/ 6' OC	8
	V3	MANDEVEILLEA 'ALICE DUPONT' N.C.N.	5 GAL/ PER PLAN	2
	V4	PARTHENOCISSUS TRICUSPIDATA BOSTON IVY	1 GAL/ 6' OC	19

GROUNDCOVER

	GC1	TRACHELOSPERMUM JASMINOIDES STAR JASMINE	FLATS/ 6" OC	4657 SQ. FT.
	GC2	PELARGONIUM PELTATUM IVY GERANIUM 'PURPLE'	1 GAL/ 18" O.C.	185 SQ. FT.
	GC3	ANNUAL COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	4" POTS/ 8" OC	183 SQ. FT.

TURF LIST

	G1	WEST COASTER / SOD W/ GRASSPAVE 2 BY INVISIBLE STRUCTURES, INC.	13,852 SQ. FT.
	G2	WEST COASTER / SOD	11,860 SQ. FT.

MISCELLANEOUS SYMBOLS

-------	METAL EDGING	
	3/8" MINUS APACHE RED DECOMPOSED GRANITE KALAMAZOO MATERIALS, INC. TEL. (520) 575-9601	2946 SQ. FT.
	EXISTING PLANTING TO REMAIN	2223 SQ. FT.
	2" THICK BARK MULCH (ONLY) NOTE: ALL PLANTED AREAS SHALL RECEIVE 2" THICK BARK MULCH GROUNDCOVER.	12,930 SQ. FT.

POT LIST

A	P1	DASYLIRION TEXANUM / GREEN DESERT SPOON PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
B	P2	SALVIA GRAHAMII / GRAHAM'S SAGE PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
C	P3	PHORMIUM TENAX 'JACK SPRATT' / JACK SPRATT NEW ZEALAND FLAX PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.

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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 FAX 951.683.4912
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON No. 3852 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUPERCEDES SHT L3.4A APD 3-25-08		

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/26/08

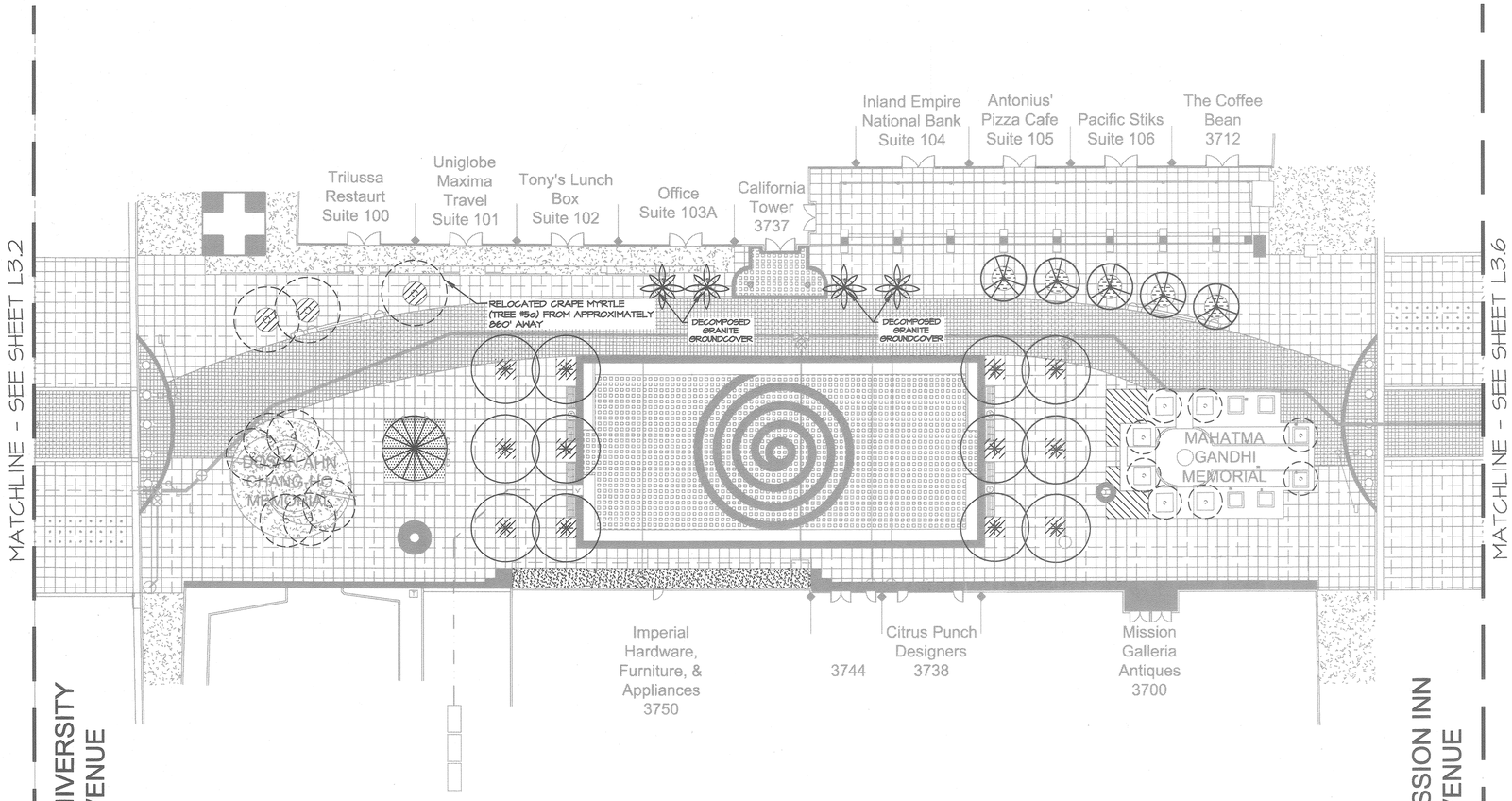
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

PLANTING PLAN
M-457
L3.4A

SHEET 59 OF 100

BID SET



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLANTING LEGEND

TREE LIST

SYM.	REF.	BOTANICAL NAME/ COMMON NAME	SIZE/ SPACING	COMMENTS/ DETAIL	QTY.
	T1	JACARANDA MIMOSIFOLIA/ JACARANDA	36" BOX/ PER PLAN	GUYING	6
	T2	MAGNOLIA GRANDIFLORA/ MAGNOLIA 'MAJESTIC BEAUTY'	36" BOX/ PER PLAN	GUYING	21
	T3	MAGNOLIA GRANDIFLORA/ MAGNOLIA 'MAJESTIC BEAUTY'	60" BOX/ PER PLAN	GUYING	2
	T4	MAGNOLIA LITTLE GEM/ LITTLE GEM MAGNOLIA	36" BOX/ PER PLAN	GUYING	11
	T5	PHOENIX CANARIENSIS/ DATE PALM	25' BTF/ PER PLAN	-	4
	T6	PLATANUS ACERIFOLIA/ LONDON PLANE TREE	36" BOX/ PER PLAN	GUYING	23
	T7	CITRUS (NAVEL) ORANGE	24" BOX/ PER PLAN	DOUBLE STAKE	2
	T8	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	36" BOX/ PER PLAN	GUYING	14
	T9	PODOCARPUS GRACILIOR/ FERN PINE (COLUMN)	24" BOX/ PER PLAN	DOUBLE STAKE	13
	T10	PRUNUS CERASIFERA 'KRAUTER VESUVIUS'/ FLOWERING PLUM	36" BOX/ PER PLAN	GUYING	6
	T11	SCHINUS MOLLE/ CALIFORNIA PEPPER TREE	96" BOX/ PER PLAN	GUYING	2
	T12	OLEA 'SWAN HILL'/ SWAN HILL OLIVE TREE	48" BOX/ PER PLAN	GUYING	2
	T13	WASHINGTONIA ROBUSTA/ MEXICAN FAN PALM	15' BTF/ PER PLAN	-	36
	T14	CYATHEA COOPERI/ AUSTRALIAN TREE FERN	10' TF/ PER PLAN	DOUBLE STAKE	6
	T15	EXISTING TREE PROTECTED IN PLACE		-	117
	T16	EXISTING PALM TREE PROTECTED IN PLACE		-	2

SHRUB / VINE LIST

	S1	CAMELLIA JAPONICA 'DAHLOHNEGA' DAHLOHNEGA CAMELLIA	5 GAL/ 30" OC	40
	S2	LIGUSTRUM TEXANUM/ PRIVET	5 GAL/ 30" OC	405 SQ. FT.
	S3	PITTOSPORUM TOBIRA 'WHEELERI' WHEELERS DWARF	5 GAL/ 30" OC	2009 SQ. FT.
	S4	XYLOSMA CONGESTUM 'COMPACTA' XYLOSMA	5 GAL/ 30" OC	2698 SQ. FT.
	S5	BUXUS MICROPHYLLA BOXWOOD	5 GAL/ 18" OC	116
	S6	ASPIDISTRA ELATIOR 'VARIEGATA' CAST IRON PLANT	5 GAL/ 30" OC	1584 SQ. FT.
	S7	ASPARAGUS SETACEUS ASPARAGUS FERN	5 GAL/ 30" OC	1248 SQ. FT.
	S8	PHORMIUM 'JACK SPRATT' DWARF FLAX	5 GAL/ 18" OC	134 SQ. FT.
	V1	DISTICTIS BUCCINATORIA BLOOD-RED TRUMPET VINE	15 GAL/ PER PLAN	17
	V2	FICUS-REPENS/ CREEPING FIG	1 GAL/ 6' OC	10
	V3	MANDEVEILLEA 'ALICE DUPONT' N.C.N.	5 GAL/ PER PLAN	2
	V4	PARTHENOCISSUS TRICUSPIDATA BOSTON IVY	1 GAL/ 6' OC	14

GROUNDCOVER

	GC1	TRACHELOSPERMUM JASMINOIDES STAR JASMINE	FLATS/ 6" OC	4164 SQ. FT.
	GC2	PELARGONIUM PELTATUM IVY GERANIUM 'PURPLE'	1 GAL/ 18" O.C.	145 SQ. FT.
	GC3	ANNUAL COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	4" POTS/ 8" OC	188 SQ. FT.

TURF LIST

	G1	WEST COASTER / SOD W/ GRASSPAVE 2 BY INVISIBLE STRUCTURES, INC.	13,852 SQ. FT.
	G2	WEST COASTER / SOD	11,865 SQ. FT.

MISCELLANEOUS SYMBOLS

-------	METAL EDGING	
	3/8" MINUS APACHE-RED DECOMPOSED GRANITE KALAMAZOO MATERIALS, INC. TEL. (520) 575-4601	3006 SQ. FT.
	EXISTING PLANTING TO REMAIN	2223 SQ. FT.
	2" THICK BARK MULCH (ONLY) NOTE: ALL PLANTED AREAS SHALL RECEIVE 2" THICK BARK MULCH GROUNDCOVER.	13,316 SQ. FT.

POT LIST

A	P1	DASYLIRION TEXANUM / GREEN DESERT SPOON PELARGONIUM PELTATUM / IVY GERANIUM	5 GAL 1 GAL / 18" O.C.
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UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.9289 . FAX 951.683.4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON 2828
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	[illegible]	05/15/09
PRINCIPAL ENGINEER	[illegible]	5/15/09
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 5/15/09

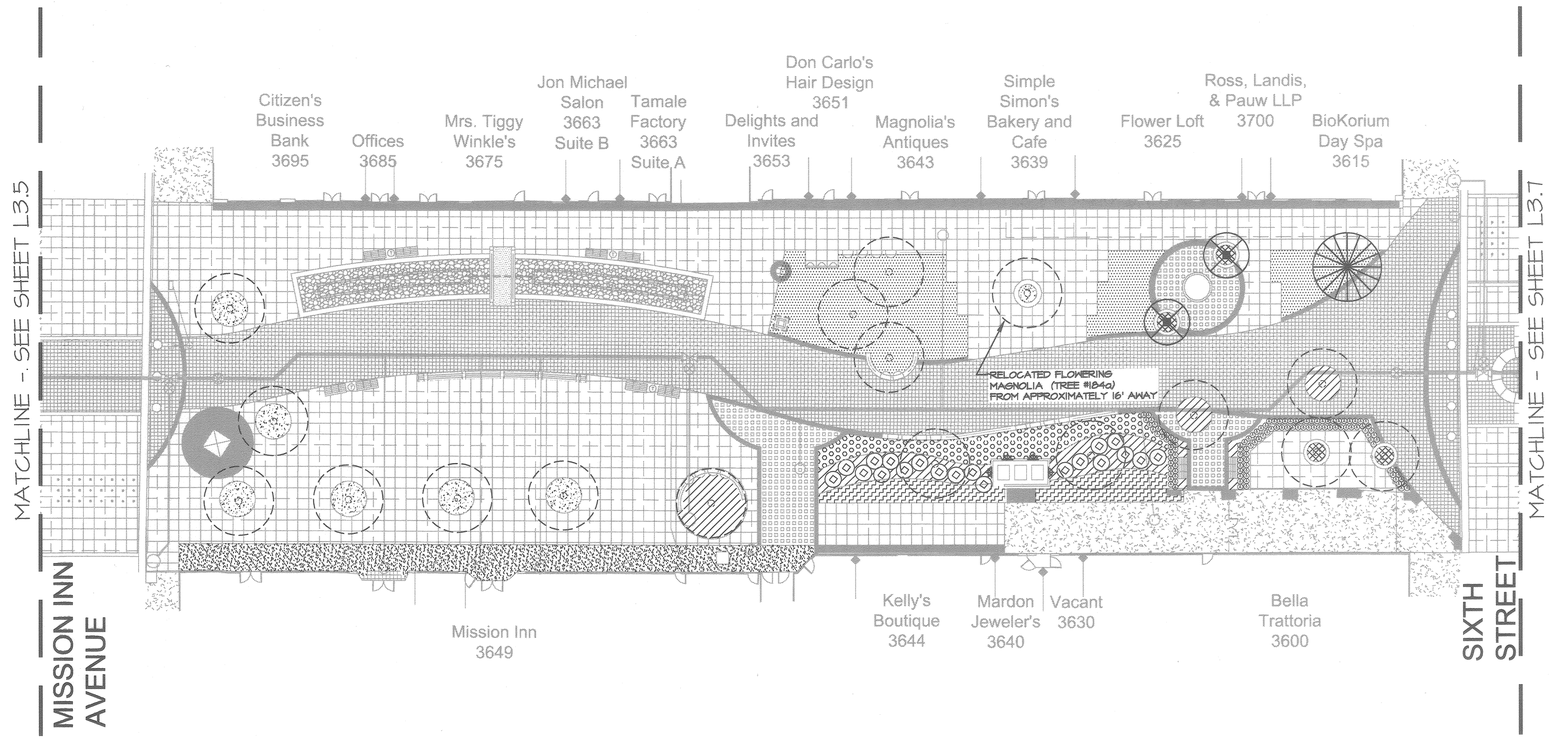
DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

PLANTING PLAN
M-457
L3.5
SHEET 60 OF 100

BID SET

M-457



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40' 30' 20' 10' 0 20' 40'

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PLANTING LEGEND

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3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 - FAX 951.683.4313
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN A. DAVIDSON 2509 Signature 6/30/09 Exp. 12/09 STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY UD DRAWN BY IM / MA CHECKED BY UD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

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PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY: CITY ENGINEER
DATE 12/5/07

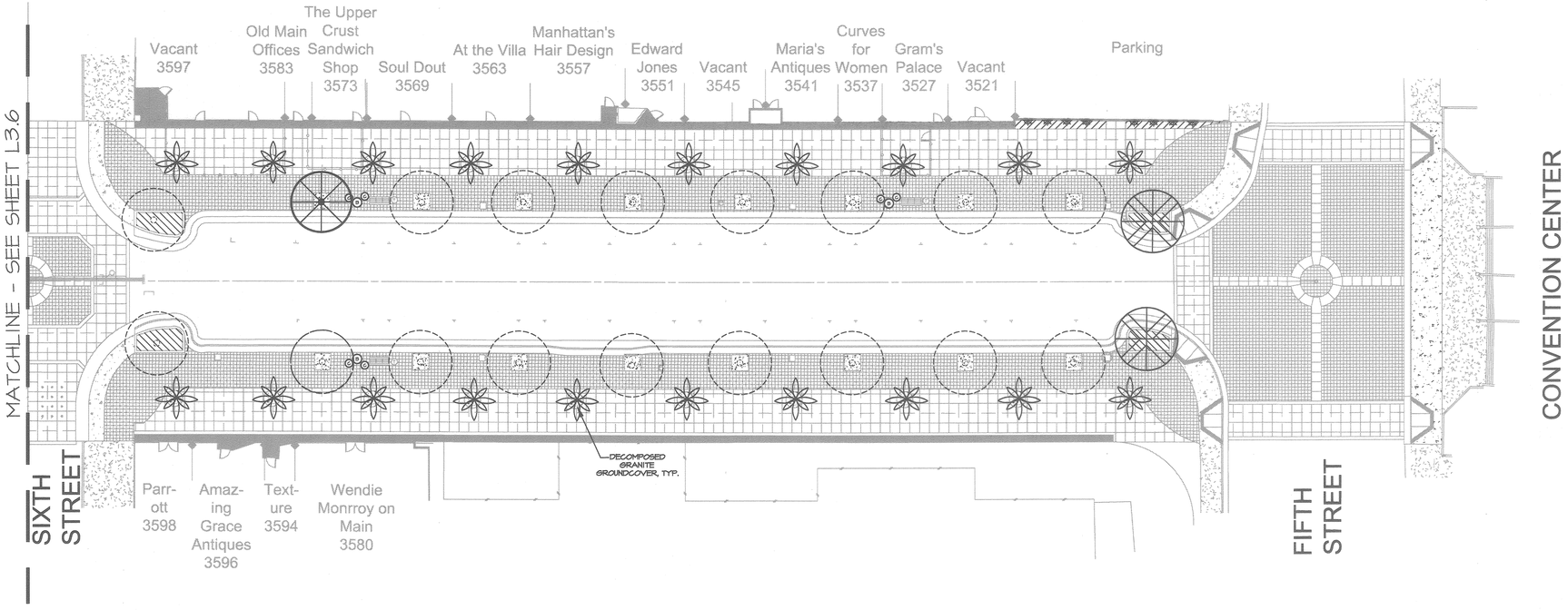
DOWNTOWN MALL LANDSCAPE PLANS

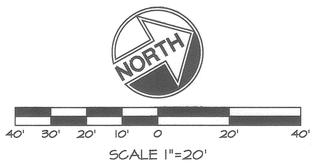
12/03/07

PLANTING PLAN
M-457
L3.6
SHEET 61 OF 100

BID SET

M-457





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3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4313
E-MAIL: IDAVIDSON@IDSLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN DAVIDSON — Signature — 6/30/09 — Exp. 12/10 — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MD DRAWN BY JM / MA CHECKED BY MD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

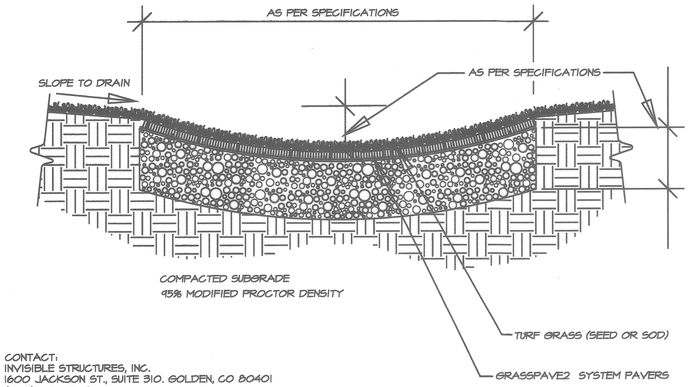
DOWNTOWN MALL LANDSCAPE PLANS

12/03/07

PLANTING PLAN
M-457
L3.7
SHEET 62 OF 100

BID SET

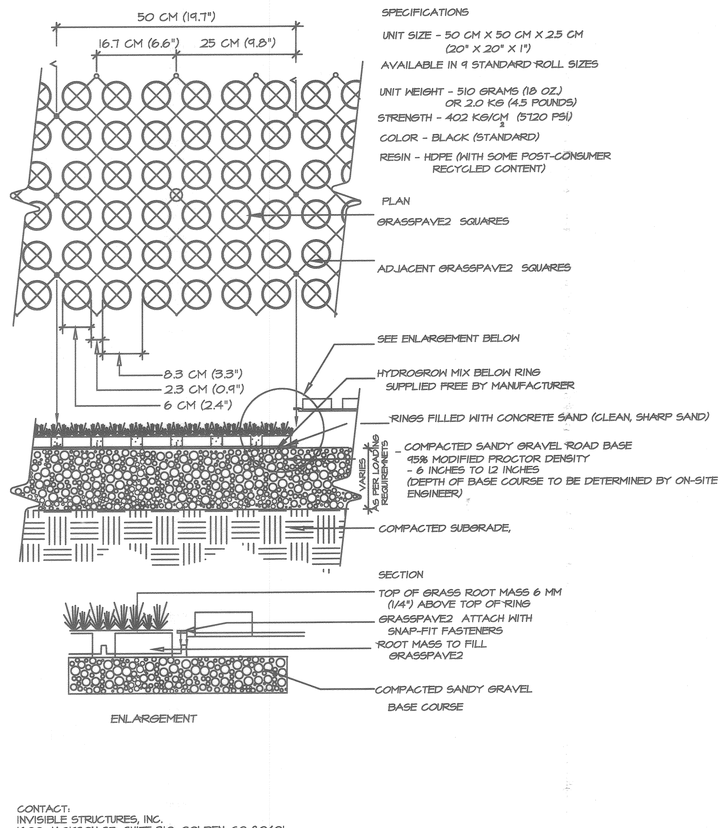
M-457



CONTACT:
INVISIBLE STRUCTURES, INC.
1600 JACKSON ST., SUITE 310. GOLDEN, CO 80401
(206) 545-2203
CONTACT: ANDY GERSEN

C GRASSPAVE 2 AT SWALE

SCALE: NTS



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INVISIBLE STRUCTURES, INC.
1600 JACKSON ST., SUITE 310. GOLDEN, CO 80401
(206) 545-2203
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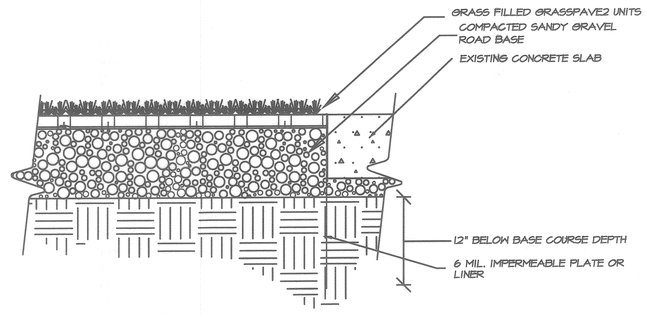
A TYPICAL GRASSPAVE 2 DETAIL

SCALE: NTS



NOTE:

COMPACTED SUBGRADE, 95% MODIFIED PROCTOR DENSITY

CONTACT:
INVISIBLE STRUCTURES, INC.
1600 JACKSON ST., SUITE 310. GOLDEN, CO 80401
(206) 545-2203
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B GRASSPAVE 2 AT CONC. EDGE

SCALE: NTS

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951 683 9283 . FAX 951 683 4352
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
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Exp. Date
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APPROVED BY
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DATE 12/10/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

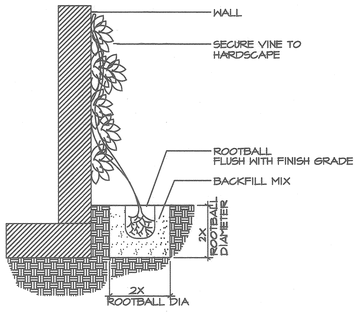
PLANTING DETAILS
M-457
L3.8

SHEET 63 OF 100

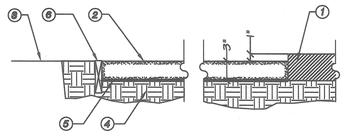
BID SET

M-457

M VINE PLANTING — NTS



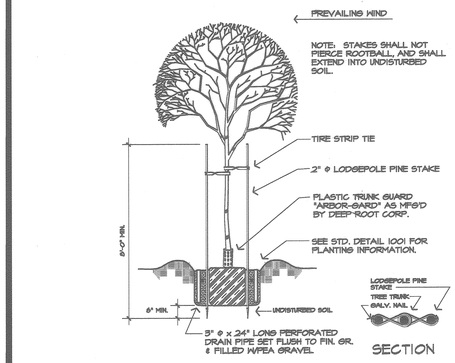
J DEC. GRANITE — SCALE: NTS



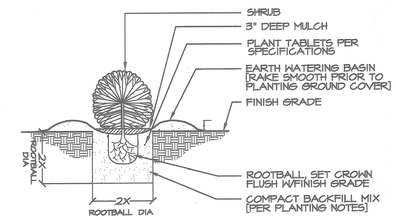
DETAIL LEGEND:

1. TOP OF CONCRETE PAVING
2. 3" THICK DECOMPOSED GRANITE PAVING.
3. FINISHED GRADE
4. 90% COMPACTED SUB-GRADE
5. FILTER FABRIC 'MIRAFI' 140N. APPLIED IN STABILIZED D. G. PAVING.
6. METAL EDGING, SEE DETAIL H, SHT. #L3.9

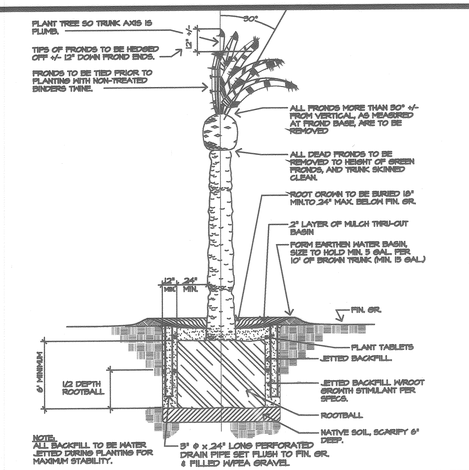
G TREE PLANTING — SCALE: NTS



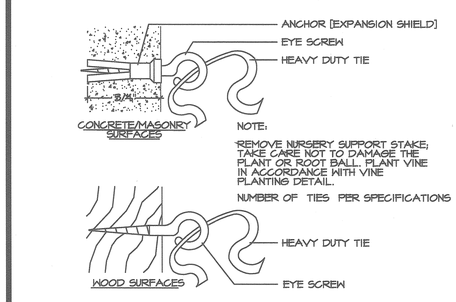
D SHRUB PLANTING — SCALE: NTS



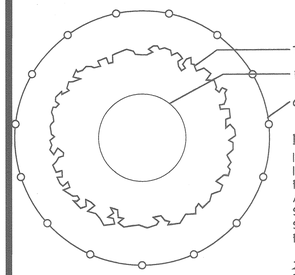
A PALM PLANTING — SCALE: NTS



K POT PLANTING — SCALE: NTS



H METAL EDGING — SCALE: NTS

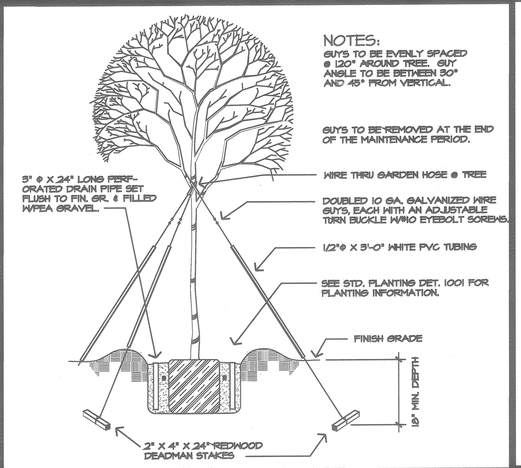


* TREE PROTECTION SHALL BE A MINIMUM 4' CHAIN LINK FENCE MOUNTED ON VERTICAL PIPES DRIVEN 2' INTO THE GROUND WITH NO GATES.

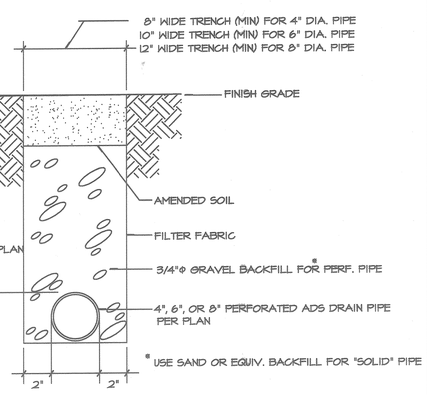
NOTES:

1. ANY REQUIRED EXCAVATION IN OR AROUND THE PROTECTION BARRIER TO ACCOMMODATE UNDERGROUND SERVICES, FOOTINGS, ETC. SHOULD BE INDICATED ON THE PLAN AND DONE BY HAND.
2. TREES INSIDE THE PROTECTION ZONE SHOULD BE CARED FOR THROUGHOUT THE CONSTRUCTION PROCESS, I.E., THEY MUST BE WATERED SUFFICIENTLY.
3. ROOT AND BRANCH PRUNING, WHERE NECESSARY, MUST BE DONE ACCORDING TO THE CITY OF RIVERSIDE PARKS & OPEN SPACE DISTRICT STANDARDS.

E TREE GUYING — SCALE: NTS

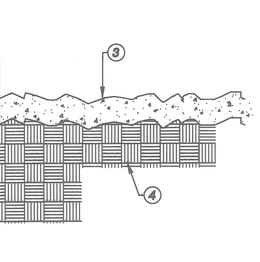


B PLANT SPACING — SCALE: NTS



L VINE ATTACHMENT — SCALE: NTS

I TREE PROTECTION — NTS



DETAIL LEGEND:

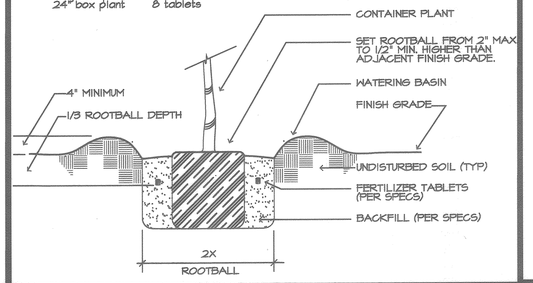
1. 3/16" X 5" BLACK ANODIZED ALUMINUM EDGING W/12" ALUMINUM STAKE @ 3' O.C.
2. FINISH GRADE
3. ROCK MULCH
4. 90% COMPACTED SUBGRADE PER GEOTECHNICAL REPORT.
5. 1 1/2" AT GROUNDCOVER AND SHRUB, 1" AT TURF

F TREE PLANTING — NTS

GENERAL PLANTING NOTES

1) Contact the Street Tree Inspector at 351-6126 two working days (48 hours) prior to installing any plant material.
2) Trees planted in turf areas shall be maintained with a minimum 12" radius around the tree free of turf throughout the maintenance period.
3) Watering basins may be removed after the maintenance period.
4) For staking information as applicable, refer to Standard Detail 1002.
5) For guying information as applicable, refer to Standard Detail 1003.
6) For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications, Section 02480 Planting.
7) Provide Fertilizer Tablets as follows:

1 gallon plant	2 tablets
5 gallon plant	5 tablets
15 gallon plant	5 tablets
24" box plant	8 tablets



C BIO-DRAIN — NTS

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1·800 227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.681.1283 . FAX 951.681.4113
E-MAIL: IDAVIDSON@ROADRUNNER.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL LANDSCAPE PLANS

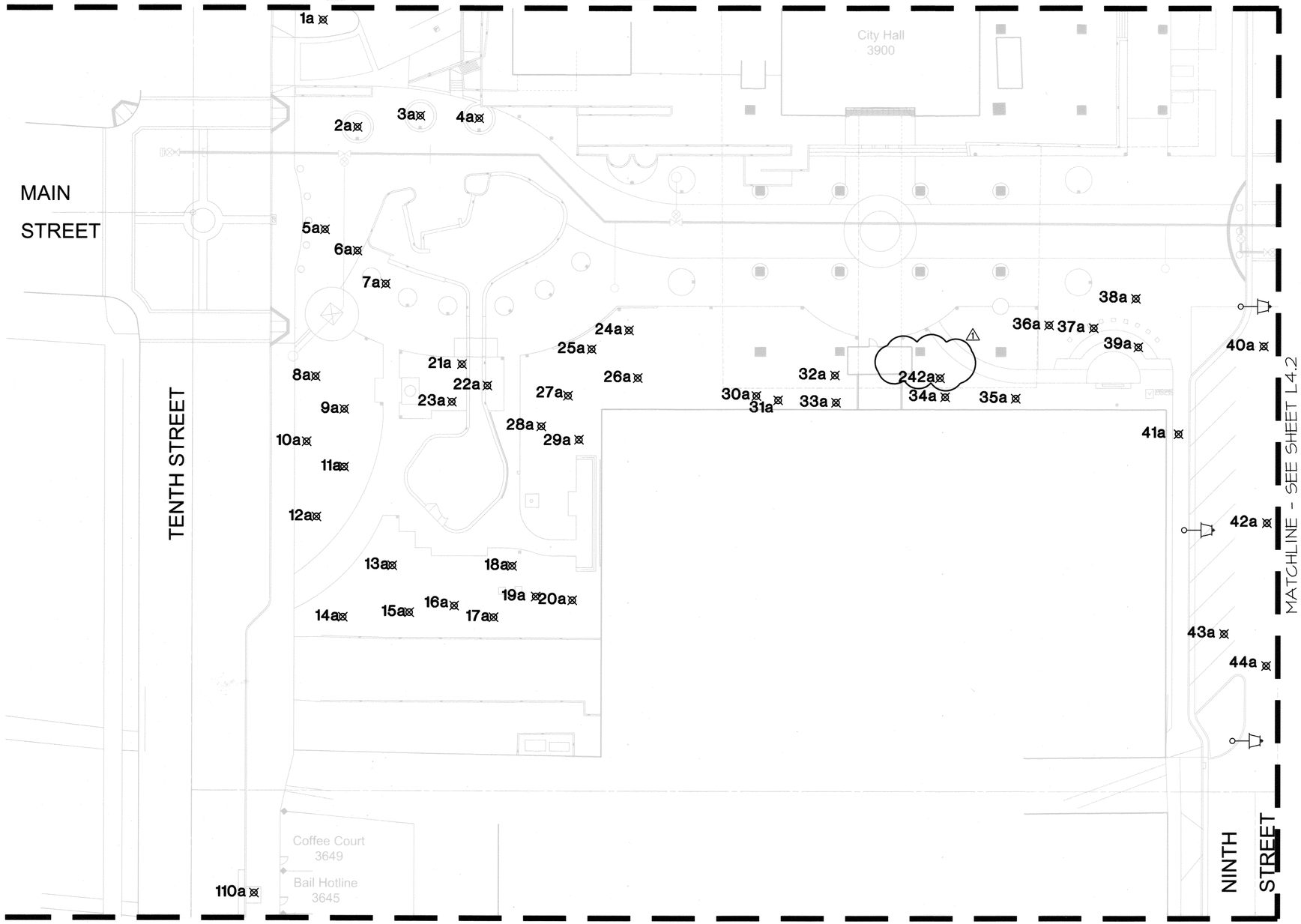
12/03/07

PLANTING DETAILS
M-457
L3.9

SHEET 64 OF 100

BID SET

M-457



MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMAIN	124a	FICUS MICROCARPA NITIDA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMAIN	125a	KOELREUTERIA BIPINNATA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMAIN	126a	KOELREUTERIA BIPINNATA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMAIN	127a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	129a	CASSIA LEPTOPHYLLA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	130a	FICUS MICROCARPA NITIDA	REMOVE
8a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
10a	JACARANDA MIMOSIFOLIA	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
11a	JACARANDA MIMOSIFOLIA	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
12a	PINUS CANARIENSIS	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
13a	PINUS CANARIENSIS	REMAIN	136a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	137a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
15a	PINUS CANARIENSIS	REMAIN	138a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	139a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
18a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
19a	PINUS CANARIENSIS	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
20a	PINUS CANARIENSIS	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
21a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	148a	DYPSIS DECARYI	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	149a	DYPSIS DECARYI	REMAIN
27a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
28a	PINUS CANARIENSIS	REMAIN	151a	PODOCARPUS GRACILIOR	REMAIN
29a	PINUS CANARIENSIS	REMAIN	152a	PODOCARPUS GRACILIOR	REMOVE
30a	PRUNUS CAROLINIANA	REMOVE	153a	PODOCARPUS GRACILIOR	REMAIN
31a	PRUNUS CAROLINIANA	REMOVE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
32a	PITTOSPORUM TOBIRA	REMOVE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
33a	PITTOSPORUM TOBIRA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	167a	CITRUS S. 'WASHINGTON'	REMAIN
45a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	REMOVE	171a	CITRUS S. 'WASHINGTON'	REMAIN
49a	BRAHEA EDULIS	RELOCATE OFFSITE	172a	CINNAMOMUM CAMPHORA	REMAIN
50a	MAGNOLIA GRANDIFLORA	REMAIN	173a	CINNAMOMUM CAMPHORA	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	174a	CINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	175a	CINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	176a	PINUS CANARIENSIS	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	178a	PINUS CANARIENSIS	REMOVE
56a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
60a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
61a	JACARANDA MIMOSIFOLIA	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
62a	JACARANDA MIMOSIFOLIA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
63a	PODOCARPUS GRACILIOR	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
64a	OLEA EUROPAEA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
65a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
66a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
69a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
70a	PLATANUS X ACERIFOLIA	REMAIN	193a	CITRUS S. 'WASHINGTON'	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	194a	CITRUS S. 'WASHINGTON'	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	198a	KOELREUTERIA BIPINNATA	REMAIN
76a	SCHINUS TEREBINTHEFOLIUS	REMAIN	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMAIN	201a	KOELREUTERIA BIPINNATA	REMAIN
79a	SCHINUS TEREBINTHEFOLIUS	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
80a	PLATANUS X ACERIFOLIA	REMOVE	203a	KOELREUTERIA BIPINNATA	REMAIN
81a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
83a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMAIN
84a	PLATANUS X ACERIFOLIA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMAIN
86a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMAIN
88a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMAIN
90a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	214a	WASHINGTONIA ROBUSTA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	215a	KOELREUTERIA BIPINNATA	REMAIN
93a	PLATANUS X ACERIFOLIA	REMAIN	216a	MAGNOLIA GRANDIFLORA	REMAIN
94a	SYAGRUS ROMANZOFFIANUM	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
95a	LAGERSTROEMIA INDICA	REMAIN	218a	JACARANDA MIMOSIFOLIA	REMAIN
96a	LAGERSTROEMIA INDICA	REMAIN	219a	JACARANDA MIMOSIFOLIA	REMAIN
97a	SYAGRUS ROMANZOFFIANUM	REMOVE	220a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
98a	SYAGRUS ROMANZOFFIANUM	REMOVE	221a	KOELREUTERIA BIPINNATA	REMAIN
99a	SYAGRUS ROMANZOFFIANUM	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
100a	SYAGRUS ROMANZOFFIANUM	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
101a	LAGERSTROEMIA INDICA	REMAIN	224a	KOELREUTERIA BIPINNATA	REMAIN
102a	LAGERSTROEMIA INDICA	REMAIN	225a	MAGNOLIA GRANDIFLORA	REMAIN
103a	LAGERSTROEMIA INDICA	REMAIN	226a	KOELREUTERIA BIPINNATA	REMAIN
104a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
108a	TRACHYCARPUS FORTUNEI	REMOVE	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
109a	TRACHYCARPUS FORTUNEI	REMOVE	232a	MAGNOLIA GRANDIFLORA	REMAIN
110a	SCHINUS TEREBINTHEFOLIUS	REMOVE	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
113a	WASHINGTONIA ROBUSTA	REMAIN	236a	KOELREUTERIA BIPINNATA	REMAIN
114a	WASHINGTONIA FILIFERA	REMAIN	237a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
116a	LAGERSTROEMIA INDICA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
118a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
119a	CASSIA LEPTOPHYLLA	REMAIN	242a	PITTOSPORUM TOBIRA	REMOVE
120a	CASSIA LEPTOPHYLLA	REMAIN	243a	JACARANDA MIMOSIFOLIA	REMOVE
121a	CASSIA LEPTOPHYLLA	REMAIN	244a	SCHINUS TEREBINTHEFOLIUS	REMOVE
122a	CASSIA LEPTOPHYLLA	REMAIN	245a	KOELREUTERIA BIPINNATA	REMOVE
123a	FICUS MICROCARPA NITIDA	REMOVE			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 'L' SHEET L3.4.
- REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4912
E-MAIL: IDAVIDSON@IDAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUPERCEDES SHT L4.1	IJD	3-26-08

DESIGNED BY IJD DRAWN BY JM / MA CHECKED BY IJD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/25/08

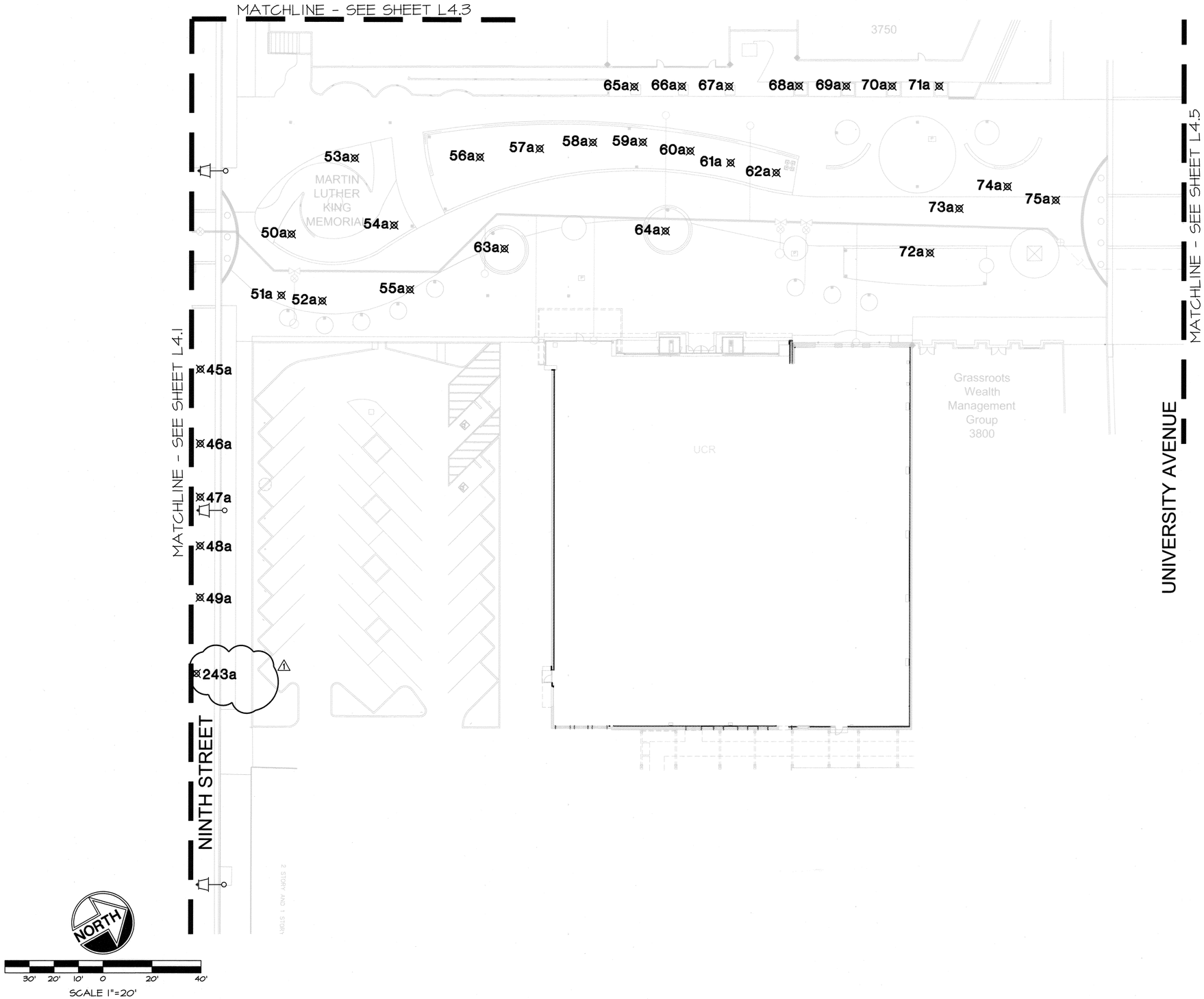
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

TREE RETENTION
M-457
L4.1A

SHEET 65 OF 100

BID SET



MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMAIN	124a	FICUS MICROCARPA NITIDA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMAIN	125a	KOELREUTERIA BIPINNATA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMAIN	126a	KOELREUTERIA BIPINNATA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMAIN	127a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	129a	CASSIA LEPTOPHYLLA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	130a	FICUS MICROCARPA NITIDA	REMOVE
8a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
10a	JACARANDA MIMOSIFOLIA	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
11a	JACARANDA MIMOSIFOLIA	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
12a	PINUS CANARIENSIS	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
13a	PINUS CANARIENSIS	REMAIN	136a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
14a	LIQUIDAMBAR STYRACIFLUA	REMAIN	137a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
15a	PINUS CANARIENSIS	REMAIN	138a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	139a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
18a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
19a	PINUS CANARIENSIS	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
20a	PINUS CANARIENSIS	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
21a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	148a	DYPSIS DECARYI	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	149a	DYPSIS DECARYI	REMAIN
27a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
28a	PINUS CANARIENSIS	REMAIN	151a	PODOCARPUS GRACILIOR	REMAIN
29a	PINUS CANARIENSIS	REMAIN	152a	PODOCARPUS GRACILIOR	REMOVE
30a	PRUNUS CAROLINIANA	REMOVE	153a	PODOCARPUS GRACILIOR	REMAIN
31a	PRUNUS CAROLINIANA	REMOVE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
32a	PITTOSPORUM TOBIRA	REMOVE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
33a	PITTOSPORUM TOBIRA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	167a	CITRUS S. 'WASHINGTON'	REMAIN
45a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	REMOVE	171a	CITRUS S. 'WASHINGTON'	REMAIN
49a	BRAHEA EDULIS	RELOCATE OFFSITE	172a	CINNAMOMUM CAMPHORA	REMAIN
50a	MAGNOLIA GRANDIFLORA	REMAIN	173a	CINNAMOMUM CAMPHORA	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	174a	CINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	175a	CINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	176a	PINUS CANARIENSIS	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	178a	PINUS CANARIENSIS	REMOVE
56a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
60a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
61a	JACARANDA MIMOSIFOLIA	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
62a	JACARANDA MIMOSIFOLIA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
63a	PODOCARPUS GRACILIOR	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
64a	OLEA EUROPAEA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
65a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
66a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
69a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
70a	PLATANUS X ACERIFOLIA	REMAIN	193a	CITRUS S. 'WASHINGTON'	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	194a	CITRUS S. 'WASHINGTON'	REMAIN
72a	LIQUIDAMBAR STYRACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
73a	LIQUIDAMBAR STYRACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
74a	LIQUIDAMBAR STYRACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
75a	LIQUIDAMBAR STYRACIFLUA	REMOVE	198a	KOELREUTERIA BIPINNATA	REMAIN
76a	SCHINUS TEREBINTHEFOLIUS	REMAIN	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	LIQUIDAMBAR STYRACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMAIN	201a	KOELREUTERIA BIPINNATA	REMAIN
79a	SCHINUS TEREBINTHEFOLIUS	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
80a	PLATANUS X ACERIFOLIA	REMAIN	203a	KOELREUTERIA BIPINNATA	REMAIN
81a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
83a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMAIN
84a	PLATANUS X ACERIFOLIA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMAIN
86a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMAIN
88a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMAIN
90a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	214a	WASHINGTONIA ROBUSTA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	215a	KOELREUTERIA BIPINNATA	REMAIN
93a	PLATANUS X ACERIFOLIA	REMAIN	216a	MAGNOLIA GRANDIFLORA	REMAIN
94a	SYAGRUS ROMANZOFFIANUM	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
95a	LAGERSTROEMIA INDICA	REMAIN	218a	JACARANDA MIMOSIFOLIA	REMAIN
96a	LAGERSTROEMIA INDICA	REMAIN	219a	JACARANDA MIMOSIFOLIA	REMAIN
97a	SYAGRUS ROMANZOFFIANUM	REMOVE	220a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
98a	SYAGRUS ROMANZOFFIANUM	REMOVE	221a	KOELREUTERIA BIPINNATA	REMAIN
99a	SYAGRUS ROMANZOFFIANUM	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
100a	SYAGRUS ROMANZOFFIANUM	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
101a	LAGERSTROEMIA INDICA	REMAIN	224a	KOELREUTERIA BIPINNATA	REMAIN
102a	LAGERSTROEMIA INDICA	REMAIN	225a	MAGNOLIA GRANDIFLORA	REMAIN
103a	LAGERSTROEMIA INDICA	REMAIN	226a	KOELREUTERIA BIPINNATA	REMAIN
104a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
108a	TRACHYCARPUS FORTUNEI	REMOVE	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
109a	TRACHYCARPUS FORTUNEI	REMOVE	232a	MAGNOLIA GRANDIFLORA	REMAIN
110a	SCHINUS TEREBINTHEFOLIUS	REMOVE	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
113a	WASHINGTONIA ROBUSTA	REMAIN	236a	KOELREUTERIA BIPINNATA	REMAIN
114a	WASHINGTONIA FILIFERA	REMAIN	237a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
116a	LAGERSTROEMIA INDICA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
118a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
119a	CASSIA LEPTOPHYLLA	REMAIN	242a	PITTOSPORUM TOBIRA	REMOVE
120a	CASSIA LEPTOPHYLLA	REMAIN	243a	JACARANDA MIMOSIFOLIA	REMOVE
121a	CASSIA LEPTOPHYLLA	REMAIN	244a	SCHINUS TEREBINTHEFOLIUS	REMOVE
122a	CASSIA LEPTOPHYLLA	REMAIN	245a	KOELREUTERIA BIPINNATA	REMOVE
123a	FICUS MICROCARPA NITIDA	REMOVE			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 'L' SHEET L3.4
- REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 50TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4512
E-MAIL: IDAVIDSON@IALANC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON No.3811
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SOBERLOOKS SHT L4.2	MD	3-25-08

DESIGNED BY UD DRAWN BY JM / MA CHECKED BY UD

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/26/08

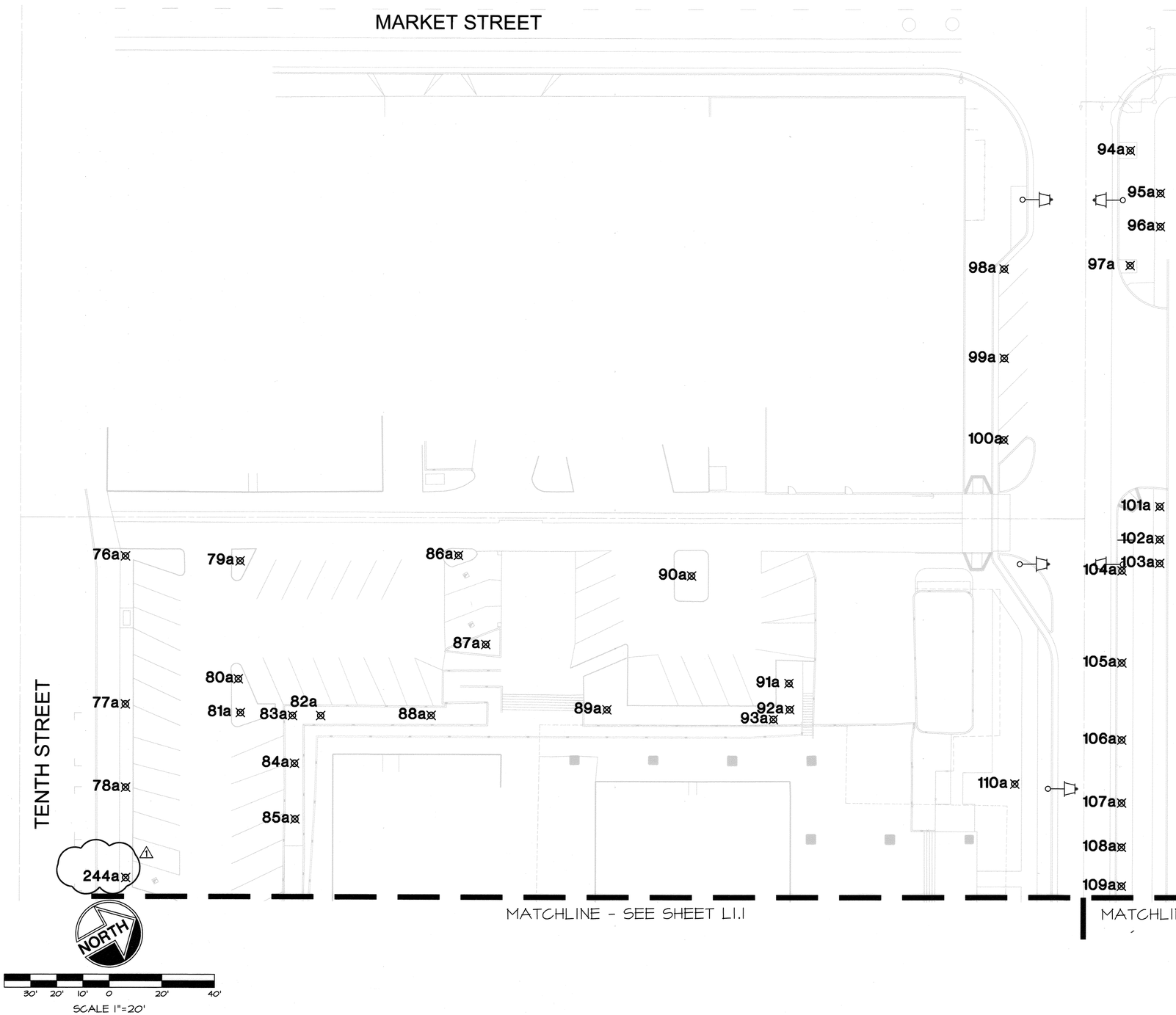
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

TREE RETENTION
M-457
L4.2A

SHEET 66 OF 100

BID SET



MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMAIN	124a	FICUS MICROCARPA NITIDA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMAIN	125a	KOELREUTERIA BIPINNATA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMAIN	126a	KOELREUTERIA BIPINNATA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMAIN	127a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	129a	CASSIA LEPTOPHYLLA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	130a	FICUS MICROCARPA NITIDA	REMOVE
8a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
10a	JACARANDA MIMOSIFOLIA	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
11a	JACARANDA MIMOSIFOLIA	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
12a	PINUS CANARIENSIS	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
13a	PINUS CANARIENSIS	REMAIN	136a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	137a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
15a	PINUS CANARIENSIS	REMAIN	138a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	139a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
18a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
19a	PINUS CANARIENSIS	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
20a	PINUS CANARIENSIS	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
21a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	148a	DYPSIS DECARYI	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	149a	DYPSIS DECARYI	REMAIN
27a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
28a	PINUS CANARIENSIS	REMAIN	151a	PODOCARPUS GRACILIOR	REMAIN
29a	PINUS CANARIENSIS	REMAIN	152a	PODOCARPUS GRACILIOR	REMOVE
30a	PRUNUS CAROLINIANA	REMOVE	153a	PODOCARPUS GRACILIOR	REMAIN
31a	PRUNUS CAROLINIANA	REMOVE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
32a	PITTOSPORUM TOBIRA	REMOVE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
33a	PITTOSPORUM TOBIRA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	167a	CITRUS S. 'WASHINGTON'	REMAIN
45a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	REMOVE	171a	CITRUS S. 'WASHINGTON'	REMAIN
49a	BRAHEA EDULIS	RELOCATE OFFSITE	172a	CINNAMOMUM CAMPHORA	REMAIN
50a	MAGNOLIA GRANDIFLORA	REMAIN	173a	CINNAMOMUM CAMPHORA	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	174a	CINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	175a	CINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	176a	PINUS CANARIENSIS	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	178a	PINUS CANARIENSIS	REMOVE
56a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
60a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
61a	JACARANDA MIMOSIFOLIA	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
62a	JACARANDA MIMOSIFOLIA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
63a	PODOCARPUS GRACILIOR	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
64a	OLEA EUROPAEA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
65a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
66a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
69a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
70a	PLATANUS X ACERIFOLIA	REMAIN	193a	CITRUS S. 'WASHINGTON'	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	194a	CITRUS S. 'WASHINGTON'	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	198a	KOELREUTERIA BIPINNATA	REMAIN
76a	SCHINUS TEREBINTHEFOLIUS	REMAIN	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMAIN	201a	KOELREUTERIA BIPINNATA	REMAIN
79a	SCHINUS TEREBINTHEFOLIUS	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
80a	PLATANUS X ACERIFOLIA	REMOVE	203a	KOELREUTERIA BIPINNATA	REMAIN
81a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
83a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMAIN
84a	PLATANUS X ACERIFOLIA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMAIN
86a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMAIN
88a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMAIN
90a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	214a	WASHINGTONIA ROBUSTA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	215a	KOELREUTERIA BIPINNATA	REMAIN
93a	PLATANUS X ACERIFOLIA	REMAIN	216a	MAGNOLIA GRANDIFLORA	REMAIN
94a	SYAGRUS ROMANZOFFIANUM	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
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96a	LAGERSTROEMIA INDICA	REMAIN	219a	JACARANDA MIMOSIFOLIA	REMAIN
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99a	SYAGRUS ROMANZOFFIANUM	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
100a	SYAGRUS ROMANZOFFIANUM	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
101a	LAGERSTROEMIA INDICA	REMAIN	224a	KOELREUTERIA BIPINNATA	REMAIN
102a	LAGERSTROEMIA INDICA	REMAIN	225a	MAGNOLIA GRANDIFLORA	REMAIN
103a	LAGERSTROEMIA INDICA	REMAIN	226a	KOELREUTERIA BIPINNATA	REMAIN
104a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
108a	TRACHYCARPUS FORTUNEI	REMOVE	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
109a	TRACHYCARPUS FORTUNEI	REMOVE	232a	MAGNOLIA GRANDIFLORA	REMAIN
110a	SCHINUS TEREBINTHEFOLIUS	REMOVE	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
113a	WASHINGTONIA ROBUSTA	REMAIN	236a	KOELREUTERIA BIPINNATA	REMAIN
114a	WASHINGTONIA FILIFERA	REMAIN	237a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
116a	LAGERSTROEMIA INDICA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
118a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
119a	CASSIA LEPTOPHYLLA	REMAIN	242a	PITTOSPORUM TOBIRA	REMOVE
120a	CASSIA LEPTOPHYLLA	REMAIN	243a	JACARANDA MIMOSIFOLIA	REMOVE
121a	CASSIA LEPTOPHYLLA	REMAIN	244a	SCHINUS TEREBINTHEFOLIUS	REMOVE
122a	CASSIA LEPTOPHYLLA	REMAIN	245a	KOELREUTERIA BIPINNATA	REMOVE
123a	FICUS MICROCARPA NITIDA	REMOVE			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 'L' SHEET L3.4.
- REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3764 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4312
E-MAIL: IDAVIDSON@ROLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN F. DAVIDSON 2499
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUPERSEDES SHT L4.3	IMD	3.25.08

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

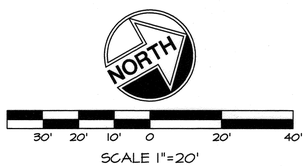
APPROVED BY _____ CITY ENGINEER
DATE 3/26/09

DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

TREE RETENTION
M-457
L4.3A
SHEET 67 OF 100

BID SET



SCALE 1"=20'

MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMAIN	124a	FICUS MICROCARPA NITIDA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMAIN	125a	KOELREUTERIA BIPINNATA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMAIN	126a	KOELREUTERIA BIPINNATA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMAIN	127a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	129a	CASSIA LEPTOPHYLLA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	130a	FICUS MICROCARPA NITIDA	REMOVE
8a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
10a	JACARANDA MIMOSIFOLIA	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
11a	JACARANDA MIMOSIFOLIA	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
12a	PINUS CANARIENSIS	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
13a	PINUS CANARIENSIS	REMAIN	136a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	137a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
15a	PINUS CANARIENSIS	REMAIN	138a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	139a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
18a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
19a	PINUS CANARIENSIS	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
20a	PINUS CANARIENSIS	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
21a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	148a	DYPSIS DECARY1	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	149a	DYPSIS DECARY1	REMAIN
27a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
28a	PINUS CANARIENSIS	REMAIN	151a	PODOCARPUS GRACILIOR	REMAIN
29a	PINUS CANARIENSIS	REMAIN	152a	PODOCARPUS GRACILIOR	REMOVE
30a	PRUNUS CAROLINIANA	REMOVE	153a	PODOCARPUS GRACILIOR	REMAIN
31a	PRUNUS CAROLINIANA	REMOVE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
32a	PITTOSPORUM TOBIRA	REMOVE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
33a	PITTOSPORUM TOBIRA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMM CAMPHORA	REMOVE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	167a	CITRUS S. 'WASHINGTON'	REMAIN
45a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	REMOVE	171a	CITRUS S. 'WASHINGTON'	REMAIN
49a	BRAHEA EDULIS	RELOCATE OFFSITE	172a	CINNAMOMM CAMPHORA	REMAIN
50a	MAGNOLIA GRANDIFLORA	REMAIN	173a	CINNAMOMM CAMPHORA	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	174a	CINNAMOMM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	175a	CINNAMOMM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	176a	PINUS CANARIENSIS	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	178a	PINUS CANARIENSIS	REMOVE
56a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
60a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
61a	JACARANDA MIMOSIFOLIA	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
62a	JACARANDA MIMOSIFOLIA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
63a	PODOCARPUS GRACILIOR	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
64a	OLEA EUROPAEA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
65a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
66a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
69a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
70a	PLATANUS X ACERIFOLIA	REMAIN	193a	CITRUS S. 'WASHINGTON'	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	194a	CITRUS S. 'WASHINGTON'	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	198a	KOELREUTERIA BIPINNATA	REMAIN
76a	SCHINUS TEREBINTHEFOLIUS	REMAIN	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMAIN	201a	KOELREUTERIA BIPINNATA	REMAIN
79a	SCHINUS TEREBINTHEFOLIUS	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
80a	PLATANUS X ACERIFOLIA	REMOVE	203a	KOELREUTERIA BIPINNATA	REMAIN
81a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
83a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMAIN
84a	PLATANUS X ACERIFOLIA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMAIN
86a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMAIN
88a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMAIN
90a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	214a	WASHINGTONIA ROBUSTA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	215a	KOELREUTERIA BIPINNATA	REMAIN
93a	PLATANUS X ACERIFOLIA	REMAIN	216a	MAGNOLIA GRANDIFLORA	REMAIN
94a	SYAGRUS ROMANZOFFIANUM	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
95a	LAGERSTROEMIA INDICA	REMAIN	218a	JACARANDA MIMOSIFOLIA	REMAIN
96a	LAGERSTROEMIA INDICA	REMAIN	219a	JACARANDA MIMOSIFOLIA	REMAIN
97a	SYAGRUS ROMANZOFFIANUM	REMOVE	220a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
98a	SYAGRUS ROMANZOFFIANUM	REMOVE	221a	KOELREUTERIA BIPINNATA	REMAIN
99a	SYAGRUS ROMANZOFFIANUM	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
100a	SYAGRUS ROMANZOFFIANUM	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
101a	LAGERSTROEMIA INDICA	REMAIN	224a	KOELREUTERIA BIPINNATA	REMAIN
102a	LAGERSTROEMIA INDICA	REMAIN	225a	MAGNOLIA GRANDIFLORA	REMAIN
103a	LAGERSTROEMIA INDICA	REMAIN	226a	KOELREUTERIA BIPINNATA	REMAIN
104a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
108a	TRACHYCARPUS FORTUNEI	REMOVE	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
109a	TRACHYCARPUS FORTUNEI	REMOVE	232a	MAGNOLIA GRANDIFLORA	REMAIN
110a	SCHINUS TEREBINTHEFOLIUS	REMOVE	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
113a	WASHINGTONIA ROBUSTA	REMAIN	236a	KOELREUTERIA BIPINNATA	REMAIN
114a	WASHINGTONIA FILIFERA	REMAIN	237a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
116a	LAGERSTROEMIA INDICA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
118a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
119a	CASSIA LEPTOPHYLLA	REMAIN	242a	PITTOSPORUM TOBIRA	REMOVE
120a	CASSIA LEPTOPHYLLA	REMAIN	243a	JACARANDA MIMOSIFOLIA	REMOVE
121a	CASSIA LEPTOPHYLLA	REMAIN	244a	SCHINUS TEREBINTHEFOLIUS	REMOVE
122a	CASSIA LEPTOPHYLLA	REMAIN	245a	KOELREUTERIA BIPINNATA	REMOVE
123a	FICUS MICROCARPA NITIDA	REMOVE			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 1, SHEET L3.9.
- REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

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TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4172
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE SUPERCEDES SHT L4.4	MM	3.25.08

DESIGNED BY LID DRAWN BY JM / MA CHECKED BY LID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/24/08

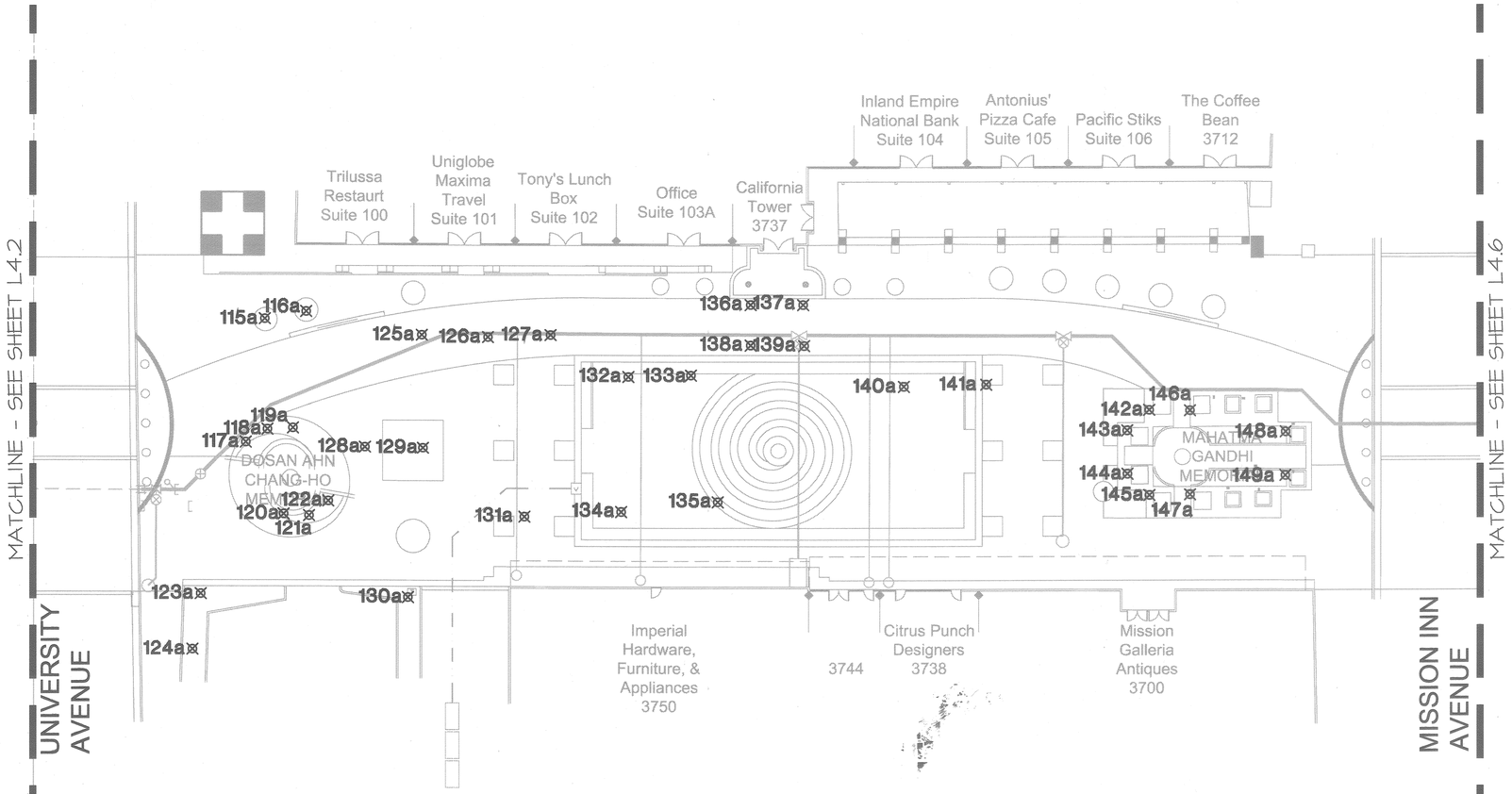
DOWNTOWN MALL
LANDSCAPE PLANS

3/20/08

TREE RETENTION
M-457
L4.4A

SHEET 68 OF 100

BID SET



NORTH

30' 20' 10' 0 20' 40'

SCALE 1"=20'

MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMOVE	122a	CASSIA LEPTOPHYLLA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMOVE	123a	FICUS MICROCARPA NITIDA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMOVE	124a	FICUS MICROCARPA NITIDA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMOVE	125a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	126a	KOELREUTERIA BIPINNATA	REMOVE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	127a	KOELREUTERIA BIPINNATA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
8a	JACARANDA MIMOSIFOLIA	REMAIN	129a	CASSIA LEPTOPHYLLA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	130a	FICUS MICROCARPA NITIDA	REMOVE
10a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
11a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
12a	PINUS CANARIENSIS	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
13a	PINUS CANARIENSIS	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
15a	PINUS CANARIENSIS	REMAIN	136a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	137a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	138a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
18a	PINUS CANARIENSIS	REMAIN	139a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
19a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
20a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
21a	LAGERSTROEMIA INDICA	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
27a	PINUS CANARIENSIS	REMAIN	148a	DYPSIS DECARYI	REMAIN
28a	PINUS CANARIENSIS	REMAIN	149a	DYPSIS DECARYI	REMAIN
29a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
30a	PRUNUS CAROLINIANA	REMOVE	151a	PODOCARPUS GRACILIOR	REMOVE
31a	PRUNUS CAROLINIANA	REMOVE	152a	PODOCARPUS GRACILIOR	REMOVE
32a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	153a	PODOCARPUS GRACILIOR	REMOVE
33a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
45a	BRAHEA EDULIS	RELOCATE OFFSITE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	167a	CITRUS S. 'WASHINGTON'	REMOVE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
49a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
50a	MAGNOLIA GRANDIFLORA	REMAIN	171a	CITRUS S. 'WASHINGTON'	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	172a	CINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	173a	CINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	174a	CINNAMOMUM CAMPHORA	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	175a	CINNAMOMUM CAMPHORA	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	176a	PINUS CANARIENSIS	REMAIN
56a	JACARANDA MIMOSIFOLIA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	178a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
60a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
61a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
62a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
63a	PODOCARPUS GRACILIOR	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
64a	OLEA EUROPAEA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
65a	PLATANUS X ACERIFOLIA	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
66a	PLATANUS X ACERIFOLIA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
69a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
70a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	193a	CITRUS S. 'WASHINGTON'	RELOCATE OFFSITE
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	194a	CITRUS S. 'WASHINGTON'	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
76a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	SCHINUS TEREBINTHEFOLIUS	REMOVE	198a	KOELREUTERIA BIPINNATA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMOVE	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
79a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMAIN
80a	PLATANUS X ACERIFOLIA	REMOVE	201a	KOELREUTERIA BIPINNATA	REMOVE
81a	PLATANUS X ACERIFOLIA	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	203a	KOELREUTERIA BIPINNATA	REMOVE
83a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
84a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMOVE
86a	LIQUIDAMBAR STRYACIFLUA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMOVE
88a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMOVE
90a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
93a	TRACHYCARPUS FORTUNEI	REMOVE	214a	WASHINGTONIA ROBUSTA	REMOVE
94a	LAGERSTROEMIA INDICA	REMOVE	215a	KOELREUTERIA BIPINNATA	REMOVE
95a	LAGERSTROEMIA INDICA	REMOVE	216a	MAGNOLIA GRANDIFLORA	REMAIN
96a	TRACHYCARPUS FORTUNEI	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
97a	BRAHEA EDULIS	REMOVE	218a	JACARANDA MIMOSIFOLIA	REMAIN
98a	BRAHEA EDULIS	REMOVE	219a	JACARANDA MIMOSIFOLIA	REMAIN
99a	BRAHEA EDULIS	REMOVE	220a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
100a	LAGERSTROEMIA INDICA	REMOVE	221a	KOELREUTERIA BIPINNATA	REMOVE
101a	LAGERSTROEMIA INDICA	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
102a	LAGERSTROEMIA INDICA	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
103a	TRACHYCARPUS FORTUNEI	REMOVE	224a	KOELREUTERIA BIPINNATA	REMOVE
104a	TRACHYCARPUS FORTUNEI	REMOVE	225a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	226a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
108a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMOVE
109a	SCHINUS TEREBINTHEFOLIUS	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
110a	WASHINGTONIA ROBUSTA	REMAIN	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	232a	MAGNOLIA GRANDIFLORA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
113a	WASHINGTONIA ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMOVE
114a	WASHINGTONIA FILIFERA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	236a	KOELREUTERIA BIPINNATA	REMOVE
116a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	237a	MAGNOLIA GRANDIFLORA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
118a	CASSIA LEPTOPHYLLA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMOVE
119a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
120a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
121a	CASSIA LEPTOPHYLLA	REMAIN			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 'L' SHEET L8.4.
- REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

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CALL: TOLL FREE
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227·2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4512
E-MAIL: IDAVIDSON@IDLANC.COM

REGISTERED LANDSCAPE ARCHITECT IAN T. DAVIDSON No. 2931 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY LID DRAWN BY JM / MA CHECKED BY LID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL LANDSCAPE PLANS

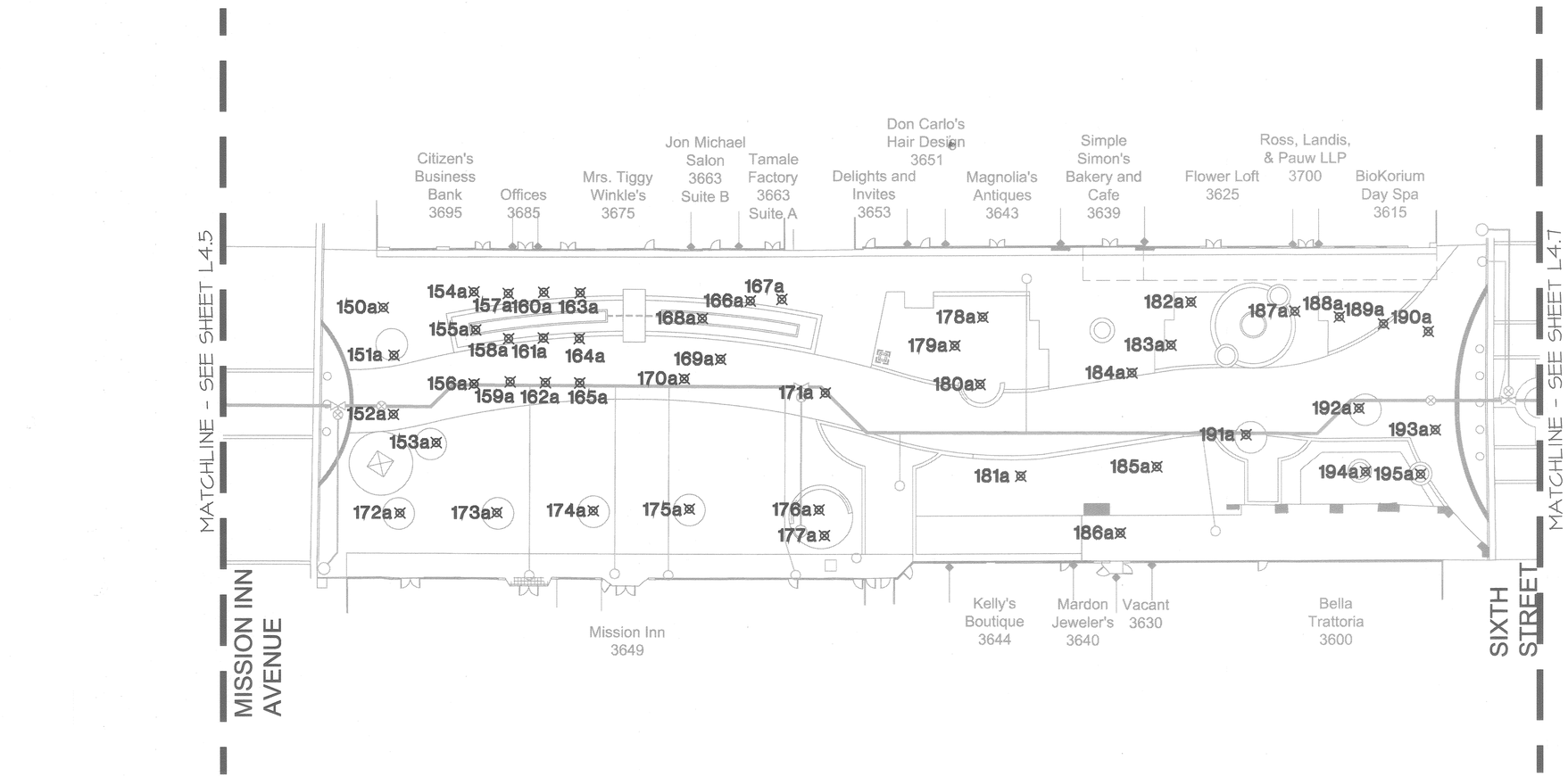
12/03/07

TREE RETENTION
M-457
L4.5

SHEET 69 OF 100

BID SET

M-457



NORTH

30' 20' 10' 0 20' 40'

SCALE 1"=20'

MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMOVE	122a	CASSIA LEPTOPHYLLA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMOVE	123a	FICUS MICROCARPA NITIDA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMOVE	124a	FICUS MICROCARPA NITIDA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMOVE	125a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	126a	KOELREUTERIA BIPINNATA	REMOVE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	127a	KOELREUTERIA BIPINNATA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
8a	JACARANDA MIMOSIFOLIA	REMAIN	129a	CASSIA LEPTOPHYLLA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	130a	FICUS MICROCARPA NITIDA	REMOVE
10a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
11a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
12a	PINUS CANARIENSIS	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
13a	PINUS CANARIENSIS	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
15a	PINUS CANARIENSIS	REMAIN	136a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	137a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	138a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
18a	PINUS CANARIENSIS	REMAIN	139a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
19a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
20a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
21a	LAGERSTROEMIA INDICA	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
27a	PINUS CANARIENSIS	REMAIN	148a	DYPSIS DECARYI	REMAIN
28a	PINUS CANARIENSIS	REMAIN	149a	DYPSIS DECARYI	REMAIN
29a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
30a	PRUNUS CAROLINIANA	REMOVE	151a	PODOCARPUS GRACILIOR	REMOVE
31a	PRUNUS CAROLINIANA	REMOVE	152a	PODOCARPUS GRACILIOR	REMOVE
32a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	153a	PODOCARPUS GRACILIOR	REMOVE
33a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
45a	BRAHEA EDULIS	RELOCATE OFFSITE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	167a	CITRUS S. 'WASHINGTON'	REMOVE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
49a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
50a	MAGNOLIA GRANDIFLORA	REMAIN	171a	CITRUS S. 'WASHINGTON'	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	172a	GINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	173a	GINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	174a	GINNAMOMUM CAMPHORA	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	175a	GINNAMOMUM CAMPHORA	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	176a	PINUS CANARIENSIS	REMAIN
56a	JACARANDA MIMOSIFOLIA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	178a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
60a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
61a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
62a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
63a	PODOCARPUS GRACILIOR	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
64a	OLEA EUROPAEA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
65a	PLATANUS X ACERIFOLIA	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
66a	PLATANUS X ACERIFOLIA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	REMOVE
68a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
69a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
70a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	193a	CITRUS S. 'WASHINGTON'	RELOCATE OFFSITE
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	194a	CITRUS S. 'WASHINGTON'	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
76a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	SCHINUS TEREBINTHEFOLIUS	REMOVE	198a	KOELREUTERIA BIPINNATA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMOVE	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
79a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMAIN
80a	PLATANUS X ACERIFOLIA	REMOVE	201a	KOELREUTERIA BIPINNATA	REMOVE
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82a	PLATANUS X ACERIFOLIA	REMAIN	203a	KOELREUTERIA BIPINNATA	REMOVE
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91a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMOVE
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93a	TRACHYCARPUS FORTUNEI	REMOVE	214a	WASHINGTONIA ROBUSTA	REMOVE
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96a	TRACHYCARPUS FORTUNEI	REMOVE	217a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
97a	BRAHEA EDULIS	REMOVE	218a	JACARANDA MIMOSIFOLIA	REMAIN
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105a	TRACHYCARPUS FORTUNEI	REMOVE	226a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
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116a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	237a	MAGNOLIA GRANDIFLORA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
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3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1289 - FAX 951 683 4713
E-MAIL: IDAVIDSON@IDSAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. 12/09
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 1/15/07

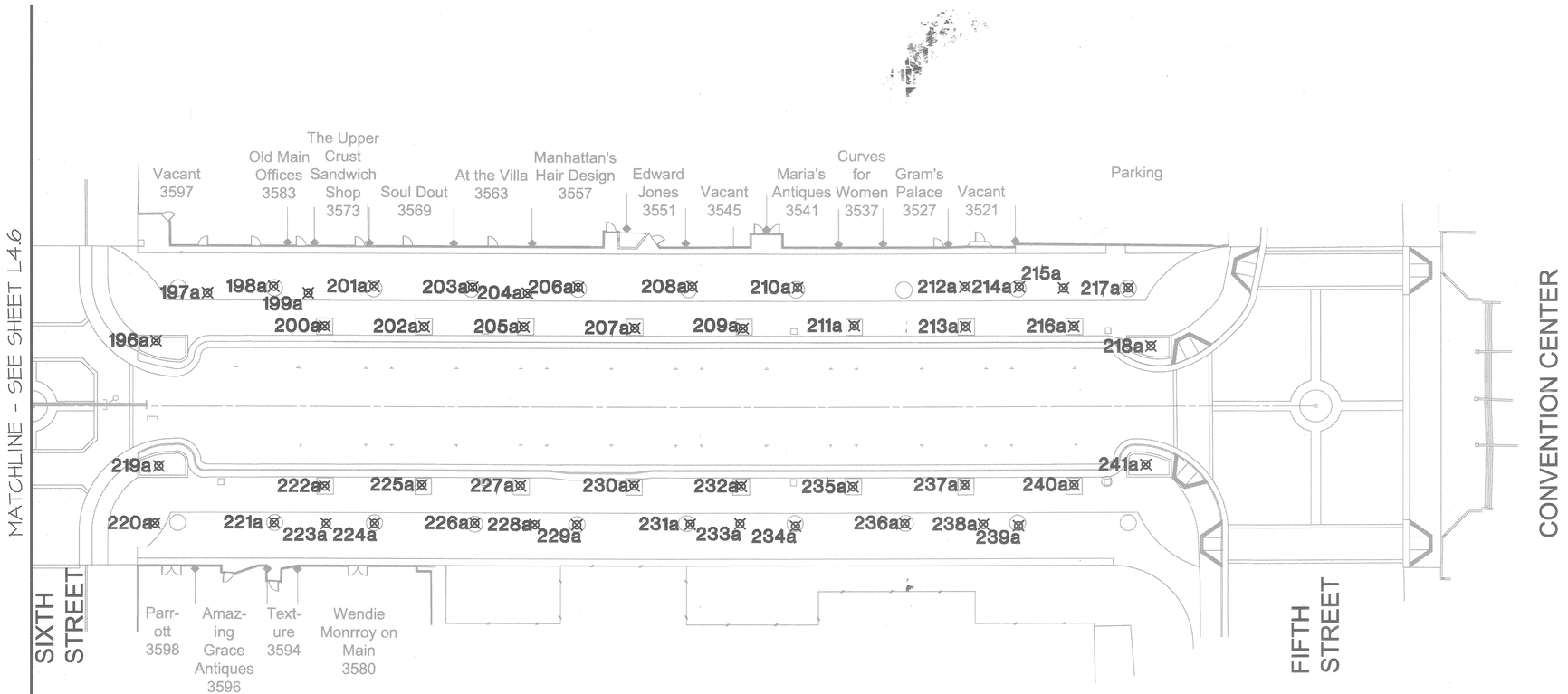
DOWNTOWN MALL
LANDSCAPE PLANS

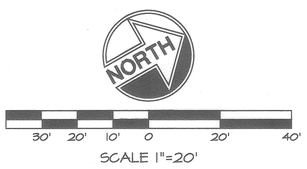
12/03/07

TREE RETENTION
M-457
L4.6
SHEET 70 OF 100

BID SET

M-457





MAIN STREET MALL (TREE LEGEND)

TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)	TREE #	TREE SPECIES - BOTANICAL NAME	ACTION (REMAIN, RELOCATE, REMOVE)
1a	SCHINUS TEREBINTHEFOLIUS	REMOVE	122a	CASSIA LEPTOPHYLLA	REMAIN
2a	SCHINUS TEREBINTHEFOLIUS	REMOVE	123a	FICUS MICROCARPA NITIDA	REMOVE
3a	SCHINUS TEREBINTHEFOLIUS	REMOVE	124a	FICUS MICROCARPA NITIDA	REMOVE
4a	SCHINUS TEREBINTHEFOLIUS	REMOVE	125a	KOELREUTERIA BIPINNATA	REMOVE
5a	LAGERSTROEMIA INDICA	RELOCATE WITHIN SITE	126a	KOELREUTERIA BIPINNATA	REMOVE
6a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	127a	KOELREUTERIA BIPINNATA	REMOVE
7a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	128a	BRAHEA EDULIS	RELOCATE OFFSITE
8a	JACARANDA MIMOSIFOLIA	REMAIN	129a	CASSIA LEPTOPHYLLA	REMOVE
9a	JACARANDA MIMOSIFOLIA	REMAIN	130a	FICUS MICROCARPA NITIDA	REMOVE
10a	JACARANDA MIMOSIFOLIA	REMAIN	131a	JACARANDA MIMOSIFOLIA	REMOVE
11a	JACARANDA MIMOSIFOLIA	REMAIN	132a	BRAHEA EDULIS	RELOCATE OFFSITE
12a	PINUS CANARIENSIS	REMAIN	133a	BRAHEA EDULIS	RELOCATE OFFSITE
13a	PINUS CANARIENSIS	REMAIN	134a	JACARANDA MIMOSIFOLIA	REMOVE
14a	LIQUIDAMBAR STRYACIFLUA	REMAIN	135a	JACARANDA MIMOSIFOLIA	REMOVE
15a	PINUS CANARIENSIS	REMAIN	136a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
16a	PINUS CANARIENSIS	REMAIN	137a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
17a	PINUS CANARIENSIS	REMAIN	138a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
18a	PINUS CANARIENSIS	REMAIN	139a	CALIFORNIA FAN PALM	RELOCATE OFFSITE
19a	PINUS CANARIENSIS	REMAIN	140a	KOELREUTERIA BIPINNATA	REMOVE
20a	PINUS CANARIENSIS	REMAIN	141a	KOELREUTERIA BIPINNATA	REMOVE
21a	LAGERSTROEMIA INDICA	REMAIN	142a	MICHELIA CHAMPACA	REMAIN
22a	LAGERSTROEMIA INDICA	REMAIN	143a	MICHELIA CHAMPACA	REMAIN
23a	LAGERSTROEMIA INDICA	REMAIN	144a	MICHELIA CHAMPACA	REMAIN
24a	JACARANDA MIMOSIFOLIA	REMAIN	145a	MICHELIA CHAMPACA	REMAIN
25a	JACARANDA MIMOSIFOLIA	REMAIN	146a	MICHELIA CHAMPACA	REMAIN
26a	JACARANDA MIMOSIFOLIA	REMAIN	147a	MICHELIA CHAMPACA	REMAIN
27a	PINUS CANARIENSIS	REMAIN	148a	DYPSIS DECARYI	REMAIN
28a	PINUS CANARIENSIS	REMAIN	149a	DYPSIS DECARYI	REMAIN
29a	PINUS CANARIENSIS	REMAIN	150a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE
30a	PRUNUS CAROLINIANA	REMOVE	151a	PODOCARPUS GRACILIOR	REMOVE
31a	PRUNUS CAROLINIANA	REMOVE	152a	PODOCARPUS GRACILIOR	REMOVE
32a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	153a	PODOCARPUS GRACILIOR	REMOVE
33a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	154a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
34a	PITTOSPORUM TOBIRA	RELOCATE OFFSITE	155a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
35a	PRUNUS CAROLINIANA	REMOVE	156a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
36a	JACARANDA MIMOSIFOLIA	REMOVE	157a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
37a	JACARANDA MIMOSIFOLIA	REMOVE	158a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
38a	JACARANDA MIMOSIFOLIA	REMOVE	159a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
39a	JACARANDA MIMOSIFOLIA	REMOVE	160a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
40a	CINNAMOMUM CAMPHORA	REMOVE	161a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
41a	JACARANDA MIMOSIFOLIA	REMOVE	162a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
42a	BRAHEA EDULIS	RELOCATE OFFSITE	163a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
43a	JACARANDA MIMOSIFOLIA	REMOVE	164a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
44a	JACARANDA MIMOSIFOLIA	REMOVE	165a	TRACHYCARPUS FORTUNEI	RELOCATE OFFSITE
45a	BRAHEA EDULIS	RELOCATE OFFSITE	166a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
46a	BRAHEA EDULIS	RELOCATE OFFSITE	167a	CITRUS S. 'WASHINGTON'	REMOVE
47a	BRAHEA EDULIS	RELOCATE OFFSITE	168a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
48a	BRAHEA EDULIS	RELOCATE OFFSITE	169a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
49a	BRAHEA EDULIS	RELOCATE OFFSITE	170a	MAGNOLIA SOULANGEANA	RELOCATE OFFSITE
50a	MAGNOLIA GRANDIFLORA	REMAIN	171a	CITRUS S. 'WASHINGTON'	REMAIN
51a	KOELREUTERIA BIPINNATA	REMOVE	172a	CINNAMOMUM CAMPHORA	REMAIN
52a	KOELREUTERIA BIPINNATA	REMOVE	173a	CINNAMOMUM CAMPHORA	REMAIN
53a	MAGNOLIA GRANDIFLORA	REMAIN	174a	CINNAMOMUM CAMPHORA	REMAIN
54a	MAGNOLIA GRANDIFLORA	REMAIN	175a	CINNAMOMUM CAMPHORA	REMAIN
55a	KOELREUTERIA BIPINNATA	REMOVE	176a	PINUS CANARIENSIS	REMAIN
56a	JACARANDA MIMOSIFOLIA	REMAIN	177a	PINUS CANARIENSIS	REMAIN
57a	JACARANDA MIMOSIFOLIA	REMAIN	178a	PINUS CANARIENSIS	REMAIN
58a	JACARANDA MIMOSIFOLIA	REMAIN	179a	PINUS CANARIENSIS	REMAIN
59a	JACARANDA MIMOSIFOLIA	REMAIN	180a	PINUS CANARIENSIS	REMAIN
60a	JACARANDA MIMOSIFOLIA	REMAIN	181a	JACARANDA MIMOSIFOLIA	REMAIN
61a	JACARANDA MIMOSIFOLIA	REMAIN	182a	KOELREUTERIA BIPINNATA	REMOVE
62a	JACARANDA MIMOSIFOLIA	REMAIN	183a	KOELREUTERIA BIPINNATA	REMOVE
63a	PODOCARPUS GRACILIOR	REMAIN	184a	FLOWERING MAGNOLIA	RELOCATE WITHIN SITE
64a	OLEA EUROPAEA	REMAIN	185a	JACARANDA MIMOSIFOLIA	REMAIN
65a	PLATANUS X ACERIFOLIA	REMAIN	186a	PHOENIX CANARIENSIS	REMAIN
66a	PLATANUS X ACERIFOLIA	REMAIN	187a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
67a	PLATANUS X ACERIFOLIA	REMAIN	188a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
68a	PLATANUS X ACERIFOLIA	REMAIN	189a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
69a	PLATANUS X ACERIFOLIA	REMAIN	190a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
70a	PLATANUS X ACERIFOLIA	REMAIN	191a	PINUS CANARIENSIS	REMAIN
71a	PLATANUS X ACERIFOLIA	REMAIN	192a	PINUS CANARIENSIS	REMAIN
72a	LIQUIDAMBAR STRYACIFLUA	REMOVE	193a	CITRUS S. 'WASHINGTON'	RELOCATE OFFSITE
73a	LIQUIDAMBAR STRYACIFLUA	REMOVE	194a	CITRUS S. 'WASHINGTON'	REMAIN
74a	LIQUIDAMBAR STRYACIFLUA	REMOVE	195a	CITRUS S. 'WASHINGTON'	REMAIN
75a	LIQUIDAMBAR STRYACIFLUA	REMOVE	196a	JACARANDA MIMOSIFOLIA	REMAIN
76a	LIQUIDAMBAR STRYACIFLUA	REMOVE	197a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
77a	SCHINUS TEREBINTHEFOLIUS	REMOVE	198a	KOELREUTERIA BIPINNATA	REMOVE
78a	SCHINUS TEREBINTHEFOLIUS	REMOVE	199a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
79a	LIQUIDAMBAR STRYACIFLUA	REMOVE	200a	MAGNOLIA GRANDIFLORA	REMAIN
80a	PLATANUS X ACERIFOLIA	REMOVE	201a	KOELREUTERIA BIPINNATA	REMOVE
81a	PLATANUS X ACERIFOLIA	REMAIN	202a	MAGNOLIA GRANDIFLORA	RELOCATE OFFSITE
82a	PLATANUS X ACERIFOLIA	REMAIN	203a	KOELREUTERIA BIPINNATA	REMOVE
83a	PLATANUS X ACERIFOLIA	REMAIN	204a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
84a	PLATANUS X ACERIFOLIA	REMAIN	205a	MAGNOLIA GRANDIFLORA	REMAIN
85a	PLATANUS X ACERIFOLIA	REMAIN	206a	KOELREUTERIA BIPINNATA	REMOVE
86a	LIQUIDAMBAR STRYACIFLUA	REMAIN	207a	MAGNOLIA GRANDIFLORA	REMAIN
87a	PLATANUS X ACERIFOLIA	REMAIN	208a	KOELREUTERIA BIPINNATA	REMOVE
88a	PLATANUS X ACERIFOLIA	REMAIN	209a	MAGNOLIA GRANDIFLORA	REMAIN
89a	PLATANUS X ACERIFOLIA	REMAIN	210a	KOELREUTERIA BIPINNATA	REMOVE
90a	PLATANUS X ACERIFOLIA	REMAIN	211a	MAGNOLIA GRANDIFLORA	REMAIN
91a	PLATANUS X ACERIFOLIA	REMAIN	212a	KOELREUTERIA BIPINNATA	REMOVE
92a	PLATANUS X ACERIFOLIA	REMAIN	213a	MAGNOLIA GRANDIFLORA	REMAIN
93a	TRACHYCARPUS FORTUNEI	REMOVE	214a	WASHINGTONIA ROBUSTA	REMOVE
94a	LAGERSTROEMIA INDICA	REMOVE	215a	KOELREUTERIA BIPINNATA	REMOVE
95a	LAGERSTROEMIA INDICA	REMOVE	216a	MAGNOLIA GRANDIFLORA	REMAIN
96a	TRACHYCARPUS FORTUNEI	REMOVE	217a	WASHINGTONIA-ROBUSTA	RELOCATE OFFSITE
97a	BRAHEA EDULIS	REMOVE	218a	JACARANDA MIMOSIFOLIA	REMAIN
98a	BRAHEA EDULIS	REMOVE	219a	JACARANDA MIMOSIFOLIA	REMAIN
99a	BRAHEA EDULIS	REMOVE	220a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
100a	LAGERSTROEMIA INDICA	REMOVE	221a	KOELREUTERIA BIPINNATA	REMOVE
101a	LAGERSTROEMIA INDICA	REMOVE	222a	MAGNOLIA GRANDIFLORA	REMAIN
102a	LAGERSTROEMIA INDICA	REMOVE	223a	WASHINGTONIA ROBUSTA	RELOCATE OFFSITE
103a	TRACHYCARPUS FORTUNEI	REMOVE	224a	KOELREUTERIA BIPINNATA	REMOVE
104a	TRACHYCARPUS FORTUNEI	REMOVE	225a	MAGNOLIA GRANDIFLORA	REMAIN
105a	TRACHYCARPUS FORTUNEI	REMOVE	226a	KOELREUTERIA BIPINNATA	RELOCATE OFFSITE
106a	TRACHYCARPUS FORTUNEI	REMOVE	227a	MAGNOLIA GRANDIFLORA	REMAIN
107a	TRACHYCARPUS FORTUNEI	REMOVE	228a	WASHINGTONIA-ROBUSTA	RELOCATE OFFSITE
108a	TRACHYCARPUS FORTUNEI	REMOVE	229a	KOELREUTERIA BIPINNATA	REMOVE
109a	SCHINUS TEREBINTHEFOLIUS	REMOVE	230a	MAGNOLIA GRANDIFLORA	REMAIN
110a	WASHINGTONIA-ROBUSTA	REMAIN	231a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
111a	WASHINGTONIA ROBUSTA	REMAIN	232a	MAGNOLIA GRANDIFLORA	REMAIN
112a	WASHINGTONIA ROBUSTA	REMAIN	233a	WASHINGTONIA FILIFERA	RELOCATE OFFSITE
113a	WASHINGTONIA-ROBUSTA	REMAIN	234a	KOELREUTERIA BIPINNATA	REMOVE
114a	WASHINGTONIA FILIFERA	REMAIN	235a	MAGNOLIA GRANDIFLORA	REMAIN
115a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	236a	KOELREUTERIA BIPINNATA	REMOVE
116a	LAGERSTROEMIA INDICA	RELOCATE OFFSITE	237a	MAGNOLIA GRANDIFLORA	REMAIN
117a	CASSIA LEPTOPHYLLA	REMAIN	238a	MEXICAN FAN PALM	RELOCATE OFFSITE
118a	CASSIA LEPTOPHYLLA	REMAIN	239a	KOELREUTERIA BIPINNATA	REMOVE
119a	CASSIA LEPTOPHYLLA	REMAIN	240a	MAGNOLIA GRANDIFLORA	REMAIN
120a	CASSIA LEPTOPHYLLA	REMAIN	241a	JACARANDA MIMOSIFOLIA	REMAIN
121a	CASSIA LEPTOPHYLLA	REMAIN			

- TREES MARKED SAVED SHALL BE PROTECTED IN PLACE PER THE COUNTY PARKS & OPEN SPACE DISTRICTS STANDARDS. SEE ALSO DETAIL 1, SHEET L3.9.
- *REFER TO TREE ARBORIST PLAN PREPARED BY MICHAEL T. MAHONEY, INDEPENDENT CONSULTANT.

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4703
E-MAIL: IDAVIDSON@IDSAINC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
Signature
6/30/09
Exp. 12/09
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

12/03/07

TREE RETENTION
M-457
L4.7

SHEET 71 OF 100

BID SET

M-457

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER CATALOG#	LAMP QTY. & TYPE	FIXTURE WATTAGE	VOLTS	REMARKS
A	ELA #LBI20/CR22A/CR45B/P3025D OR APPROVED EQUAL BY DYNAMIC LIGHTING *=COLOR AS SELECTED BY ARCHITECT	(2) 100 WATT METAL HAILDE TWIN (180°)	244	208 MULTI- TAP BALLAT	TWIN POLE MOUNTED CUTOFF LIGHT FIXTURE COMPLETE WITH TEMPERED GLASS, TAMPERED RESISTANT LATCH, QUICK DISCONNECT, TYPE III DISTRIBUTION, CROSSARM, BANNER ARM, 4' FLUTED ROUND STRAIGHT POLE AND SPEAKER BRACKETS. SEE DETAIL 4, SHEET E0.4.
B	ELA #LBI20/CR45B/P3025D OR APPROVED EQUAL BY DYNAMIC LIGHTING *=COLOR AS SELECTED BY ARCHITECT	(2) 100 WATT METAL HAILDE TWIN (180°)	244	208 MULTI- TAP BALLAT	TWIN POLE MOUNTED CUTOFF LIGHT FIXTURE COMPLETE WITH TEMPERED GLASS, TAMPERED RESISTANT LATCH, QUICK DISCONNECT, TYPE III DISTRIBUTION, CROSSARM AND 4" FLUTED ROUND STRAIGHT POLE. SEE DETAIL 4, SHEET E0.4.
C	ELA #LBI20 OR APPROVED EQUAL BY DYNAMIC LIGHTING *=COLOR AS SELECTED BY ARCHITECT	(1) 100 WATT METAL HAILDE	122	208 MULTI- TAP BALLAT	ARBOR MOUNTED CUTOFF LIGHT FIXTURE COMPLETE WITH TEMPERED GLASS, TAMPERED RESISTANT LATCH, QUICK DISCONNECT, TYPE III DISTRIBUTION AND WALL BRACKET.
D	BEGA #84224M OR APPROVED EQUAL BY KIM LIGHTING	(1) 100 WATT METAL HAILDE	122	120	SQUARE SHIELDED BOLLARD COMPLETE WITH 3/16" THICK ALUMINUM POST, ONE PIECE DIE CAST ALUMINUM CAP SECURED WITH FOUR (4) SOCKET HEAD STAINLESS STEEL SCREWS, HEAVY PRESSED OPTICAL GLASS SPREAD LENS, INTERNAL ANODIZED ALUMINUM REFLECTOR AND FULLY GASKETED WITH A HIGH TEMPERATURE SILICONE RUBBER CHANNEL.
E	KIM LIGHTING #LTV168NF/9LED120/NB/TR60 NO KNOWN EQUAL	9 WATT LED	9	120	6" DIAMETER INGRADE WIDE FLOOD LED LIGHT FIXTURE COMPLETE WITH DIE-CAST BRASS HOUSING, 3/16" THICK SLIGHTLY CROWNED CLEAR TEMPERED SODA LIME GLASS LENS, DIE-CAST BRASS LENS RING, BLACKENED STAINLESS STEEL HEX-SOCKET CAP SCREWS, 340° HORIZONTAL ROTATION AND 15° VERTICAL OPTICAL ADJUSTMENT, MOLDED SILICONE GASKETED THROUGHOUT, ANTI-SIPHON PLUGS AND 0°F STARTING TEMPERATURE CONSTANT CURRENT ELECTRONIC DRIVER.
F	KIM LIGHTING #LTV168NF/15LED120/NB/TR60 NO KNOWN EQUAL	15 WATT LED	15	120	6" DIAMETER INGRADE WIDE FLOOD LED LIGHT FIXTURE COMPLETE WITH DIE-CAST BRASS HOUSING, 3/16" THICK SLIGHTLY CROWNED CLEAR TEMPERED SODA LIME GLASS LENS, DIE-CAST BRASS LENS RING, BLACKENED STAINLESS STEEL HEX-SOCKET CAP SCREWS, 340° HORIZONTAL ROTATION AND 15° VERTICAL OPTICAL ADJUSTMENT, MOLDED SILICONE GASKETED THROUGHOUT, ANTI-SIPHON PLUGS AND 0°F STARTING TEMPERATURE CONSTANT CURRENT ELECTRONIC DRIVER.
G	KIM LIGHTING #LTV1NF/18LED120/NB/TR50 NO KNOWN EQUAL	18 WATT LED	18	120	9" DIAMETER INGRADE NARROW FLOOD LED LIGHT FIXTURE COMPLETE WITH 3/16" MIN. WALL HIGH TEMPERATURE COMPRESSION MOLDED FIBERGLASS COMPOSITE HOUSING, 3/16" THICK SLIGHTLY CROWNED CLEAR TEMPERED SODA LIME GLASS LENS, DIE-CAST BRASS LENS RING, BLACKENED STAINLESS STEEL HEX-SOCKET CAP SCREWS, 340° HORIZONTAL ROTATION AND 15° VERTICAL OPTICAL ADJUSTMENT, MOLDED SILICONE GASKETED THROUGHOUT, ANTI-SIPHON PLUGS AND 0°F STARTING TEMPERATURE CONSTANT CURRENT ELECTRONIC DRIVER.
H	BETA-CALCO #NSC60-RS47TI-3 LED-WH-SS NO KNOWN EQUAL	(3) 1.2 WATT LED	3.6	120	5 1/2" DIAMETER INGRADE LED LIGHT FIXTURE COMPLETE WITH DIE- CAST ALUMINUM BODY, BRUSHED STAINLESS STEEL FACE PLATE, 12mm THICK TEMPERED GLASS LENS, TAMPERPROOF SCREWS AND INTEGRAL DRIVER. LENS SHALL BE ETCHED IN THE INSIDE TO PROVIDE A WIDEN BEAM SPEAD, SOFTEN THE LIGHT AND HIDE THE LED ARRAY.
I	KIM LIGHTING #ELB07/15S NO KNOWN EQUAL	15 WATT LED	15	120	RECESSED MOUNTED LED STEP LIGHT FIXTURE COMPLETE WITH DIE-CAST LOW COPPER ALUMINUM HOUSING, TEMPERED PRISMATIC GLASS LENS, STAINLESS STEEL HEX-SOCKET CAP SCREWS, 2.5 MIL NOMINAL THICKNESS THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKET AND 0°F STARTING TEMPERATURE CONSTANT CURRENT ELECTRONIC DRIVER.
J	KIM LIGHTING #15A/SET4/175MH*/BL-P/HS (FIXTURE) #PSA**-418B/SA/BL-P (POLE) OR APPROVED EQUAL BY GARDCO * = VOLTAGE SHALL BE FIELD VERIFIED ** = POLE HEIGHT TO BE FIELD VERIFIED	(1) 175 WATT METAL HAILDE SINGLE	205	VERIFY VOLTAGE IN FIELD	POLE MOUNTED FULL CUTOFF AREA LIGHT FIXTURE COMPLETE WITH DIE-CAST LOW COPPER ALUMINUM HOUSING, SPECULAR ALZAK SEGMENTED FIELD ROTATABLE REFLECTOR, 3/16" THICK CLEAR TEMPERED FLAT GLASS LENS, STAINLESS STEEL HARDWARE, 2.5 MIL NOMINAL THICKNESS THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKETING, PREWIRED ELECTRICAL MODULE WITH QUICK DISCONNECT PLUGS, TYPE IV DISTRIBUTION, HOUSE SIDE SHIELD AND 4" SQUARE ALUMINUM POLE. SEE DETAIL 8, SHEET E0.4.
K	KIM LIGHTING #15A/SET4/175MH*/BL-P (FIXTURE) #PSA**-418B/SA/BL-P (POLE) OR APPROVED EQUAL BY GARDCO * = VOLTAGE SHALL BE FIELD VERIFIED ** = POLE HEIGHT TO BE FIELD VERIFIED	(1) 175 WATT METAL HAILDE SINGLE	205	VERIFY VOLTAGE IN FIELD	POLE MOUNTED FULL CUTOFF AREA LIGHT FIXTURE COMPLETE WITH DIE-CAST LOW COPPER ALUMINUM HOUSING, SPECULAR ALZAK SEGMENTED FIELD ROTATABLE REFLECTOR, 3/16" THICK CLEAR TEMPERED FLAT GLASS LENS, STAINLESS STEEL HARDWARE, 2.5 MIL NOMINAL THICKNESS THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKETING, PREWIRED ELECTRICAL MODULE WITH QUICK DISCONNECT PLUGS, TYPE IV DISTRIBUTION AND 4" SQUARE ALUMINUM POLE. SEE DETAIL 8, SHEET E0.4.
L	KIM LIGHTING #25B/SET4/175MH*/BL-P (FIXTURE) #PSA**-418B/SB/BL-P (POLE) OR APPROVED EQUAL BY GARDCO * = VOLTAGE SHALL BE FIELD VERIFIED ** = POLE HEIGHT TO BE FIELD VERIFIED	(2) 175 WATT METAL HAILDE TWIN (180°)	410	VERIFY VOLTAGE IN FIELD	TWIN POLE MOUNTED FULL CUTOFF AREA LIGHT FIXTURE COMPLETE WITH DIE-CAST LOW COPPER ALUMINUM HOUSING, SPECULAR ALZAK SEGMENTED FIELD ROTATABLE REFLECTOR, 3/16" THICK CLEAR TEMPERED FLAT GLASS LENS, STAINLESS STEEL HARDWARE, 2.5 MIL NOMINAL THICKNESS THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKETING, PREWIRED ELECTRICAL MODULE WITH QUICK DISCONNECT PLUGS, TYPE IV DISTRIBUTION AND 4" SQUARE ALUMINUM POLE. SEE DETAIL 8, SHEET E0.4.
M	ARCHITECTURAL AREA LIGHTING #OSR-TOTEBS/LAMP TO/SLN/SAH/BLK/ MPS-45 (FIXTURE) #PR4/4R16-125/BLK (POLE) OR APPROVED EQUAL BY KIM LIGHTING	(1) 70 WATT T6 CERAMIC METAL HAILDE	95	120	POLE MOUNTED H.I.D. FLOOD LIGHT FIXTURE COMPLETE WITH DIE-CAST ALUMINUM HOUSING, SPUN ALUMINUM PARABOLIC REFLECTOR, CLEAR TEMPERED GLASS LENS, LINEAR SPREAD LENS, FULL HOOD SHIELD, STAINLESS STEEL HARDWARE, THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKETING, ELECTRONIC BALLAST MOUNTED ON A PREWIRED PLATE WITH QUICK DISCONNECT PLUG AND 4" ROUND ALUMINUM POLE. SEE DETAIL 4, SHEET E0.4 FOR CONCRETE BASE REQUIREMENTS.
N	KIM LIGHTING #ELT32NF/6LED120/BL/PLT3/AGS73BL/EP17 NO KNOWN EQUAL	6 WATT LED	6	120	POWER POST MOUNTED LED LANDSCAPCE LIGHT FIXTURE COMPLETE WITH DIE-CAST ALUMINUM BODY AND SHROUD, CLEAR TEMPERED SODA LIME GLASS LENS, PRISMATIC LENS INSERT, ADJUSTABLE GLARE SHEILD, 1" I/2" BLACK UV RESISTANT PVC POWERPOST, 2.5 MIL NOMINAL THICKNESS THERMOSET POLYESTER POWDER COAT PAINT, SILICONE GASKET AND 0°F STARTING TEMPERATURE ELECTRONIC DRIVER.

NOTE: ALL LIGHT FIXTURES THAT ARE LABELED WITH "NO KNOWN EQUAL" CAN ONLY BE SUBSTITUTED BY SUBMITTING A SAMPLE FOR A TABLE TOP COMPARISON BETWEEN THE ABOVE SPECIFIED LIGHT FIXTURE AND THE LIGHT FIXTURE TO BE SUBMITTED AS AN EQUAL FOR COMPARISON BY THE OWNER, ARCHITECT AND ELECTRICAL ENGINEER. IF A SAMPLE IS NOT SUBMITTED FOR COMPARISON NO SUBSTITUTIONS WILL BE ACCEPTED AND THE SPECIFIED FIXTURE SHALL BE PROVIDED, NO EXCEPTIONS TAKEN.

GENERAL NOTES

1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATIONAL SYSTEM.
2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
   a. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.
   b. USE FLEXIBLE METALLIC CONDUIT FOR SHORT CONNECTION TO LIGHTING FIXTURE (6' MAX.), CONNECTION TO EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOOD STUD WALLS. USE SEAL-TITE IN AREAS EXPOSED TO WEATHER.
   c. USE ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS FOR BUILDING INTERIOR WORK.
   d. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
4. ALL NEW WIRING SHALL BE 600 VOLT RATED COPPER TYPE "THHN/THWN" - U.O.N..
5. ALL FIXTURE, DEVICE, ETC... LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.
6. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES.
7. THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
8. THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC. AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.
9. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
10. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL GOVERNING CODES.
11. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..
12. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
13. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..
14. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE PART OF THIS CONTRACT.
15. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES, DEVICES, FEEDERS, ETC., EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
17. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTORS.
18. ALL ELECTRICAL EQUIPMENT CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
19. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT AND ELECTRICAL MATERIALS TO BE USED ON THE PROJECT. ALL ITEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OR PERFORMING ANY ROUGH-IN WORK.
20. THESE DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS CONTRACT DOCUMENTS REQUIRED FOR AGENCIES REVIEW, APPROVAL AND FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT SCALED CONSTRUCTION DRAWINGS SHOWING EQUIPMENT LOCATIONS, CONDUIT ROUTING AND POINT TO POINT CONNECTIONS AS A PART OF THE SHOP DRAWING SUBMITTALS.
21. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE C.E.C. ART. 250. ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N.
22. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT.
23. PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
24. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE AND PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
25. EVERY CONDUCTOR OF EACH SYSTEM SHALL BE PERMANENTLY TAGGED AS INDICATED IN THE SPECIFICATIONS.
26. ALL EXPOSED CONDUITS, IN VIEW OF THE PUBLIC, SHALL BE APPLIES WITH TWO (2) COATS OF PAINT TO MATCH FINISH OF SURFACE TO WHICH IT IS ATTACHED/SUPPORTED TO.
27. ALL CONDUIT ONLY (C.O.) SHALL BE PROVIDED WITH A 3/16" PULL ROPE, TAGGED AND IDENTIFIED AT BOTH ENDS WITH THE LOCATION OF TERMINATION.
28. WHERE A CONFLICT OCCURS BETWEEN THE PLANS AND THE ELECTRICAL SPECIFICATIONS ISSUED AS A PART OF THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.
29. THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2001 CBC SECTION 1632A AND TABLE 16A-0. ANCHORAGE DETAILS NOT SHOWN ON THE APPROVED PLANS ARE SUBJECT TO FIELD APPROVAL BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD AND FIELD INSPECTOR.
30. ALL UNDERGROUND UTILITIES AND/OR STRUCTURES THAT ARE SHOWN ON THE PLANS HAVE BEEN REPORTED BY THE OWNER AND/OR OTHERS AND THOSE THAT WERE SHOWN ON THE RECORD DRAWINGS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES AND/OR STRUCTURES NOT REPORTED TO THE ENGINEER, NOT INDICATED ON THE RECORDS DRAWINGS EXAMINED AND LOCATED AT VARIANCE WITH THAT REPORTED AND/OR SHOWN ON THE RECORDS DRAWINGS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND/OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF THE UTILITIES AND/OR STRUCTURES CONCERNED BEFORE STARTING WORK.
31. THE CONTRACTOR SHALL PROVIDE ENGRAVED WALL PLATES FOR ALL OUTLETS AND SWITCHES INDICATING THE PANEL DESIGNATION AND CIRCUIT NUMBER.
32. ALL ELECTRICAL DEVICES, FIXTURES, CONDUIT, WIRING, EQUIPMENT, ETC. SHOWN ON THESE PLANS ARE NEW UNLESS OTHERWISE INDICATED.

ELECTRICAL SYMBOLS LIST

- #10 — CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE. TICK MARKS INDICATE QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N.. CONDUIT SHOWN WITH NO TICK MARKS INDICATE 2 #12 THHN/THWN CONDUCTORS - U.O.N.. NUMERALS ADJACENT TO TICK MARKS ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. CONDUIT SHALL BE 3/4" MINIMUM - U.O.N..
- #10 — CONDUIT ROUTED BELOW FINISHED GRADE AND / OR CONCRETE SLAB. TICK MARKS INDICATE QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N.. CONDUITS SHOWN WITH NO TICK MARKS INDICATE 2 #12 THHN/THWN CONDUCTORS - U.O.N.. NUMERALS ADJACENT TO TICK MARKS ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. CONDUIT SHALL BE 3/4" MINIMUM - U.O.N.. INCLUDE CODE SIZED COPPER BOND CONDUCTOR (NOT SHOWN ON PLAN) IN ALL NON-METALLIC CONDUIT RUNS.
- HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE.
- -E- EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- -R- EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED.
- A (3) +20'-0" — LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES TYPE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMBER AT BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
- WEATHERPROOF SPECIAL EVENT RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N.. 50 AMP, 125/250 VOLTS, 3 POLE, 4 WIRE GROUNDING. VERIFY NEMA CONFIGURATION WITH THE CITY OF RIVERSIDE PRIOR TO PLACING ORDER.
- WEATHERPROOF STANDARD 20A, 120V-1ø GROUNDING TYPE "GROUND FAULT INTERRUPTER" (G.F.I.) RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N.
- J WP — JUNCTION BOX. SIZED BY THIS CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND/OR CONDUCTORS PASSING THRU. WP - DENOTES WEATHERPROOF.
- WALL MOUNTED EXTERIOR SPEAKER. WP - DENOTES WEATHERPROOF.
- BOLLARD TYPE LIGHTING FIXTURE. PROVIDE CONCRETE FOOTING PER MFGRS. REQUIREMENTS.
- INGRADE LIGHTING FIXTURE.
- STEP LIGHT FIXTURE.
- PARKING LOT LIGHTING FIXTURE.
- AREA LIGHTING FIXTURE.
- POLE MOUNTED FLOOD LIGHT FIXTURE.
- FLOOD LIGHT FIXTURE.
- LANDSCAPE FLOOD LIGHT FIXTURE.
- STREET LIGHTING FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- POLE MOUNTED EXTERIOR SPEAKER.
- S EXTERIOR SPEAKER

DEMOLITION NOTES

1. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
2. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
3. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
4. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
5. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
6. RESEAL ALL PENETRATIONS OR OPENINGS THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
7. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIAL SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.

REFERENCES & ABBREVIATIONS

(D)	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
(1)	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
AFF	ABOVE FINISH FLOOR	C	CONDUIT
UON	UNLESS OTHERWISE NOTED	V	VOLTS
CO	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
CU	COPPER	GND	GROUND
MLO	MAIN LUGS ONLY	VL	VERIFY LOCATION
(E)	EXISTING TO REMAIN	AC	ABOVE COUNTER
(R)	EXISTING TO BE REMOVED	NL	NIGHT LIGHT
(RR)	EXISTING TO BE RELOCATED	EM	EMERGENCY
(EN)	EXISTING IN NEW LOCATION	OC	ON CENTER
(N)	NEW		

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REGISTERED PROFESSIONAL ENGINEER — RICARDO E. SOTELO — No. E17229 — 6/30/09 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4352
E-MAIL: IDAVIDSON@DLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — NO. 3981 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	RE-NUMBERED SHEET	MM	12-4-07

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

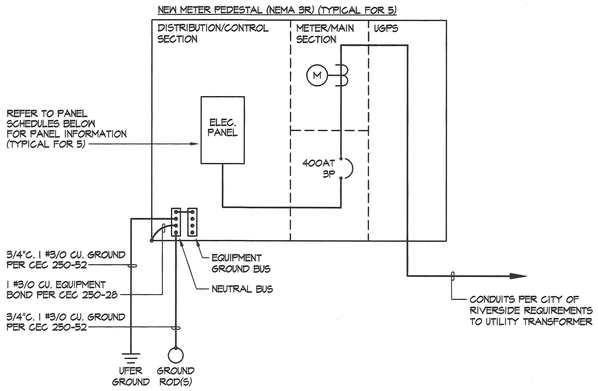
APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

8-23-2007
12-5-07 Δ
ELECTRICAL PLAN
E0.1
SHEET 72 OF 100 Δ

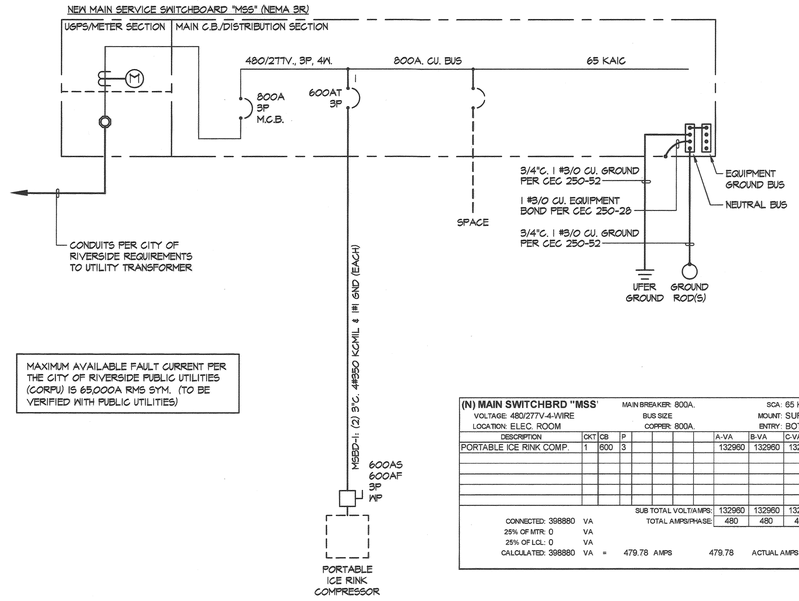
M-457



MAXIMUM AVAILABLE FAULT CURRENT PER THE CITY OF RIVERSIDE PUBLIC UTILITIES (CORPU) IS 65,000A RMS SYM. (TO BE VERIFIED WITH PUBLIC UTILITIES)

NEW METER PEDESTAL (TYPICAL OF 5) "MPA" THRU "MPE"

SCALE: NONE | 1



MAXIMUM AVAILABLE FAULT CURRENT PER THE CITY OF RIVERSIDE PUBLIC UTILITIES (CORPU) IS 65,000A RMS SYM. (TO BE VERIFIED WITH PUBLIC UTILITIES)

(N) MAIN SWITCHBRD "MSS" — MAIN BREAKER: 800A. — SCA: 65 KAIC
VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE
LOCATION: ELEC. ROOM — COPPER: 800A. — ENTRY: BOTTOM

DESCRIPTION	CKT	CB	P	A-VA	B-VA	C-VA	AMPS
PORTABLE ICE RINK COMP.	1	600	3	132960	132960	132960	
SUB TOTAL VOLT/AMPS:				132960	132960	132960	
TOTAL AMPS/PHASE:				480	480	480	

CONNECTED: 398880 VA
25% OF MTR: 0 VA
25% OF LCL: 0 VA
CALCULATED: 398880 VA = 479.78 AMPS — 479.78 ACTUAL AMPS

PANEL SCHEDULE NOTES:

1. THE CONTRACTOR SHALL PROVIDE A COPY OF EACH TYPED WRITTEN PANEL DIRECTORY FOR EVERY PANEL TO THE CITY ALONG WITH THE AS-BUILT DRAWINGS.

NEW "MSS" SINGLE LINE DIAGRAM

SCALE: NONE | 2

(N) PANEL "MPA" — MAIN BREAKER: 400A. — SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — MOUNT: PEDESTAL
LOCATION: ELEC. ROOM — COPPER: 400A. — ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
PATHWAY LIGHTS (10TH-9TH)	1	20	2	7				854			
W/CKT. 1	3	---	---						854		
AREA POLE LTS (10TH-9TH)	5	20	2	7						854	
W/CKT. 5	7	---	---					854			
ACC./BOLLARDS (10TH-9TH)	9	20	1	31					1053		
ACC./BOLLARDS (10TH-9TH)	11	20	1	17						1275	
KIOSK (10TH STREET)	13	20	1			1		1200			
PLANTER REC'S (10TH-9TH)	15	20	1		4				720		
PLANTER REC'S (10TH-9TH)	17	20	1		4					720	
PLANTER REC'S (10TH-9TH)	19	20	1		4			720			
PLANTER REC'S (10TH-9TH)	21	20	1		4				720		
PUBLIC COURT POWER	23	20	1		4					720	
LIGHTING CONTROL CIRCUIT	25	20	1			5		600			
SPARE	27	20	1								
SPARE	29	20	1								
SPARE	31	20	1								
SPARE	33	20	1								
SPARE	35	20	1								
IRRIGATION CONTROLLER	37	20	1			1		600			
SP. EVENT REC'S (10TH-9TH)	39	70	2		1				5200		
W/CKT. 39	41	---	---							5200	
SUB TOTAL VOLT/AMPS:								4828	8547	8769	
(E) CLOCK TOWER	2	20	1					1000			
SP. EVENT REC'S (10TH-9TH)	4	70	2		1				5200		
W/CKT. 6	6	---	---							5200	
SP. EVENT REC'S (10TH-9TH)	8	70	2		1			5200			
W/CKT. 8	10	---	---						5200		
SP. EVENT REC'S (10TH-9TH)	12	70	2		1					5200	
W/CKT. 12	14	---	---					5200			
SP. EVENT REC'S (10TH-9TH)	16	70	2		1				5200		
W/CKT. 16	18	---	---							5200	
SP. EVENT REC'S (10TH-9TH)	20	70	2		1			5200			
W/CKT. 20	22	---	---						5200		
SP. EVENT REC'S (10TH-9TH)	24	70	2		1					5200	
W/CKT. 24	26	---	---					5200			
SP. EVENT REC'S (10TH-9TH)	28	70	2		1				5200		
W/CKT. 28	30	---	---							5200	
SP. EVENT REC'S (10TH-9TH)	32	70	2		1			5200			
W/CKT. 32	34	---	---						5200		
SP. EVENT REC'S (10TH-9TH)	36	70	2		1					5200	
W/CKT. 36	38	---	---					5200			
SP. EVENT REC'S (10TH-9TH)	40	70	2		1				5200		
W/CKT. 40	42	---	---							5200	
SUB TOTAL VOLT/AMPS:								32200	36400	36400	
TOTAL AMPS/PHASE:								37028	44947	45169	

CONNECTED: 127144 VA
25% OF MTR: VA
25% OF LCL: 1736 VA
CALCULATED: 128880 VA = 357.74 AMPS — 352.92 ACTUAL AMPS

(N) PANEL "MPB" — MAIN BREAKER: 400A. — SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — MOUNT: PEDESTAL
LOCATION: ELEC. ROOM — COPPER: 400A. — ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
PATHWAY LIGHTS (9TH-UNIV)	1	20	2	11				1159			
W/CKT. 1	3	---	---						1159		
AREA POLE LTS (9TH-UNIV)	5	20	2	7						854	
W/CKT. 5	7	---	---					854			
ACC./BOLLARDS (9TH-UNIV)	9	20	1	21					1104		
KIOSK (UNIVERSITY)	11	20	1				1			1200	
FOUNTAIN (9TH-UNIV)	13	20	1				1	1500			
PLANTER REC'S (9TH-UNIV)	15	20	1			4			720		
PLANTER REC'S (9TH-UNIV)	17	20	1			5				900	
PLANTER REC'S (9TH-UNIV)	19	20	1			4		720			
PLANTER REC'S (9TH-UNIV)	21	20	1			4			720		
PLANTER REC'S (9TH-UNIV)	23	20	1			5				900	
PLANTER REC'S (9TH-UNIV)	25	20	1			5		900			
BENCH REC'S (9TH-UNIV)	27	20	1			6			1080		
BENCH REC'S (9TH-UNIV)	29	20	1			4				720	
LIGHTING CONTROL CIRCUIT	31	20	1				5	600			
SPARE	33	20	1								
SPARE	35	20	1								
SPARE	37	20	1								
SPARE	39	20	1								
SPARE	41	20	1								
SUB TOTAL VOLT/AMPS:								5733	4783	4574	
SPARE	2	20	1								
SPARE	4	20	1								
SPARE	6	20	1								
SPARE	8	20	1								
SPARE	10	20	1								
SP. EVENT REC'S (9TH-UNIV)	12	70	2		1					5200	
W/CKT. 12	14	---	---					5200			
SP. EVENT REC'S (9TH-UNIV)	16	70	2		1				5200		
W/CKT. 16	18	---	---							5200	
SP. EVENT REC'S (9TH-UNIV)	20	70	2		1			5200			
W/CKT. 20	22	---	---						5200		
SP. EVENT REC'S (9TH-UNIV)	24	70	2		1					5200	
W/CKT. 24	26	---	---					5200			
SP. EVENT REC'S (9TH-UNIV)	28	70	2		1				5200		
W/CKT. 28	30	---	---							5200	
SP. EVENT REC'S (9TH-UNIV)	32	70	2		1			5200			
W/CKT. 32	34	---	---						5200		
SP. EVENT REC'S (9TH-UNIV)	36	70	2		1					5200	
W/CKT. 36	38	---	---					5200			
SP. EVENT REC'S (9TH-UNIV)	40	70	2		1				5200		
W/CKT. 40	42	---	---							5200	
SUB TOTAL VOLT/AMPS:								26000	26000	31200	
TOTAL AMPS/PHASE:								264	257	298	

CONNECTED: 98290 VA
25% OF MTR: VA
25% OF LCL: 1582.5 VA
CALCULATED: 99873 VA = 277.22 AMPS — 272.83 ACTUAL AMPS

(N) PANEL "MPC" — MAIN BREAKER: 400A. — SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — MOUNT: SURFACE
LOCATION: ELEC. ROOM — COPPER: 400A. — ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
PATHWAY LIGHTS (UNIV-MISS)	1	20	2	13				1342			
W/CKT. 1	3	---	---						1342		
AREA POLE LTS (UNIV-MISS)	5	20	2	2						244	
W/CKT. 5	7	---	---					244			
ACC./BOLLARDS (UNIV-MISS)	9	20	1	80					1102		
EXISTING STATUE LIGHTING	11	20	1							1200	
EXISTING STATUE LIGHTING	13	20	1					1200			
PLANTER REC'S (UNIV-MISS)	15	20	1			4			720		
PLANTER REC'S (UNIV-MISS)	17	20	1			3				540	
PLANTER REC'S (UNIV-MISS)	19	20	1			3		540			
PLANTER REC'S (UNIV-MISS)	21	20	1			3			540		
PLANTER REC'S (UNIV-MISS)	23	20	1			4				720	
PLANTER REC'S (UNIV-MISS)	25	20	1			3		540			
BENCH REC'S (UNIV-MISS)	27	20	1			4			720		
LIGHTING CONTROL CIRCUIT	29	20	1				5			600	
SPARE	31	20	1								
SPARE	33	20	1								
SPARE	35	20	1								
SPARE	37	20	1								
SPARE	39	20	1								
SPARE	41	20	1								
SUB TOTAL VOLT/AMPS:								3866	4424	3304	
SPARE	2	20	1								
SP. EVENT REC'S (UNIV-MISS)	4	70	2			1			5200		
W/CKT. 4	6	---	---							5200	
SP. EVENT REC'S (UNIV-MISS)	8	70	2			1		5200			
W/CKT. 8	10	---	---						5200		
SP. EVENT REC'S (UNIV-MISS)	12	70	2			1				5200	
W/CKT. 12	14	---	---					5200			
SP. EVENT REC'S (UNIV-MISS)	16	70	2			1			5200		
W/CKT. 16	18	---	---							5200	
SP. EVENT REC'S (UNIV-MISS)	20	70	2			1		5200			
W/CKT. 20	22	---	---						5200		
SP. EVENT REC'S (UNIV-MISS)	24	70	2			1				5200	
W/CKT. 24	26	---	---					5200			
SP. EVENT REC'S (UNIV-MISS)	28	70	2			1			5200		
W/CKT. 28	30	---	---							5200	
SP. EVENT REC'S (UNIV-MISS)	32	70	2			1		5200			
W/CKT. 32	34	---	---						5200		
SP. EVENT REC'S (UNIV-MISS)	36	70	2			1				5200	
W/CKT. 36	38	---	---					5200			
SP. EVENT REC'S (UNIV-MISS)	40	70	2			1			5200		
W/CKT. 40	42	---	---							5200	
SUB TOTAL VOLT/AMPS:								31200	36400	36400	
TOTAL AMPS/PHASE:								292	340	331	

CONNECTED: 115594 VA
25% OF MTR: VA
25% OF LCL: 1668.5 VA
CALCULATED: 117263 VA = 325.49 AMPS — 320.86 ACTUAL AMPS

(N) PANEL "MPD" — MAIN BREAKER: 400A. — SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — MOUNT: SURFACE
LOCATION: ELEC. ROOM — COPPER: 400A. — ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
PATHWAY LIGHTS (MISS-6TH)	1	20	2	12					1281		
W/CKT. 1	3	---	---							1281	
ACC./BOLLARDS (MISS-6TH)	5	20	1	20						1036	
KIOSK (MISS)	7	20	1			1			1200		
LIGHTING CONTROL CIRCUIT	9	20	1			5			600		
PLANTER REC'S (MISS-6TH)	11	20	1		4					720	
PLANTER REC'S (MISS-6TH)	13	20	1		3				540		
PLANTER REC'S (MISS-6TH)	15	20	1		4				720		
PLANTER REC'S (MISS-6TH)	17	20	1		4					720	
PLANTER REC'S (MISS-6TH)	19	20	1		3				540		
PLANTER REC'S (MISS-6TH)	21	20	1		4				720		
BENCH REC'S (MISS-6TH)	23	20	1		5					900	
SPARE	25	20	1								
SPARE	27	20	1								
SPARE	29	20	1								
SPARE	31	20	1								
SPARE	33	20	1								
SP. EVENT REC'S (MISS-6TH)	35	70	2		1				5200		
W/CKT. 35	37	---	---					5200			
FOUNTAIN (MISS-6TH)	39	40	2			1			2912		
W/CKT. 39	41	---	---							2912	
SUB TOTAL VOLT/AMPS:								8761	6233	11488	
SPARE	2	20	1								
SP. EVENT REC'S (MISS-6TH)	4	70	2		1				5200		
W/CKT. 4	6	---	---							5200	
SP. EVENT REC'S (MISS-6TH)	8	70	2		1			5200			
W/CKT. 8	10	---	---						5200		
SP. EVENT REC'S (MISS-6TH)	12	70	2		1					5200	
W/CKT. 12	14	---	---					5200			
SP. EVENT REC'S (MISS-6TH)	16	70	2		1				5200		
W/CKT. 16	18	---	---							5200	
SP. EVENT REC'S (MISS-6TH)	20	70	2		1			5200			
W/CKT. 20	22	---	---						5200		
SP. EVENT REC'S (MISS-6TH)	24	70	2		1					5200	
W/CKT. 24	26	---	---					5200			
SP. EVENT REC'S (MISS-6TH)	28	70	2		1				5200		
W/CKT. 28	30	---	---							5200	
SP. EVENT REC'S (MISS-6TH)	32	70	2		1			5200			
W/CKT. 32	34	---	---						5200		
SP. EVENT REC'S (MISS-6TH)	36	70	2		1					5200	
W/CKT. 36	38	---	---					5200			
SP. EVENT REC'S (MISS-6TH)	40	70	2		1				5200		
W/CKT. 40	42	---	---							5200	
SUB TOTAL VOLT/AMPS:								31200	36400	36400	
TOTAL AMPS/PHASE:								33961	42633	47888	

CONNECTED: 130482 VA
25% OF MTR: VA
25% OF LCL: 1199.5 VA
CALCULATED: 131682 VA = 365.51 AMPS — 362.18 ACTUAL AMPS

(N) PANEL "MPE" — MAIN BREAKER: 400A. — SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — MOUNT: SURFACE
LOCATION: ELEC. ROOM — COPPER: 400A. — ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
ACC./BOLLARDS (6TH-5TH)	1	20	1	14					1244		
ACC./BOLLARDS (6TH-5TH)	3	20	1	14						1244	
PLANTER REC'S (6TH-5TH)	5	20	1		5					900	
PLANTER REC'S (6TH-5TH)	7	20	1		5				900		
PLANTER REC'S (6TH-5TH)	9	20	1		5					900	
PLANTER REC'S (6TH-5TH)	11	20	1		5					900	
PLANTER REC'S (6TH-5TH)	13	20	1		5				900		
PLANTER REC'S (6TH-5TH)	15	20	1		5					900	
PLANTER REC'S (6TH-5TH)	17	20	1		5					900	
PLANTER REC'S (6TH-5TH)	19	20	1		5				900		
LIGHTING CONTROL CIRCUIT	21	20	1			5				600	
SPARE	23	20	1								
SPARE	25	20	1								
SPARE	27	20	1								
SPARE	29	20	1								
SPARE	31	20	1								
SPARE	33	20	1								
SPARE	35	20	1								
SPARE	37	20	1								
SP. EVENT REC'S (MISS-6TH)	39	70	2		1				5200		
W/CKT. 39	41	---	---							5200	
SUB TOTAL VOLT/AMPS:								3944	8844	7900	
SPARE	2	20	1								
SP. EVENT REC'S (MISS-6TH)	4	70	2		1				5200		
W/CKT. 4	6	---	---							5200	
SP. EVENT REC'S (MISS-6TH)	8	70	2		1			5200			
W/CKT. 8	10	---	---						5200		
SP. EVENT REC'S (6TH-5TH)	12	70	2		1					5200	
W/CKT. 12	14	---	---					5200			
SP. EVENT REC'S (6TH-5TH)	16	70	2		1				5200		
W/CKT. 16	18	---	---							5200	
SP. EVENT REC'S (6TH-5TH)	20	70	2		1			5200			
W/CKT. 20	22	---	---						5200		
SP. EVENT REC'S (6TH-5TH)	24	70	2		1					5200	
W/CKT. 24	26	---	---					5200			
SP. EVENT REC'S (6TH-5TH)	28	70	2		1				5200		
W/CKT. 28	30	---	---							5200	
SP. EVENT REC'S (6TH-5TH)	32	70	2		1			5200			
W/CKT. 32	34	---	---						5200		
SP. EVENT REC'S (6TH-5TH)	36	70	2		1					5200	
W/CKT. 36	38	---	---					5200			
SP. EVENT REC'S (6TH-5TH)	40	70	2		1				5200		
W/CKT. 40	42	---	---							5200	
SUB TOTAL VOLT/AMPS:								31200	36400	36400	
TOTAL AMPS/PHASE:								293	377	369	

CONNECTED: 124688 VA
25% OF MTR: VA
25% OF LCL: 622 VA
CALCULATED: 125310 VA = 347.83 AMPS — 346.10 ACTUAL AMPS

"MPA" THRU "MPE" PANEL SCHEDULES

SCALE: NONE | 3

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REGISTERED PROFESSIONAL ENGINEER — ORLANDO E. SOTELO — No. E17228 — 6-30-08 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD. SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951. 683 1283 . FAX 951 683 4352
E-MAIL: IDAVIDSON@MSN.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 3581 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
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CITY ENGINEER
DATE 12/13/07

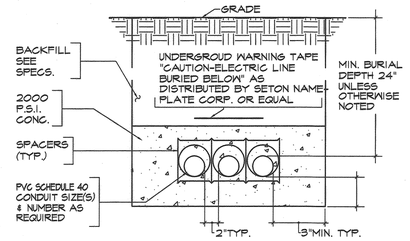
DOWNTOWN MAIN
LANDSCAPE PLANS

8-23-2007 12-13-07 4

ELECTRICAL PLAN
E0.2

SHEET 73 OF 100 4

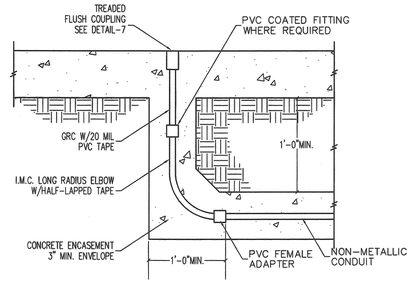
M-457



NOTES: 1. SLOPE RUNS A MIN. OF 4" IN 100 FT. BETWEEN MANHOLES OR MANHOLE AND VAULT OR CABLE RISERS.
2. RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS, THE HIGHER END SHALL BE AT A VENTILATED MANHOLE,VAULT, OR CABLE RISER.

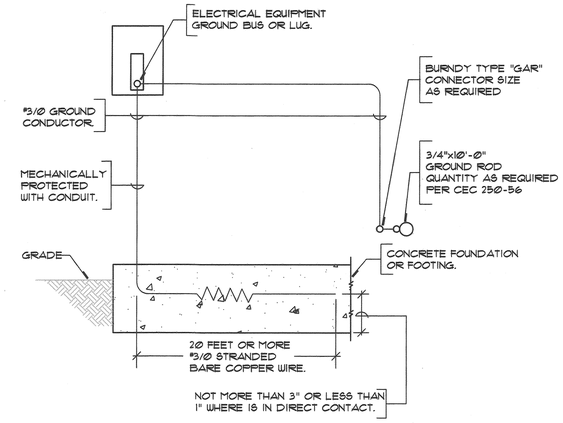
UNDERGROUND CONDUITS

SCALE: NONE | 1



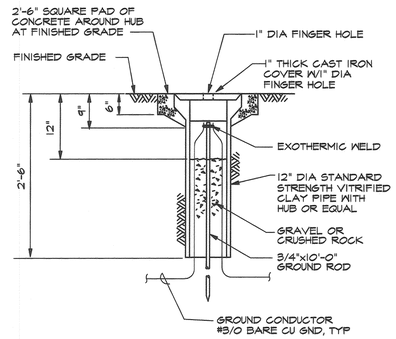
CONDUIT STUB-UP

SCALE: NONE | 2



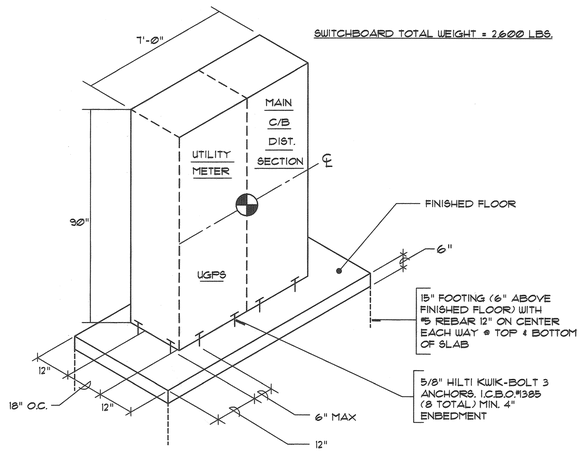
SYSTEM GROUNDING

SCALE: NONE | 3



GROUND ROD DETAIL

SCALE: NONE | 4

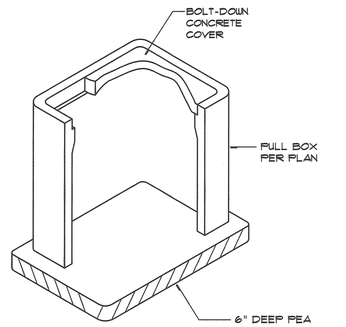


SERVICE SWITCHBOARD

SCALE: NONE | 5

NOT USED

SCALE: NONE | 6



PULL BOX NOTES

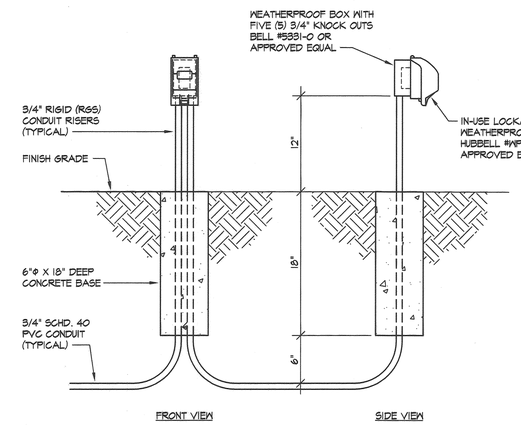
1. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
2. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES, OZ/GEDNEY, OR 3M,INC.
3. PROVIDE INDENTIFYING TAGS ON ALL CONDUCTORS IN PULLBOXES.
4. SPLICES OF LOW VOLTAGE CABLING IN UNDERGROUND PULLBOXES ARE NOT ACCEPTABLE.

UNDERGROUND PULL BOX

SCALE: NONE | 7

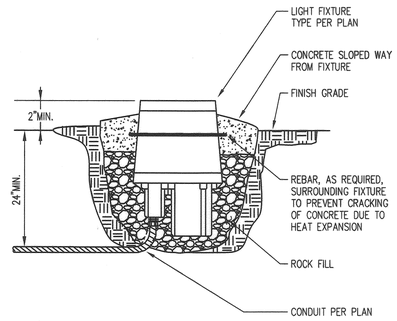
NOT USED

SCALE: NONE | 8



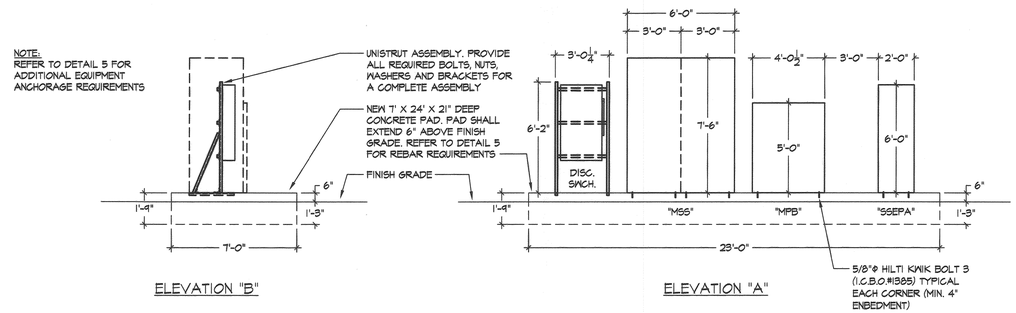
PLANTER RECEPTACLE MTG

SCALE: NONE | 9



IN-GRADE LIGHT FIXTURE DETAIL

SCALE: NONE | 10



EQUIPMENT ELEVATIONS

SCALE: 1/4" = 1'-0" | 11

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A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4352
E-MAIL: IDAVIDSON@OLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J DAVIDSON #5080 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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PUBLIC WORKS DEPARTMENT

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SURVEYOR		
TRAFFIC DIVISION		
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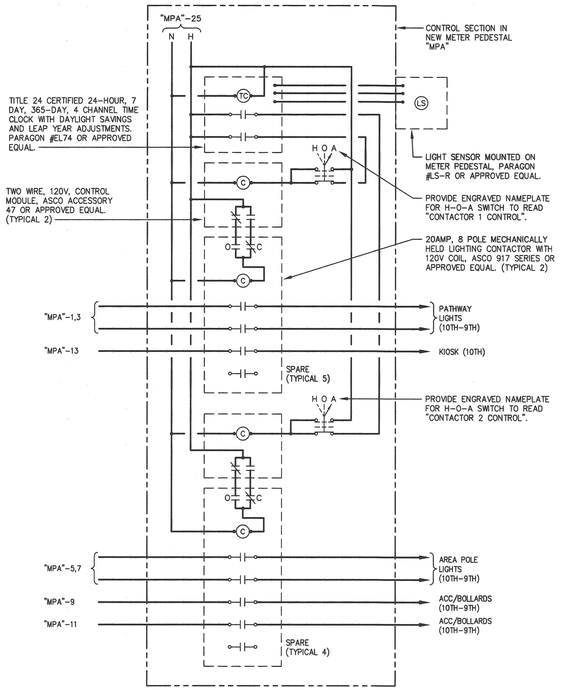
DATE 12/5/07

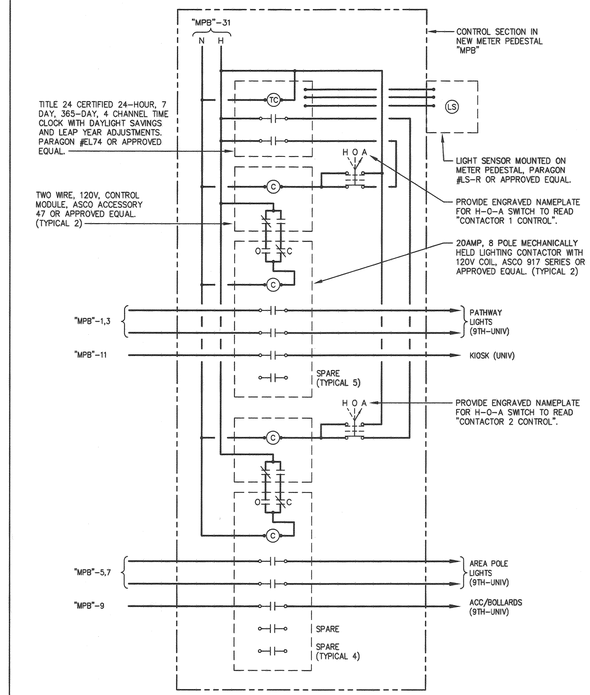
DOWNTOWN MALL
LANDSCAPE PLANS

DATE ~~11-23-2007~~ 12-3-2007 4
ELECTRICAL PLAN
E0.3
SHEET 74 OF 100

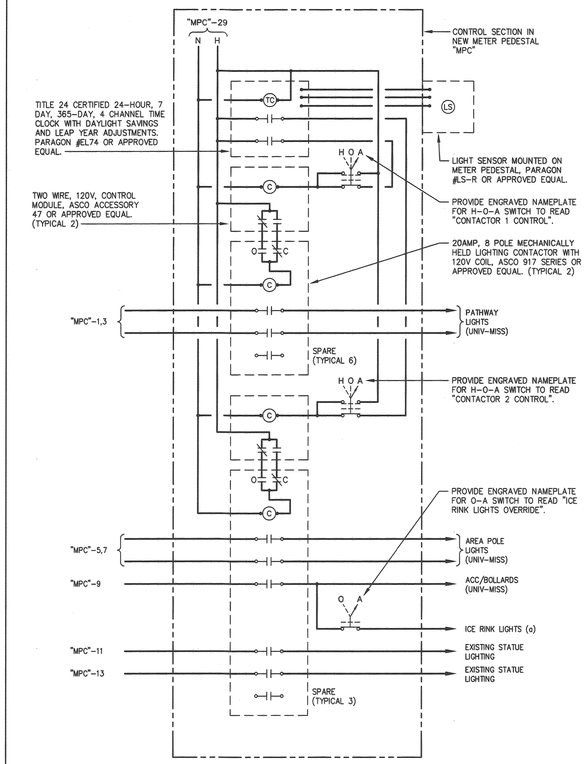
M.457



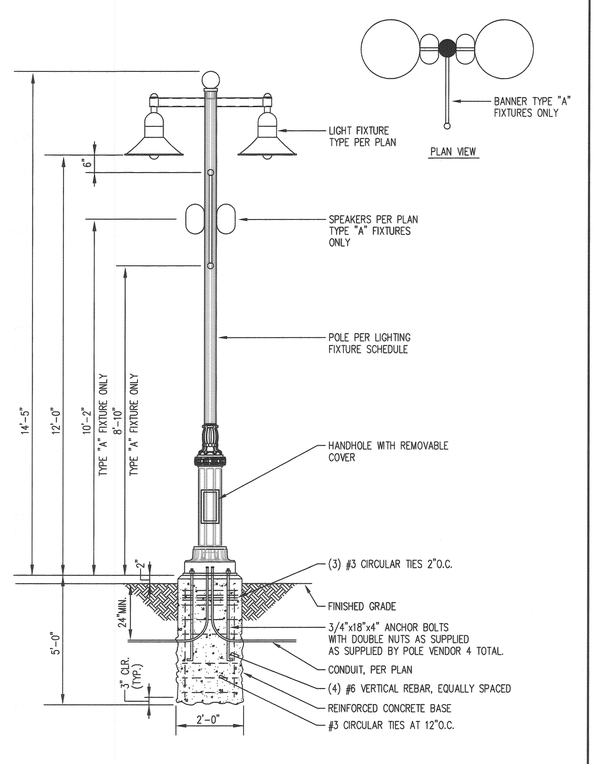
"MPA" LIGHTING CONTROL DIAGRAM | SCALE: NONE | 1



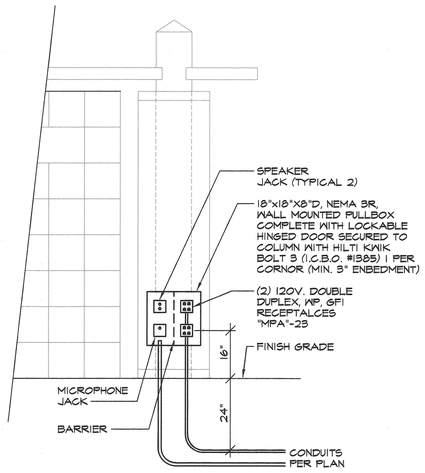
"MPB" LIGHTING CONTROL DIAGRAM | SCALE: NONE | 2



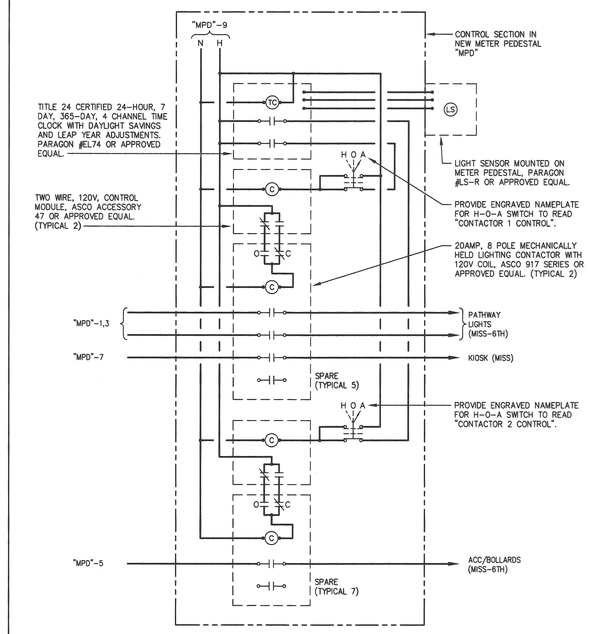
"MPC" LIGHTING CONTROL DIAGRAM | SCALE: NONE | 3



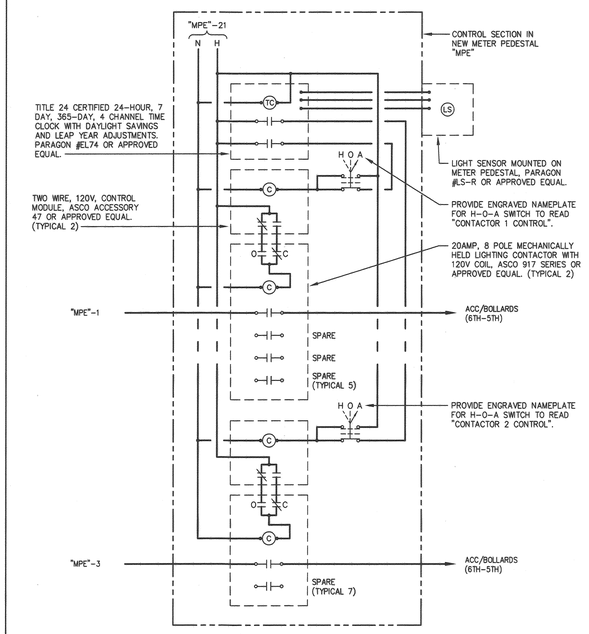
AREA POLE MTD LIGHT FIXTURE | SCALE: NONE | 4



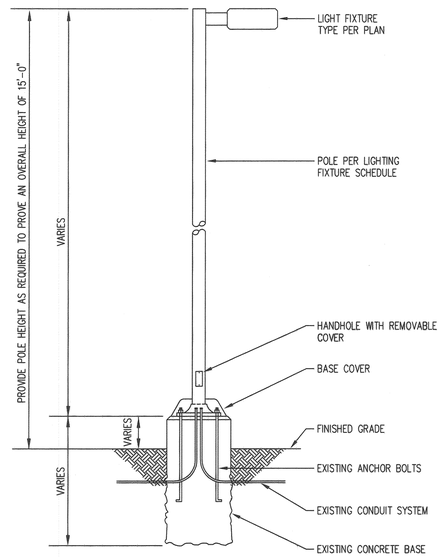
POWER/SOUND PULLBOX | SCALE: NONE | 5



"MPD" LIGHTING CONTROL DIAGRAM | SCALE: NONE | 6



"MPE" LIGHTING CONTROL DIAGRAM | SCALE: NONE | 7



PARKING LOT MTD LT FIXTURE | SCALE: NONE | 8

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9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@DELARC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 — Exp. 10/09 — STATE OF CALIFORNIA

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DOWNTOWN MALL
LANDSCAPE PLANS

~~8-23-2007~~ 12-3-07
ELECTRICAL PLAN
E0.4
SHEET 75 OF 100

M-457

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME: Downtown Mall	DATE: 7/6/2007
PROJECT ADDRESS: Riverside	Building Permit #
PRINCIPAL DESIGNER - LIGHTING: Rolando E. Sotelo	TELEPHONE: 909-941-3008
DOCUMENTATION AUTHOR: A&F Engineering Group, Inc.	TELEPHONE: (909) 941-3008

GENERAL INFORMATION

DATE OF PLANS | OUTDOOR LIGHTING ZONE: [ ] LZ1 [ ] LZ2 [X] LZ3 [ ] LZ4

FUNCTION TYPE: [X] OUTDOOR LIGHTING [ ] OUTDOOR SIGNS [ ] INDOOR SIGNS

PHASE OF CONSTRUCTION: [ ] NEW CONSTRUCTION [ ] ADDITION [X] ALTERATION

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the outdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations.
This certificate applies only to building lighting requirements.
The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
Luis Flores		7/6/07

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in Sections 110, 119, 130 through 132, and 146,and 149 of Title 24, Part 6.

Please Check One: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

[ ] I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

[ ] I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

[ ] I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER - NAME	SIGNATURE	DATE	LIC. #
Rolando E. Sotelo		12/6/07	611229

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

[X] OLTG-1-C: Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
Either LTG-1-C or OLTG-1-C may be used for signs as follows:
1. Use LTG-1-C if the project consists solely of indoor signs.
2. Use LTG-1-C if the project consists of indoor lighting, outdoor or indoor signs, but no other outdoor lighting.
3. Use OLTG-1-C if the project consists solely of outdoor signs.
4. Use OLTG-1-C if the project consists of outdoor lighting, outdoor or indoor signs, but no other indoor lighting.

[X] OLTG-2-C: LIGHTING COMPLIANCE SUMMARY. Applicable parts required for ALL outdoor lighting allowances (Except Signs).

[X] OLTG-3-C: AREA CALCULATIONS WORKSHEET. Applicable parts required for all outdoor area calculations.

[X] OLTG-4-C: SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME: Downtown Mall	DATE: 7/6/2007

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

[X] Lighting power allowance for general site illumination on OLTG-2-C Part 1 of 4
[ ] Not Applicable

[ ] Lighting power allowance for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
[X] Not Applicable

[X] Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
[ ] Not Applicable

[ ] Lighting power allowances for vehicle service station canopies on OLTG-2-C part 4 of 4
[X] Not Applicable

[X] Sign lighting compliance on OLTG-4-C
[ ] Not Applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls And Equipment

[X] Installed lighting power has been determined in accordance with Section 130(c)1
[ ] Not Applicable

[X] All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumins per Watt or are controlled by a motion sensor per Section 132(a)
[ ] Not Applicable

[X] All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of Section 132(b)
[ ] Not Applicable

[X] All permanently installed outdoor lighting meets the control requirements of Section 132(c)1
[ ] Not Applicable

[ ] Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of Section 132(c)
[X] Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION (Room #)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, etc.)	AREA CONTROLLED	NOTE TO FIELD

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

Project Name	Date
Downtown Mall	7/6/2007

LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)

A	Allotted Watts B	C	D	Luminaire E	F	Lamps/Ballasts G	H	I	J	K	Installed Watts L	M	N	O
Lighting Application Category (Table 147-A)	Allowed Watts per Unit Area (LPU)	Area Subject to LPU (SF)	Allowed Watts (B x C)	Quantity	Code Description	Current Designation	Lamp Type	Lamps per Luminaire	Watts per Lamp	Ballast Multiplier	Watts per Luminaire (K x L)	# of Luminaires	Area Multiplier	Installed Watts (M x N x O)
Pedestrian Hardscape	116,775	0.17	19,852	A	Twin 100w Metal Halide Mag	M100	2	100	1.0	244.0	X	32	7,808	
				B	Twin 100w Metal Halide Mag	M100	2	100	1.0	244.0	X	17	4,148	
				C	100w Metal Halide	M100	1	100	1.0	110.0	X	10	1,100	
				D	100w Metal Halide Mag	M100	1	100	1.0	122.0	X	54	6,588	
				E	(1) 5w LED	LED	3	1	1.0	5.0	X	39	195	
				H	(1) 3w LED	LED	3	1	1.0	3.6	X	27	97	
				I	(1) 15w LED	LED	9	1	1.0	15.0	X	50	750	
Automotive Hardscape	24,395	0.15	3,659	F	175w Metal Halide Mag	M175	1	175	1.0	205.0	X	3	615	
				G	175w Metal Halide Mag	M175	1	175	1.0	205.0	X	8	1,640	
				L	Twin 175w Metal Halide Mag	M175	2	175	1.0	410.0	X	1	410	

Total Allotted Watts: 23,515 | Total Installed Watts: 23,351

LIGHTING COMPLIANCE SUMMARY (Part 3 of 4) OLTG-2-C

Project Name	Date
Downtown Mall	7/6/2007

LIGHTING POWER ALLOWANCE FOR SPECIFIC APPLICATIONS (Table 147-B) - Other than Vehicle Station without Canopies

A	Allotted Watts B	C	D	Luminaire E	F	Lamps/Ballasts G	H	I	J	K	Design Watts L	M	N	O	P
Lighting Application Category (Table 147-B)	Allowed Watts per Unit Area (LPU)	Area Subject to LPU (SF)	Allowed Watts (B x C)	Quantity	Code Description	Current Designation	Lamp Type	Lamps per Luminaire	Watts per Lamp	Ballast Multiplier	Watts per Luminaire (K x L)	# of Luminaires	Area Multiplier	Installed Watts (M x N x O)	Proposed Watts (Max of B or O)
Building Facade	320	0.35	112	I	(1) 15w LED		LED	9	1	1.0	15.0	X	5	75	75

ILLUMINATED AREA CALCULATION WORKSHEET (Part 1 of 5) OLTG-3-C

PROJECT NAME	DATE
Downtown Mall	7/6/2007

Hardscape - Method (i)

A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads.

A	B	C	D	E	F	G	H
		Areas (SF) to Subtract from within the Illuminated Area					
Lighting Application (Table 147-B)	Actual Paved Area + 5' perimeter of adjacent unpaved land. Includes planters and/or landscaped areas and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides.	Area between poles or luminaires that are > 6 times the mounting height (If Applicable)	Overlapping areas of another application or luminaire	Building Areas	Areas obstructed by signs or other structures	Sub total of areas to subtract (C + D + E + F)	Illuminated Area (B - G)
Automotive Hardscape	24,395	0	0	0	0	0	24,395

B. Hardscape for pedestian use, including plazas, sidewalks, walkways and bikeways

A	B	C	D	E	F	G	H
		Areas (SF) to Subtract from within the Illuminated Area					
Lighting Application (Table 147-B)	Actual Paved Area + 5' of unpaved land on either side of path of travel. Shall include at contiguous paved area below, adjacent to, and above grade.	Area between poles or luminaires that are > 6 times the mounting height (If Applicable)	Overlapping areas of another application or luminaire	Building Areas	Areas obstructed by signs or other structures	Sub total of areas to subtract (C + D + E + F)	Illuminated Area (B - G)
Pedestrian Hardscape	127,510	0	0	0	10,735	10,735	116,775

Checklist

[ ] Section 147 (c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with actual use of the areas.

[ ] Section 147 (c)1 A - General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by signs or other structures.

ILLUMINATED AREA CALCULATION WORKSHEET (Part 3 of 5) OLTG-3-C

PROJECT NAME	DATE
Downtown Mall	7/6/2007

A. Outdoor Sales Lot Frontage and Sales Lot Area

A	B	C	D	E	F	G	H
	If an Outdoor Sales Frontage Allotment was used, subtract that area from the Gross Illuminated Area.						
Gross Illuminated Area (sq. ft.)	Mounting height of Sales Frontage Luminaires (feet)	3 x B	Distance (in plan view) from the frontage luminaire To the edge of Sales Lot	Sales Lot Frontage Length (feet)	Sales Frontage Area (C - D) x E (sq. ft.)	Overlapping Areas of Another Application	Sales Lot Area (A - F - G)

☐ Section 147 (c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with actual use of the areas.

☐ Section 147 (c)2 B - Measured in plan view, only illuminated sections of outdoor sales frontage areas that are immediately adjacent to the principle viewing location and within said viewing length, and set within 3 mounting heights of the frontage have been used. Luminaires qualifying for this allowance are located in plan view between the principle viewing location and the frontage sales.

B. Building Facade Area

A	B	C	D	E	F	G	H
				Areas (SF) to Subtract from within the Illuminated Area			
Designated Name and Orientation	Length	Height	Gross Area (B x C)	Areas covered by signs	Area for which Illumination is Prohibited by Other Objects and Area Not Illuminated	Sub total (E + F)	Net Area Available for Allowable Lighting (D - G)
Building Facade	40	8	320		0	0	320

Checklist

[ ] Section 147 (c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with actual use of the areas.

[ ] Section 147 (c)2 A - Only facades areas that are illuminated without obstruction or interference, by one or more luminaires. have been used.

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A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@DLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN T. DAVIDSON — 4423 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

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PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

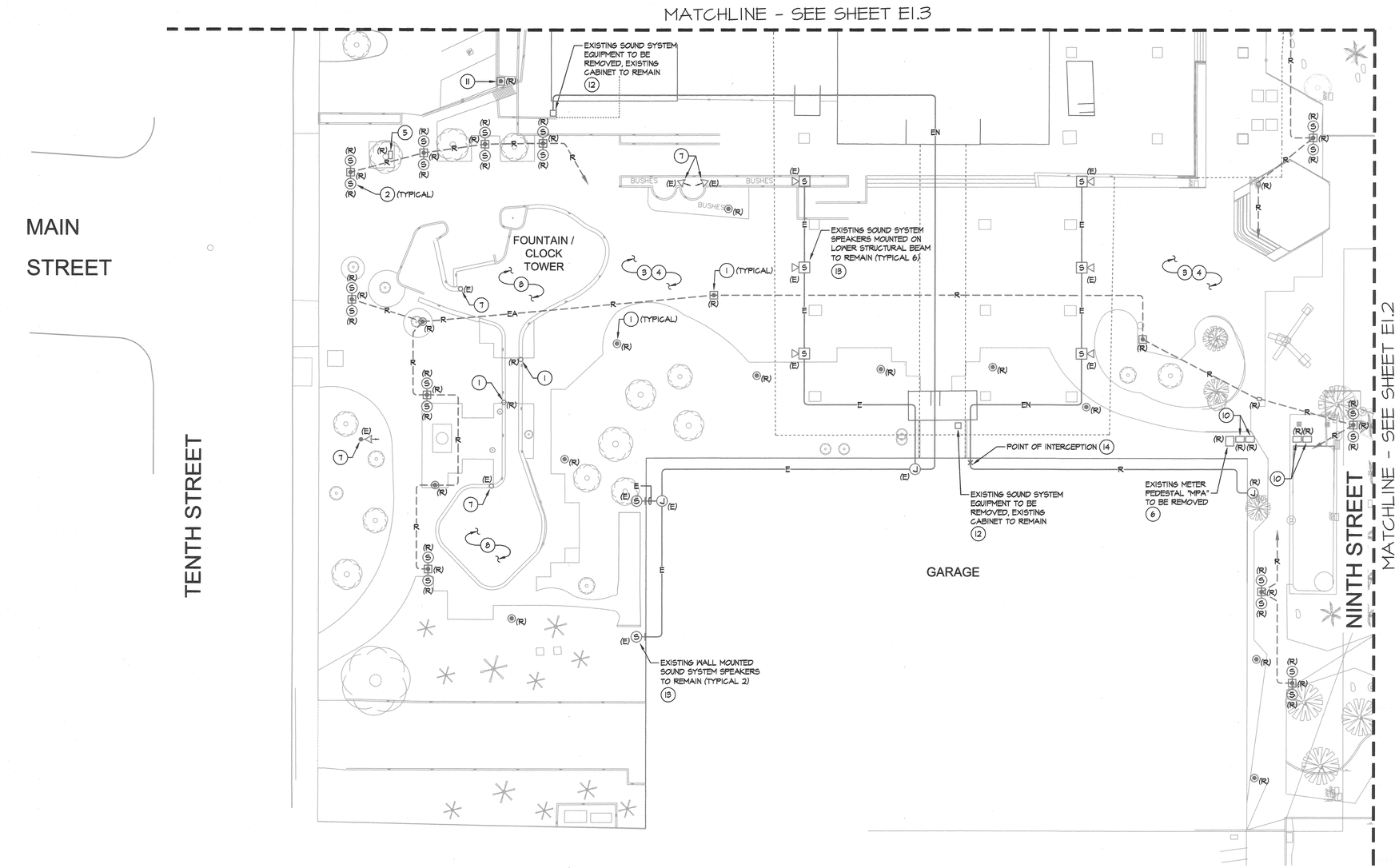
APPROVED BY: CITY ENGINEER
DATE 12/10/09

DOWNTOWN MALL
LANDSCAPE PLANS

12-03-2007

ELECTRICAL PLAN
E0.5
SHEET 76 OF 99

M-457



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLAN NOTES

1. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED LIGHT FIXTURE IS FEEDING AN EXISTING LIGHT FIXTURE THAT IS TO REMAIN, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING LIGHT FIXTURE IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
2. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING SOUND SYSTEM SPEAKERS, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
3. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE ALL EXISTING WEATHERPROOF RECEPTACLES, TIME CLOCKS AND LIGHT FIXTURES MOUNTED IN THE PLANTER AREAS/TREES, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED EQUIPMENT/DEVICES ARE FEEDING ANY EXISTING EQUIPMENT/DEVICES THAT ARE TO REMAIN, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING EQUIPMENT/DEVICES IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
4. THE CONTRACTOR SHALL NOTE THAT THE EXISTING CONDUIT ROUTINGS AND PULL BOX LOCATIONS INDICATED ON THIS PLAN WERE TAKEN FROM THE EXISTING AS-BUILT DRAWINGS AND THAT NOT ALL OF THE EXISTING CONDUITS AND PULL BOXES ARE SHOWN ON THIS PLAN. HE SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT ROUTING AND QUANTITIES OF ALL CONDUIT SYSTEMS AND PULL BOXES ASSOCIATED WITH ALL OF THE EQUIPMENT/DEVICES BEING REMOVED AND REMOVE ALL CONDUITS AND PULL BOXES. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
5. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING BREAKER/RECEPTACLE BOX, INCLUDING ALL PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED BREAKER/RECEPTACLE BOX IS FEEDING ANY EXISTING EQUIPMENT/DEVICES THAT ARE TO REMAIN THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING EQUIPMENT/DEVICES IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
6. THE CONTRACTOR SHALL BE COMPLETELY DISCONNECT AND REMOVE THE EXISTING METER PEDESTAL "MPA", INCLUDING ALL SERVICE FEEDERS AND BRANCH CIRCUIT CONDUITS AND CONDUCTORS. PRIOR TO REMOVAL OF EQUIPMENT, THE CONTRACTOR SHALL TRACE OUT ALL EXISTING CIRCUITS BEING FED FROM THE EXISTING METER PEDESTAL "MPA" AND INDICATE WHAT EQUIPMENT/DEVICES THE EXISTING CIRCUITS ARE CURRENTLY FEEDING. ALL EXISTING CIRCUITS THAT ARE NOT FEEDING EXISTING EQUIPMENT THAT IS BEING REMOVED AND ARE TO REMAIN IN OPERATION SHALL BE INTERCEPTED AND EXTENDED TO THE NEW METER PEDESTAL "MPA". ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING LIGHT FIXTURE IN PLACE, INCLUDING THE EXISTING CONDUIT AND CONDUCTORS CURRENTLY FEEDING THE LIGHT FIXTURE. THE CONTRACTOR SHALL TRACE OUT THE EXISTING CIRCUIT FEEDING THE LIGHT FIXTURE AND INDICATE IT ON THE AS-BUILT DRAWING. WHERE THE EXISTING LIGHT FIXTURE IS BEING FED FROM AN EXISTING LIGHT FIXTURE BEING REMOVED, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE REQUIRED POWER NECESSARY TO THE EXISTING LIGHT FIXTURE. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING POWER TO THE EXISTING FOUNTAIN/CLOCK TOWER REMAINING IN PLACE. THE CONTRACTOR SHALL TRACE OUT THE EXISTING CONDUIT/CIRCUIT ROUTING CURRENTLY FEEDING THE EXISTING FOUNTAIN/CLOCK TOWER AND INDICATE IT ON THE AS-BUILT DRAWING. WHERE THE EXISTING FOUNTAIN/CLOCK TOWER CIRCUIT IS BEING FED TROUGH THE EXISTING CONDUIT SYSTEM THAT IS BEING REMOVED, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE REQUIRED POWER NECESSARY TO THE EXISTING FOUNTAIN/CLOCK TOWER. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
9. NOT USED.
10. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING UNDERGROUND PULL BOXES. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO THE EXISTING CONDUITS AND CONDUCTORS THAT TERMINATE INTO THE EXISTING PULL BOXES IN ORDER TO EXTEND ALL OF THE EXISTING CIRCUITS THAT ARE TO REMAIN IN OPERATION TO THE NEW METER PEDESTAL "MPA" AND/OR NEW METER PEDESTAL "MPB". IF REQUIRED THE CONTRACTOR SHALL RELOCATE THE EXISTING PULL BOXES AND RE-USE THEM AS NECESSARY TO INTERCEPT ALL OF THE EXISTING CONDUITS. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
11. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE ONLY. HE SHALL RE-USE THE EXISTING LIGHT FIXTURE BASE, CONDUIT AND CONDUCTORS AS INDICATED ON THE RENOVATION SITE PLAN.
12. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVED THE EXISTING SOUND SYSTEM EQUIPMENT ONLY. HE SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING CABINET IN PLACE, INCLUDING THE EXISTING POWER CURRENTLY FEEDING THE EQUIPMENT. THE CONTRACTOR SHALL TRACE OUT THE EXISTING CIRCUIT FEEDING THE SOUND SYSTEM EQUIPMENT AND INDICATE IT ON THE AS-BUILT DRAWING. WHERE THE EXISTING SOUND SYSTEM EQUIPMENT CIRCUIT IS BEING FED TROUGH THE EXISTING CONDUIT SYSTEM THAT IS BEING REMOVED, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE REQUIRED POWER NECESSARY TO THE EXISTING SOUND SYSTEM EQUIPMENT. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING SOUND SYSTEM SPEAKERS IN PLACE, INCLUDING INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. EXACT ROUTING OF CONDUIT AND CABLING SHALL BE FIELD VERIFIED AND INDICATED ON THE AS-BUILT DRAWINGS.
14. THE CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF INTERCEPTION IN THE FIELD AND INDICATE EXACT LOCATION ON THE AS-BUILT DRAWINGS.
15. REFER TO THE RENOVATION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
16. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL ELECTRICAL DEMOLITION SITE PLAN

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A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4352
E-MAIL: IDAVIDSON@DLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON No.3091 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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4	RE-NUMBERED SHEET	MWK	12-4-07

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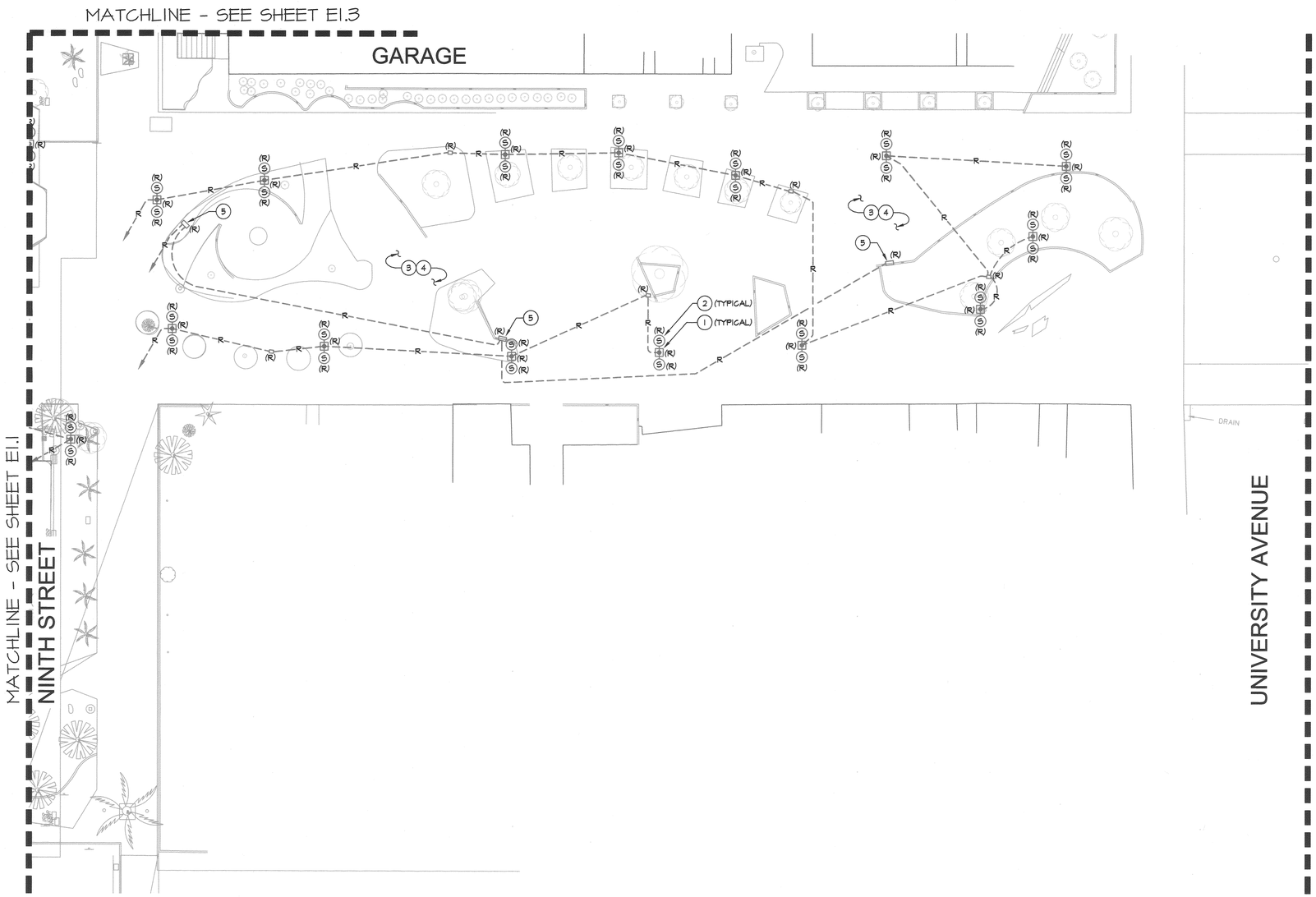
DATE 12/4/07

DOWNTOWN MALL
LANDSCAPE PLANS

12-3-07 4
~~8-23-2007~~

ELECTRICAL PLAN
E1.1
SHEET 77 OF 100

M-457



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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6. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE ONLY. HE SHALL RE-USE THE EXISTING LIGHT FIXTURE BASE, CONDUIT AND CONDUCTORS AS INDICATED ON THE RENOVATION SITE PLAN.
7. REFER TO THE RENOVATION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

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ID LA LANDSCAPE ARCHITECTURE
Ian Davidson, Landscape Architecture
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RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@IDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON No.4381 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
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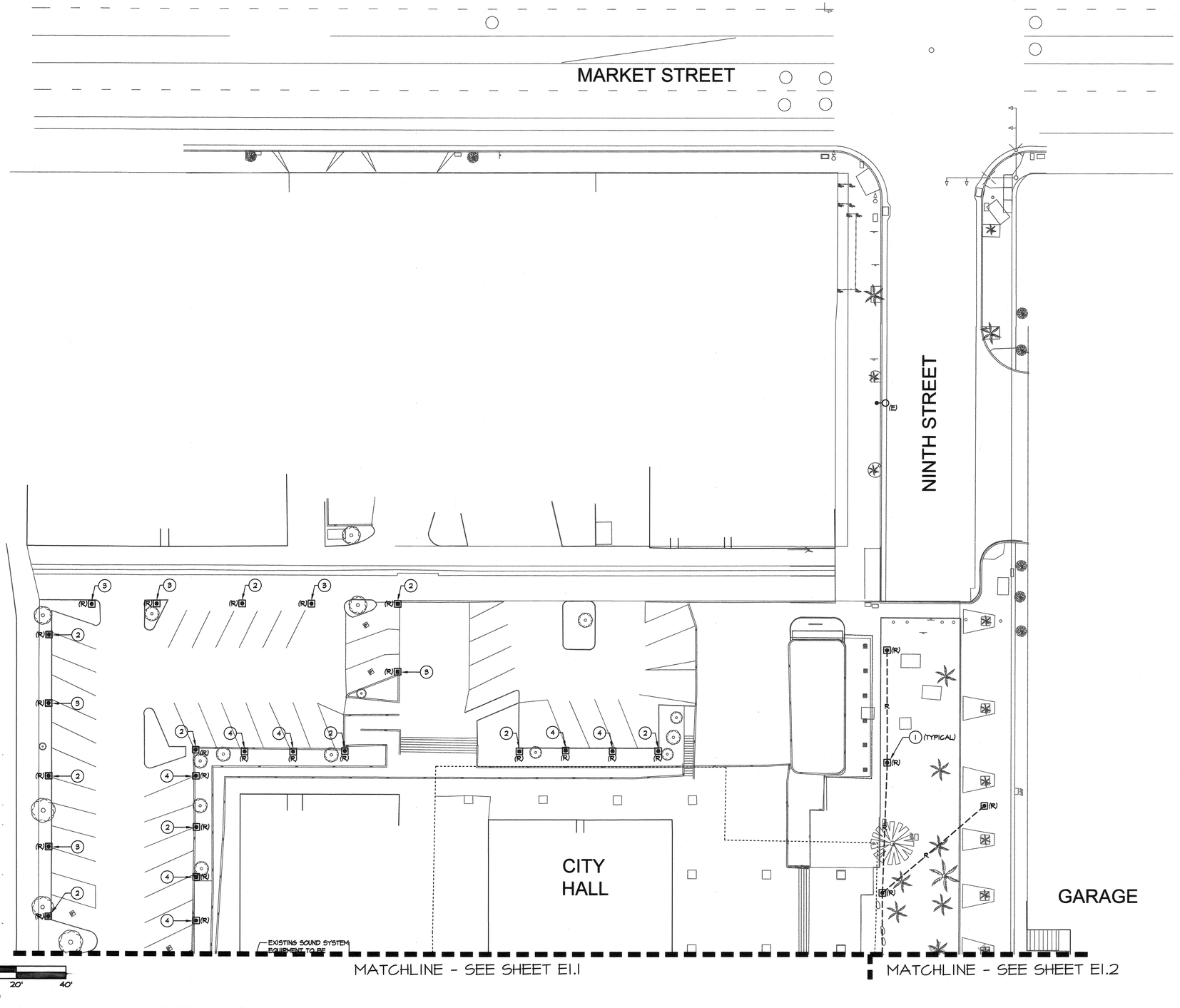
DOWNTOWN MALL
LANDSCAPE PLANS

12-13-2007
ELECTRICAL PLAN
E1.2
SHEET 77A 76 OF 100 99
M-457



PLAN NOTES

1. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED LIGHT FIXTURE IS FEEDING AN EXISTING LIGHT FIXTURE THAT IS TO REMAIN, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING LIGHT FIXTURE IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
2. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE ONLY. HE SHALL RE-USE THE EXISTING LIGHT FIXTURE BASE, CONDUIT AND CONDUCTORS AS INDICATED ON THE RENOVATION SITE PLAN.
3. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE AND FIXTURE BASE. HE SHALL INTERCEPT THE EXISTING CONDUIT AND CONDUCTORS AS INDICATED ON THE RENOVATION SITE PLAN.
4. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE AND FIXTURE BASE. IF REMOVAL OF THE EXISTING BASE CREATES AN AFFECT ON THE STRUCTURAL INTEGRITY OF THE PARKING LOT OR THE AREA SURROUNDING THE BASE, THE EXISTING BASE SHALL REMAIN AND HE SHALL INTERCEPT THE EXISTING CONDUIT AND CONDUCTORS AS INDICATED ON THE RENOVATION SITE PLAN.
5. REFER TO THE RENOVATION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL ELECTRICAL DEMOLITION SITE PLAN

1"=20'-0" | 01

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REGISTERED PROFESSIONAL ENGINEER — RICHARD E. STEELE — No. E17229 — 6/30/08 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1383 - FAX 951 683 4352
E-MAIL: IDAVIDSON@SBCGLOBAL.NET

REGISTERED LANDSCAPE ARCHITECT — IAN T. DAVIDSON — Signature — 5/20/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	RE-NUMBERED SHEET	MWK	12-4-07

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DATE 9/19/07

DOWNTOWN MALL
LANDSCAPE PLANS

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ELECTRICAL PLAN
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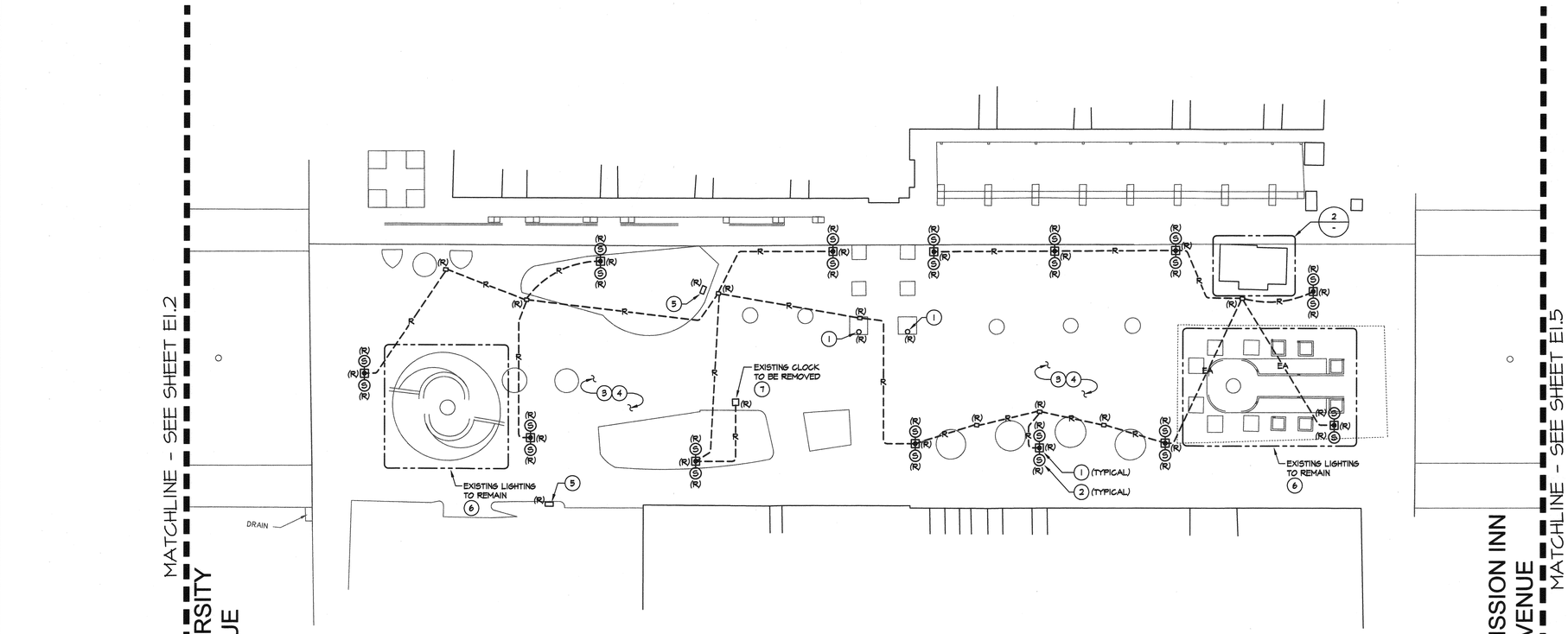
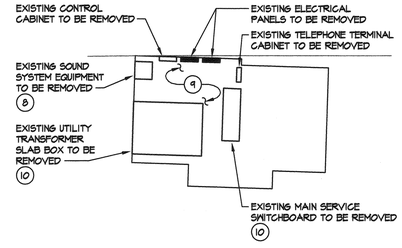
SHEET 78 OF ~~98~~ 100 1

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED LIGHT FIXTURE IS FEEDING AN EXISTING LIGHT FIXTURE THAT IS TO REMAIN, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING LIGHT FIXTURE IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
2. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING SOUND SYSTEM SPEAKERS, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
3. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE ALL EXISTING WEATHERPROOF RECEPTACLES, TIME CLOCKS AND LIGHT FIXTURES MOUNTED IN THE PLANTER AREAS/TREES, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED EQUIPMENT/DEVICES ARE FEEDING ANY EXISTING EQUIPMENT/DEVICES THAT ARE TO REMAIN, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING EQUIPMENT/DEVICES IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
4. THE CONTRACTOR SHALL NOTE THAT THE EXISTING CONDUIT ROUTINGS AND PULL BOX LOCATIONS INDICATED ON THIS PLAN WERE TAKEN FROM THE EXISTING AS-BUILT DRAWINGS AND THAT NOT ALL OF THE EXISTING CONDUITS AND PULL BOXES ARE SHOWN ON THIS PLAN. HE SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT ROUTING AND QUANTITIES OF ALL CONDUIT SYSTEMS AND PULL BOXES ASSOCIATED WITH ALL OF THE EQUIPMENT/DEVICES BEING REMOVED AND REMOVE ALL CONDUITS AND PULL BOXES. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
5. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING BREAKER/RECEPTACLE BOX, INCLUDING ALL PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS. WHERE THE EXISTING REMOVED BREAKER/RECEPTACLE BOX IS FEEDING ANY EXISTING EQUIPMENT/DEVICES THAT ARE TO REMAIN THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE POWER NECESSARY TO MAINTAIN THE EXISTING EQUIPMENT/DEVICES IN OPERATION. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL OF THE EXISTING LIGHT FIXTURES FOR THE EXISTING STATUE REMAINING IN PLACE, INCLUDING THE EXISTING CONDUIT AND CONDUCTORS CURRENTLY FEEDING THE EXISTING LIGHT FIXTURES. THE CONTRACTOR SHALL INTERCEPT THE EXISTING UNDERGROUND CONDUIT SYSTEM AND CONNECT IT TO THE NEW CIRCUITING INDICATED ON THE RENOVATION SITE PLAN. THE EXACT POINT OF CONNECTION OF THE EXISTING UNDERGROUND CONDUIT SHALL BE FIELD VERIFIED AND INDICATED ON THE AS-BUILT DRAWING.
7. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING CLOCK, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
8. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING SOUND SYSTEM EQUIPMENT, CABINET, POWER CIRCUIT AND ALL ASSOCIATED CONDUIT, CABLING AND CONDUCTORS.
9. ALL ELECTRICAL EQUIPMENT WITHIN THE ATM ENCLOSURE SHALL BE COMPLETELY DISCONNECTED AND REMOVED, INCLUDING ALL FULL BOXES, CONDUIT AND CONDUCTORS.
10. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIVERSIDE PUBLIC UTILITIES PRIOR TO THE DISCONNECTING AND REMOVAL OF THE INDICATED EQUIPMENT.
11. REFER TO THE RENOVATION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.



PARTIAL ELECTRICAL DEMOLITION SITE PLAN

1"=20'-0" | 01

ATM DEMO PLAN

1/8"=1'-0" | 02

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REGISTERED PROFESSIONAL ENGINEER ROLANDO E. SOTELO No. E17229 Exp. 6/30/08 ELECTRICAL STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL. (909) 941-3006 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@DLANC.COM

REGISTERED LANDSCAPE ARCHITECT IAN T DAVIDSON 4824 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

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1	RE-NUMBERED SHEET	AD	12-4-07

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PARKS DEPARTMENT		

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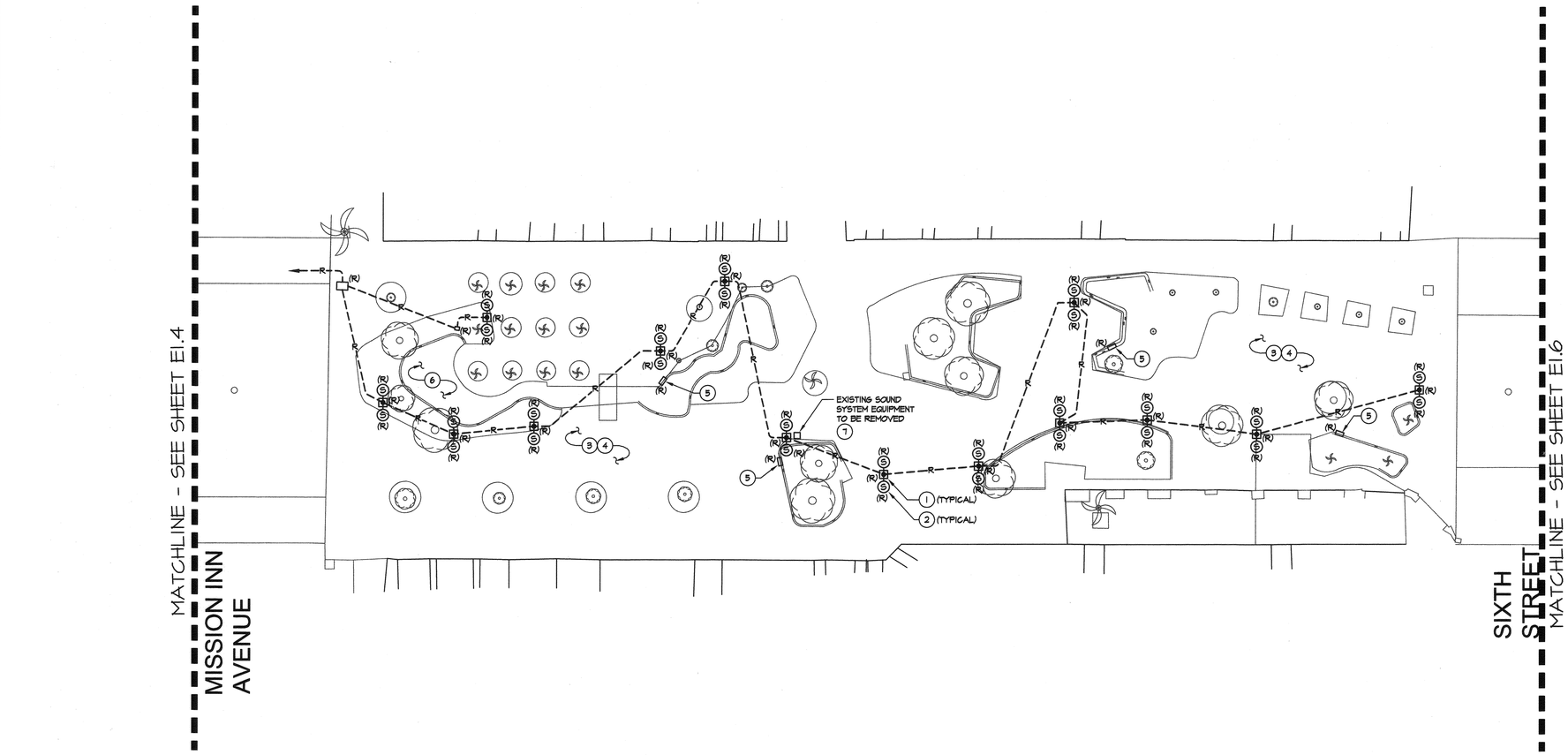
DOWNTOWN MALL
LANDSCAPE PLANS

~~8-23-2007~~ 12-3-07 1

ELECTRICAL PLAN
E1.4
SHEET 79 OF ~~98~~ 100 1

M-457



SCALE 1"=20'

PLAN NOTES

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6. THE CONTRACTOR SHALL COMPLETELY DISCONNECT AND REMOVE THE EXISTING FOUNTAIN, INCLUDING ALL ASSOCIATED PULL BOXES, CONDUIT AND CONDUCTORS. WHERE ITS NOT FEASIBLE AND/OR IMPOSSIBLE TO REMOVE THE EXISTING UNDERGROUND CONDUIT SYSTEM, THE CONDUIT SHALL BE ABANDONED IN PLACE AND INDICATED ON THE AS-BUILT DRAWINGS.
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9. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

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TEL: (909) 941-3009 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1383 . FAX 951 683 4352
E-MAIL: IDAVIDSONBIZ@AOL.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 2891 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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DOWNTOWN MALL
LANDSCAPE PLANS

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ELECTRICAL PLAN
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SHEET 80 OF (X) ~~98~~ 1

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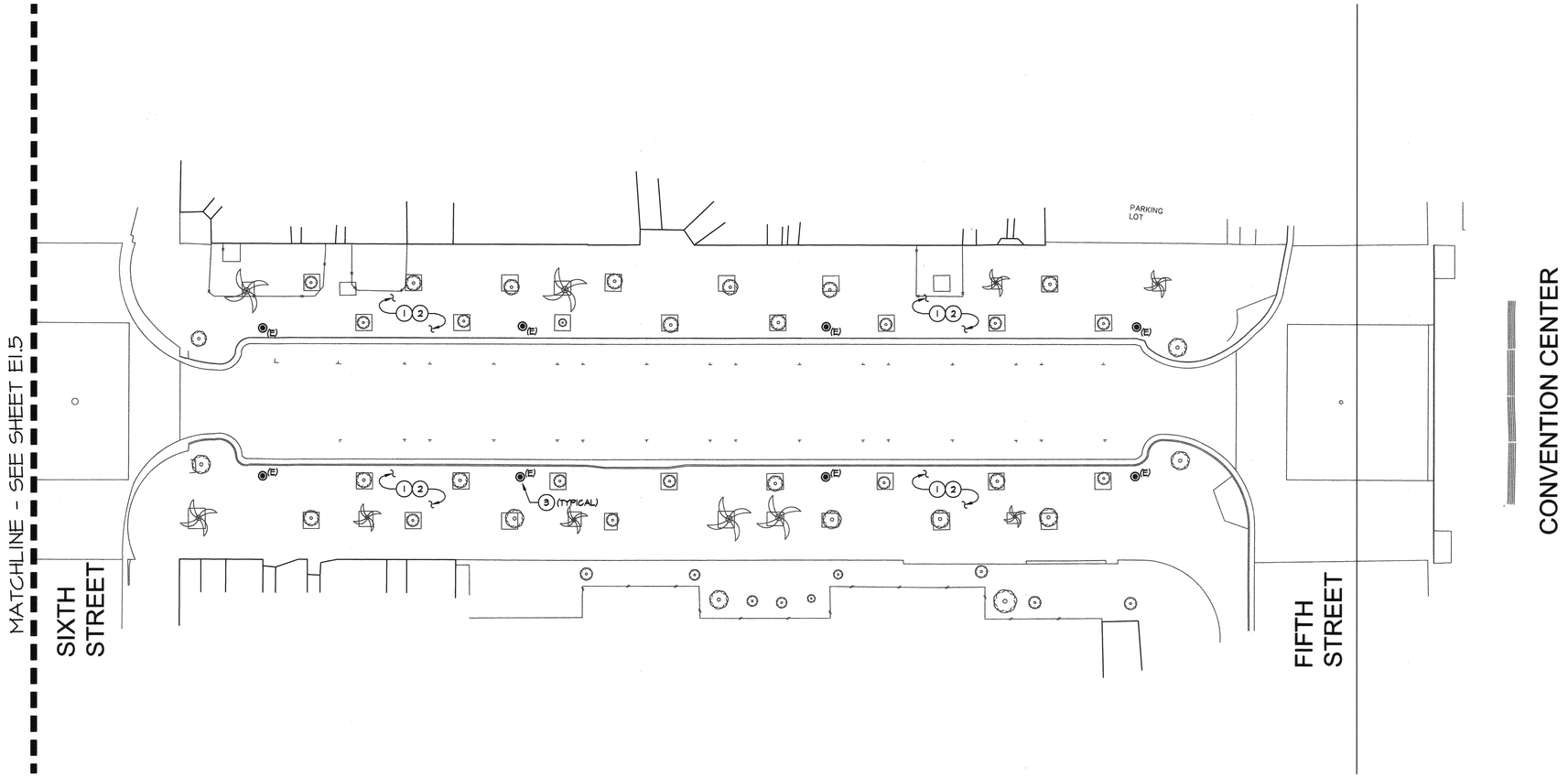

PLAN NOTES

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4. REFER TO THE RENOVATION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
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ROLANDO E. SOTELO
No. E17229
1/31/08
ELECTRICAL
STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1385 . FAX 951 683 4393
E-MAIL: IDAVIDSON@DLANC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN J. DAVIDSON 2498
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

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DOWNTOWN MALL
LANDSCAPE PLANS

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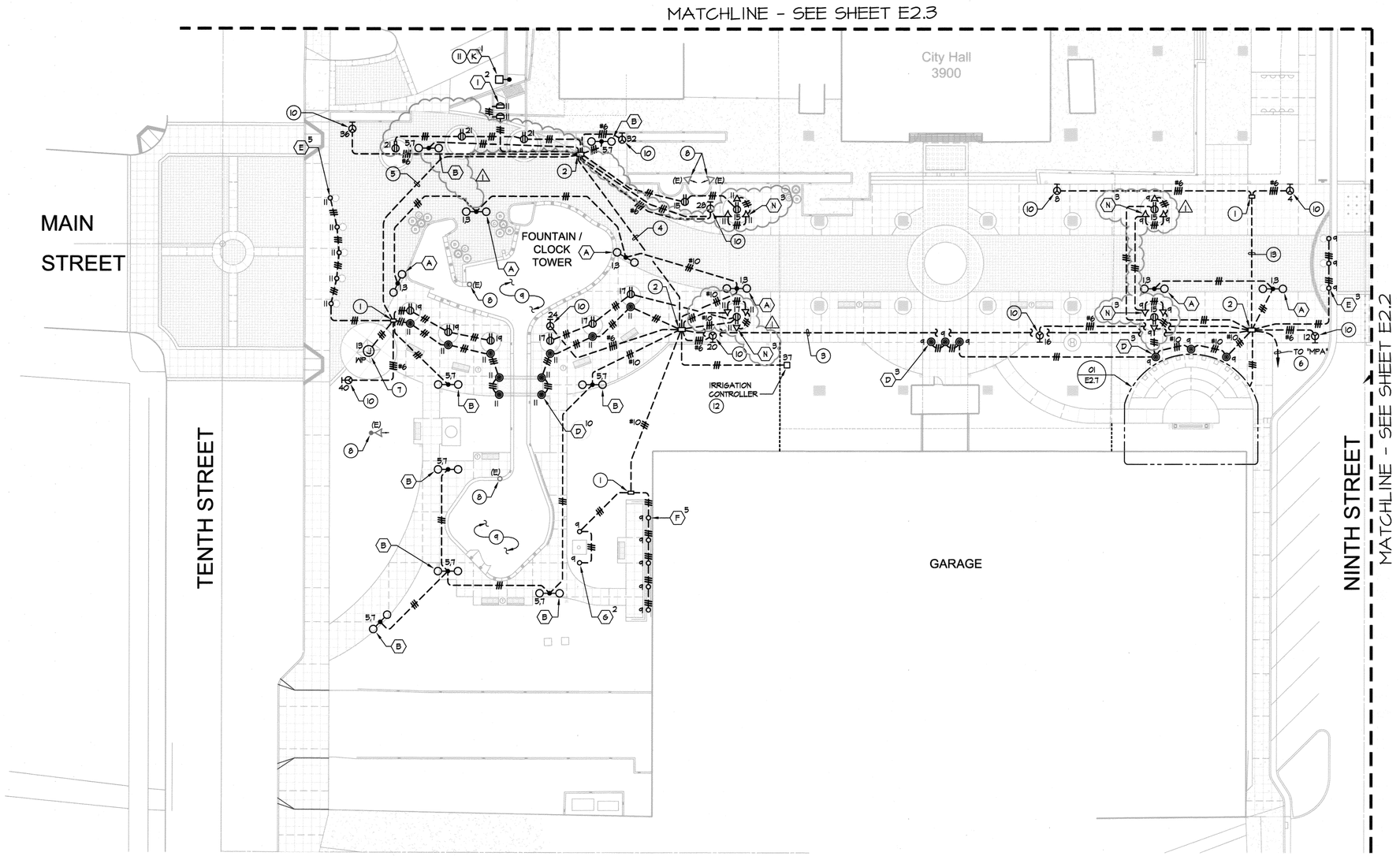
SHEET 81 OF ~~98~~ 100 1

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 17" X 30" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (1,3), 2#8 (5,7), 3#8 (9,11) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 3#8 (19,21), 2#8 (13) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1"C - 2#8 (5,7), 2#8 (11) & 1#8 GROUND.
   (1) 1 1/4"C - 2#8 (15), 3#8 (19,21), 2#8 (13) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 3#2 (40,42) & 1#4 GROUND.
   (1) 1"C - 2#8 (5,7), 2#8 (11) & 1#8 GROUND.
   (1) 1"C - 2#8 (19), 2#8 (13) & 1#8 GROUND.
   (2) 1"C (SPARE)
   (1) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - 3#4 (4,6), 3#4 (8,10) & 1#4 GROUND.
   (1) 1 1/2"C - 3#4 (12,14), 3#4 (16,18) & 1#4 GROUND.
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (1,3), 2#8 (5,7), 3#8 (9,11) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 3#8 (19,21), 2#8 (13) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
7. THE CONTRACTOR SHALL COORDINATE THE EXACT POWER REQUIREMENTS AND LOCATION OF CONDUIT STUB-UP IN THE FIELD WITH THE KIOSK MANUFACTURER. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING LIGHT FIXTURE IN PLACE, INCLUDING THE EXISTING CONDUIT AND CONDUCTORS CURRENTLY FEEDING THE LIGHT FIXTURE. THE CONTRACTOR SHALL TRACE OUT THE EXISTING CIRCUIT FEEDING THE LIGHT FIXTURE AND INDICATE IT ON THE AS-BUILT DRAWING. WHERE THE EXISTING LIGHT FIXTURE IS BEING FED FROM AN EXISTING LIGHT FIXTURE BEING REMOVED, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE REQUIRED POWER NECESSARY TO THE EXISTING LIGHT FIXTURE. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING POWER TO THE EXISTING FOUNTAIN/CLOCK TOWER REMAINING IN PLACE. THE CONTRACTOR SHALL TRACE OUT THE EXISTING CONDUIT/CIRCUIT ROUTING CURRENTLY FEEDING THE EXISTING FOUNTAIN/CLOCK TOWER AND INDICATE IT ON THE AS-BUILT DRAWING. WHERE THE EXISTING FOUNTAIN/CLOCK TOWER CIRCUIT IS BEING FED TROUGH THE EXISTING CONDUIT SYSTEM THAT IS BEING REMOVED, THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO PROVIDE THE REQUIRED POWER NECESSARY TO THE EXISTING FOUNTAIN/CLOCK TOWER. ALL INFORMATION SHALL BE INDICATED ON THE AS-BUILT DRAWING.
10. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.
11. NEW LIGHT FIXTURE AND POLE MOUNTED ON EXISTING BASE. THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY AND ALL REQUIRED ANCHOR BOLT ADAPTERS NECESSARY IN ORDER TO MATCH UP THE ANCHOR BOLT PATTERN ON THE NEW POLE, BEING INSTALLED, TO THE EXISTING BASE. HE SHALL CONNECT THE NEW LIGHT FIXTURE TO THE EXISTING CONDUCTORS, TRACE OUT THE EXISTING CIRCUITING AND INDICATE ALL INFORMATION ON THE AS-BUILT DRAWINGS.
12. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE IRRIGATION CONTROLLER IN THE FIELD WITH THE IRRIGATION CONTRACTOR. HE SHALL PROVIDE ALL REQUIRED MATERIALS AND MAKE ALL FINAL TERMINATIONS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - 3#4 (4,6), 3#4 (8,10) & 1#4 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
14. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
15. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
16. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL ELECTRICAL RENOVATION SITE PLAN

1"=20'-0" | 01

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RICARDO E. SOTELO
No. E17229
6/30/08
ELECTRICAL
STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4302
E-MAIL: IDAVIDSON@LANC.COM

REGISTERED LANDSCAPE ARCHITECT
IAN T. DAVIDSON No.4381
Signature
6/30/09
Exp. Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE	TPD	3-25-08
2	RE-NUMBERED SHEET SUPERCEDES SHT E2.1	RPD	3-25-08

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	[illegible]	3/24/08
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 3/24/08

DOWNTOWN MALL
LANDSCAPE PLANS

03-20-2008

ELECTRICAL PLAN
E2.1A

SHEET 82 OF ~~99~~ 100

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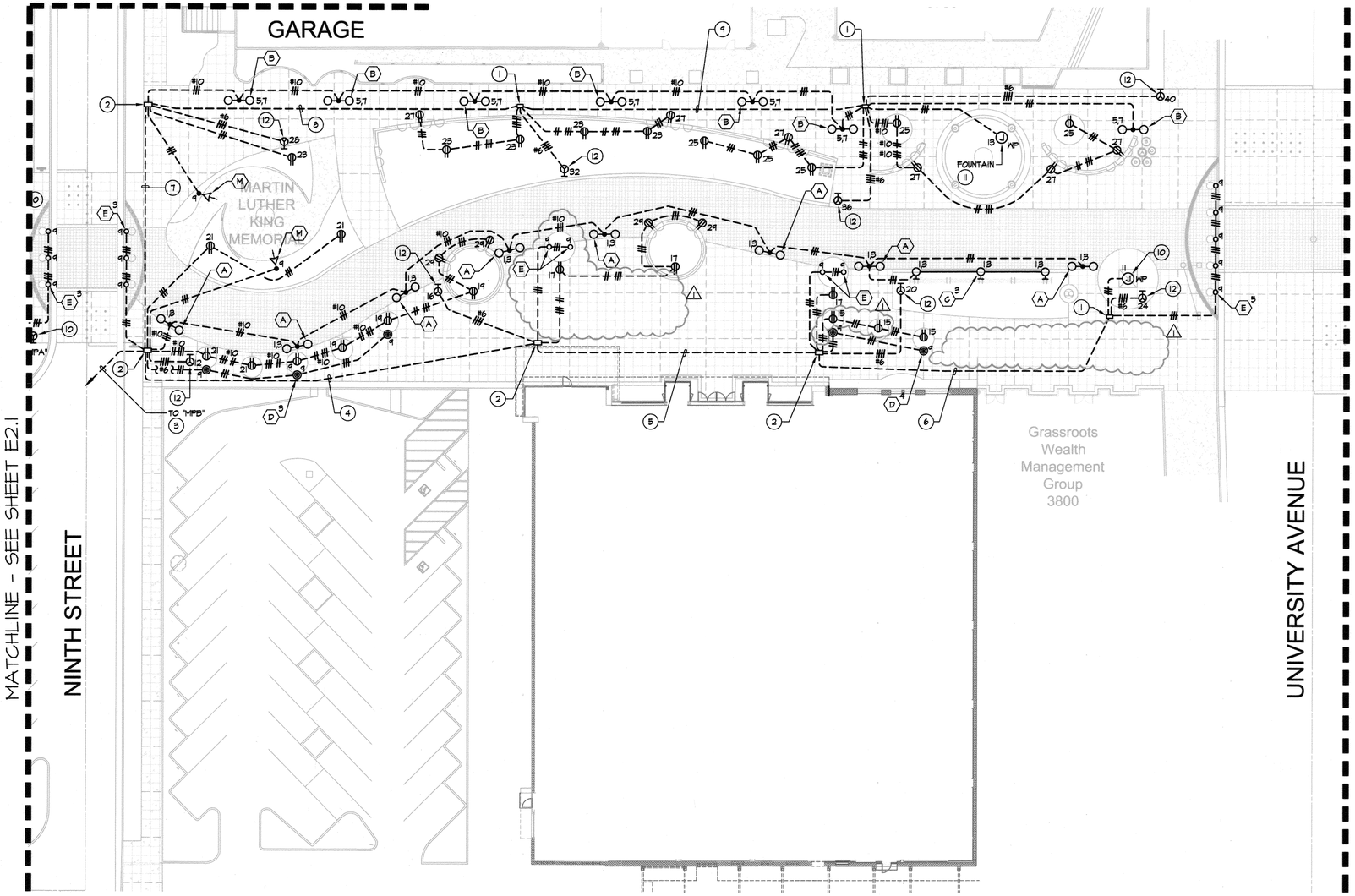

PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 17" X 30" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND.
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (13), 2#8 (15,17), 2#8 (9) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 2#8 (19,21), 3#8 (23,25) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (27,29), 3#8 (11,13) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 3#2 (16,18) & 1#4 GROUND.
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 2#8 (9), 2#8 (24), 2#8 (11) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 2#8 (9), 2#8 (11) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (9), 2#8 (11) & 1#8 GROUND. ⚠1
   (2) 1"C (SPARE)
   (1) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1"C - 2#8 (5,7), 2#8 (9) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (23,25), 2#8 (27), 2#8 (13) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1 1/4"C - 3#8 (23,25), 2#8 (27), 2#8 (13) & 1#8 GROUND.
   (2) 1"C (SPARE)
   (1) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (25), 2#8 (27), 2#8 (13) & 1#8 GROUND.
   (2) 1"C (SPARE)
   (1) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
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12. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.
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14. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
15. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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1"=20'-0" | 01

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TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4302
E-MAIL: IDAVIDSON@DLARC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON "RIVERSIDE" Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠3	3/20/08 - PHASE 1 CONSTRUCTION PHASE	MWK	3-25-08
⚠4	RENUMBERED SHEET SUBSEQUENT SHT E2.2	MWK	3-25-08

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
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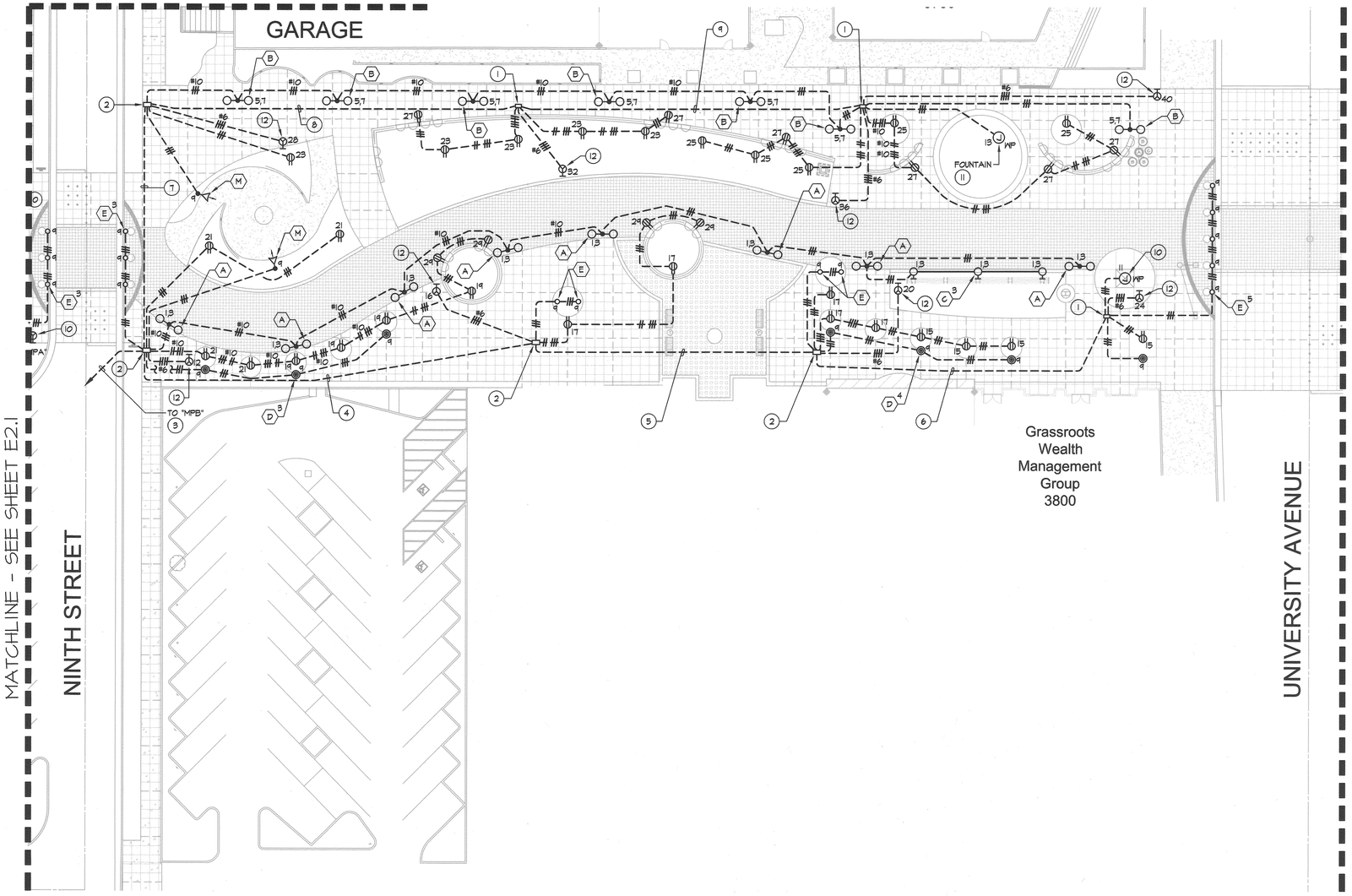
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 3/26/08

DOWNTOWN MALL
LANDSCAPE PLANS

03-20-2008

ELECTRICAL PLAN
E2.2A
SHEET 83 OF ~~99~~ 100



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   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (1,3), 2#8 (5,7), 2#8 (9) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (15,17), 3#8 (19,21), 3#8 (23,25) & 1#8 GROUND.
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   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
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   (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (15), 2#8 (9), 2#8 (11) & 1#8 GROUND.
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   (1) 1 1/4"C (SPARE)
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   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1"C - 2#8 (5,7), 2#8 (9) & 1#8 GROUND.
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14. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
15. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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A&F ENGINEERING GROUP INC.
9333 BASELINE RD. SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL (909) 941-3006 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4352
E-MAIL: DAVIDSONIB@LAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN DAVIDSON RICHARD — Signature — 5/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
4	RE-NUMBERED SHEET FROM E2.2A AND 3/25/08		12-4-07
5	SUPERCEDED BY SHT E2.2A AND 3/25/08		

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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	[illegible]	12/5/07
PRINCIPAL ENGINEER	[illegible]	12/4/07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
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APPROVED BY
CITY ENGINEER
DATE 12/5/07

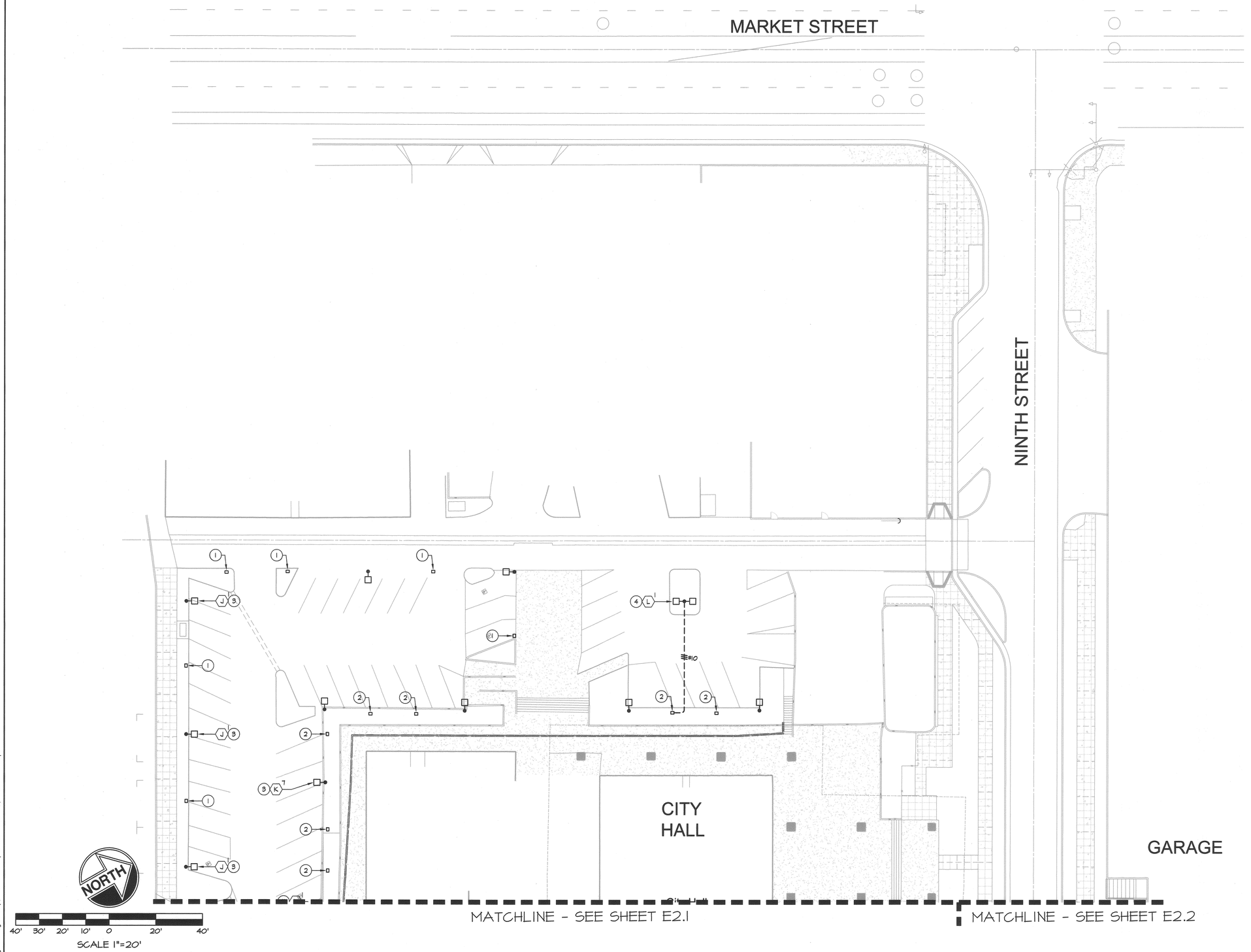
DOWNTOWN MALL
LANDSCAPE PLANS

~~5-23-2008~~ 12-3-07 4

ELECTRICAL PLAN
E2.2

SHEET 84 OF 100 4

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX, WHERE THE EXISTING CONCRETE BASE WAS REMOVED, COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING". HE SHALL BE RESPONSIBLE FOR INTERCEPTING AND TERMINATING THE EXISTING CONDUIT AND CONDUCTORS INTO THE NEW PULL BOX. THE EXISTING CIRCUITING SHALL BE TRACED OUT AND SHALL REMAIN IN PLACE TO RE-FEED THE NEW LIGHT FIXTURES BEING INSTALLED. EXACT ROUTING OF CONDUIT SYSTEM SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX, WHERE THE EXISTING CONCRETE BASE WAS REMOVED, COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING". IF REMOVAL OF THE EXISTING BASE CREATES AN AFFECT ON THE STRUCTURAL INTEGRITY OF THE PARKING LOT OR THE AREA SURROUNDING THE BASE, THE EXISTING BASE SHALL REMAIN AND THE CONTRACTOR SHALL INTERCEPT THE EXISTING CONDUIT AND CONDUCTORS AT GRADE LEVEL AND EXTEND NEW CONDUIT AND CONDUCTORS AS REQUIRED TO CONTINUE THE CIRCUITING. THE EXISTING CONDUITS BEING STUBBED UP INTO THE EXISTING BASE SHALL BE CUT AND CAPPED FLUSH WITH THE TOP OF THE EXISTING BASE. THE EXISTING CIRCUITING SHALL BE TRACED OUT AND EXACT ROUTING OF CONDUIT SYSTEM SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
3. NEW LIGHT FIXTURE AND POLE MOUNTED ON EXISTING BASE. THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY AND ALL REQUIRED ANCHOR BOLT ADAPTERS NECESSARY IN ORDER TO MATCH UP THE ANCHOR BOLT PATTERN ON THE NEW POLE, BEING INSTALLED, TO THE EXISTING BASE. HE SHALL CONNECT THE NEW LIGHT FIXTURE TO THE EXISTING CONDUCTORS, TRACE OUT THE EXISTING CIRCUITING AND INDICATE ALL INFORMATION ON THE AS-BUILT DRAWINGS.
4. THE CONTRACTOR SHALL ROUTE NEW CONDUIT AND CONDUCTORS TO THE NEW LIGHT FIXTURE AS INDICATED TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
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7. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL ELECTRICAL RENOVATION SITE PLAN

1"=20'-0" | 01

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REGISTERED PROFESSIONAL ENGINEER — ROLANDO E. SOTELO — No. E17229 — 6/30/08 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD. SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3006 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4352
E-MAIL: IDAVIDSON@SLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN A. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

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CONST. CONTRACT ADMIN.		
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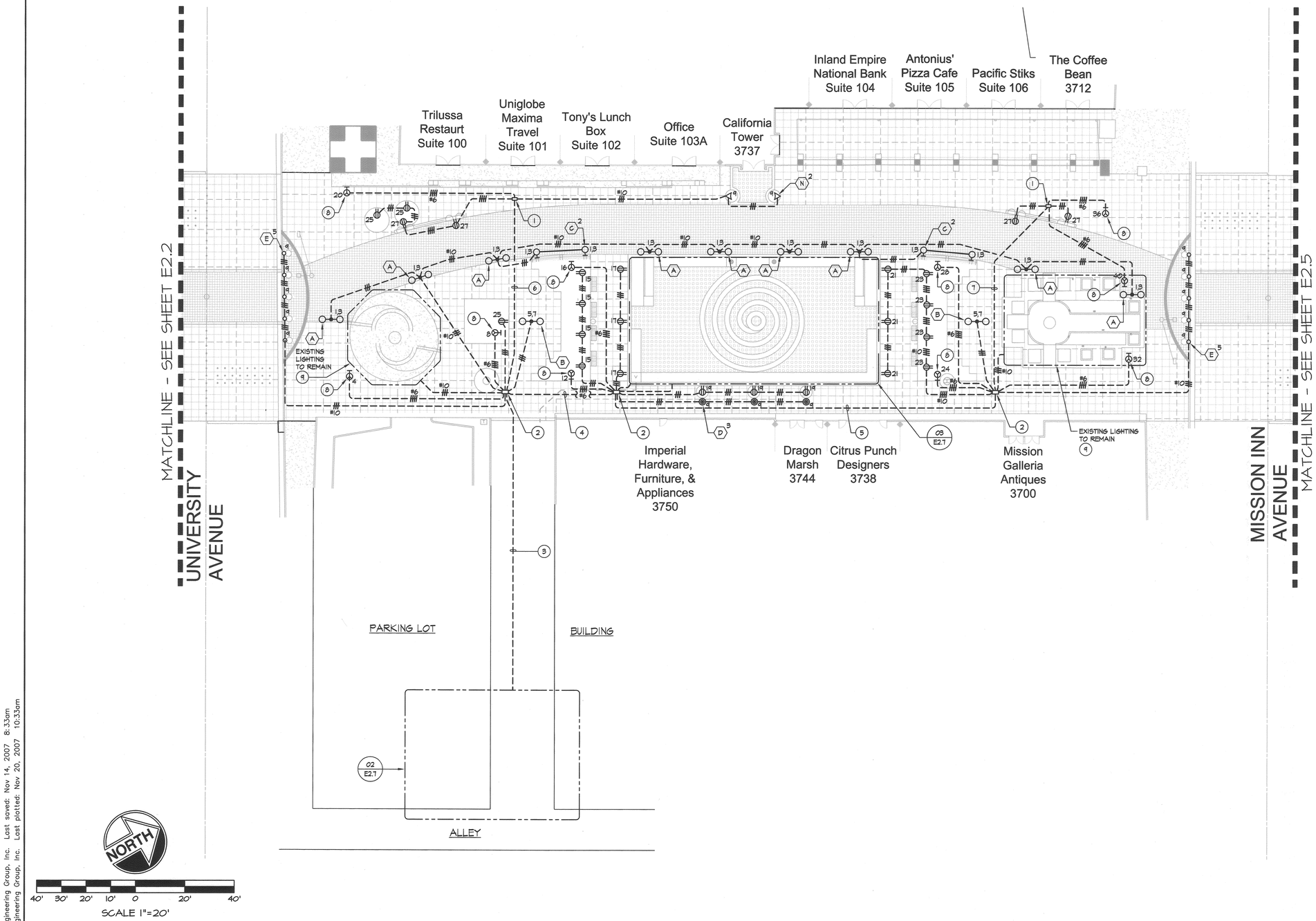
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/14/07

DOWNTOWN MALL
LANDSCAPE PLANS

12-05-2007
ELECTRICAL PLAN
E2.3
SHEET 84A ~~85~~ OF 100 ~~99~~

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 17" X 30" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".

3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   - (1) 1 1/2"C - 3#4 (4,6), 3#4 (8,10) & 1#4 GROUND.
   - (1) 1 1/2"C - 3#4 (12,14), 3#4 (16,18) & 1#4 GROUND.
   - (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   - (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   - (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   - (1) 1 1/4"C - 2#8 (13), 2#8 (5,7), 3#8 (9,11,13) & 1#8 GROUND.
   - (1) 1 1/4"C - 4#8 (15,17,19), 3#8 (21,23), 3#8 (25,27) & 1#8 GROUND.
   - (4) 1"C (SPARE)
   - (2) 1 1/4"C (SPARE)
   - (1) 1 1/2"C (SPARE)

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   - (1) 1 1/2"C - 3#4 (12,14), 3#4 (16,18) & 1#4 GROUND.
   - (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   - (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   - (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   - (1) 1"C - 2#8 (5,7), 4#8 (9,13) & 1#8 GROUND.
   - (1) 1 1/4"C - 4#8 (15,17,19), 3#8 (21,23), 2#8 (27) & 1#8 GROUND.
   - (4) 1"C (SPARE)
   - (2) 1 1/4"C (SPARE)
   - (1) 1 1/2"C (SPARE)

5. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   - (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   - (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   - (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   - (1) 1 1/4"C - 2#8 (5,7), 3#8 (9,13), 3#8 (21,23), 2#8 (27) & 1#8 GROUND.
   - (4) 1"C (SPARE)
   - (2) 1 1/4"C (SPARE)
   - (1) 1 1/2"C (SPARE)

6. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   - (1) 1 1/4"C - 3#2 (20,22) & 1#4 GROUND.
   - (1) 1"C - 3#10 (25,27), 2#10 (9) & 1#10 GROUND.
   - (2) 1"C (SPARE)
   - (1) 1 1/4"C (SPARE)
   - (1) 1 1/2"C (SPARE)

7. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   - (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   - (1) 1"C - 2#10 (27) & 1#10 GROUND.
   - (2) 1"C (SPARE)
   - (1) 1 1/4"C (SPARE)
   - (1) 1 1/2"C (SPARE)

8. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL OF THE EXISTING LIGHT FIXTURES FOR THE EXISTING STATUE REMAINING IN PLACE, INCLUDING THE EXISTING CONDUIT AND CONDUCTORS CURRENTLY FEEDING THE EXISTING LIGHT FIXTURES. THE CONTRACTOR SHALL INTERCEPT THE EXISTING UNDERGROUND CONDUIT SYSTEM AND CONNECT IT TO THE NEW CIRCUIT INDICATED. HE SHALL CONFIRM THAT THE EXISTING LIGHTING IS CURRENTLY BEING FED BY ONE CIRCUIT. IF MORE THAT ONE CIRCUIT IS BEING USED THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING THE ADDITIONAL CIRCUITS REQUIRED AND MAKE ALL ADJUSTMENTS NECESSARY ON THE PANEL SCHEDULE. THE EXACT POINT OF CONNECTION OF THE EXISTING UNDERGROUND CONDUIT AND QUANTITY OF CIRCUITS SHALL BE FIELD VERIFIED AND INDICATED ON THE AS-BUILT DRAWING.

10. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.

11. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

12. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL ELECTRICAL RENOVATION SITE PLAN

1"=20'-0" | 01

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REGISTERED PROFESSIONAL ENGINEER ORLANDO E. SOTELO No. E17229 6/30/08 ELECTRICAL STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD. SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 682 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@LAINC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON No. 4867 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	RE-NUMBERED SHEET	MWK	12-4-07

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

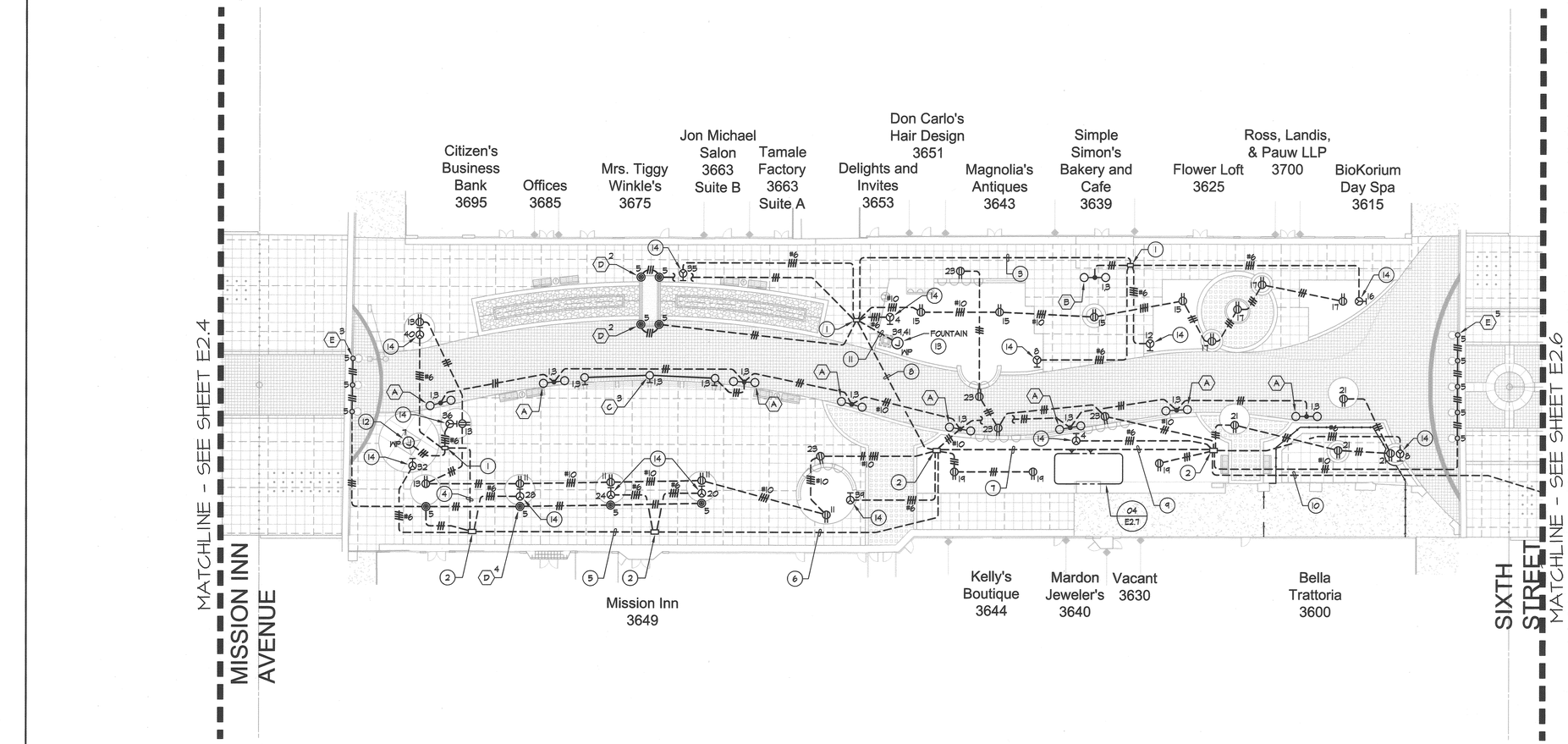
APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		12-5-07
PRINCIPAL ENGINEER		12-5-07
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12-5-07

DOWNTOWN MALL
LANDSCAPE PLANS

12-3-2007 Δ
ELECTRICAL PLAN
E2.4
SHEET 85 OF 100 Δ

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 15" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 17" X 30" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - 3#2 (8,10) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND. ("MPD")
   (1) 1"C - 2#8 (13) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPD")
   (1) 1"C - 2#8 (7) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPD")
   (1) 1"C - 2#8 (5), 2#8 (7) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPD")
   (1) 1"C - 2#8 (5), 2#8 (7) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (4,6), 3#2 (8,10) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 ("MPD"-35,37), 3#2 ("MPE"-34,41) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (13), 2#8 (5), 2#8 (23), 3#8 (34,41) & 1#8 GROUND. ("MPD")
   (1) 1 1/4"C - 3#8 (11,13), 3#8 (15,17), 2#8 (19), 2#8 (7) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (4,6), 3#2 (8,10) & 1#4 GROUND. ("MPD")
   (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND. ("MPD")
   (1) 1 1/2"C - 5#2 (35,37) & 1#4 GROUND. ("MPD")
   (1) 1 1/4"C - 2#8 (13), 2#8 (5), 3#8 (15,17), 3#8 (34,41) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - 3#2 (4,6), 3#2 (8,10) & 1#4 GROUND. ("MPE")
   (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND. ("MPE")
   (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND. ("MPE")
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND. ("MPE")
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPE")
   (1) 1 1/4"C - 3#8 (1,3), 3#8 (5,7), 3#8 (9,11) & 1#8 GROUND. ("MPE")
   (1) 1 1/4"C - 3#8 (13,15), 3#8 (17,19) & 1#8 GROUND. ("MPE")
   (1) 1 1/4"C - 2#8 (5), 3#8 (19,21), 2#8 (25) & 1#8 GROUND. ("MPD")
   (4) 1" C (SPARE)
   (2) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
    (1) 2"C - 3#2 (12,14), 3#2 (16,18) & 1#4 GROUND. ("MPE")
    (1) 2"C - 3#2 (20,22), 3#2 (24,26) & 1#4 GROUND. ("MPE")
    (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND. ("MPE")
    (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND. ("MPE")
    (1) 1 1/4"C - 3#8 (1,3), 3#8 (5,7), 3#8 (9,11) & 1#8 GROUND. ("MPE")
    (1) 1 1/4"C - 3#8 (13,15), 3#8 (17,19) & 1#8 GROUND. ("MPE")
    (2) 1" C (SPARE)
    (1) 1 1/4" C (SPARE)
    (1) 1 1/2" C (SPARE)
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
    (1) 1"C - 3#8 (39,41) & 1#8 GROUND.
12. THE CONTRACTOR SHALL COORDINATE THE EXACT POWER REQUIREMENTS AND LOCATION OF CONDUIT STUB-UP IN THE FIELD WITH THE KIOSK MANUFACTURER. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY.
13. THE CONTRACTOR SHALL COORDINATE THE EXACT POWER REQUIREMENTS AND LOCATION OF CONDUIT STUB-UP IN THE FIELD WITH THE FOUNTAIN CONTRACTOR. HE SHALL PROVIDE ALL REQUIRED MATERIALS AND MAKE ALL FINAL TERMINATIONS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM.
14. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.
15. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
16. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
17. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL ELECTRICAL RENOVATION SITE PLAN

1"=20'-0" | 01

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REGISTERED PROFESSIONAL ENGINEER — ROLANDO E. SOTELO — No. E17229 — 6/30/08 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4352
E-MAIL: IDAVIDSONBCA.INC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 2587 — Signature — 6/30/09 — Exp. Date — STATE OF CALIFORNIA

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1	RE-NUMBERED SHEET AND		12-4-07

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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

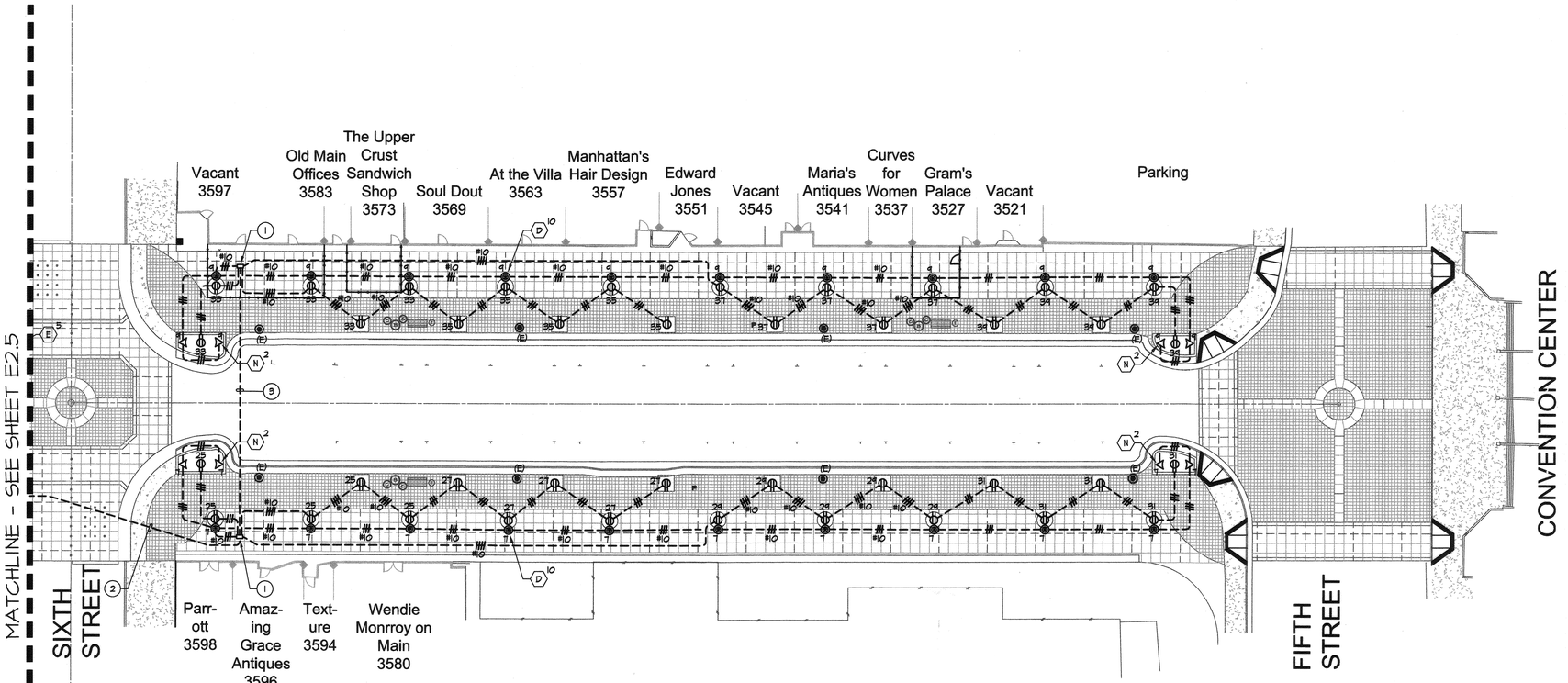
APPROVED BY _____ CITY ENGINEER
DATE _____

DOWNTOWN MALL
LANDSCAPE PLANS

8-23-2007
12-3-07 1

ELECTRICAL PLAN
E2.5
SHEET 86 OF 100 1

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 3#8 (7,6), 3#8 (25,27), 3#8 (24,31) & 1#8 GROUND.
   (1) 1 1/4"C - 3#8 (33,35), 3#8 (37,34) & 1#8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/4"C - 2#8 (9), 3#8 (33,35), 3#8 (37,34) & 1#8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
4. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
5. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
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NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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REGISTERED PROFESSIONAL ENGINEER — RICHARD E. SOTELO — No. 517229 — 6/30/08 — ELECTRICAL — STATE OF CALIFORNIA

A&F ENGINEERING GROUP INC.
9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 FAX 951.683.4302
E-MAIL: IDAVIDSON@DLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN T. DAVIDSON — No. 2987 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	RE-NUMBERED SHEET	MD	12-4-07

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

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PUBLIC WORKS DEPARTMENT

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TRAFFIC DIVISION	KH	9-13-07
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APPROVED BY _____ CITY ENGINEER
DATE 9/19/07

DOWNTOWN MALL
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8-23-2007
12-3-07 1
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SHEET 87 OF 98 100 1

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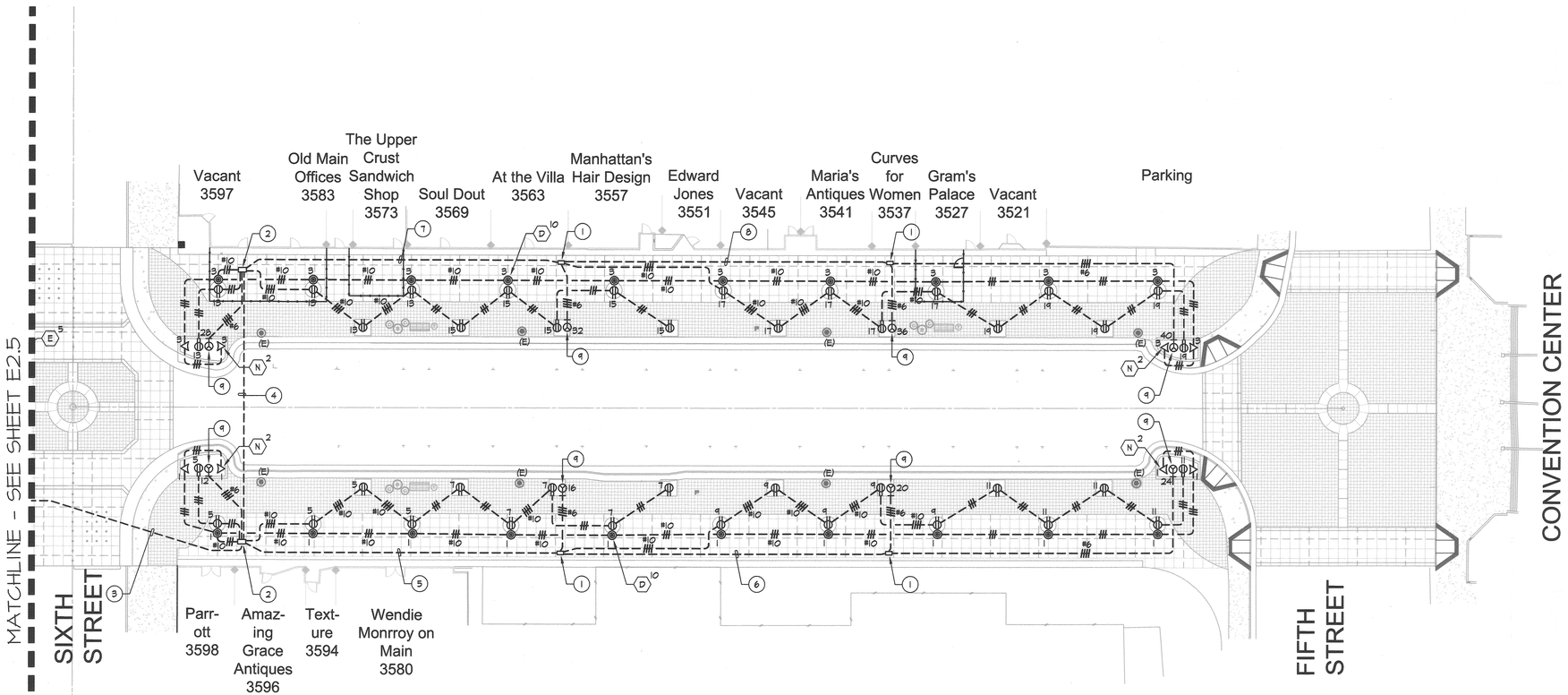

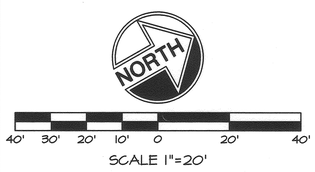

PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 15" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 17" X 30" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "LIGHTING/POWER".
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - #12 (12,14), #12 (16,18) & #14 GROUND.
   (1) 2"C - #12 (20,22), #12 (24,26) & #14 GROUND.
   (1) 2"C - #12 (28,30), #12 (32,34) & #14 GROUND.
   (1) 2"C - #12 (36,38), #12 (40,42) & #14 GROUND.
   (1) 1 1/4"C - #8 (1,3), #8 (5,7), #8 (9,11) & #8 GROUND.
   (1) 1 1/4"C - #8 (13,15), #8 (17,19) & #8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - #12 (28,30), #12 (32,34) & #14 GROUND.
   (1) 2"C - #12 (36,38), #12 (40,42) & #14 GROUND.
   (1) 1 1/4"C - 2#8 (3), #8 (13,15), #8 (17,19) & #8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - #12 (16,18) & #14 GROUND.
   (1) 2"C - #12 (20,22), #12 (24,26) & #14 GROUND.
   (1) 1"C - #8 (9,11) & #8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - #12 (20,22), #12 (24,26) & #14 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - #12 (32,34) & #14 GROUND.
   (1) 2"C - #12 (36,38), #12 (40,42) & #14 GROUND.
   (1) 1"C - #8 (17,19) & #8 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 2"C - #12 (36,38), #12 (40,42) & #14 GROUND.
   (2) 1" C (SPARE)
   (1) 1 1/4" C (SPARE)
   (1) 1 1/2" C (SPARE)
9. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.
10. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
11. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL ELECTRICAL RENOVATION SITE PLAN

1"=20'-0" | 01

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9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 . FAX 951.683.4352
E-MAIL: IDAVIDSONBCLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No.2931 — Signature — 6/30/08 Exp. Date — STATE OF CALIFORNIA

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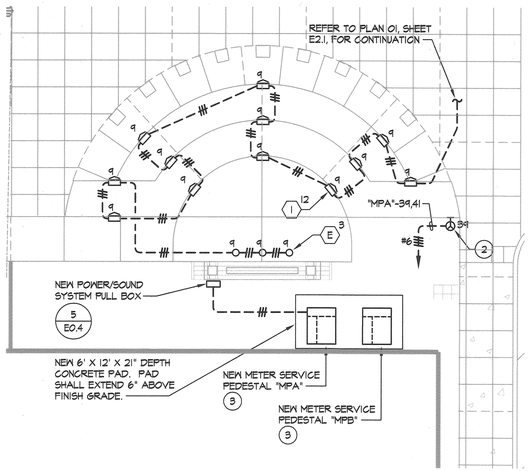
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

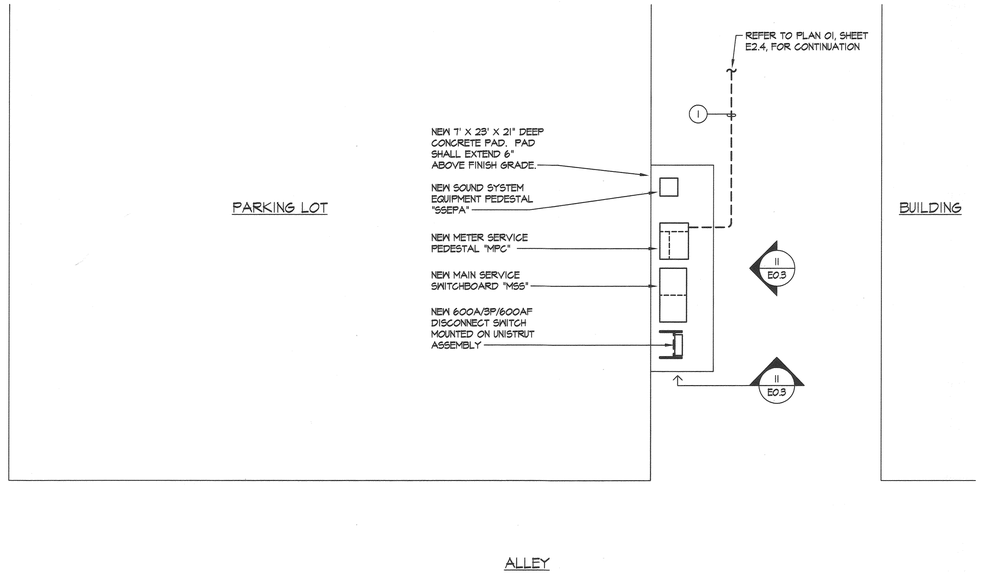
6-25-2007
12-3-07 1

ELECTRICAL PLAN
E2.6
SHEET 88 OF 100 1

M-457



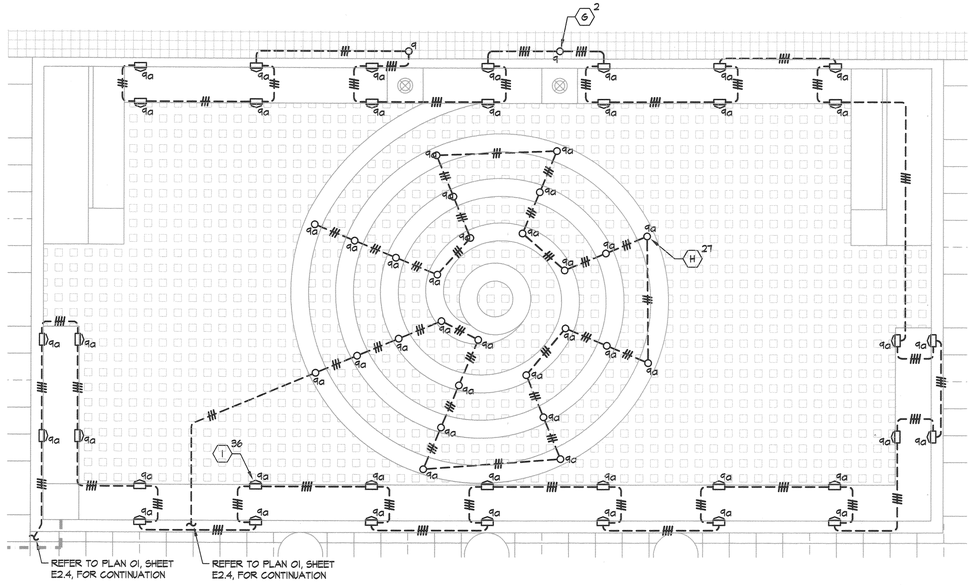
ENLARGED ELECTRICAL RENOVATION PLAN | 1"=8'-0" | 01



ENLARGED ELECTRICAL RENOVATION PLAN | 1"=8'-0" | 02

PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING:
   (1) 1 1/2"C - 3#4 (4,6), 3#4 (8,10) & 1#4 GROUND.
   (1) 1 1/2"C - 3#4 (12,14), 3#4 (16,18) & 1#4 GROUND.
   (1) 1 1/4"C - 3#2 (24,26) & 1#4 GROUND.
   (1) 2"C - 3#2 (28,30), 3#2 (32,34) & 1#4 GROUND.
   (1) 2"C - 3#2 (36,38), 3#2 (40,42) & 1#4 GROUND.
   (1) 1 1/4"C - 2#8 (1,3), 2#8 (5,7), 3#8 (9,11,13) & 1#8 GROUND.
   (1) 1 1/4"C - 4#8 (15,17,19), 3#8 (21,23), 3#8 (25,27) & 1#8 GROUND.
   (4) 1"C (SPARE)
   (2) 1 1/4"C (SPARE)
   (1) 1 1/2"C (SPARE)
2. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE SPECIAL EVENT OUTLET IN THE FIELD WITH THE CITY OF RIVERSIDE AND THE LANDSCAPE ARCHITECT PRIOR TO ROUTING OF CONDUITS AND INSTALLATION. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE THE OUTLETS IN THE EXACT LOCATIONS PER THE CITIES REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ALL EXISTING CIRCUITS THAT ARE TO REMAIN FROM THE EXISTING METER PEDESTAL BEING REMOVED AND RECONNECTING TO THE NEW METER PEDESTALS. REFER TO THE PANEL SCHEDULES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
5. REFER TO THE DEMOLITION SITE PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

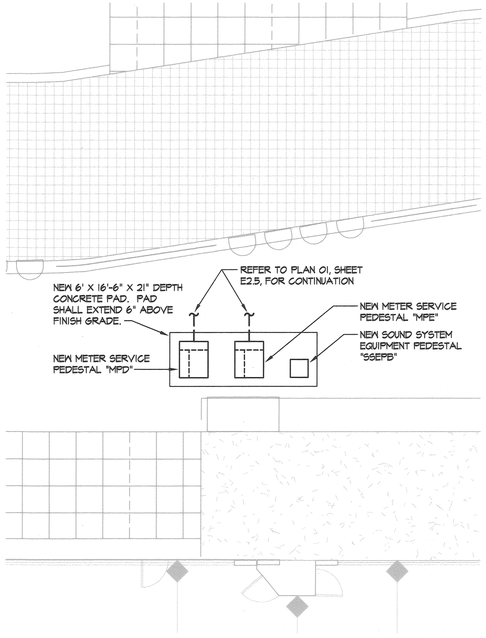


NORTH

16' 12' 8' 4' 0 8' 16'

SCALE 1"=8'

ENLARGED ELECTRICAL RENOVATION PLAN | 1"=8'-0" | 03



ENLARGED ELEC. RENOVATION PLAN | 1"=8'-0" | 04

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3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4352
E-MAIL: IDAVIDSONBOL.AINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No.2837 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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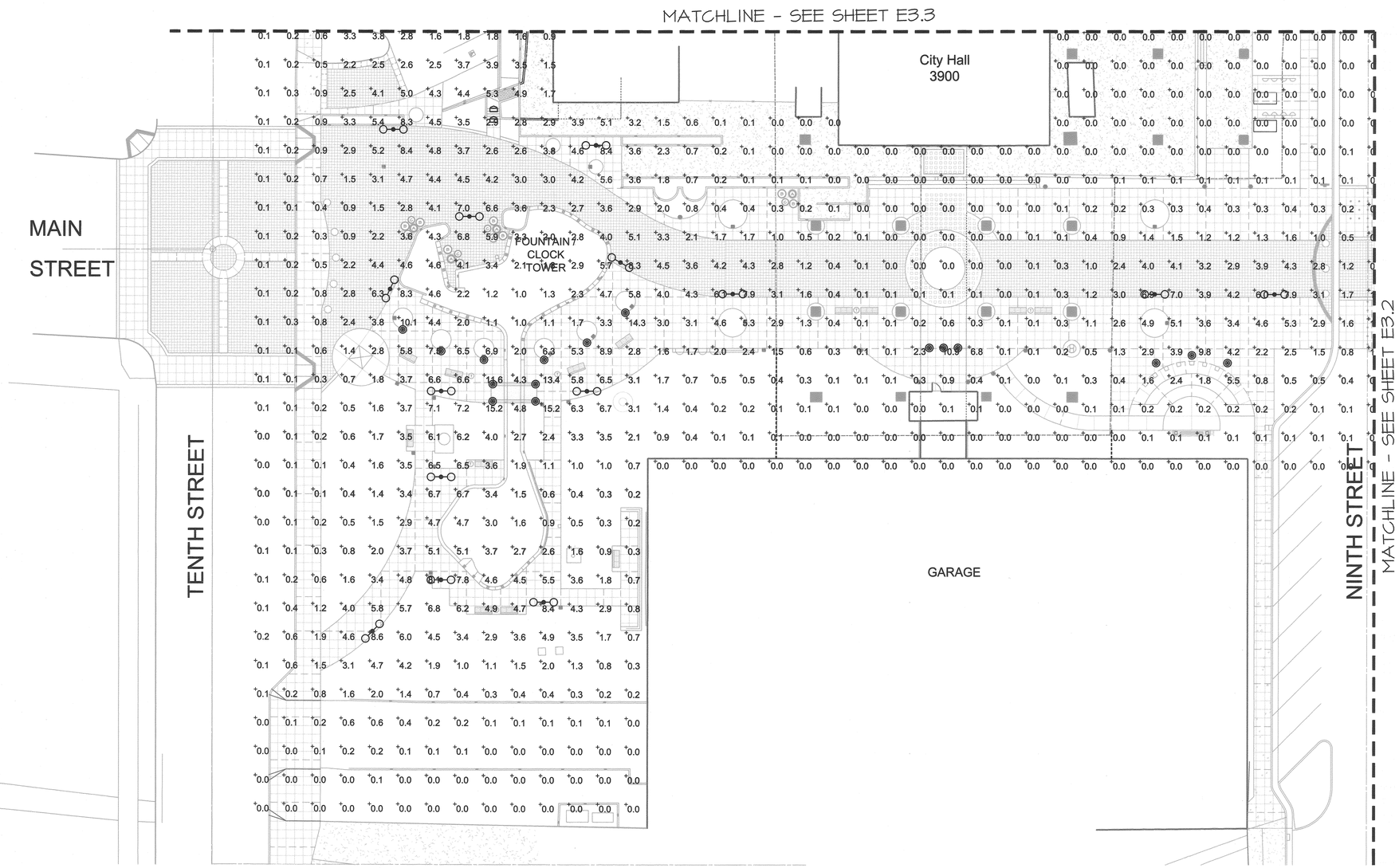
DOWNTOWN MALL
LANDSCAPE PLANS

12-3-07 1

ELECTRICAL PLAN
E2.7
SHEET 89 OF 100 1

M-487



PLAN NOTES

1. IF THE LIGHT FIXTURES THAT ARE SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE, WHICH THIS PHOTOMETRIC STUDY IS BASED ON, IS SUBSTITUTED THE CONTRACTOR SHALL SUBMIT A COMPLETE POINT-BY-POINT FOOTCANDLE PHOTOMETRIC CALCULATION STUDY IN COMPLIANCE WITH THE FOOTCANDLE LEVELS INDICATED ON THIS PLAN.
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3. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL POINT-BY-POINT FOOTCANDLE PHOTOMETRIC STUDY

1"=20'-0" | 01

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TEL: (909) 941-3006 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 , FAX 951 683 4352
E-MAIL: IDAVIDSON@OLANET.COM

REGISTERED LANDSCAPE ARCHITECT — IAN F DAVIDSON — No.2647 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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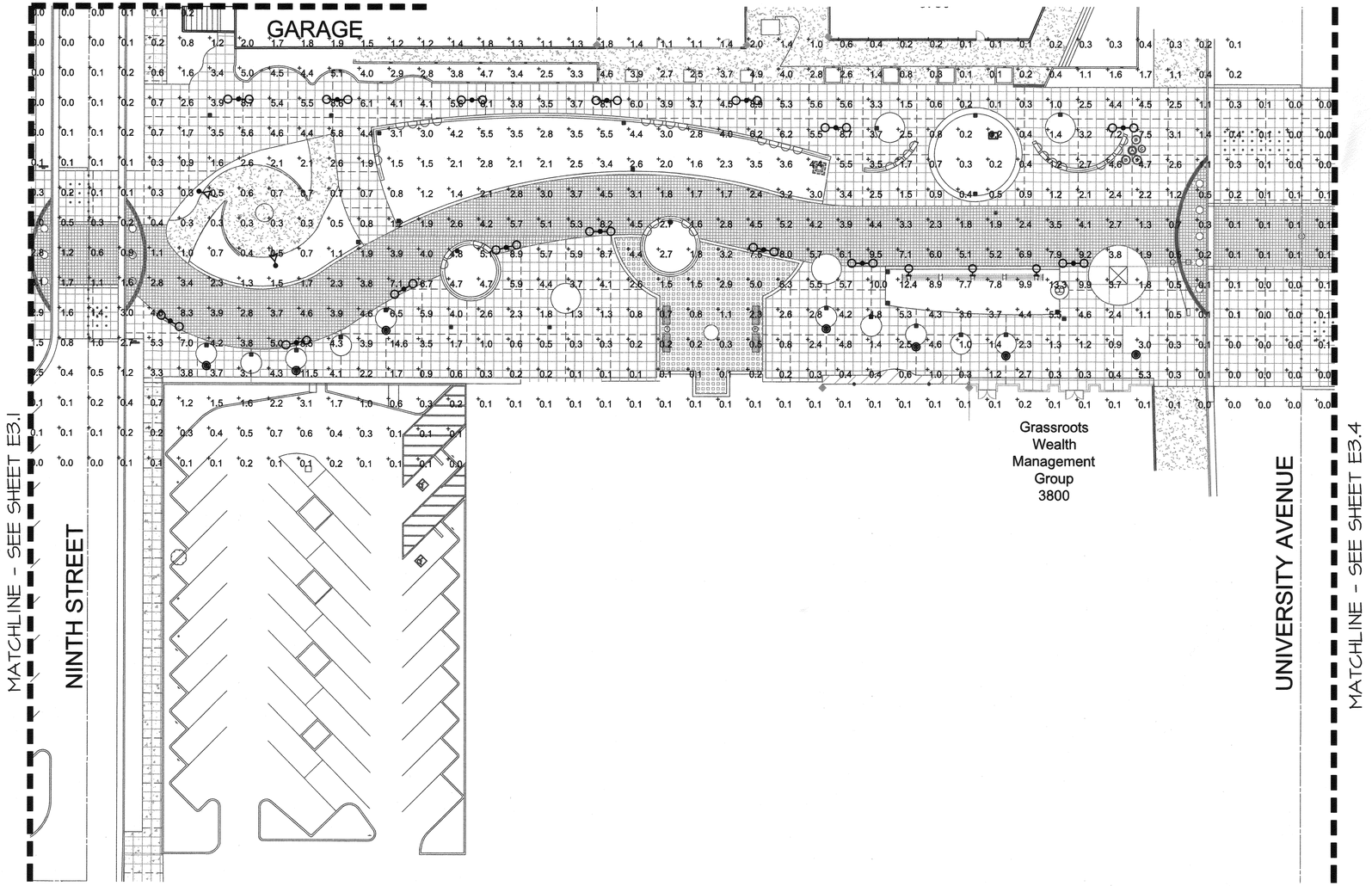
DATE

DOWNTOWN MALL
LANDSCAPE PLANS

12-~~05~~-17-2007

ELECTRICAL PLAN
E3.1
SHEET ~~89~~ 100 OF ~~99~~ 100

M-457



PLAN NOTES

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3. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL POINT-BY-POINT FOOTCANDLE PHOTOMETRIC STUDY

1"=20'-0" | 01

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Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1383 . FAX 951 683 4302
E-MAIL: IDAVIDSONBLANC.COM

REGISTERED LANDSCAPE ARCHITECT
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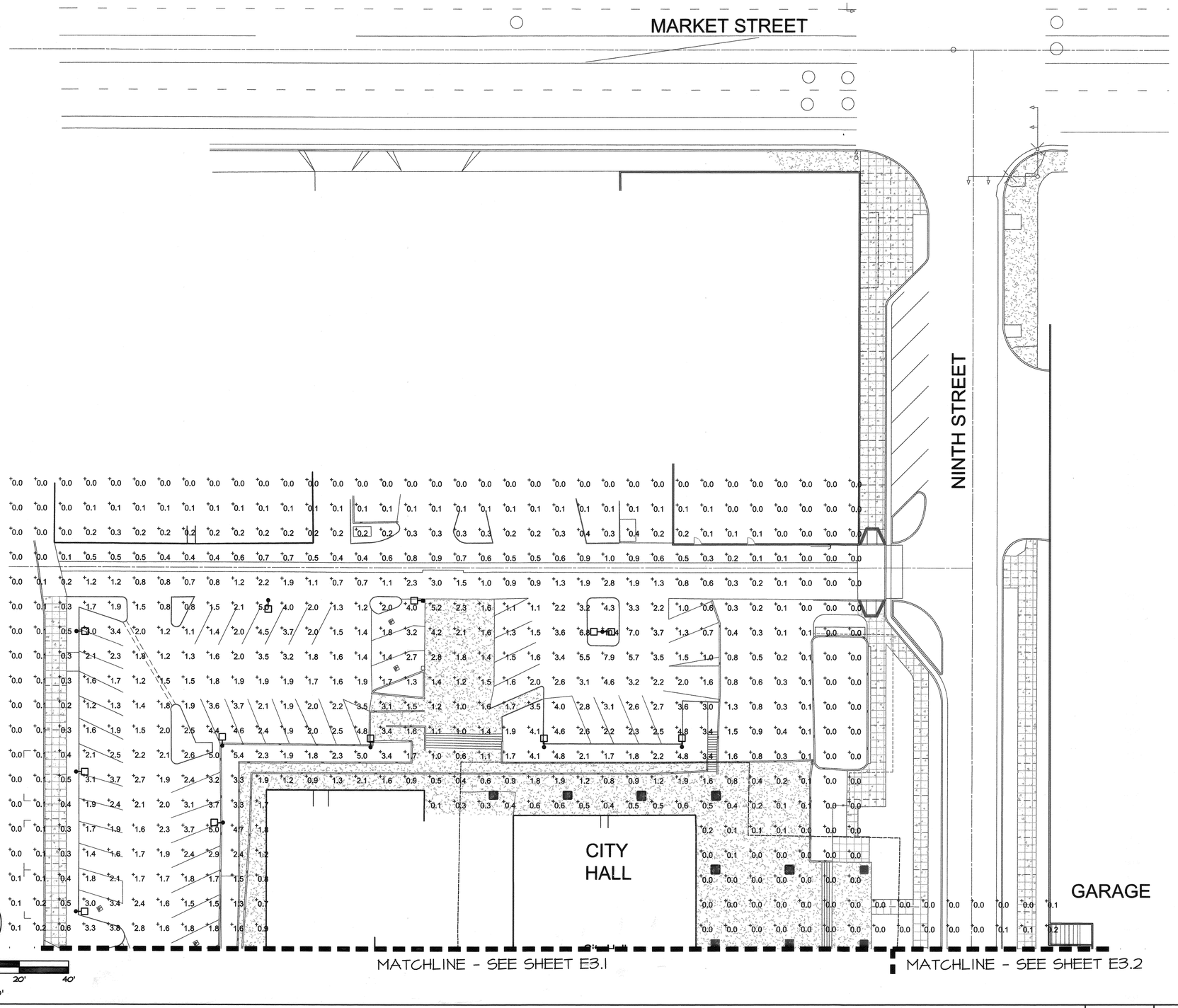
DOWNTOWN MALL
LANDSCAPE PLANS

~~8-23-2007~~ 12-3-07 1
ELECTRICAL PLAN
E3.2
SHEET 90 OF ~~98~~ 100 1

M-457



PLAN NOTES

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PARTIAL POINT-BY-POINT FOOTCANDLE PHOTOMETRIC STUDY

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TEL: (909) 941-3006 FAX (909) 941-3211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1383 - FAX 951.683.4302
E-MAIL IDAVIDSON@DSLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 Exp. 10/09 — STATE OF CALIFORNIA

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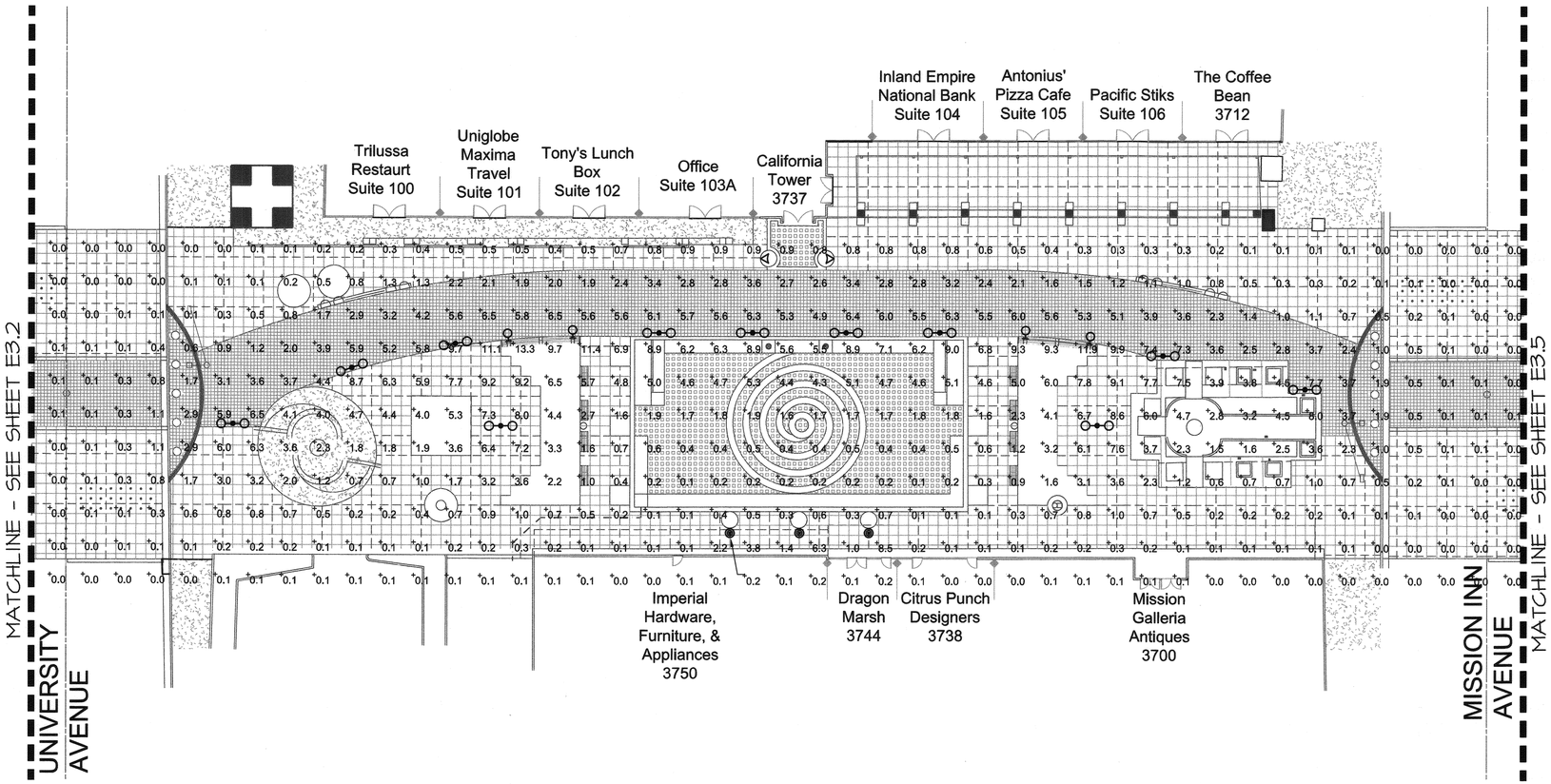
DOWNTOWN MALL
LANDSCAPE PLANS

8-23-2007
12-3-07 4

ELECTRICAL PLAN
E3.3
SHEET 91 OF 100 98

M-457



NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLAN NOTES

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PARTIAL POINT-BY-POINT FOOTCANDLE PHOTOMETRIC STUDY

1"=20'-0" | 01

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Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4362
E-MAIL: IDAVIDSON@MSN.COM

REGISTERED LANDSCAPE ARCHITECT — IAN F. DAVIDSON — Signature — 6/30/09 — Exp. 10/09 — STATE OF CALIFORNIA

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DOWNTOWN MALL LANDSCAPE PLANS

12-3-2007 1
ELECTRICAL PLAN
E3.4
SHEET 92 OF 100 98 1

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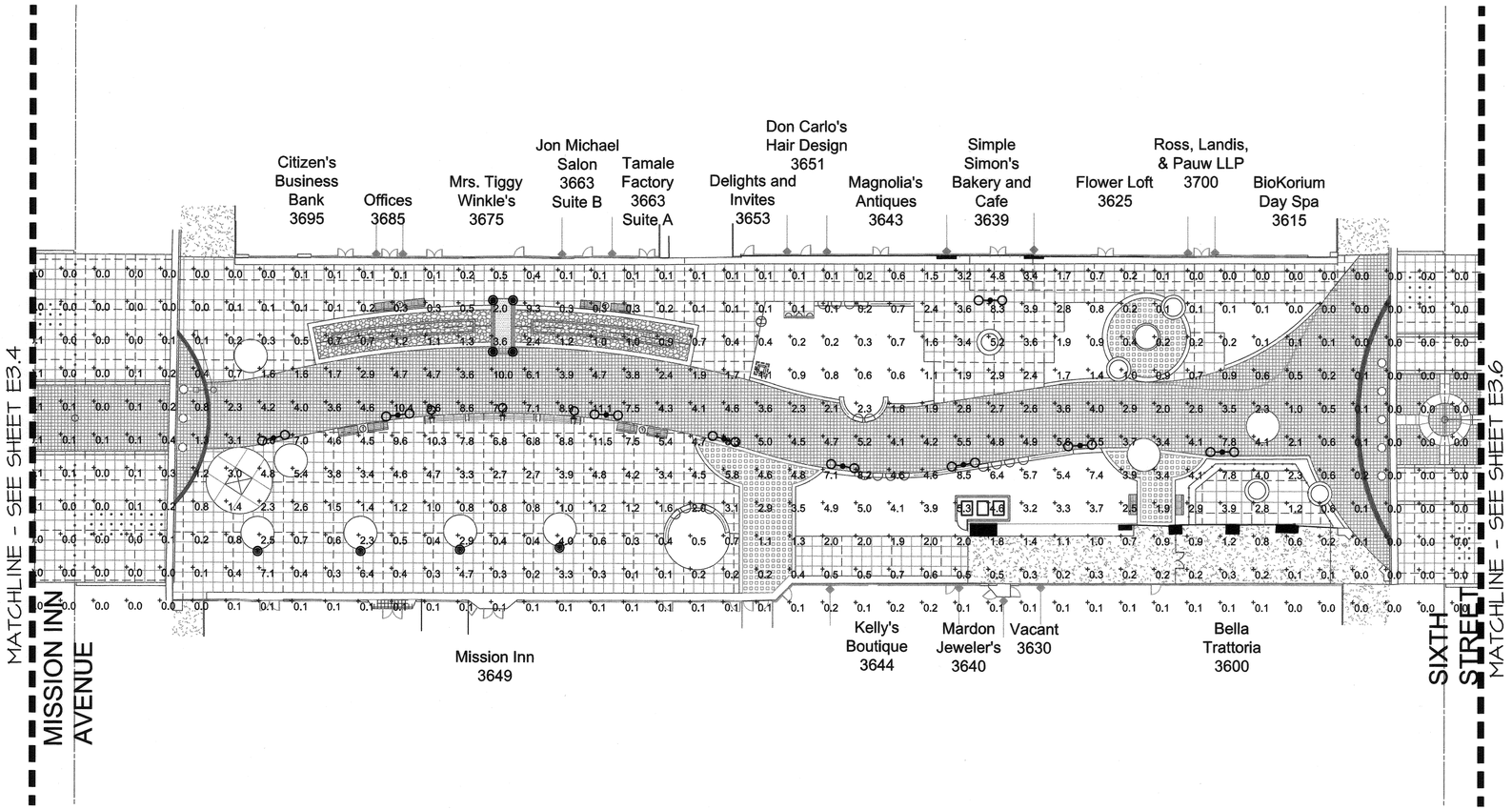

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLAN NOTES

1. IF THE LIGHT FIXTURES THAT ARE SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE, WHICH THIS PHOTOMETRIC STUDY IS BASED ON, IS SUBSTITUTED THE CONTRACTOR SHALL SUBMIT A COMPLETE POINT-BY-POINT FOOTCANDLE PHOTOMETRIC CALCULATION STUDY IN COMPLIANCE WITH THE FOOTCANDLE LEVELS INDICATED ON THIS PLAN.
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1"=20'-0" | 01

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TEL: (909) 941-3006 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL IDAVIDSON@DSLANC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 3041 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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DOWNTOWN MALL
LANDSCAPE PLANS

8-23-2007 12-3-07 1
ELECTRICAL PLAN
E3.5
SHEET 93 OF 100 98 1

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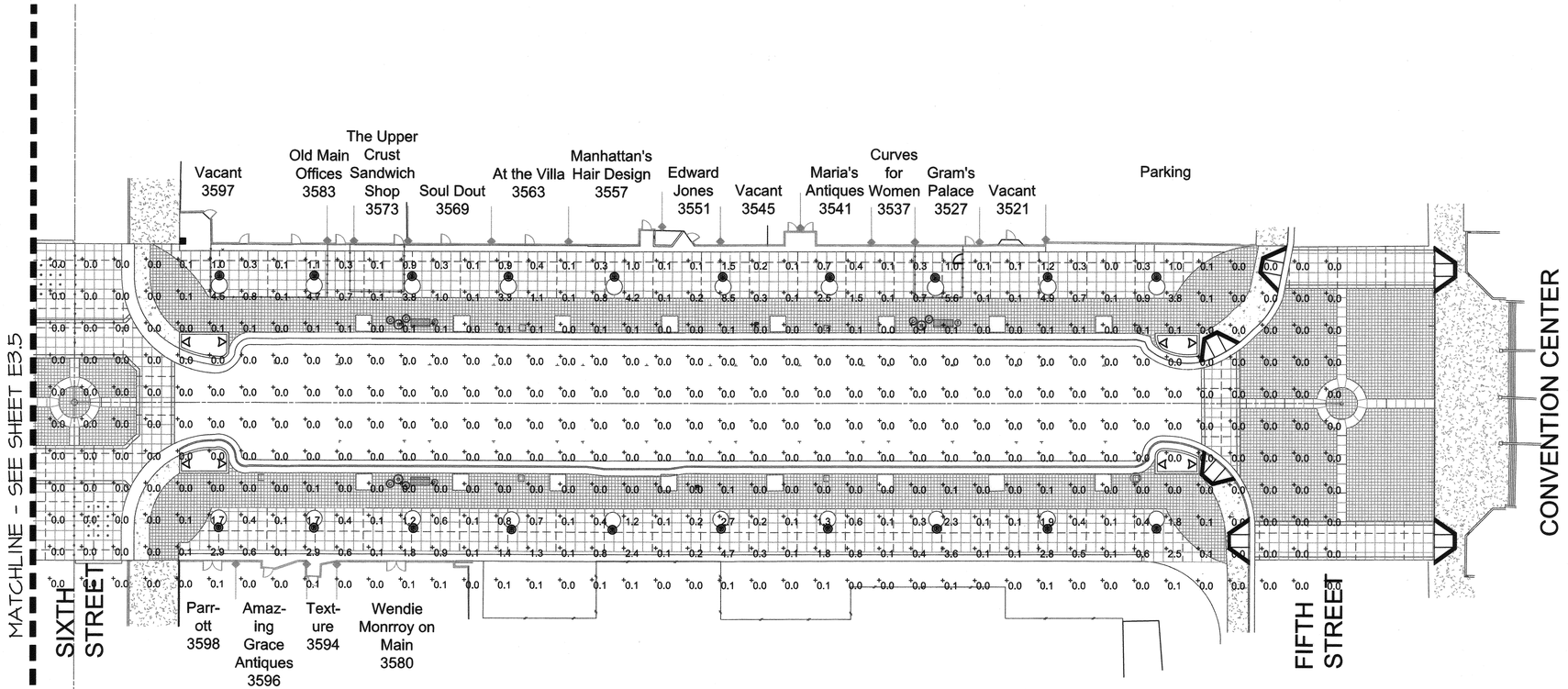

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PLAN NOTES

1. IF THE LIGHT FIXTURES THAT ARE SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE, WHICH THIS PHOTOMETRIC STUDY IS BASED ON, IS SUBSTITUTED THE CONTRACTOR SHALL SUBMIT A COMPLETE POINT-BY-POINT FOOTCANDLE PHOTOMETRIC CALCULATION STUDY IN COMPLIANCE WITH THE FOOTCANDLE LEVELS INDICATED ON THIS PLAN.
2. THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINARIE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.
3. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

PARTIAL POINT-BY-POINT FOOTCANDLE PHOTOMETRIC STUDY

1"=20'-0" | 01

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TEL: (909) 941-3006 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA. 92501
951 683 1283 . FAX 951 683 4393
E-MAIL: IDAVIDSON@DLARC.COM

REGISTERED LANDSCAPE ARCHITECT IAN J. DAVIDSON No. 4191 Signature 6/30/09 Exp. Date STATE OF CALIFORNIA

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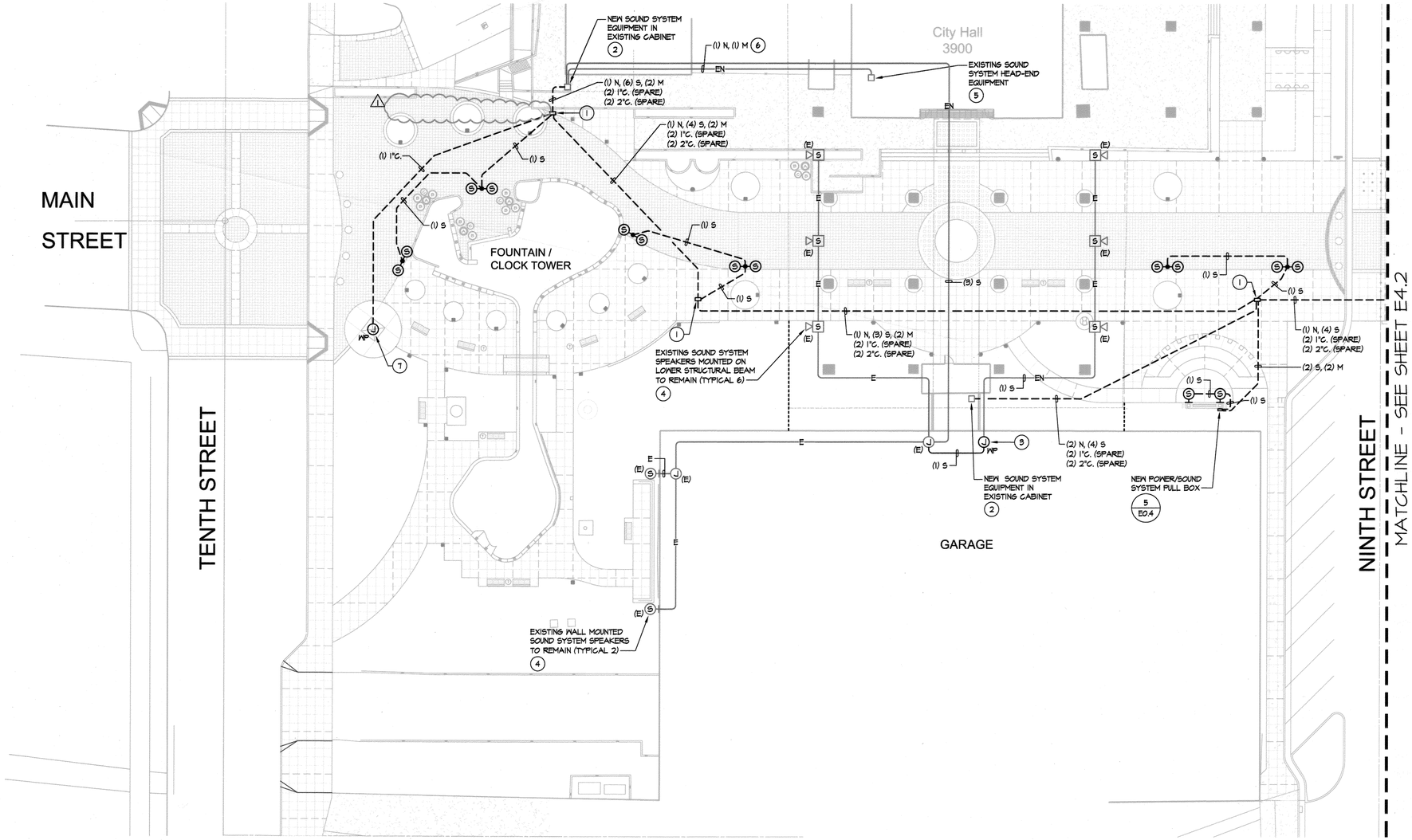
DOWNTOWN MALL
LANDSCAPE PLANS

~~8-23-2007~~ 12-3-07 1
ELECTRICAL PLAN
E3.6
SHEET 94 OF ~~98~~ 100 1

M-457



PLAN NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 13" X 24" X DEPTH AS REQUIRED UNDERGROUND PULL BOX COMPLETE WITH BOLT DOWN CONCRETE COVER TO READ "SOUND SYSTEM". SPLICES WITHIN UNDERGROUND PULL BOXES FOR LOW VOLTAGE CABLING IS NOT ALLOWED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING SOUND SYSTEM CABINET IN PLACE. HE SHALL PROVIDE AND INSTALL NEW SOUND SYSTEM EQUIPMENT IN EXISTING CABINET TO FEED THE SPEAKERS INDICATED. THE CONTRACTOR SHALL MAKE ALL MODIFICATIONS NECESSARY TO THE EXISTING CABINET TO ACCOMMODATE FOR THE NEW EQUIPMENT AND CONDUITS BEING INSTALLED. PROVIDE ALL REQUIRED MATERIALS AND MAKE ALL FINAL TERMINATIONS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM.
3. THE CONTRACTOR SHALL INTERCEPT THE EXISTING CONDUIT SYSTEM WITH A NEW WEATHERPROOF JUNCTION BOX AND EXTEND NEW CONDUIT AND CABLING AS INDICATED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE EXISTING SOUND SYSTEM SPEAKERS IN PLACE. HE SHALL TERMINATE THE EXISTING CABLING TO THE NEW SOUND SYSTEM EQUIPMENT BEING INSTALLED. WHERE EXISTING CABLING IS NOT ADEQUATE OR DAMAGE, THE CONTRACTOR SHALL PROVIDE NEW CABLINGS AS REQUIRED AND MAKE ALL FINAL TERMINATIONS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM. EXACT ROUTING OF CONDUIT AND CABLING SHALL BE FIELD VERIFIED AND INDICATED ON THE AS-BUILT DRAWINGS.
5. EXISTING SOUND SYSTEM HEAD-END EQUIPMENT TO REMAIN IN PLACE. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW NETWORKING EQUIPMENT INDICATED IN THE SPECIFICATIONS AND MAKE ALL FINAL TERMINATIONS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM.
6. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT ROUTING OF THE EXISTING CONDUIT SYSTEM THAT CONNECTS THE EXISTING SOUND SYSTEM HEAD-END EQUIPMENT TO THE REMOTE SOUND SYSTEM EQUIPMENT. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERABLE SYSTEM. EXACT ROUTING OF EXISTING CONDUIT SYSTEM SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
7. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CONDUIT STUB-UP IN THE FIELD WITH THE KIOSK MANUFACTURER. HE SHALL MAKE ALL REQUIRED ADJUSTMENTS NECESSARY.
8. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF NEW JUNCTION BOXES AND NEW PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT ROUTING, NEW JUNCTION BOX AND NEW PULL BOX LOCATIONS SHALL BE ROUTED AND LOCATED IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES.
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10. REFER TO GENERAL NOTES, SHEET E0.1, FOR ADDITIONAL REQUIREMENTS.

SOUND SYSTEM CABLING AND CONDUIT LEGEND			
CABLING QUANTITY	CABLING DESIGNATION	CABLING DESCRIPTION	MINIMUM CONDUIT SIZE
1 - 2	S	14/2 STRANDED SHIELDED	3/4" PVC *
3	S	14/2 STRANDED SHIELDED	1" PVC *
4 - 6	S	14/2 STRANDED SHIELDED	1 1/4" PVC *
1 - 3	M	18/2 STRANDED SHIELDED	3/4" PVC *
4 - 5	M	18/2 STRANDED SHIELDED	1" PVC *
1 - 2	N	6 STRAND FIBER OPTIC	2" PVC *

EXAMPLE: (3) S, (2) M — QUANTITY OF CABLES; CABLE DESIGNATION

ABOVE EXAMPLE "(3) S, (2) M" MEANS "3-14/2 (SPEAKER) AND 2-18/2 (MICROPHONE) CABLES"

NOTE: ALL CABLES SHALL BE RATED FOR UNDERGROUND USE.

* - ALL CONDUITS SHALL BE PROVIDED WITH A 3/16" PULL ROPE, TAGGED AND IDENTIFIED WITH THE LOCATION OF TERMINATION.

NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL SOUND SYSTEM RENOVATION SITE PLAN

1"=20'-0" | 01

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TEL: (909) 941-3008 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4352
E-MAIL: IDAVIDSON@OLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	3/20/08 - PHASE 1 CONSTRUCTION PHASE	MWK	3-26-08
2	RE-NUMBERED SHEET. SUPPL. CODES SHT E4.1	MWK	3-26-08

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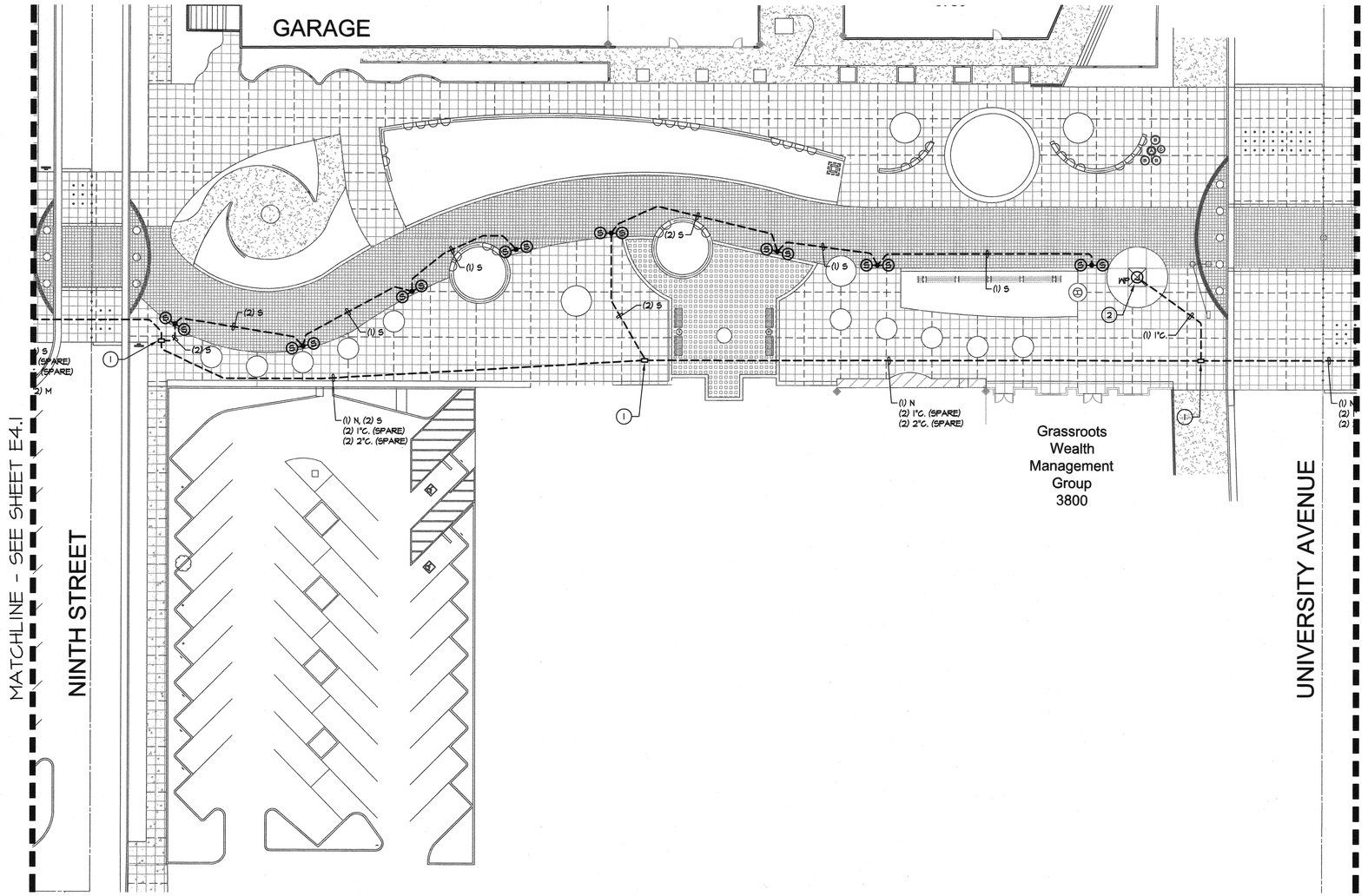
DATE 3/26/08

DOWNTOWN MALL
LANDSCAPE PLANS

03-20-2008

ELECTRICAL PLAN
E4.1A

SHEET 95 OF 99



SCALE 1"=20'

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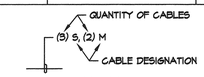
1 - 2	N	6 STRAND FIBER OPTIC	2" PVC *

EXAMPLE:



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PARTIAL SOUND SYSTEM RENOVATION SITE PLAN

1"=20'-0" | 01

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TEL: (909) 941-3006 FAX (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 - FAX 951 683 4302
E-MAIL: IDAVIDSONBDLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 2987 — Signature — 6/30/09 — Exp. 12/08 — STATE OF CALIFORNIA

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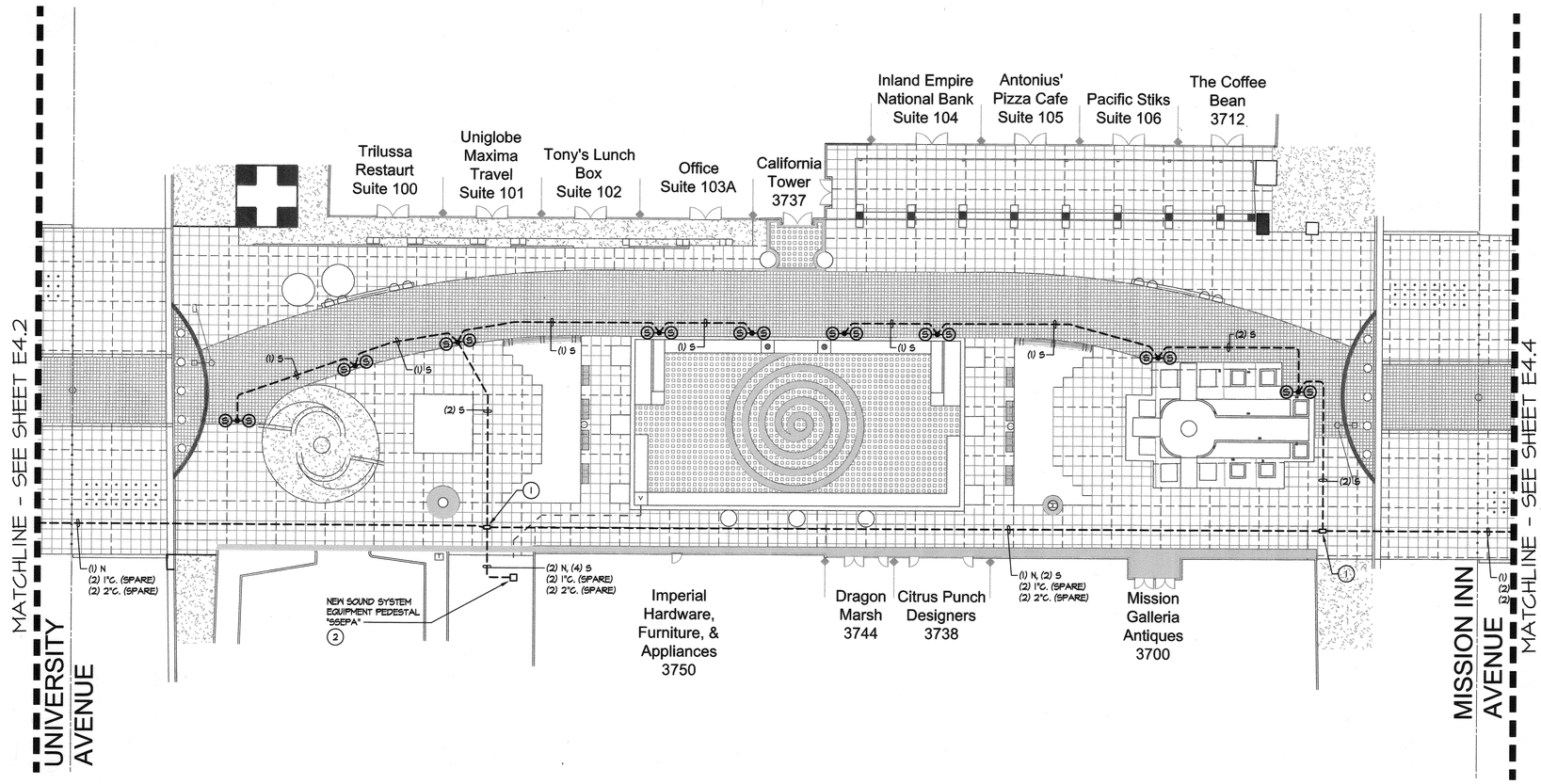
DOWNTOWN MALL
LANDSCAPE PLANS

12-3-07 (8-23-2007) 1

ELECTRICAL PLAN
E4.2
SHEET 96 OF 100 (98) 1

M-457



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NORTH

40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

PARTIAL SOUND SYSTEM RENOVATION SITE PLAN

1"=20'-0" | 01

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951 683 1283 FAX 951 683 4382
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REGISTERED LANDSCAPE ARCHITECT — IAN A. DAVIDSON — No. 3887 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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DOWNTOWN MALL LANDSCAPE PLANS

12-3-07 A
ELECTRICAL PLAN
E4.3
SHEET 97 OF 98 100 A

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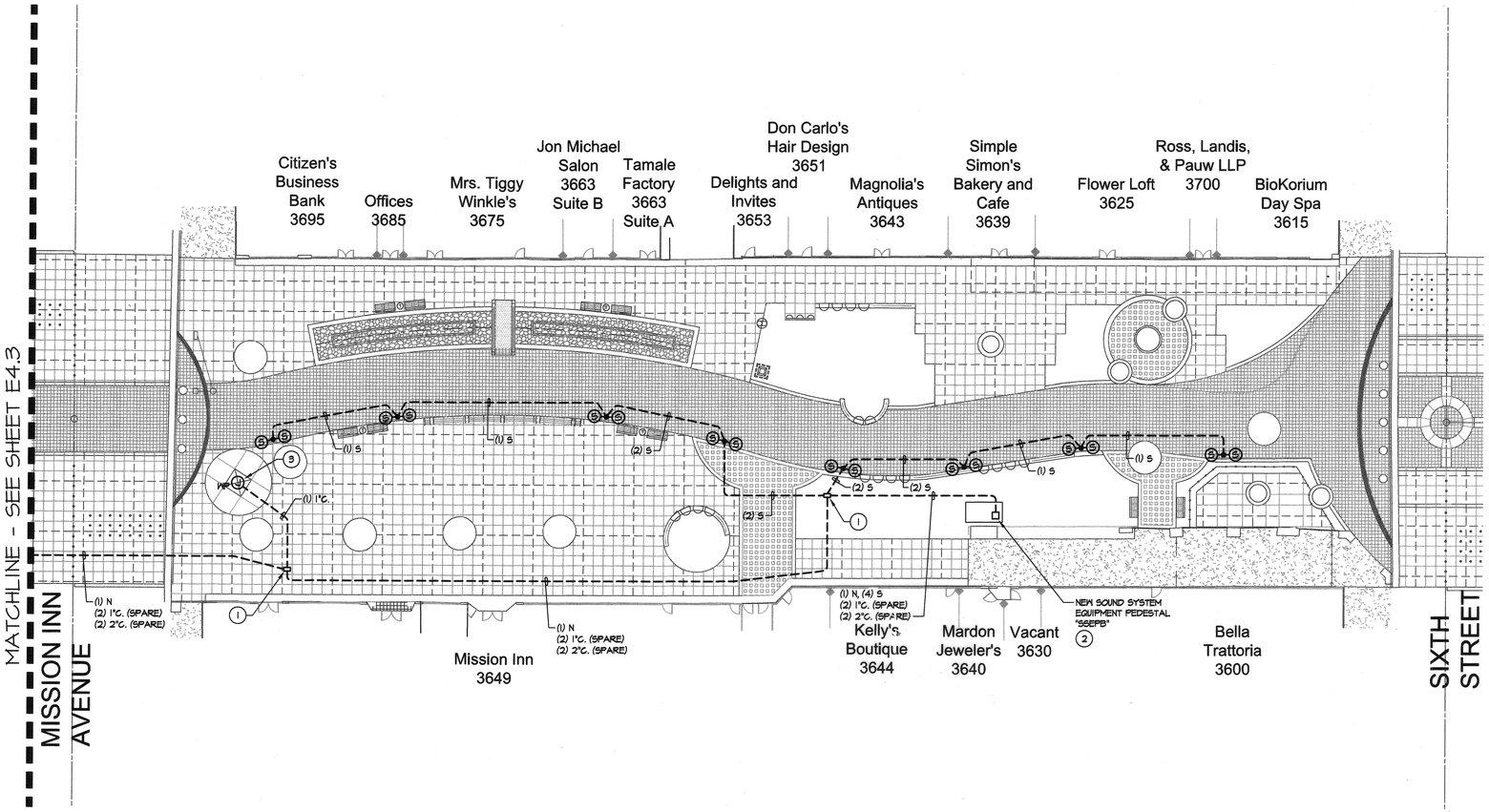

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40' 30' 20' 10' 0 20' 40'

SCALE 1"=20'

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PARTIAL SOUND SYSTEM RENOVATION SITE PLAN

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TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1283 - FAX 951.683.4382
E-MAIL: IDAVIDSON@DLAINC.COM

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

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DOWNTOWN MALL LANDSCAPE PLANS

12-3 8-23-2007 4

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SHEET 98 OF 98 4

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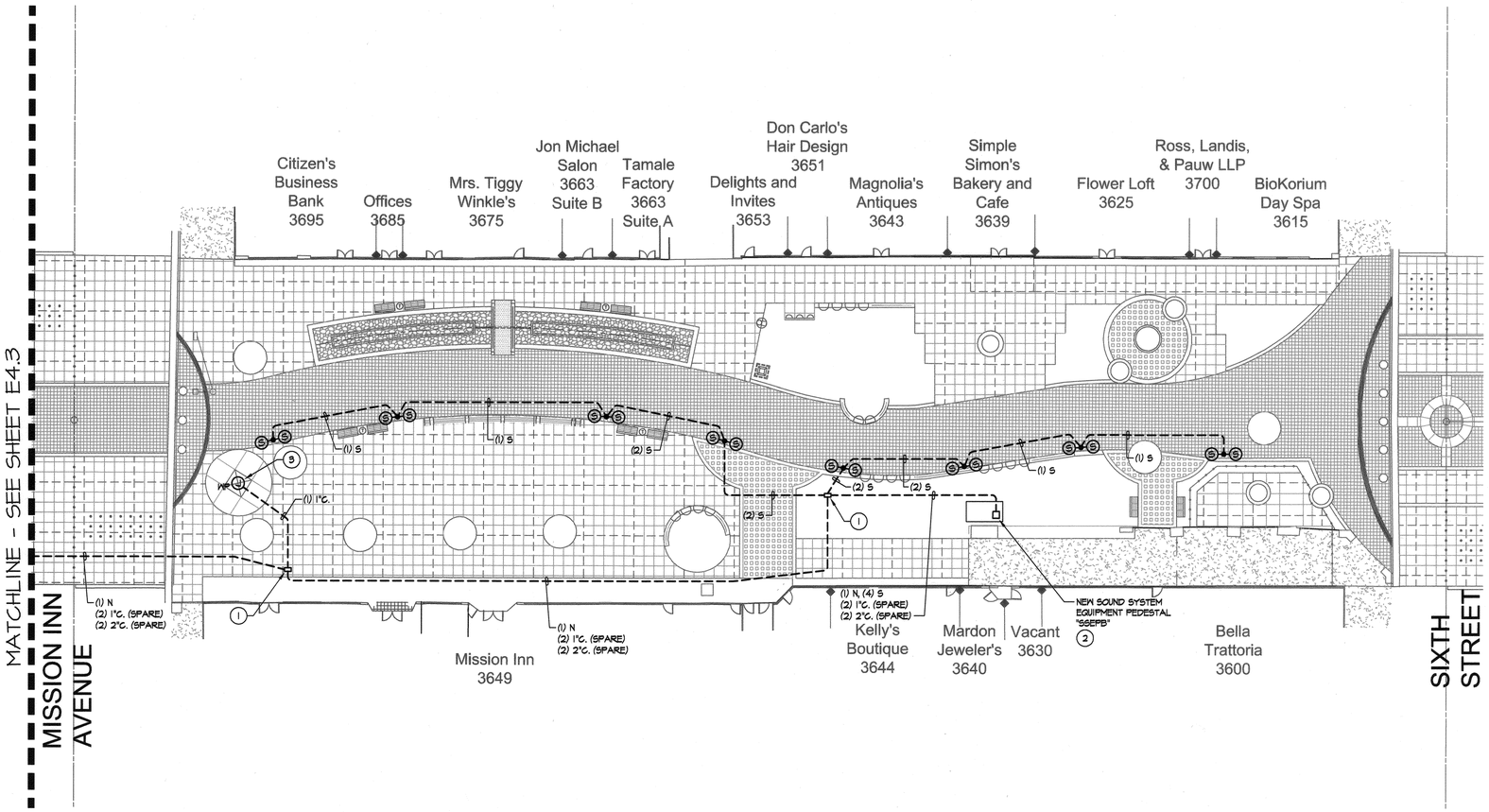

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1"=20'-0" | 01

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9333 BASELINE RD., SUITE 100, RANCHO CUCAMONGA, CA 91730
TEL: (909) 941-3008 FAX: (909) 941-8211

Ian Davidson, Landscape Architecture
3744 10TH STREET
RIVERSIDE, CA 92501
951.683.1393, FAX 951.683.4352
E-MAIL: IDAVIDSON@SBCGLOBAL.NET

REGISTERED LANDSCAPE ARCHITECT — IAN J. DAVIDSON — No. 2987 — Signature — 6/30/09 Exp. Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	RENUMBERED SHEET		12-03-07

DESIGNED BY MWK DRAWN BY MWK CHECKED BY RES

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.		
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

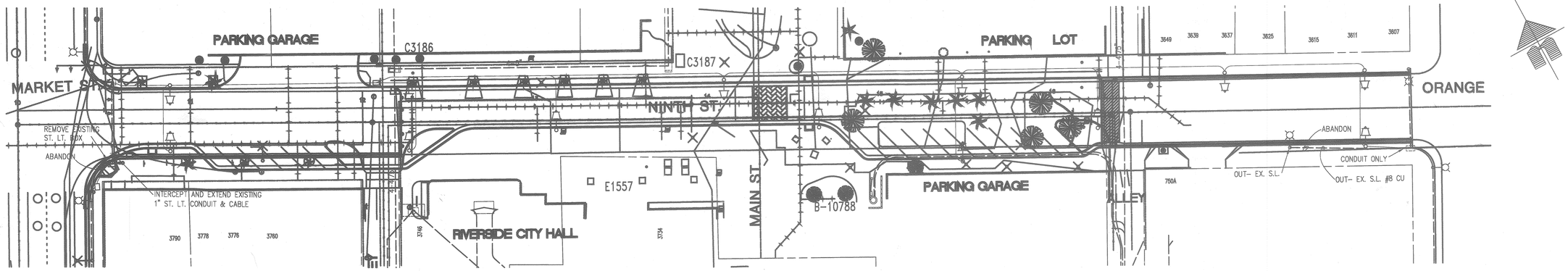
APPROVED BY _____ CITY ENGINEER
DATE 12/5/07

DOWNTOWN MALL
LANDSCAPE PLANS

12-03-2007

ELECTRICAL PLAN
E4.4
SHEET 99 OF ~~99~~ 100

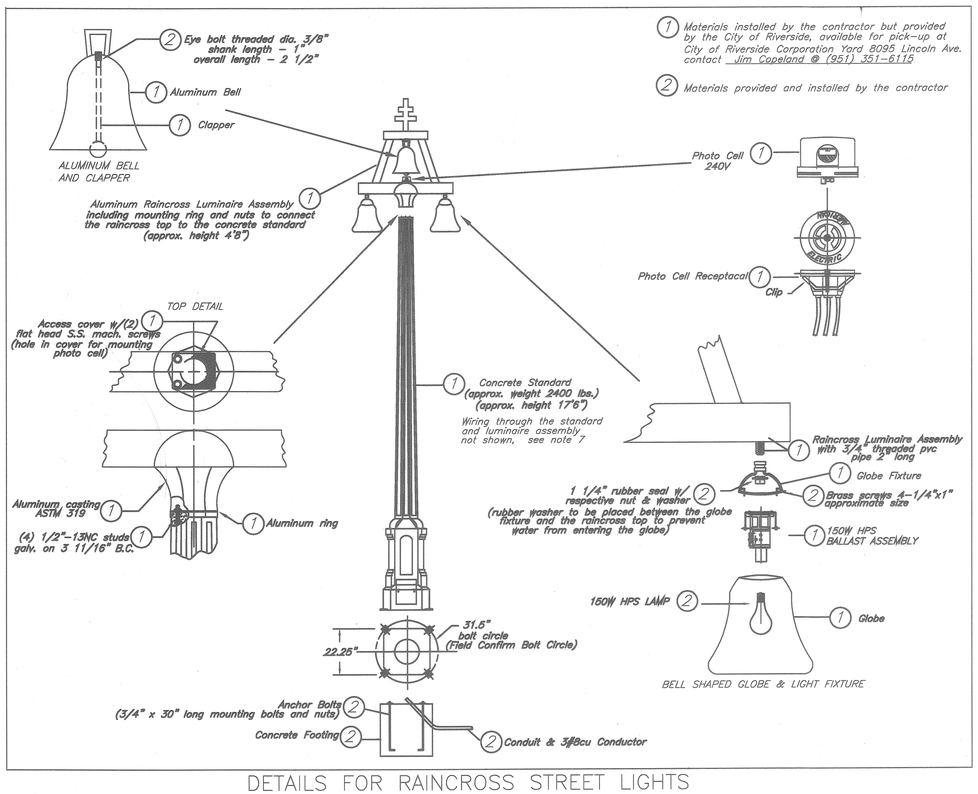
M-457



STREET LIGHT NOTES

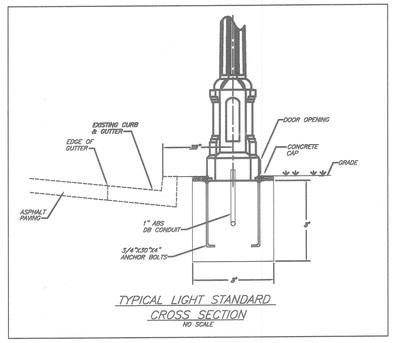
1. ALL FACILITIES INSTALLED BY DEVELOPER SHALL BE INSPECTED AND APPROVED BY THE DEPARTMENT CONSTRUCTION INSPECTOR (951 826-2415). ANY CHANGES SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION WITH THE DEPARTMENT CONSTRUCTION INSPECTOR.
2. PROVIDE AND INSTALL ALL STREET LIGHT FACILITIES SHOWN INCLUDING STREET LIGHT CABLE, IN CONFORMANCE WITH THE FOLLOWING STANDARD DRAWINGS: UGS-100, UGS-800 RC & STREET LIGHT SPECIFICATION #2-6.
3. EXCAVATION FOR STREET LIGHT CONDUIT & ELECTROLIER FOUNDATIONS MUST BE DONE AFTER INSTALLATION OF CURBS & GUTTERS, BUT BEFORE INSTALLATION OF CURB RETURNS WITH SPANDRELS, CROSS GUTTERS, SIDEWALKS, AND DRIVE APRONS.
4. INSTALL A WATERPROOF "IN-LINE" FUSE HOLDER ON THE PHASE LEG CONDUCTOR(S) IN THE BASE OF EACH STREET LIGHT STANDARD. FUSE HOLDER TO BE "BUSSMAN TRON" #HEB COMPATIBLE WITH SIZE AND TYPE OF WIRE WITH A "BUSSMAN" FNM 10 AMP 250V FUSE OR APPROVED EQUAL.
5. MARK INSTALLATION DATE ON PHOTO CONTROLS AND LAMPS AS PROVIDED FOR BY MANUFACTURER.
6. ACQUIRE A STREET OPENING PERMIT PRIOR TO EXCAVATING IN STREET RIGHT-OF-WAY.
7. THIS PLAN IS ACCURATE FOR STREET LIGHT FACILITIES ONLY. SEE STREET IMPROVEMENT PLAN R-3922 FOR STREET IMPROVEMENT DETAILS.
8. ALL STREET LIGHT FEED POINTS TO BE CONNECTED BY PUBLIC UTILITIES AND ENERGIZED WHEN CLEARED BY DEPARTMENT INSPECTOR.
9. STREET LIGHT SERVICE POINTS ARE 3 WIRE, 240V SYSTEM. THE THIRD STREET LIGHT WIRE IS TO BE USED AS A BOND WIRE ONLY, AS NOTED IN SPECIFICATION # 2-6. FEED POINTS TO BE CONFIRMED AT THE TIME OF CONSTRUCTION.
10. ALL CABLE TO BE AWG. #8 COPPER AS SPECIFIED IN STREET LIGHT SPECIFICATION #2-6 (STREET LIGHT CABLE).
11. CONDUIT AND FITTINGS TO BE IN CONFORMANCE WITH UGS-100. BACKFILL TO BE TYPE AND COMPACTED AS SPECIFIED IN UGS-100.1.
12. STREET LIGHT DOOR OPENING TO FACE SIDEWALK.
13. ALL CONTRACTORS WORKING ON OR AROUND THE DEPARTMENT'S UNDERGROUND ELECTRICAL FACILITIES MUST HAVE THE PROPERLY QUALIFIED PERSONNEL AND EQUIPMENT TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO ESTABLISH AND MAINTAIN A SAFE WORKING ENVIRONMENT INCLUDING, BUT NOT LIMITED TO WORK AROUND ENERGIZED HIGH VOLTAGE FACILITIES, GAS TESTING OF CONFINED SPACES, TRAFFIC AND PROTECTION. THE DEPARTMENT'S POLICY IS TO PROVIDE ONE (1) QUALIFIED OBSERVER AFTER 24 HOURS NOTICE, TO STAND BY DURING WORK AND PROVIDE RADIO CONTACT WITH CITY OPERATIONS CONTROL. EVERY ENTRY BY ANY PERSONNEL INTO A PUBLIC UTILITIES HIGH VOLTAGE STRUCTURE WILL REQUIRE THE PRESENCE OF A QUALIFIED ELECTRICAL WORKER IN ACCORDANCE WITH Cal/OSHA. ALL DEVELOPERS AND CONTRACTORS ARE REQUIRED TO SUBMIT REQUIRED DOCUMENTATION AND FOLLOW REQUIRED PROCEDURES. COPIES OF THE POLICY AND DOCUMENTS MAY BE OBTAINED AT 3900 MAIN ST. RIVERSIDE, CA OR AT WWW.RIVERSIDEPUBLICUTILITIES.COM
14. THE CITY OBSERVER HAS THE AUTHORITY TO STOP THE CONTRACTOR'S WORK IF HE DETERMINES THAT ADEQUATE SAFETY PRECAUTIONS ARE NOT BEING TAKEN. HOWEVER, THE PRESENCE OF THE CITY OBSERVER DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR INSURING SAFE AND APPROPRIATE WORK PRACTICES.

CONTACT ENGINEER- CHRIS BARNES (951) 826-5911



DETAILS FOR RAINCROSS STREET LIGHTS

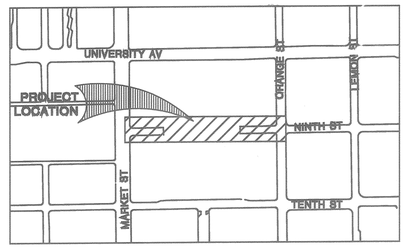
NINTH ST.



TYPICAL LIGHT STANDARD CROSS SECTION
NO SCALE

STREET LIGHT LEGEND

- STREET LIGHT PULL BOX (10"X17"X12") PER ITEM P-1 OF UGS-800, INSTALL PER UGS-320
- RAINCROSS CONCRETE DECORATIVE LIGHTING PER RAINCROSS LIGHTING REQUIREMENTS, UGS-800 RC.
- 1" SCH 40 CONDUIT WITH 3 #8 CU 600V CABLES UNLESS NOTED OTHERWISE.
- EXISTING FACILITIES



UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET
RIVERSIDE, CA 92501
951 683 1283 . FAX 951 683 4703
E-MAIL: IDAVIDSON@IDLA-INC.COM

REGISTERED LANDSCAPE ARCHITECT IAN A. DAVIDSON 4028 Signature 8/30/09 Exp. Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	REPLACE PLAN SHEET	IAD	12-05-07

DESIGNED BY ID DRAWN BY JM / MA CHECKED BY ID

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

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DOWNTOWN MALL
LANDSCAPE PLANS

12/05/07

NINTH ST. LIGHTS
M-457

SHEET 100 OF 100

BID SET

M-457