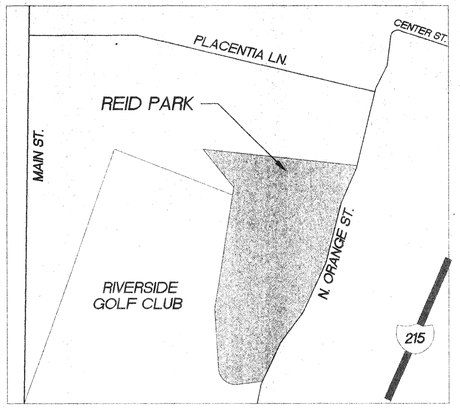
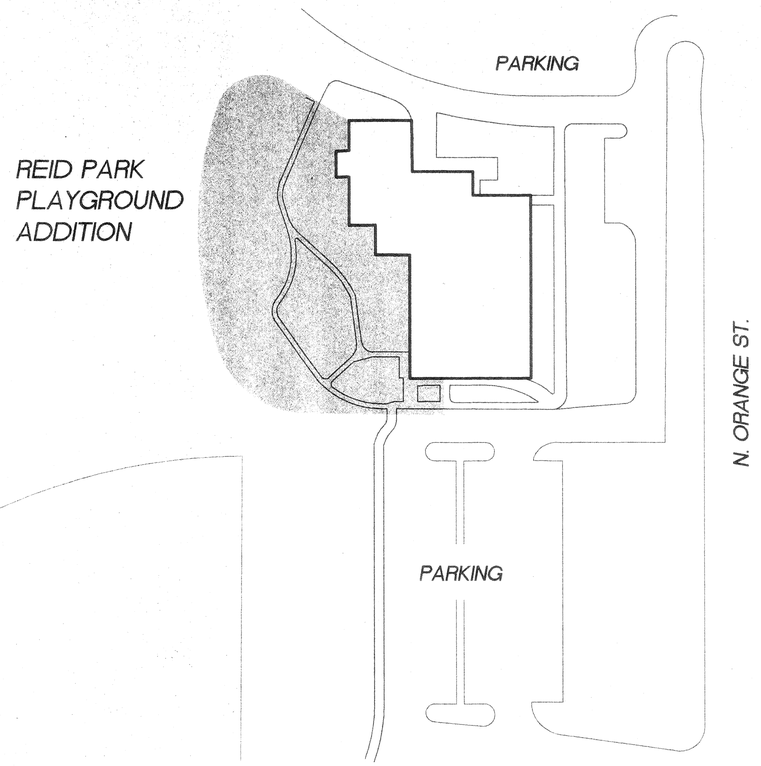
SHEET INDEX MAP:





NORTH

N.T.S

PROJECT:

REID PARK PLAYGROUND IMPROVEMENTS

PREPARED FOR:

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522
PHONE: (909)715-3470
FAX: (909)715-3467
CONTACT: ANDREW EMERY

SHEET INDEX:

	COVER		
D-1	DEMOLITION PLAN	E-1	ELECTRICAL PLAN
G-1	GRADING PLAN	E-2	ELECTRICAL SITE PLAN
S-1	STAKING PLAN	L-1	IRRIGATION PLAN
C-1	CONSTRUCTION PLAN	L-2	PLANTING PLAN
C-2	CONSTRUCTION DETAILS	L-3	LANDSCAPE DETAILS
C-3	PLAYGROUND EQUIPMENT		

AGENCY SUBMITTAL:

COMMUNITY WORKS DESIGN GROUP

3780 University Ave.
Suite #175
Riverside, CA 92501

JDSA
ELECTRICAL • ENERGY CONSULTANT
JDSA JOB NUMBER 99-498
CONTACT NAME JIM CORNS
3780 Twelfth Street • Suite B • Riverside, CA. 92501
Telephone (909) 787-1957 • Fax (909) 787-8602

CITY OF RIVERSIDE
SET ___ OF ___ SUBMITTAL DATE: Jul 12, 1999
ADDRESS....:801 ORANGE ST
PC #: 99-2516
LOCATION....:
APPLICANT..: CITY OF RIVERSIDE
PHONE #....: 909 815-3470
DESCRIPTION: REID PARK PLAYGROUND
FUND TRANSFER: 7717052203-44030101-598905
PLAN CHECK BIN #: 1-N
SUBMITTAL..: 1ST 2ND 3RD 4TH

EXISTING ASH TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

EXISTING ASH TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

EXISTING ASH TO BE REMOVED

EXISTING CA SYCAMORE TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

EXISTING CALIFORNIA SYCAMORE TO REMAIN PROTECT IN PLACE

EXISTING CALIFORNIA SYCAMORE TO REMAIN PROTECT IN PLACE

EXISTING CALIFORNIA SYCAMORE TO REMAIN PROTECT IN PLACE

APPROXIMATE LOCATION OF EXISTING REMOTE CONTROL ELECTRIC VALVE TO BE REMOVED (TYPICAL).

APPROXIMATE LOCATION OF EXISTING SPRINKLER HEAD TO BE REMOVED (TYPICAL).

EXISTING TRASH RECEPTACLE TO BE REMOVED/ TURNED OVER TO PARKS & REC. DEPT.

EXISTING WALKWAY TO BE REMOVED AND DISPOSED OF OFF SITE IN A LEGAL MANNER.

SAWCUT EXISTING CONCRETE WALKWAY

EXISTING WALKWAY TO REMAIN (TYP.)

EXISTING EVERGREEN PEAR TO REMAIN PROTECT IN PLACE

EXISTING ELECTRICAL TRANSFORMER PROTECT IN PLACE

EXISTING SEWER LIFT STATION PROTECT IN PLACE

EXISTING IRRIGATION PUMP PROTECT IN PLACE

EXISTING CA SYCAMORES TO REMAIN, PROTECT IN PLACE

EXISTING CORK OAK TO REMAIN PROTECT IN PLACE

EXISTING WALKWAY TO REMAIN (TYP)

EXISTING WALKWAY TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

SAWCUT EXISTING CONCRETE WALKWAY

SAWCUT EXISTING CONCRETE WALKWAY

EXISTING SCREEN WALL PROTECT IN PLACE

EXISTING WALKWAY TO REMAIN (TYP)

EXISTING WALKWAY TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

EXISTING WALKWAY TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER

SAWCUT EXISTING CONCRETE WALKWAY

EXISTING TOP RAIL OF HANDRAILS TO BE REMOVED, SEE SHEETS C-1, C-2

EXISTING CONCRETE; SAWCUT AND REMOVE, COORD. LOCATION WITH EXISTING D.W. IN PLUMBING CHASE WITHIN RESTROOM, SEE GRADING PLAN, G-1.

EXISTING JAPANESE PRIVET TO REMAIN (TYP. OF 7) PROTECT IN PLACE

EXISTING WALKWAY TO REMAIN (TYP)

THERE ARE SIX (6) EXISTING STATIONS THAT CURRENTLY IRRIGATE THIS AREA (STATIONS 9-14). REMOVE THE HEADS AS NOTED AND ALL SIX VALVES ASSOCIATED WITH THESE SIX STATIONS AND INSTALL SIX NEW SYSTEMS AS SHOWN ON THESE PLANS. NOTE THAT NEW STATIONS 9 AND 10 WILL HAVE EXISTING HEADS RECONNECTED TO THE NEW VALVES. EXTEND NEW CONTROL WIRES AS NECESSARY FROM NEW VALVE LOCATIONS AND WIRE NEW VALVES TO SAME SIX STATIONS ON CONTROLLER. VERIFY ALL EXISTING CONDITIONS AND LOCATIONS IN THE FIELD WITH KNOWLEDGEABLE CITY STAFF. ALL REMOVED ITEMS SHALL BE TURNED OVER TO THE CITY. ADJUST THE NEW AND EXISTING SYSTEMS AS NECESSARY TO PROVIDE 100% COVERAGE TO ALL PLANTED AREAS.

APPROXIMATE LOCATION OF EXISTING SPRINKLER HEAD TO REMAIN PROTECTED IN PLACE (TYPICAL).

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(909) 369-0700
Fax: (909) 369-4039
e-mail: comworks@pe.net
http://www.pe.net/comworks

REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO. 2110 Signature Date STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 11/30/99

SCALE: 1"=10'-0"
NORTH:
DATE: 8/13/99

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

BENCHMARK

MARK	REVISIONS	APPR.	DATE

DESIGNED BY WGW DRAWN BY WGW CHECKED BY CCG

CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

Demolition Plan

PROJECT NO. 981052
D-1
SHEET 2 OF 12
FILE NO.

SYMBOL	DESCRIPTION
	EXISTING CONTOUR
	PROPOSED CONTOUR
S	EXISTING SEWER LINE
PS	PROPOSED SEWER LINE (2" PVC)
DW	EXISTING DOMESTIC WATER LINE
PW	PROPOSED WATER LINE (1" PVC)
E	EXISTING ELECTRICAL LINE
FS	FINISH SURFACE
FG	FINISH GRADE
TW	TOP OF WALL

LIMIT OF WORK

826

827

828

829

830

FS 27.90

LANDINGS NOT TO EXCEED 2% ANY DIRECTION (TYP.)

FS 27.92

FS 28.18

FG 27.93

FS 28.66

FS 29.34

FG 28.95

FS 29.20

FS 29.44

FS 29.40

2% MAX (TYP.)

TW 30.15 CONSTANT

FS 29.30

FS 29.79 (existing)

FS 29.61

FS 29.32

2% MAX (TYP.)

PW

PS

FG 30.51

FS 31.09

FS 31.08

FS 30.57 (existing)

FS 27.57 (existing)

FS 27.75

EXISTING SCREEN WALL

FS 31.09

INTERCEPT EXISTING D.W. AT RESTROOM CORE THROUGH WALL, REMOVE/REPLACE CONCRETE WALK AS NECESSARY AND TUNNEL UNDER SCREEN WALL, PROTECT NEW EXPOSED WATERLINE WITHIN SLEEVE/CHANNEL ON OUTSIDE OF WALL

FS 31.08

EXISTING RESTROOM

FS 31.10

FS 31.07

DW

NOTES:

- GRADES ACROSS PLAY AREA REPRESENT ELEVATION OF RUBBER MATTING OVER 100% OF THE PLAYGROUND SURFACE.
- CUT/FILL CALCULATIONS ARE AS FOLLOWS; CUT=78cy, FILL=75cy CALCULATIONS ARE FOR THE CONVENIENCE OF THE CITY, CONTRACTOR IS RESPONSIBLE FOR GRADING AS A LUMP SUM

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Date

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RIVERSIDE, CA 92522

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CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

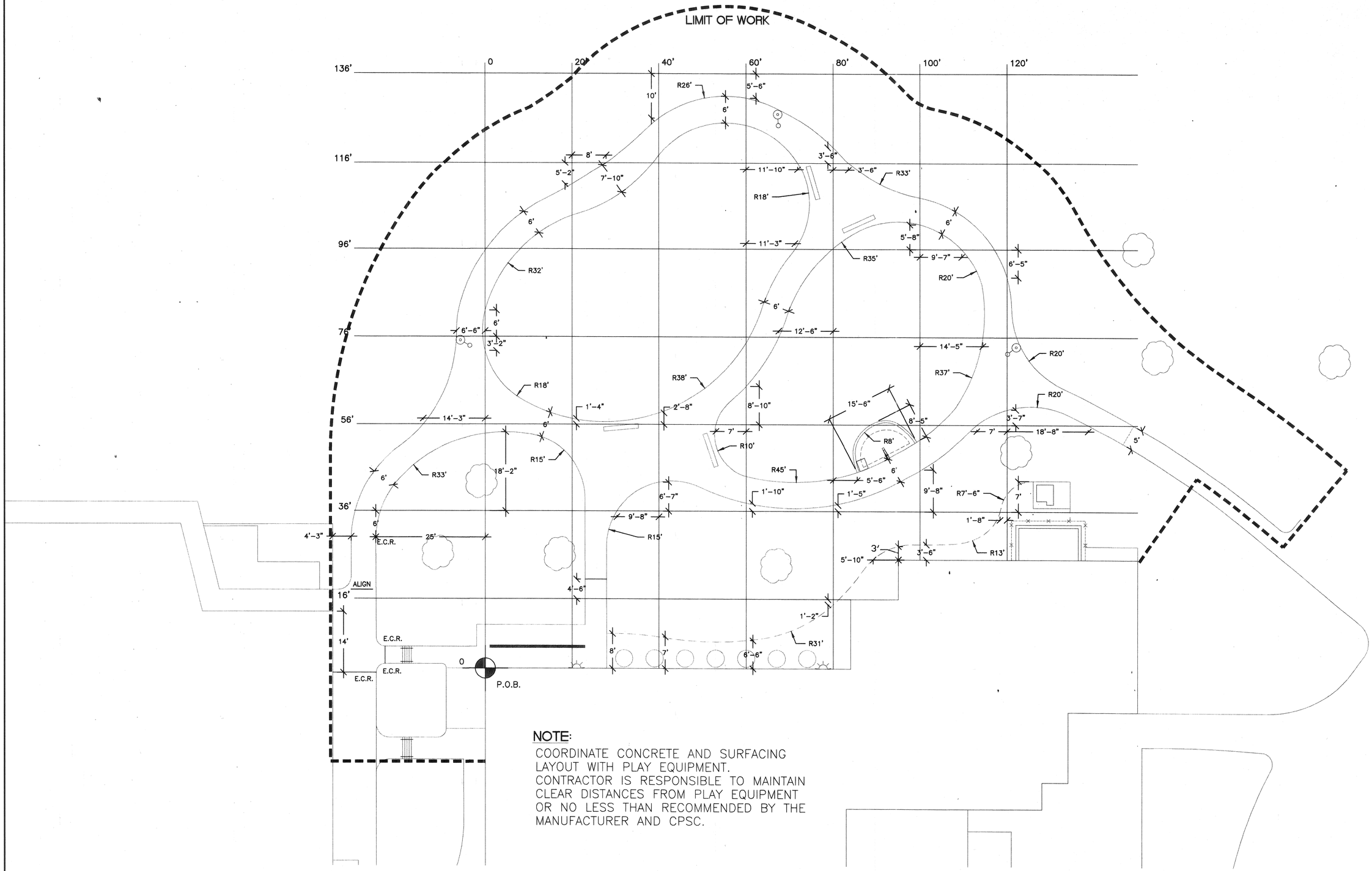
Grading Plan

PROJECT NO. 981052

G-1

SHEET 3 OF 12

FILE NO.



NOTE:

COORDINATE CONCRETE AND SURFACING LAYOUT WITH PLAY EQUIPMENT. CONTRACTOR IS RESPONSIBLE TO MAINTAIN CLEAR DISTANCES FROM PLAY EQUIPMENT OR NO LESS THAN RECOMMENDED BY THE MANUFACTURER AND CPSC.

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PARK & RECREATION DEPARTMENT

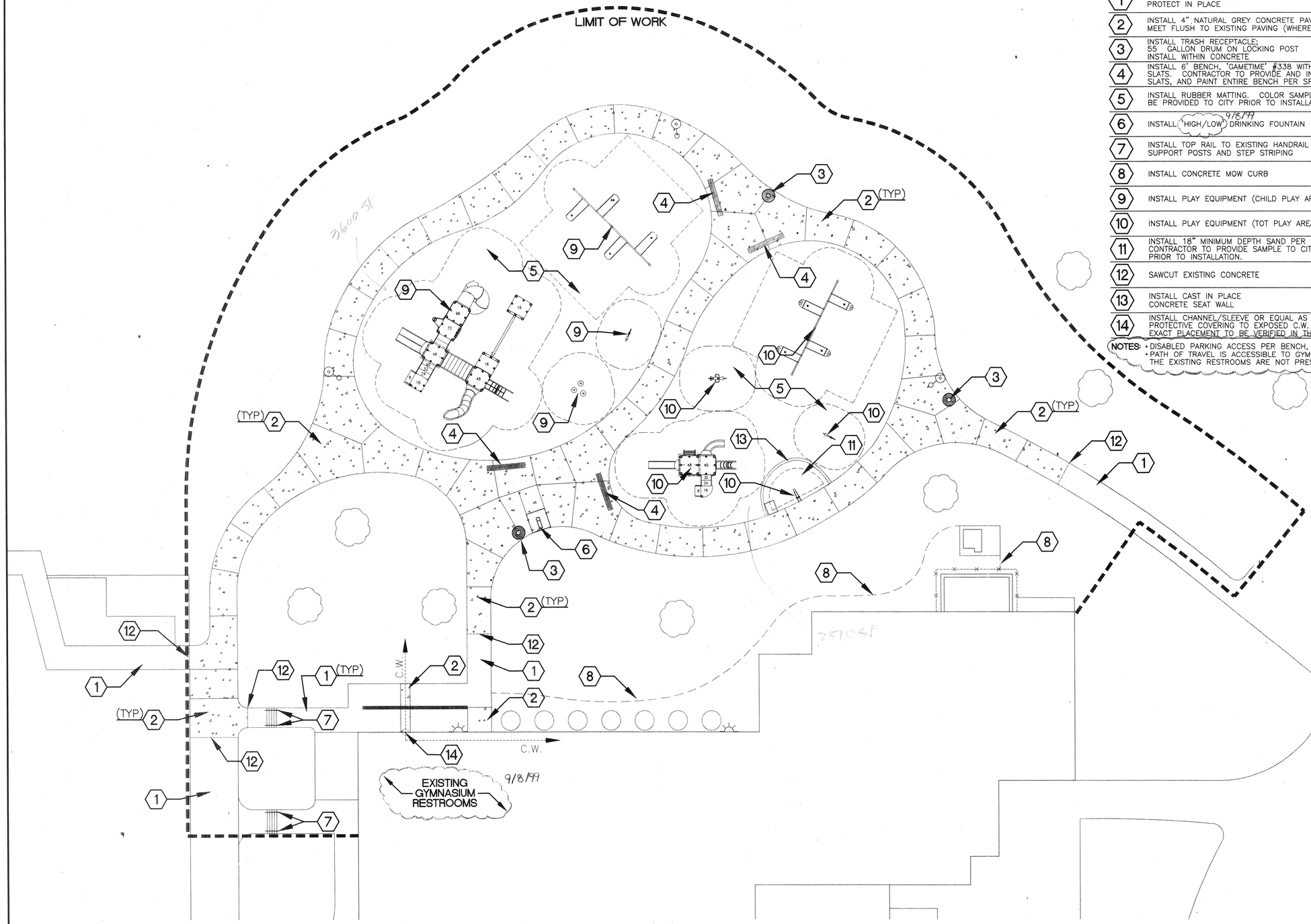
APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

Staking Plan

PROJECT NO. 981052
S-1
SHEET 4 OF 12
FILE NO.



	DESCRIPTION	SUPPLIER	DETAIL
1	EXISTING CONCRETE PAVING PROTECT IN PLACE		
2	INSTALL 4" NATURAL GREY CONCRETE PAVING MEET FLUSH TO EXISTING PAVING (WHERE OCCURS)		DETAIL 'A' SHEET C-2
3	INSTALL TRASH RECEPTACLE; 55 GALLON DRUM ON LOCKING POST INSTALL WITHIN CONCRETE		DETAIL 'L' SHEET L-3
4	INSTALL 6' BENCH, 'GAMETIME' #338 WITHOUT WOOD SLATS. CONTRACTOR TO PROVIDE AND INSTALL SLATS, AND PAINT ENTIRE BENCH PER SPECS	SEAVEY-LEISURE GROUP (800) 543-2232	PER MFG'S. SPECS.
5	INSTALL RUBBER MATTING. COLOR SAMPLES SHALL BE PROVIDED TO CITY PRIOR TO INSTALLATION	SEE SPECIFICATIONS	DETAIL 'B','F' SHEET C-2
6	INSTALL ('HIGH/LOW') DRINKING FOUNTAIN 9/8/99		DETAIL 'D' SHEET C-2
7	INSTALL TOP RAIL TO EXISTING HANDRAIL SUPPORT POSTS AND STEP STRIPING		DETAIL 'E' SHEET C-2
8	INSTALL CONCRETE MOW CURB		DETAIL 'C' SHEET C-2
9	INSTALL PLAY EQUIPMENT (CHILD PLAY AREA)		DETAIL 'A' SHEET C-3
10	INSTALL PLAY EQUIPMENT (TOT PLAY AREA)		DETAIL 'B' SHEET C-3
11	INSTALL 18" MINIMUM DEPTH SAND PER SPECS. CONTRACTOR TO PROVIDE SAMPLE TO CITY PRIOR TO INSTALLATION.		
12	SAWCUT EXISTING CONCRETE		
13	INSTALL CAST IN PLACE CONCRETE SEAT WALL		DETAIL 'B' SHEET C-2
14	INSTALL CHANNEL/SLEEVE OR EQUAL AS A PROTECTIVE COVERING TO EXPOSED C.W. LINE. EXACT PLACEMENT TO BE VERIFIED IN THE FIELD		

NOTES:
- DISABLED PARKING ACCESS PER BENCH, ITEM #4 IS (2)60"x48" AND PATH OF TRAVEL IS 48" (AS SHOWN)
- PATH OF TRAVEL IS ACCESSIBLE TO GYMNASIUM RESTROOMS FOR THE PURPOSE OF FUTURE RENOVATIONS ONLY. THE EXISTING RESTROOMS ARE NOT PRESENTLY OPERATIONAL AND ARE THEREFORE CLOSED TO THE PUBLIC 9/8/99

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REGISTERED LANDSCAPE ARCHITECT
TIMOTHY I. MALONEY NO. 2110
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CITY OF RIVERSIDE
3900 MAIN STREET
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BENCHMARK

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CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

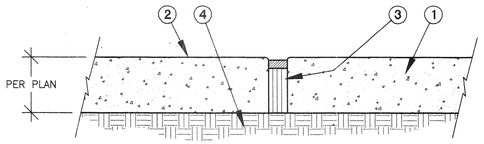
APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

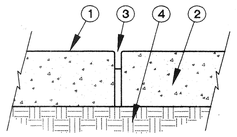
Construction Plan

PROJECT NO. 981052
C-1
SHEET 5 OF 12
FILE NO.



EXPANSION JOINT

1. CONCRETE PAVING PER PLAN
2. MEDIUM BROOM FINISH
3. 1/2" PREMOLD FIBER EXPANSION JOINT @ 20' MAX. SPACING (EXCEPTION: JOINTS ON PERIMETER WALKS @ 50' MAX. SPACING)
4. 90% COMPACTED SUBGRADE

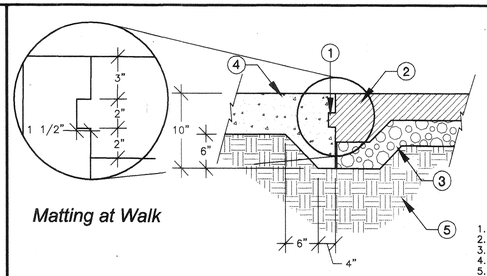


CRACK CONTROL JOINT

1. MEDIUM BROOM FINISH TO MATCH EXISTING
2. CONCRETE PAVING PER PLAN
3. AFTER PRELIMINARY TROWLING, THE CONCRETE SHALL BE SCORED WITH A STRAIGHT EDGE TO A DEPTH OF 3" @10' MAXIMUM SPACING
4. 90% COMPACTED SUBGRADE

NOTES:
WHERE PAVING IS BEING INSTALLED ADJACENT TO EXISTING PAVING, A LAYER OF TAR PAPER SHALL BE PLACED BETWEEN NEW AND EXISTING PAVING PRIOR TO POURING.

A CONCRETE PAVING



Matting at Walk

Matting at Walk

1. RUBBER PLAY SURFACING KEY
2. POURED IN PLACE PLAY MATTING PER SPECS.
3. 4" LAYER OF 3/4" AGGREGATE BASE
4. 4" CONCRETE PAVING PER DETAIL 'A', THIS SHEET
5. 90% RELATIVE COMPACTED SUBGRADE

Matting at Wall

1. SMOOTH TROWEL FINISH AT CONCRETE CURB
2. POURED IN PLACE CONCRETE CURB/RETAINING WALL
3. POURED IN PLACE PLAY MATTING PER SPECS.
4. WRAP #4 REBAR @24" O.C. – ALTERNATE BENDS
5. #4 REBAR CONTINUOUS (TYP. OF 4)
6. 90% RELATIVE COMPACTED SUBGRADE
7. PLAY AREA SAND
8. 4" LAYER OF 3/4" AGGREGATE BASE
9. CONCRETE FOOTING
10. RUBBER PLAY SURFACING KEY, SEE DETAIL AT LEFT

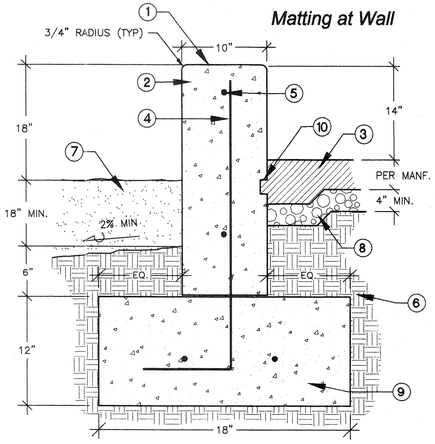
NOTES:
1. EXPANSION JOINTS TO OCCUR @10' MAX. SPACING
2. CONTROL JOINTS TO OCCUR @5' MAX SPACING

Matting Depth/Fall Heights

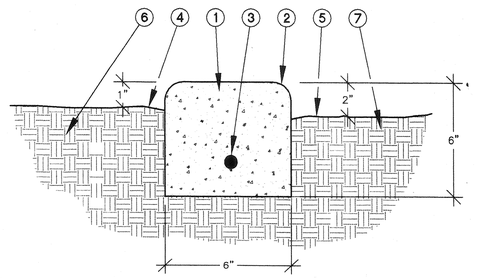
POURED IN PLACE MATTING	G-MAX	H.I.C.
1-1/2"	4'-8"	4'-9"
2"	6'-1"	5'-4"
2-1/2"	8'-0"	6'-11"
2-3/4"	9'-1"	7'-7"
3"	10'-6"	9'-6"

NOTES: FOR EQUIPMENT HEIGHTS, SEE SHEET C-3
'G-MAX' =TEST FOR BODY FALL
'H.I.C.' =HEAD INJURY CRITERIA

Matting at Wall



B PLAY SURFACING MATTING

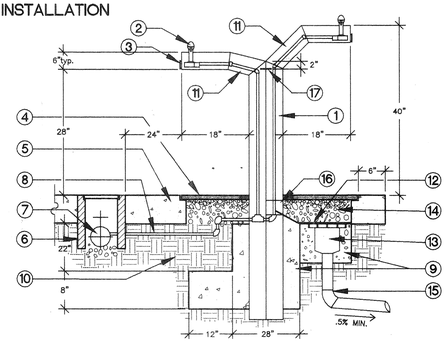


1. 2000 PSI NATURAL GRAY CONCRETE WITH SMOOTH TROWEL FINISH
2. 1/2" RADIUS ALL EDGES
3. #4 REBAR – PLACE IN BOTTOM 1/3 OF CURB, LAP BARS 8" @ SPLICES AND TIE
4. FINISH GRADE IN TURF AREAS
5. FINISH GRADE IN GROUNDCOVER AREAS
6. UNDISTURBED NATIVE SOIL
7. 90% COMPACTED SUBGRADE

NOTES:
INSTALL 1/2" PRE FORMED EXPANSION JOINTS @ 15' O.C. MAXIMUM AND AT BEGINNING OF RADIUS

C MOW CURB

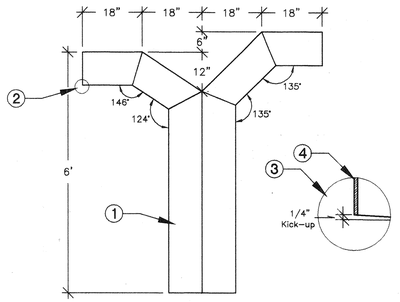
INSTALLATION



1. W10 COLUMN 15 LBS/FT, GALVANIZED.
2. SEE DETAIL AT RIGHT FOR BUBBLER GUARD AND PIPING
3. CONTROL LEVER AND VALVE SHALL BE HAWS MODEL (SEE DETAIL AT RIGHT)
4. 5' SQ. TREE GRATE FROM 'QUICK CRETE PRODUCTS' MODEL #QSTG60 W/FRAME #QS-60TGF. 'QUICK CRETE' OR APPROVED EQUAL (909)737-6240
5. CONCRETE PAVING PER PLAN
6. BROOKS CO. VALVE BOX #36-HFL (LOCKING LID) INSCRIBED "WATER" SET FLUSH WITH CONCRETE. 'BROOKS CO.' OR APPROVED EQUAL.
7. HAMMOND 3/4" BRASS BALL VALVE OR APPROVED EQUAL
8. 1/2" TYPE K COPPER PIPE
9. CONCRETE FOOTING
10. 90% RELATIVE COMPACTED SUBGRADE
11. MITER CUT AND WELD FULL PEN BUTT WELD (TYP. ALL WELDS)
12. FIBERGLASS FABRIC ON TOP OF GRATE PER SPECIFICATIONS
13. FLOOR DRAIN MODEL #A-325 BY 'ALHAMBRA'- SLOPE CONCRETE TO DRAIN 'ALHAMBRA' OR APPROVED EQUAL (818)289-4294
14. 3/4" DRAIN ROCK TO BOTTOM OF GRATE
15. 4" ABS DRAINLINE – CONNECT EXISTING SEWER LINE PER GRADING PLAN
16. CUT 2" HIGH OPENING TO CENTER SECTION OF 'H'-COLUMN TO ALLOW WATER TO PASS TO DRAIN
17. 1/8" THICK STAINLESS STEEL PLATE DRILLED WITH 1/4"ø HOLES @3/4"O.C. MOUNT WITH (4) VANDAL-PROOF, STAINLESS STEEL MACHINE SCREWS

NOTES:
- WELD W10 COLUMNS BACK TO BACK (AS SHOWN) WITH PEN BUTT WELD (TYP).
- GRIND SMOOTH ALL WELDS. GALVANIZE AND PAINT BLUE PER SPECS.
- CONSTRUCTION NOTES ARE TYPICAL FOR BOTH SIDES OF DRINKING FOUNTAIN

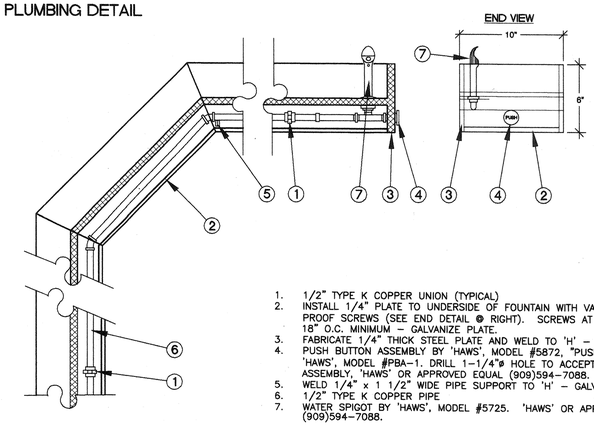
FABRICATION



1. W10 COLUMN 15 LBS/FT, GALVANIZED 6" HEIGHT x 10" WIDTH
2. SEE ENLARGEMENT FOR KICK-UP DETAIL
3. KICK-UP 1/4" DURING FABRICATION TO PROVIDE SLOPE FOR POSITIVE DRAINAGE TO SLUMP
4. 1/4" STEEL PLATE, WELD TO ENDS OF "H"

NOTE: CONSTRUCTION NOTES ARE TYPICAL FOR BOTH SIDES OF DRINKING FOUNTAIN

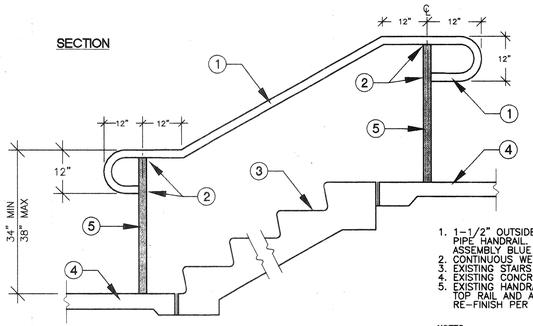
PLUMBING DETAIL



1. 1/2" TYPE K COPPER UNION (TYPICAL)
2. INSTALL 1/4" PLATE TO UNDERSIDE OF FOUNTAIN WITH VANDAL PROOF SCREWS (SEE END DETAIL @ RIGHT). SCREWS AT 18" O.C. MINIMUM – GALVANIZE PLATE.
3. FABRICATE 1/4" THICK STEEL PLATE AND WELD TO 'H' – GALVANIZED.
4. PUSH BUTTON ASSEMBLY BY 'HAWS', MODEL #5872, "PUSH" BUTTON BY 'HAWS', MODEL #PBA-1. DRILL 1-1/4"ø HOLE TO ACCEPT PUSH BUTTON ASSEMBLY, 'HAWS' OR APPROVED EQUAL (909)594-7088.
5. WELD 1/4" x 1 1/2" WIDE PIPE SUPPORT TO 'H' – GALVANIZED.
6. 1/2" TYPE K COPPER PIPE
7. WATER SPIGOT BY 'HAWS', MODEL #5725. 'HAWS' OR APPROVED EQUAL (909)594-7088.

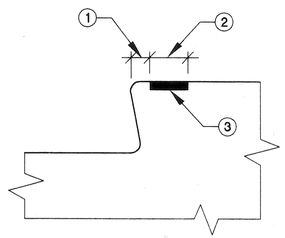
9/8/99

D DRINKING FOUNTAIN



1. 1-1/2" OUTSIDE DIA. SCH. 40 GALV. STEEL PIPE HANDRAIL. PAINT ENTIRE RAIL ASSEMBLY BLUE TO MATCH BUILDING TRIM
2. CONTINUOUS WELD TWO PLACES AT EACH POST
3. EXISTING STAIRS PER PLAN
4. EXISTING CONCRETE PAVING/LANDING
5. EXISTING HANDRAIL POSTS. REMOVE EXISTING TOP RAIL AND ATTACH(WELD) NEW TOP RAIL, RE-FINISH PER ITEM #1 ABOVE.

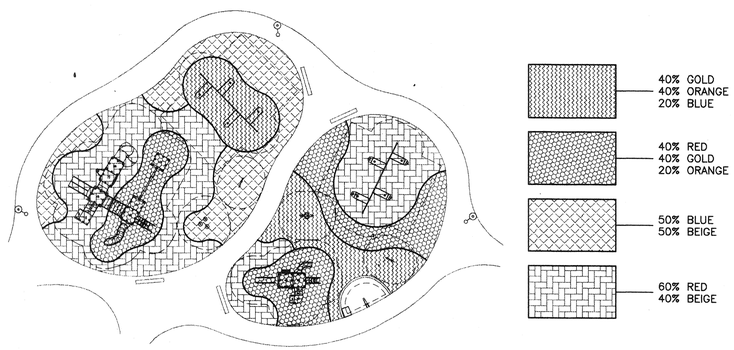
NOTES:
1. TO ALL METAL SURFACES APPLY TWO PRIME COATS & TWO FINISH COATS OF SEMI-GLOSS BLUE FINISH PER SPECS. (CONTRACTOR TO SUBMIT COLOR SAMPLE BEFORE PAINTING).
2. CONT. WELD AND GRIND SMOOTH ALL METAL CONNECTIONS
3. SUBMIT ALL SHOP DRAWINGS TO OWNER/ LANDSCAPE ARCHITECT FOR APPROVAL.



1. 1" MAXIMUM SPACING FROM EDGE OF TREAD
2. 2" MINIMUM STRIP WIDTH
3. PLACE 2" WIDE SLIP RESISTANT STRIPE ON UPPER APPROACH AND ALL TREADS OF STAIRWAY.

NOTES:
PAINT STRIPING BLUE IN ACCORDANCE WITH WITH STANDARD PUBLIC WORKS SPECIFICATIONS.

E HANDRAIL ATTACHMENT AND STAIRWAY STRIPING



F PLAY MATTING COLOR SCHEME

1" = 20'-0"

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http://www.pe.net/comworks

REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO 2110 Signature Date STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 11/30/99

SCALE: N.T.S. NORTH:
DATE: 8/13/99

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

BENCHMARK

MARK	REVISIONS	APPR.	DATE

DESIGNED BY WGW DRAWN BY WGW CHECKED BY TIM

CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

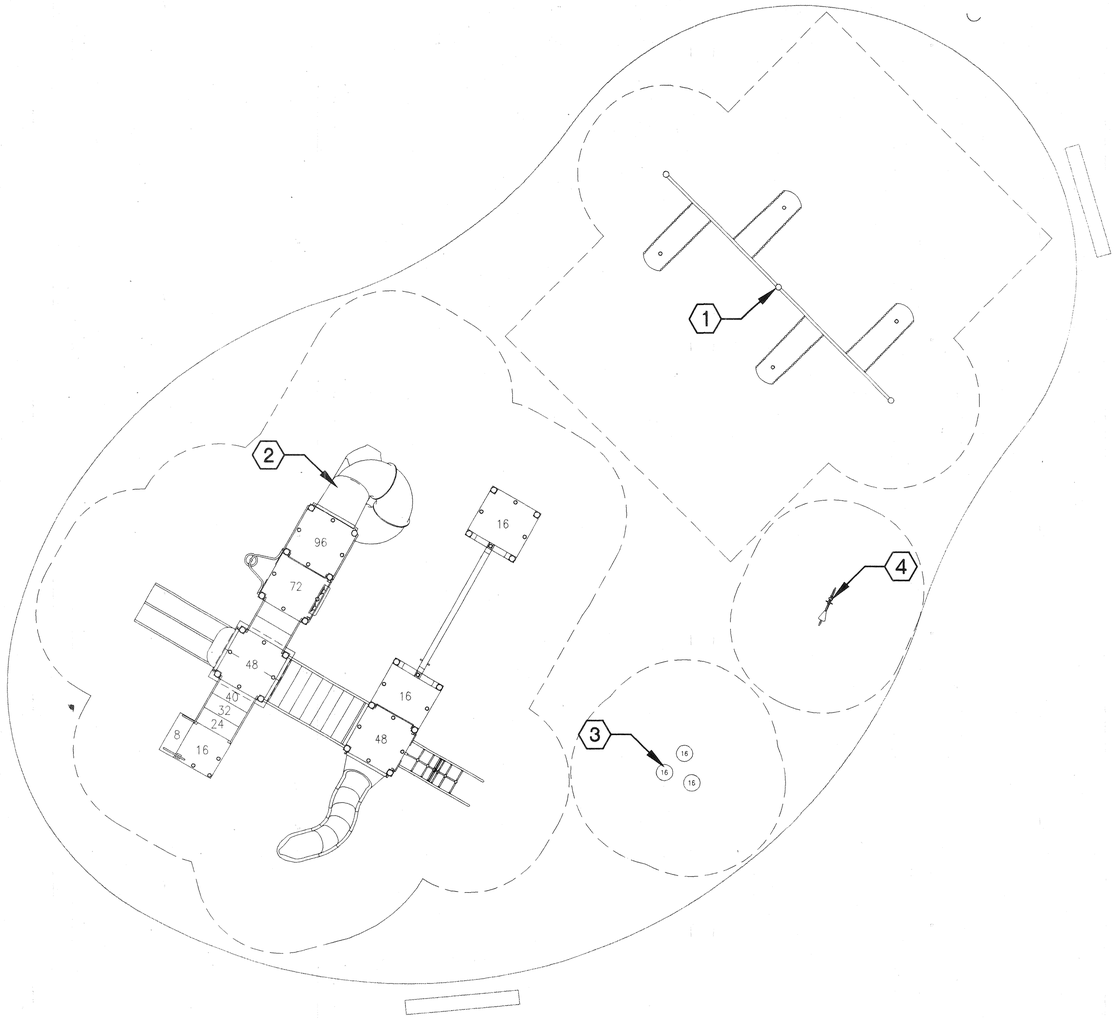
APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

Construction Details

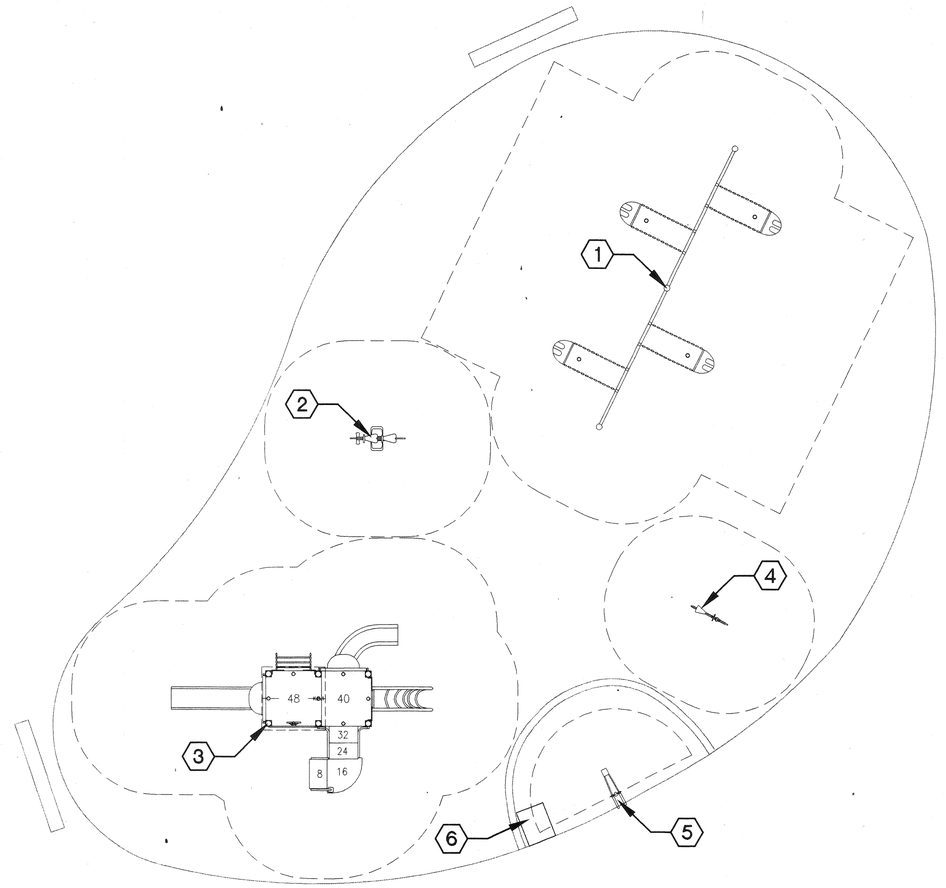
PROJECT NO. 981052
C-2
SHEET 6 OF 12
FILE NO.



	DESCRIPTION	SUPPLIER	DETAIL
1	INSTALL 4 PLACE SINGLE POST SWING MODEL 122837D W' BELT SWINGS BY 'LANDSCAPE STRUCTURES' OR EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS
2	INSTALL PLAY STRUCTURE MODEL 1193245A BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.
3	INSTALL INDEPENDENT SPRING POD MODEL 120876 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.
4	INSTALL MOTORCYCLE MODEL 100013 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.

NOTES:
THE DESIGN OF THE EQUIPMENT ON THIS PLAN IS CERTIFIED AND VALIDATED TO BE IN CONFORMANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) F1487 STANDARDS FOR PUBLIC SAFETY.
THE EQUIPMENT ON THIS PLAN ARE IPEMA (INTERNATIONAL PLAY EQUIPMENT MANUF. ASSOC.) CERTIFIED.
PLAY EQUIPMENT TO BE COLORED TAN W/ORANGE TRIM AND ORANGE RAILINGS.

A PLAY EQUIPMENT- CHILD PLAY AREA



	DESCRIPTION	SUPPLIER	DETAIL
1	INSTALL 4 PLACE SINGLE POST SWING MODEL 122837D W' BUCKET SEATS BY 'LANDSCAPE STRUCTURES' OR EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS
2	INSTALL FIRE ENGINE SPRING RIDER MODEL 126378 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.
3	INSTALL PLAY STRUCTURE MODEL 1192608 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.
4	INSTALL MOTORCYCLE MODEL 100013 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.
5	INSTALL (ACCESSIBLE) SUPER SCOOP MODEL 100013 BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	DETAIL 'K' SHEET L-3
6	INSTALL TRANSFER STATION MODEL 126205A BY 'LANDSCAPE STRUCTURES' OR APPROVED EQUAL	COAST RECREATION, INC. (949)553-8065	PER MFG'S. SPECS.

NOTES:
THE DESIGN OF THE EQUIPMENT ON THIS PLAN IS CERTIFIED AND VALIDATED TO BE IN CONFORMANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) F1487 STANDARDS FOR PUBLIC SAFETY.
THE EQUIPMENT ON THIS PLAN ARE IPEMA (INTERNATIONAL PLAY EQUIPMENT MANUF. ASSOC.) CERTIFIED.
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B PLAY EQUIPMENT- TOT PLAY AREA

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REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO. 2110 Signature Date STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
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RIVERSIDE, CA 92522
BENCHMARK

MARK	REVISIONS	APPR.	DATE

DESIGNED BY GR DRAWN BY WGW CHECKED BY TIM

CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY
PARK DEPARTMENT
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

Play Equipment Layout

PROJECT NO. 981052
C-3
SHEET 7 OF 12
FILE NO.

LIGHTING FIXTURE SCHEDULE

REFER TO DIVISION 1, GENERAL REQUIREMENTS, REGARDING PRODUCT OPTIONS AND SUBSTITUTION. WHERE THREE OR MORE MANUFACTURERS ARE LISTED IN THE FOLLOWING LIGHTING FIXTURE SCHEDULE, SUBSTITUTION WILL NOT BE CONSIDERED. WHERE PRODUCTS ARE LISTED BY NAMING ONE OR MORE MANUFACTURERS, WITHOUT "OR EQUAL" PROVISION FOR SUBSTITUTION, CONTRACTOR SHALL INCLUDE ONLY SPECIFIED PRODUCTS IN BID.

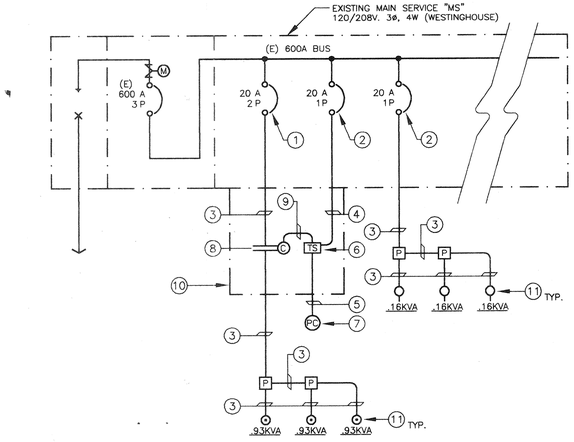
	DESCRIPTION	LAMPS [2] NO.	WATTS	TYPE	VOLTS	MANUFACTURER	CATALOG #	MOUNTING
1S / 926	(2) AREA HID FLOOD LIGHTS WITH POLY CARBONATE LENS ON TRIPLE BULLHORN ASSEMBLY	2	400	HPS	208	DAYBRITE	FLI-400HPS-MT-LP-VSI/ RBH3-2DB/EPSF(2) POLE: TRS-25-11-T2-BRP	POLE ON BULLHORN @ 25'-0"A.F.F.
2S / 163	SECURITY AREA HID FIXTURE WITH TAMPER PROOF SCREWS AND POLY CARBONATE LENS	1	150	HPS	120	EMCO	ECA-14-13H-150HPS-120-BRZ-POLY W/ PTF-2-BRZ	POLE ON BULLHORN @ 25'-0"A.F.F.

GENERAL NOTES

1. VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS (ELECTRICAL) AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS, ACTUAL PHYSICAL LOCATIONS, AND WORK TO BE PERFORMED.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.
3. CONSTRUCTION TERMINOLOGY, AND THE STANDARDS AND ACCEPTABLE METHODS OF INSTALLATION REQUIRED BY THESE CONTRACT DOCUMENTS ARE BASED ON PUBLISHED STANDARDS OF N.E.C.A. (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION), NATIONAL ELECTRICAL SAFETY CODE, AMERICAN NATIONAL STANDARDS INSTITUTE DOCUMENTS, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, UNDERWRITERS LABORATORIES, AND THE CALIFORNIA ELECTRICAL CODE. SUBMITTAL OF BID INDICATES THE CONTRACTOR IS COGNIZANT OF THESE STANDARDS AND THE REQUIREMENTS NECESSARY TO PERFORM ALL THE WORK AS SET FORTH IN THESE CONTRACT DOCUMENTS.
4. ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS, UTILITY CHARGES AND PAY FOR SAME. COORDINATE AND PAY FOR ALL TEMPORARY ELECTRICAL SERVICE CHARGES WITH THE BUILDING DEPARTMENT, SERVING UTILITY, AND OWNER. COORDINATE TEMPORARY CONSTRUCTION REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
5. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE AND REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS, STRUCTURAL DETAILS, EXACT EQUIPMENT AND OUTLET LOCATIONS. ALTHOUGH NOT SHOWN, CONTRACTOR SHALL PROVIDE ALL J-BOXES, PULL BOXES, ELLS, OFFSETS ETC., FOR A COMPLETE CODE APPROVED INSTALLATION. FOOTAGE SHOWN ON ELECTRICAL SINGLE LINES AND RISER DIAGRAMS ARE FOR CALCULATION PURPOSES ONLY AND ARE NOT FOR BIDDING PURPOSES OR MATERIAL TAKEOFF. ALL LOCATIONS OF EVERY OUTLET SHALL BE VERIFIED PRIOR TO ROUGH-IN.
6. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH OSHA.
7. ALL MATERIALS SHALL BE NEW, AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES FOR THE USE AND ENVIRONMENT, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., U.L., N.E.M.A. AND N.B.F.U. INSTALL PER MANUFACTURERS' RECOMMENDATIONS.
8. SUBSTITUTIONS OF SPECIFIED MATERIALS ARE IN ACCORDANCE WITH THE GENERAL CONDITIONS. APPROVAL OF EQUAL MATERIALS PRIOR TO BID ARE BY WRITTEN ADDENDUM ONLY OR AS STATED ON THE PLANS.
9. SUBMIT SHOP DRAWINGS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO: LIGHTING FIXTURES, POLE, PHOTOCELL AND TIME SWITCH.
10. CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES, O.S.H.A. AND THE PRESENTLY ADOPTED CALIFORNIA ELECTRICAL CODE (N.E.C.).
11. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C., ART. #250, AND ALL APPLICABLE ARTICLES.
12. PENETRATIONS TO FIRE-RATED MATERIALS SHALL BE RESTORED TO EQUAL RATING AS REQUIRED BY LOCAL ENFORCING AGENCY.
13. CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER, MARKED 24" ALONG IT'S LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. CONDUCTORS SHALL BE TYPE "THWN" (WET) OR "THHN" (DRY). DELIVER THE WIRE TO THE SITE IN UNBROKEN PACKAGES.
14. ALL JUNCTION AND PULL BOXES SHALL BE SUPPORTED PER N.E.C. ART 370. SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY; SIZE BOXES PER N.E.C. FOR CONDITIONS OF PULL. ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE.
15. CONDUIT SHOWN AS EXPOSED OR APPROVED FOR EXPOSED INSTALLATION SHALL BE INTERMEDIATE METALLIC CONDUIT, I.M.C. SECURED WITH TWO HOLE MALLEABLE PIPE STRAPS AND SCREWS. ALL BOXES AND FITTINGS SHALL BE SUPPORTED AND SECURED IN COMPLIANCE WITH N.E.C. ARTICLE 370. ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE. IF VIEWED BY PUBLIC, APPLY TWO COATS OF PAINT TO MATCH SURFACE.
16. P.V.C. CONDUIT, WITH CODE SIZED GROUND, SHALL BE USED UNDERGROUND ONLY. INSTALL MIN. OF 36" BELOW GRADE AND PER LOCAL CODE REQUIREMENTS. ALL CONDUIT SWEEPS AND RISERS AND STUBS ABOVE GRADE SHALL BE SCH. 80. ROUTE UNDERGROUND CONDUITS AROUND PROPOSED BUILDING LOCATIONS. PROVIDE RED, METALLIC VOLTAGE WARNING TAPE AT 12" BELOW GRADE OVER ALL UNDERGROUND ELECTRICAL CONDUITS.
17. ALL CONDUIT ONLY (C.O.) SHALL HAVE A 3/16" PULL WIRE OR ROPE.
18. USE ONLY COMPETENT AND SKILLED PERSONNEL AND PERFORM ALL WORK, INCLUDING AESTHETIC AS WELL AS ELECTRICAL AND MECHANICAL ASPECTS TO STANDARDS CONSISTENT WITH THE BEST PRACTICES OF THE TRADE.
19. PROVIDE ALL LAMPS, ARMS AND SEISMIC SUPPORTS PER UNIFORM BUILDING CODE, FOR A COMPLETE LIGHTING FIXTURE.
20. WHERE IT BECOMES NECESSARY TO DRILL INTO OR CUT THROUGH ANY EXISTING FLOORS, WALLS OR CEILINGS TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT, OR TO REPAIR ANY DEFECTS THAT MAY APPEAR PRIOR TO THE EXPIRATION OF THE WARRANTY, SUCH CUTTING AND PATCHING SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THE WORK REQUIRED. CONTRACTOR SHALL PAY FOR ALL COSTS REQUIRED FOR CUTTING OR REPAIRING. ALL FINISHES SHALL MATCH EXISTING OR NEW ADJACENT SURFACES.
21. CONTRACTOR SHALL FURNISH AND INSTALL ALL POWER, CONTROL WIRES, CONDUITS AND OUTLETS TO RENDER MECHANICAL EQUIPMENT OPERATIVE. REFER TO MECHANICAL DRAWINGS FOR CONTROL SCHEMATICS.
22. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL SWITCHBOARDS, PANELBOARDS, LOADCENTERS, TRANSFORMERS, AND TERMINAL CABINETS. PLATES SHALL BE 3 PLY, BLACK FACE, WHITE CORE WITH 1/4" HIGH CONDENSED GOTHIC LETTERING. SCREW-ON ATTACHMENT OR PERMANENT ADHESIVE TAPE AS MANUFACTURED BY 3M IS REQUIRED.
23. PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE ELECTRICAL "AS-BUILT" REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DEPTHS OF UNDERGROUND RUNS AND ALL LOCATIONS. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION. TRAINING OF OPERATION ON TIME SWITCH SHALL BE PROVIDED.
24. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

ELECTRICAL SYMBOLS LIST

- ⊙ POLE MOUNTED LIGHT FIXTURE – REFER TO FIXTURE SCHEDULE.
- O– SURFACE POLE MOUNTED SECURITY LIGHT FIXTURE – REFER TO FIXTURE SCHEDULE.
- —— CONDUIT RUN CONCEALED BELOW GRADE, 3/4"C MINIMUM.
- – – – CONDUIT RUN EXPOSED
- ——⊣ CONDUIT STUB OUT, CAP & MARK.
- (3/E-1) DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
- (2) PLAN NOTE REFERENCE.
- (4) REVISION REFERENCE.
- CO CONDUIT ONLY, WITH PULL ROPE.
- WP WEATHERPROOF, NEMA 3R
- PROVIDE FURNISH, INSTALLED AND CONNECTED, COMPLETE.
- C CONDUIT
- E/G EQUIPMENT GROUND (GREEN)
- (E) EXISTING TO REMAIN
- UG UNDERGROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- C.E.C. CALIFORNIA ELECTRICAL CODE
- U.O.N. UNLESS OTHERWISE NOTED



SINGLE LINE DIAGRAM NOTES

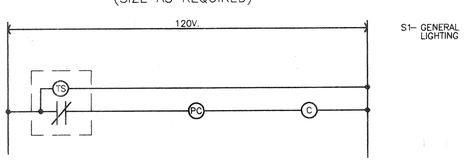
1. REMOVE EXISTING 150A/3P C/B AND PROVIDE NEW AS SHOWN. MATCH EXISTING MANUFACTURER AND OPERATING CHARACTERISTICS.
2. PROVIDE NEW CIRCUIT BREAKER. MATCH EXISTING MANUFACTURER AND OPERATING CHARACTERISTICS.
3. 3/4"C. 2#10 & 1 #10 E/G.
4. 1/2"C. 2#12
5. 1/2"C. W/ REQUIRED PHOTOCELL CONTROL CONDUCTORS.
6. PROVIDE 7 DAY 24 HOUR ELECTONIC TIME SWITCH PHOTOCELL ON-T/S OFF. 120V.
7. PROVIDE PHOTOCELL MOUNT TO NORTH SIDE OF EXISTING EXTERIOR BLOCK WALL. SEE SITE PLAN FOR LOCATION.
8. PROVIDE 2 POLE CONTACTOR COIL 120V.
9. 1/2"C. W/ REQUIRED COIL CONTROL CONDUCTORS.
10. PROVIDE ENCLOSURE FOR TIME SWITCH AND CONTACTOR / COIL. MOUNT ADJACENT TO (E) "MS". VERIFY LOCATION PRIOR TO ROUGH-IN.
11. ROUTE CONDUCTORS UP POLE AND COMPLETELY CONNECT TO LIGHT FIXTURE(S).

LOAD SUMMARY:

EXISTING CONNECTED LOAD	104.3KVA
NEW LOAD	3.3KVA
	107.6KVA
	or 299.1 AMPS AT 120/208V 3ø 4W.

SINGLE LINE DIAGRAM

SCALE N.T.S. (2)

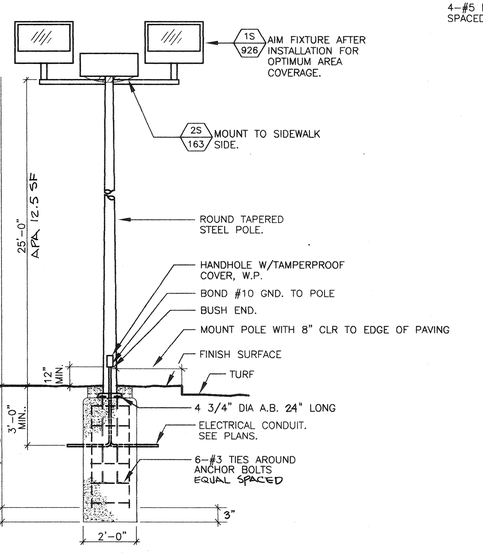


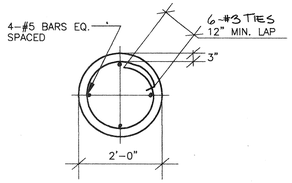
WIRING DIAGRAM

SCALE N.T.S. (3)

SPECIAL NOTE:

LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND / OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.





SECTION

GENERAL NOTES:

1. CONCRETE 2500 PSI AT 28 DAYS.
2. POLE & BASE PLATE BY POLE MFG.
3. POLE DESIGNED FOR WIND GUSTS TO 98 MPH, EXP. "C".
4. LATERAL SOIL PRESSURE 350 PSF.

LIGHTING POLE DETAIL

SCALE N.T.S. (1)

REGISTERED PROFESSIONAL ENGINEER JACK T. TAM No. E6122 Exp. 9/30/02 ELECTRICAL STATE OF CALIFORNIA

JDSA
ELECTRICAL • ENERGY CONSULTANTS
JDSA JOB NUMBER 98-484
CONTACT NAME JAMES CORNS
3780 Twelfth Street • Suite B • Riverside, CA. 92501
Telephone (909) 787-1957 • Fax (909) 787-8602

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REGISTERED LANDSCAPE ARCHITECT TIMOTHY L. MALONEY No. 2110 Signature Date STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY L MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 11/30/99 DATE 4/23/99

SCALE: AS NOTED
DATE: 4/23/99
NORTH:

BENCHMARK
—
—
—

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

MARK	REVISIONS	APPR.	DATE

DESIGNED BY JJC DRAWN BY ER CHECKED BY CFJ

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

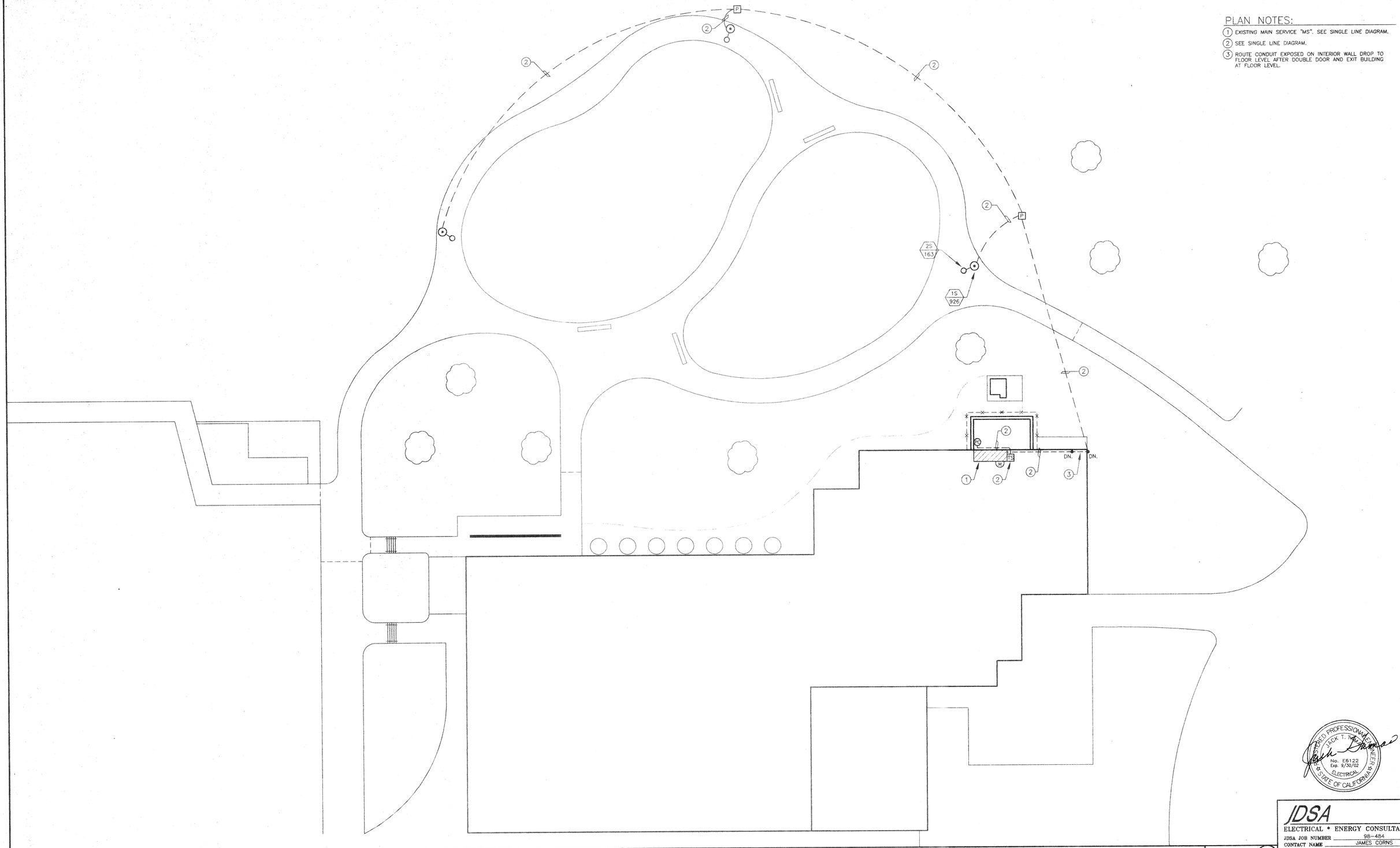
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

PROJECT NO. 981052
E-1
SHEET 8 OF 12
FILE NO. PC-00

PLAN NOTES:

1. EXISTING MAIN SERVICE "MS". SEE SINGLE LINE DIAGRAM.
2. SEE SINGLE LINE DIAGRAM.
3. ROUTE CONDUIT EXPOSED ON INTERIOR WALL DROP TO FLOOR LEVEL AFTER DOUBLE DOOR AND EXIT BUILDING AT FLOOR LEVEL.



ELECTRICAL SITE PLAN

SCALE 1" = 10'-0" (1)

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3780 Twelfth Street • Suite B • Riverside, CA. 92501
Telephone (909) 787-1957 • Fax (909) 787-8602

REGISTERED PROFESSIONAL ENGINEER
JACK T. [illegible]
No. E6122
Exp. 9/30/02
ELECTRICAL
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REGISTERED LANDSCAPE ARCHITECT
TIMOTHY L MALONEY
No. 2110
Signature
Date
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY L MALONEY
REGISTERED LANDSCAPE ARCHITECT, R.L.A. 2110
EXPIRATION DATE 11/30/99 DATE 4/23/99

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CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

BENCHMARK
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DESIGNED BY JJC DRAWN BY ER CHECKED BY CFJ

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

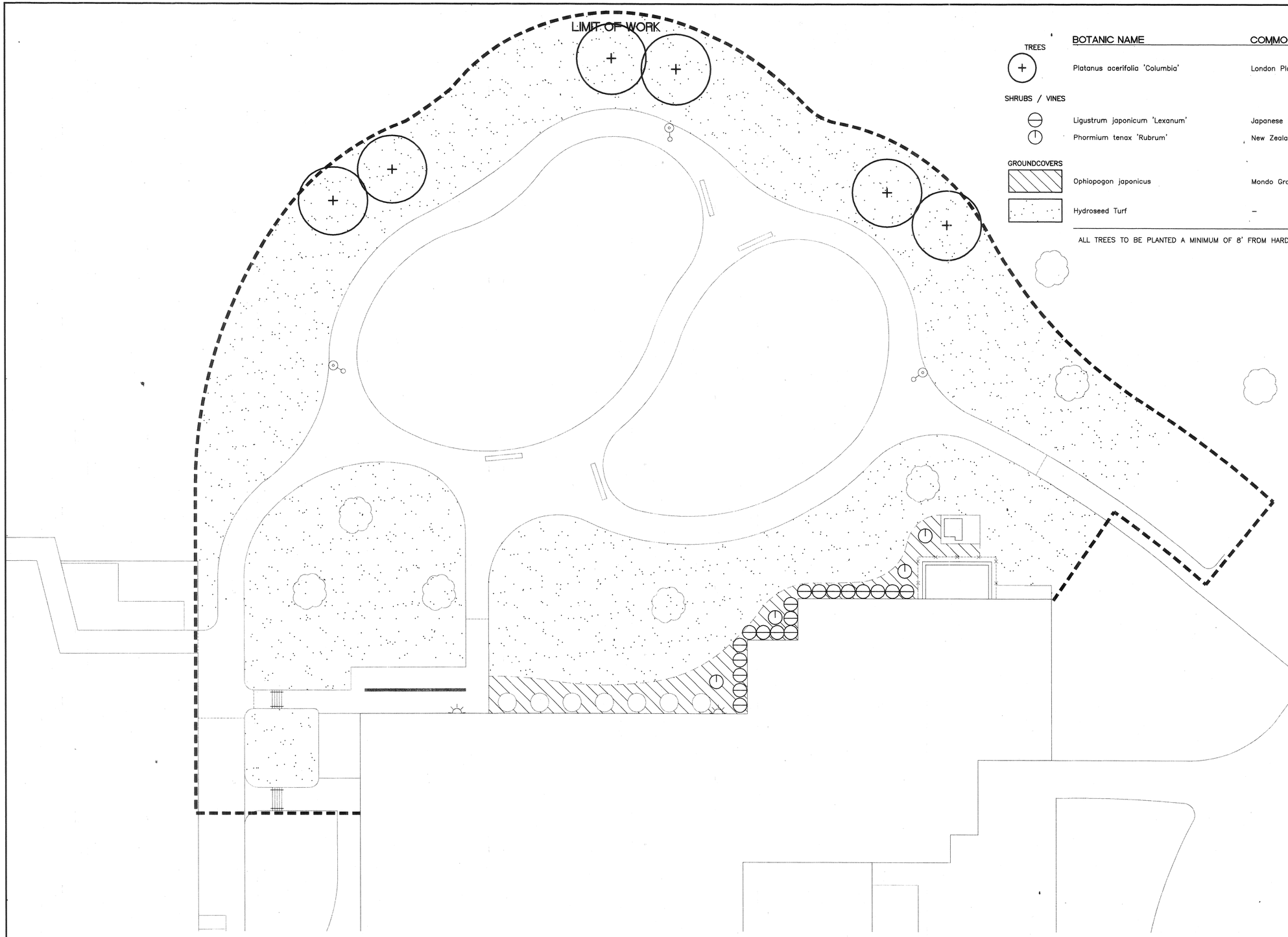
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

JUL 09 1999

Electrical Site Plan

PROJECT NO. 981052
E-2
SHEET 9 OF 13
FILE NO. PC-00



TREES

SHRUBS / VINES

GROUNDCOVERS

BOTANIC NAME	COMMON NAME	SIZE / SPACING	DETAIL
Platanus acerifolia 'Columbia'	London Plane Tree	15 gal.	'I', L-3
Ligustrum japonicum 'Lexanum'	Japanese Privet	5 gal.	'J', L-3
Phormium tenax 'Rubrum'	New Zealand Flax	15 gal.	'J', L-3
Ophiopogon japonicus	Mondo Grass	Flats at 10" o.c.	N/A
Hydroseed Turf	–	–	N/A

ALL TREES TO BE PLANTED A MINIMUM OF 8' FROM HARDSCAPE

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

COMMUNITY WORKS DESIGN GROUP
3750 University Avenue
Suite 175
Riverside, CA 92501
(909) 369-0700
Fax: (909) 369-4039
e-mail: comworks@pe.net
http://www.pe.net/comworks

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY I. MALONEY
No. 2110
Signature
Date
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 11/30/99

SCALE: 1"=10'-0"
DATE: 8/13/99
NORTH:

BENCHMARK

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522

MARK	REVISIONS	APPR.	DATE

DESIGNED BY WGW DRAWN BY WGW CHECKED BY TIM

CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY
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DATE

REID PARK
PLAYGROUND
RIVERSIDE, CA

Planting Plan

PROJECT NO. 981052

L-2

SHEET 11 OF 12

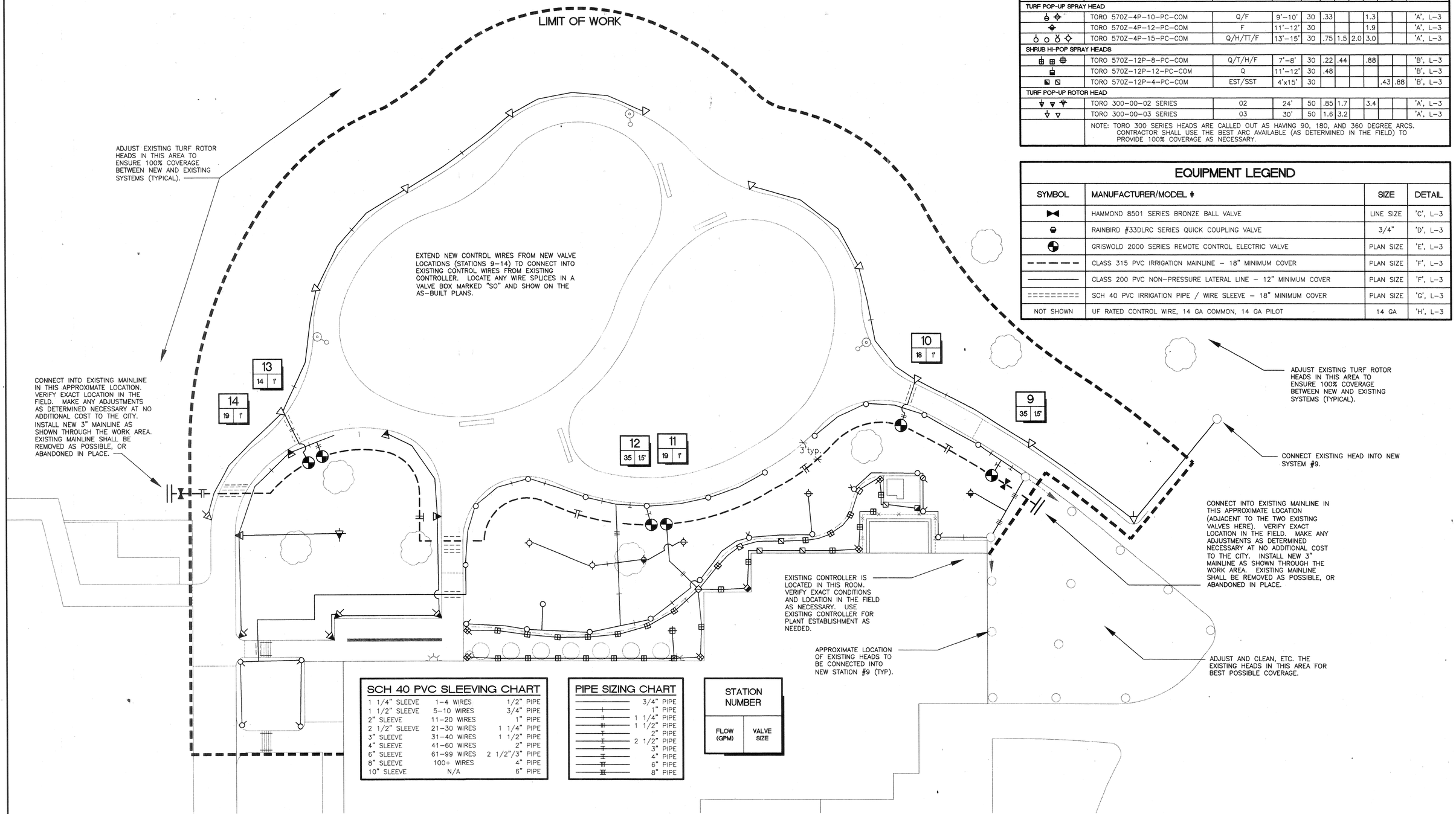
FILE NO.

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM) Q	H	TT	F	Est	Sst	DETAIL
TURF POP-UP SPRAY HEAD											
	TORO 570Z-4P-10-PC-COM	Q/F	9'-10'	30	.33			1.3			'A', L-3
	TORO 570Z-4P-12-PC-COM	F	11'-12'	30				1.9			'A', L-3
	TORO 570Z-4P-15-PC-COM	Q/H/TT/F	13'-15'	30	.75	1.5	2.0	3.0			'A', L-3
SHRUB HI-POP SPRAY HEADS											
	TORO 570Z-12P-8-PC-COM	Q/T/H/F	7'-8'	30	.22	.44		.88			'B', L-3
	TORO 570Z-12P-12-PC-COM	Q	11'-12'	30	.48						'B', L-3
	TORO 570Z-12P-4-PC-COM	EST/SST	4'x15'	30					.43	.88	'B', L-3
TURF POP-UP ROTOR HEAD											
	TORO 300-00-02 SERIES	02	24'	50	.85	1.7		3.4			'A', L-3
	TORO 300-00-03 SERIES	03	30'	50	1.6	3.2					'A', L-3
	NOTE: TORO 300 SERIES HEADS ARE CALLED OUT AS HAVING 90, 180, AND 360 DEGREE ARCS. CONTRACTOR SHALL USE THE BEST ARC AVAILABLE (AS DETERMINED IN THE FIELD) TO PROVIDE 100% COVERAGE AS NECESSARY.										

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL
	HAMMOND 8501 SERIES BRONZE BALL VALVE	LINE SIZE	'C', L-3
	RAINBIRD #33DLRC SERIES QUICK COUPLING VALVE	3/4"	'D', L-3
	GRISWOLD 2000 SERIES REMOTE CONTROL ELECTRIC VALVE	PLAN SIZE	'E', L-3
	CLASS 315 PVC IRRIGATION MAINLINE – 18" MINIMUM COVER	PLAN SIZE	'F', L-3
	CLASS 200 PVC NON-PRESSURE LATERAL LINE – 12" MINIMUM COVER	PLAN SIZE	'F', L-3
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE – 18" MINIMUM COVER	PLAN SIZE	'G', L-3
NOT SHOWN	UF RATED CONTROL WIRE, 14 GA COMMON, 14 GA PILOT	14 GA	'H', L-3



SCH 40 PVC SLEEVING CHART

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

PIPE SIZING CHART

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

STATION NUMBER

FLOW (GPM)	VALVE SIZE

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REGISTERED LANDSCAPE ARCHITECT TIMOTHY I. MALONEY NO. 2110 — Signature — Date — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
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CITY OF RIVERSIDE, CALIFORNIA
PARK & RECREATION DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY
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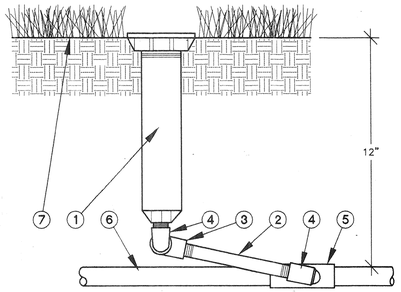
DATE

REID PARK PLAYGROUND RIVERSIDE, CA

Irrigation Plan

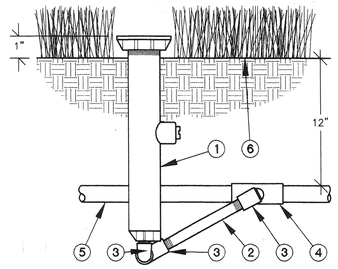
PROJECT NO. 981052
L-1
SHEET 10 OF 12
FILE NO.



1. POP-UP SPRAY HEAD PER LEGEND
2. PVC SCH 80 NIPPLE – 12" MINIMUM LENGTH
3. PVC SCH 40 STREET ELL – TxT
4. MARLEX STREET ELL – TxT
5. PVC SCH 40 LATERAL LINE FITTING
6. LATERAL LINE PER EQUIPMENT LEGEND
7. FINISH GRADE

NOTES:
USE TEFLON TAPE ON ALL MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS. SET PERIMETER HEADS 1"–2" FROM EDGE OF WALK, WALL, OR CURB, ETC. ALL FITTINGS FOR SWING JOINTS MUST BE SAME SIZE AS INLET ON BASE OF HEAD. LATERAL LINE FITTING OUTLET SHALL BE SAME SIZE AS HEAD INLET.

A Turf Pop-Up Head

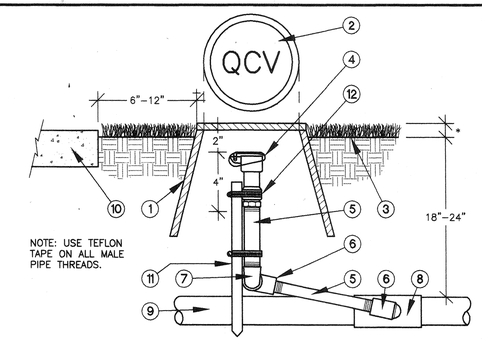


1. SHRUB HI-POP SPRAY HEAD PER LEGEND
2. PVC SCH 80 NIPPLE – 12" MINIMUM LENGTH
3. MARLEX STREET ELL – TxT
4. PVC SCH 40 LATERAL LINE FITTING
5. LATERAL LINE PER LEGEND
6. FINISH GRADE

NOTES:
USE TEFLON TAPE ON ALL MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS. SET PERIMETER HEADS 2"–6" FROM EDGE OF CURBS AND WALKS, AND 6"–12" FROM FIXED VERTICAL OBJECTS SUCH AS FENCES, WALLS, AND BUILDINGS, ETC. BOTTOM INLET OF HEAD MUST BE USED.

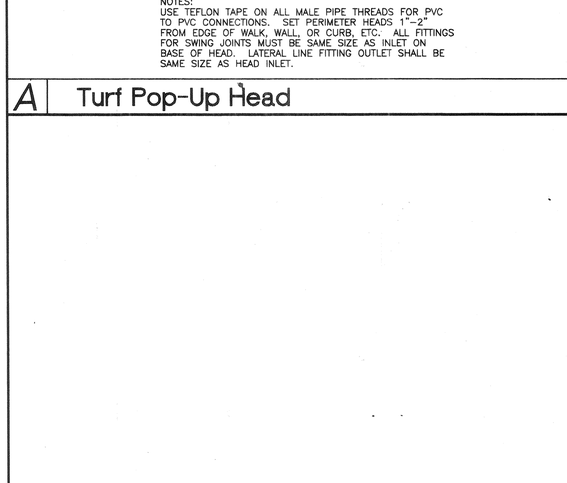
B Shrub Hi-Pop Head

C Ball Valve



1. 10" ROUND CONCRETE VALVE BOX WITH NON-HINGED METAL LID
2. STENCIL "QCV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. QUICK COUPLER PER LEGEND
5. PVC SCH 80 NIPPLE LENGTH AS REQUIRED
6. PVC SCH 40 STREET ELL TxT
7. PVC SCH 40 ELL – TxT
8. SCH 40 PVC MAINLINE FITTING
9. PVC MAINLINE PIPING PER EQUIPMENT LEGEND
10. WALK, CURB, OR WALL, ETC.
11. 1" ANGLE IRON, 18" MINIMUM LENGTH SUPPORT STAKE
12. STAINLESS STEEL CLAMP – 2
* 1/2" IN TURF AREAS
2" IN SHRUB AREAS.

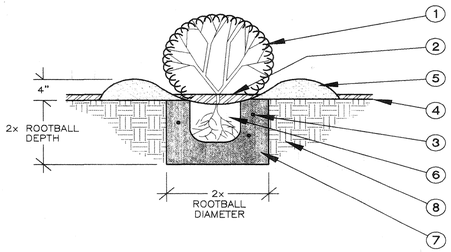
D Quick Coupling Valve



1. TIRE STRIP TIE
2. 2" LODGEPOLE PINE STAKE
3. FERTILIZER TABLETS (PER SPECS)
4. WATERING BASIN
5. FINISH GRADE
6. SET ROOTBALL FROM 2" MAX TO 1/2" MIN. HIGHER THAN ADJACENT FINISH GRADE
7. BACKFILL (PER SPECS)
8. UNDISTURBED SOIL (TYP.)
9. PLASTIC TRUNK GUARD SUCH AS ARBOR-GARD AS MANUFACTURED BY DEEP ROOT CORP.

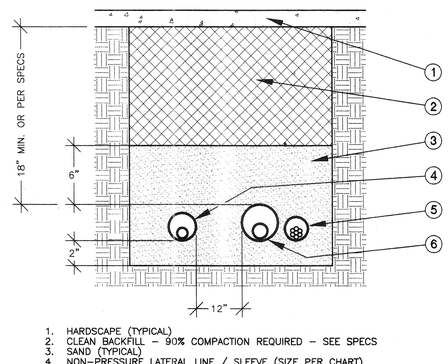
NOTE:
STAKES SHALL NOT PIERCE ROOTBALL AND SHALL EXTEND INTO UNDISTURBED SOIL.

E Remote Control Electric Valve



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

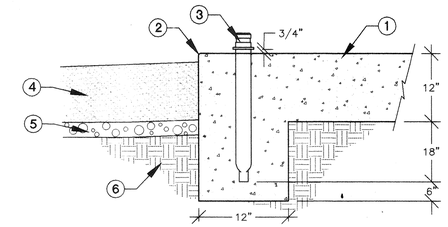
F Trenching



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

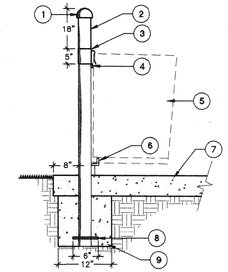
NOTES:
ALL SLEEVES TO BE SCH 40 PVC. SIZE ALL SLEEVES PER SLEEVING CHART ON PLANS. EXTEND SLEEVES 12" BEYOND EDGE OF HARDSCAPE ON BOTH ENDS. RECLAIMED WATER SLEEVES TO BE MINIMUM 42"–48" DEEP (OR PER WATER DISTRICT STANDARDS) WHERE APPLICABLE.

G Sleeving



1. 2000 PSI NATURAL GREY CONCRETE W/SMOOTH TROWEL FINISH
2. 1/2" RADIUS, ALL EDGES
3. GROUND PIPE ASSEMBLY BY LANDSCAPE STRUCTURES OR APPROVED EQUAL (949)553-8065
4. PLAY AREA SAND, SEE SPECIFICATIONS
5. 3" LAYER OF 3/4" AGGREGATE BASE
6. 90% RELATIVE COMPACTED SUBGRADE

H Wire Connector



1. GALVANIZED METAL CAP WELDED TO TOP OF POST. PAINT ALL WELDS AND CUTS WITH (2) COATS OF GALVICON –or– APPROVED EQUAL PRIOR TO INSTALLATION
2. 2–1/2"ø x 5' SCHEDULE 40 GALVANIZED STEEL POST.
3. 3"ø x 5" SCHEDULE 40 GALVANIZED STEEL COLLAR WITH 1/2"ø x 5" SHAPED GALVANIZED STEEL BAR STOCK HOOK WELDED TO TOP OF COLLAR. PROVIDE 1" GAP BETWEEN HOOK AND COLLAR. COLLAR TO SLIDE FREELY ON POST.
4. 1/2" SQ. x 2" SCHEDULE 40 GALVANIZED STEEL BAR WELDED VERTICALLY TO POST 18" FROM TOP (ACTS AS A STOP FOR THE SLIDING COLLAR)
5. TRASH CONTAINER PER CITY OF RIVERSIDE SPECIFICATIONS.
6. 1–1/2" x 1–1/2" x 1–1/2" ANGLE IRON WELDED HORIZONTALLY 18" FROM THE BOTTOM OF THE POST. SUPPORT WITH A 1" x 2" x 1/4" STEEL BAR WELDED VERTICALLY TO THE PIPE.
7. POST SHALL BE SET PLUMB IN CONCRETE SIDEWALK
8. STABILIZING CROSSBAR; MINIMUM 1/2"ø x 6" REBAR, FILLET WELD TO POST 3" FROM THE BOTTOM OF THE POST. DRILL POST ACCORDINGLY TO SUPPORT CROSSBAR
9. 12" x 12" MIN. CONCRETE FOOTING

I Tree Planting

J Shrub Planting

K Super Scoop

L Trash Receptacle

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REID PARK
PLAYGROUND
RIVERSIDE, CA

Irrigation / Planting Details

PROJECT NO. 981052
L-3
SHEET 12 OF 12
FILE NO.