CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

THUNDERSKY PARK

(ORANGECREST PARK SITE #2)
20440 THUNDERSKY CIRCLE
RIVERSIDE, CALIFORNIA

JULY 1995

APPROVALS

DIRECTOR, PARK & RECREATION

PARK SUPERINTENDENT

RECREATION SUPERINTENDENT

PARK PROJECTS COORDINATOR

REVISIONS

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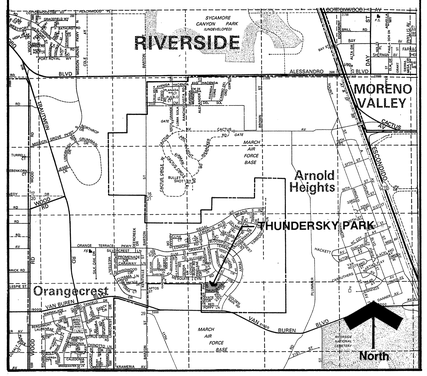
VICINITY MAP



PELA
LANDSCAPE ARCHITECTURE PLANNING
4883 BROCKTON AVENUE, RIVERSIDE, CALIFORNIA 92506 - (909) 276-0250

P-0306

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER # NUMBER ITEM

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER # NUMBER ITEM

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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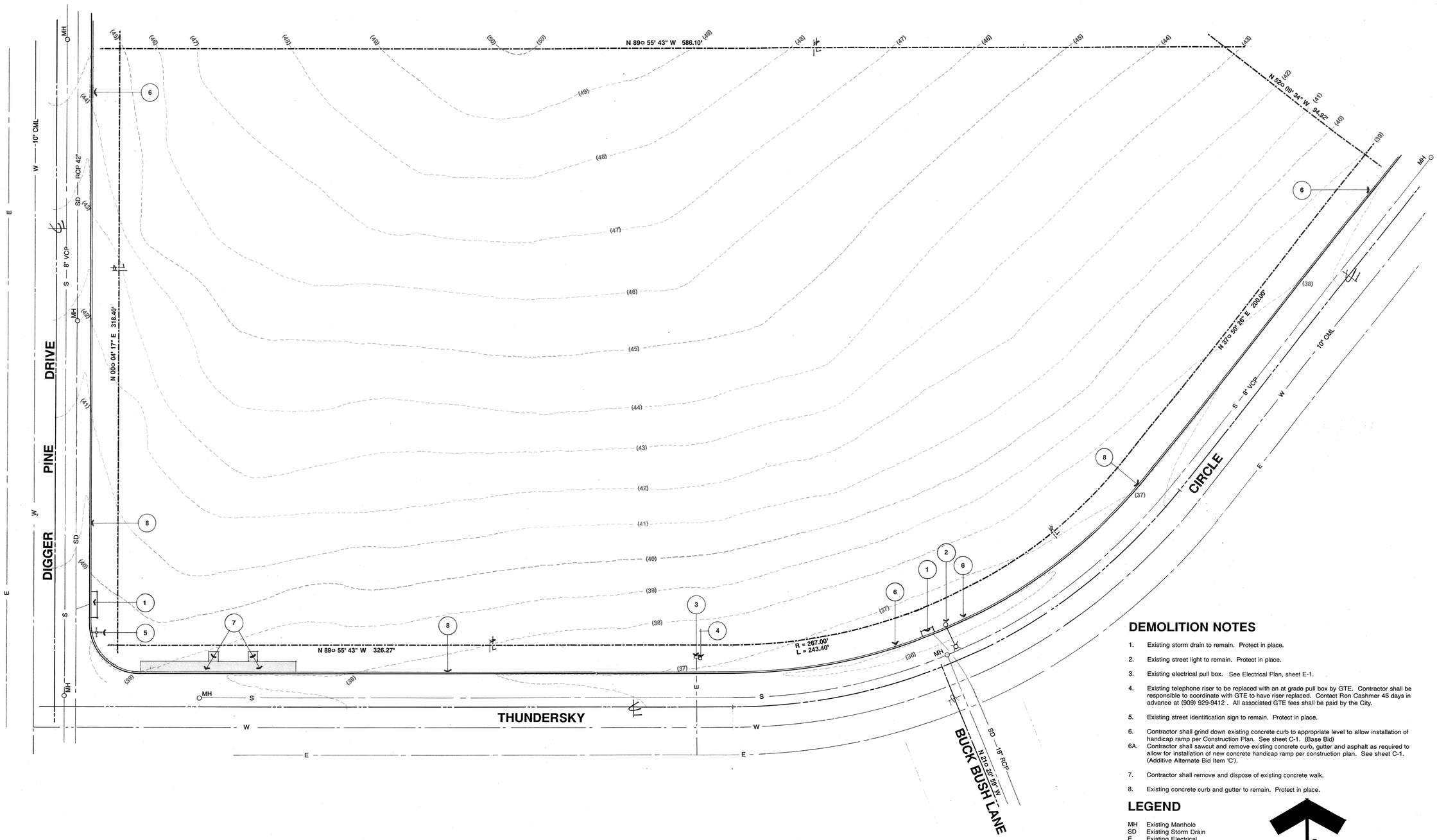
DRAWING NUMBER
TH-1.0
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER # NUMBER ITEM



DEMOLITION NOTES

1. Existing storm drain to remain. Protect in place.
2. Existing street light to remain. Protect in place.
3. Existing electrical pull box. See Electrical Plan, sheet E-1.
4. Existing telephone riser to be replaced with an at grade pull box by GTE. Contractor shall be responsible to coordinate with GTE to have riser replaced. Contact Ron Cashmer 45 days in advance at (909) 929-9412 . All associated GTE fees shall be paid by the City.
5. Existing street identification sign to remain. Protect in place.
6. Contractor shall grind down existing concrete curb to appropriate level to allow installation of handicap ramp per Construction Plan. See sheet C-1. (Base Bid)

6A. Contractor shall sawcut and remove existing concrete curb, gutter and asphalt as required to allow for installation of new concrete handicap ramp per construction plan. See sheet C-1. (Additive Alternate Bid Item 'C').

7. Contractor shall remove and dispose of existing concrete walk.
8. Existing concrete curb and gutter to remain. Protect in place.

LEGEND

MH	Existing Manhole
SD	Existing Storm Drain
E	Existing Electrical
W	Existing Water Line
S	Existing Sewer
- - -	Existing Contour

North

Scale 1" = 20' - 0"

PELA

REGISTERED LANDSCAPE ARCHITECT
PAMELA M. ELLIOTT
Signature
Date
STATE OF CALIFORNIA

Existing Conditions/ Demolition Plan

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet D-1

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTER BY NUMBER 07348

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTER BY NUMBER 07348

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTER BY NUMBER 07348

DRAWING NUMBER
TA - 29
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTER BY NUMBER 07348

GRADING CONSTRUCTION NOTES:

1. MEET AND MATCH ELEVATION OF ADJACENT CONCRETE FINISH SURFACE OR TOP OF CURB.
2. CONTRACTOR SHALL SLOPE PLAY AREA WALK TOWARDS SAND AREA WITH 1% SLOPE. PROVIDE GENTLE WARP AT 2 ENDS OF WALK TO BE LEVEL AND TO MEET AND MATCH TOP OF WALL AND CURB.
3. EXISTING CATCH BASIN PER CITY OF RIVERSIDE STD. DRWG. #405 LOCATED AT STATION 6+48.15, PER STORM DRAIN DRAWING #D-534, SHEET 3, TRACT 21834. W=14', V=4'-0". CONTRACTOR SHALL CORE THROUGH REAR OF EXISTING CATCH BASIN. CORE HOLE SHALL HAVE A HOLE WITH RADIUS 1" LARGER IN SIZE THAN DRAIN PIPE RADIUS. VERIFY THAT CORE HOLE WILL BE MINIMUM 1/10' ABOVE FINISH FLOOR OF CATCH BASIN. INSTALL DRAIN PIPE THROUGH CORE HOLE AND FINISH GROUT HOLE TO FULLY CLOSE. THE PIPE SHALL BE NEATLY TRIMMED TO A FLUSH SURFACE WITH THE INSIDE WALL OF THE CATCH BASIN BOX AND THE GROUT SHALL BE FINISHED FLUSH WITH THE INSIDE WALL OF THE BOX.
4. INSTALL CATCH BASIN PER DETAIL "D" ON SHEET C-3.
5. INSTALL CATCH BASIN PER DETAIL "E" ON SHEET C-3. COORDINATE LOCATIONS WITH PLAY EQUIPMENT LAYOUT PLANS AND POLE LOCATIONS.
6. SEE WALL PROFILES FOR PLAY AREA WALL ELEVATIONS, DETAIL "G" SHEET C-4.
7. IF DURING GRADING OPERATIONS AN EXCESS OF EARTH BECOMES APPARENT, THE CONTRACTOR SHALL USE THIS AREA FOR FILL CONFORMING AS NEARLY AS POSSIBLE TO THE FINISH GRADES SHOWN AND INSURING POSITIVE DRAINAGE WITHOUT ADDITIONAL COST TO THE CITY.
8. IF DURING GRADING OPERATIONS A DEFICIENCY OF EARTH BECOMES APPARENT, THE CONTRACTOR SHALL USE THIS AREA FOR BORROW CONFORMING AS NEARLY AS POSSIBLE TO THE FINISH GRADES SHOWN AND INSURING POSITIVE DRAINAGE WITHOUT ADDITIONAL COST TO THE CITY.
9. INSTALL SAND AREA SUMP PER DETAIL "F", SHEET C-4.

GRADING NOTES:

1. ALL GRADING SHALL CONFORM TO CHAPTER 70 OF THE CURRENT CITY-ADOPTED EDITION OF THE UNIFORM BUILDING CODE.
2. ALL PROVISIONS OF THE PRELIMINARY SOILS REPORT PREPARED BY ZEISER GEOTECHNICAL, INC., DATED APRIL 21, 1993 SHALL BE COMPLIED WITH DURING GRADING OPERATIONS. CITY BUSINESS TAX CERTIFICATE NO. 041820, EXP. DATE 3/27/95.
3. THIS PLAN IS FOR GRADING PURPOSES ONLY. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, BUILDING LOCATIONS, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION.
4. CERTIFICATION FROM THE REGISTERED LANDSCAPE ARCHITECT, STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND A COMPACTION REPORT FROM THE SOIL ENGINEER FOR FILL AREAS ARE REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED.
5. CONTRACTOR IS RESPONSIBLE FOR EROSION, DUST AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS.
   - A. ALL MANUFACTURED SLOPES IN EXCESS OF 5 FEET IN VERTICAL HEIGHT ARE TO BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND, THEREAFTER, UNTIL INSTALLATION OF FINAL GROUNDCOVER. SEE LANDSCAPE PLANS FOR FINAL GROUNDCOVER).
   - B. ALL SLOPE PROTECTION SWALES TO BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.
   - C. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN AND ALSO TO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G., HYDROSEEDING, 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.
   - D. 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. THIS REQUIREMENT SHALL REMAIN IN EFFECT UNTIL CITY ACCEPTANCE OF THE PROJECT THAT DRAINS ONTO CITY STREETS.
6. 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 SEPARATE 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 NECESSARY PERIMETER RETAINING WALLS.
7. ANY IMPROVEMENTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE A SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE PUBLIC WORKS DEPARTMENT.
8. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
9. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES.
10. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES.
11. 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.
12. EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
13. FOR GRADING OF AREAS OF 5 ACRES OR MORE, 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.
14. OFFSET CONTOUR ELEVATIONS ARE NOT SHOWN ON CONCRETE WALKS AND STRUCTURE PADS. CONTRACTOR SHALL ALLOW FOR 1" RISE AT WALKS WHERE THEY ARE ADJACENT TO TURF AND A 2" RISE WHERE THEY ARE ADJACENT TO SHRUB OR GROUND COVER AREAS PER CONSTRUCTION DETAILS.
15. ALL WALK CONSTRUCTION SHALL BE IN COMPLIANCE WITH TITLE 24 AND THE AMERICANS WITH DISABILITIES ACT (ADA). MAXIMUM SLOPE ON ALL WALKS SHALL NOT EXCEED 4.75%. MAXIMUM CROSS SLOPE ON ALL WALKS SHALL NOT EXCEED 2%.

T.B.M. 36.23 - TOP OF CURB @ BCR PER PLAN R-2298, SHEET 4.

NOTE: PER ADA REQUIREMENTS CROSS SLOPE ON ALL PEDESTRIAN AREAS SHALL NOT EXCEED 2% AS MEASURED PERPENDICULAR TO TRAVEL ALONG THE PATH.

LEGEND

MH	Existing Manhole
SD	Existing Storm Drain
E	Existing Electrical
W	Existing Water Line
S	Existing Sewer
TS	Top Sump
~~	Existing Contour
———	Proposed Contour
ETC	Existing Top Curb
EFL	Existing Flow Line
TC	Top Curb
FS	Finish Surface
FG	Finish Grade
TW	Top Wall
HP	High Point
CB	Catch Basin
IE	Inlet Elevation
IN	Invert Elevation
●●●●	8" Diameter Drain Pipe
←—	Direction Water Flow on Hardscape
←—	Swale, Direction Water Flow on Landscape

CUT/FILL QUANTITIES:

RAW QUANTITIES		ADJUSTED QUANTITIES	
CUT	4,166CY	CUT	3,958 CY
FILL	3,277 CY	FILL	4,008 CY

ADJUSTED QUANTITIES ASSUME A SHRINKAGE FACTOR OF 5% AND SUBSIDENCE OF 2"

APPROXIMATE TOTAL ACREAGE = 4.5 ACRES

North

Scale 1" = 20' - 0"

PARK AND RECREATION DEPARTMENT	
APPROVED:	DATE: 3-14-95
PLANNING DEPARTMENT	
APPROVED:	DATE: 3/14/95

PELA

REGISTERED LANDSCAPE ARCHITECT PAMELA M. ELLIOTT No. 2547 STATE OF CALIFORNIA

PAMELA M. ELLIOTT
LANDSCAPE ARCHITECT
4883 BROCKTON AVENUE, RIVERSIDE, CA 92506
(909) 276-0250

REGISTRATION NUMBER 2012

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER

TH-28

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

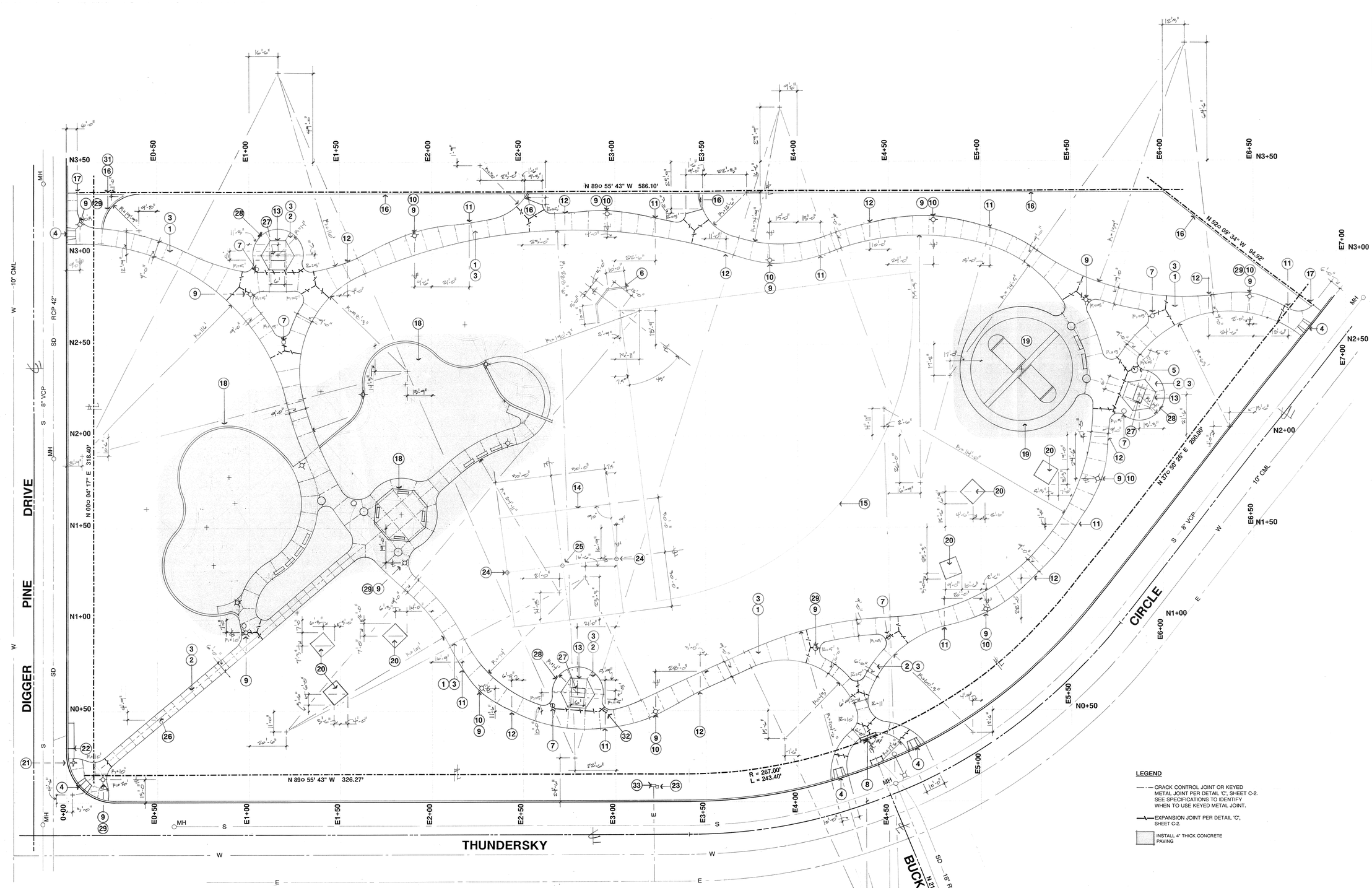
Grading Plan

ORANGECREST PARK SITE #2

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

P-0306

sheet G-1



Construction Plan

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet **C-1**

PELA

REGISTERED LANDSCAPE ARCHITECT
PAMELA M. ELLIOTT
No. 3766
EXPIRES 12-31-2013
STATE OF CALIFORNIA

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDER'S NUMBER/STAMP

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDER'S NUMBER/STAMP

DRAWING NUMBER
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RECORDER'S NUMBER/STAMP

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDER'S NUMBER/STAMP

LEGEND

- CRACK CONTROL JOINT OR KEYED METAL JOINT PER DETAIL 'C', SHEET C-2. SEE SPECIFICATIONS TO IDENTIFY WHEN TO USE KEYED METAL JOINT.
- EXPANSION JOINT PER DETAIL 'C', SHEET C-2.
- INSTALL 4" THICK CONCRETE PAVING

North

Scale 1" = 20' - 0"

CONSTRUCTION NOTES:

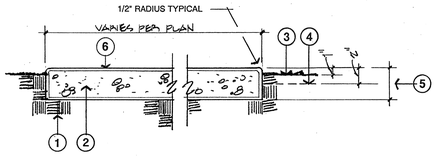
1. CONTRACTOR SHALL INSTALL 6" THICK CONCRETE WALK PER DETAIL "A", SHEET C-2. THESE WALKS ARE DESIGNATED FOR MAINTENANCE VEHICLE TRAFFIC.
2. CONTRACTOR SHALL INSTALL 4" THICK CONCRETE WALK PER DETAIL "A", SHEET C-2.
3. CONTRACTOR SHALL INSTALL CONTROL JOINT PER DETAIL "C", SHEET C-2 & FINISH PER "B", SHEET C-2.
4. CONTRACTOR SHALL INSTALL CONCRETE HANDICAP RAMP PER CITY OF RIVERSIDE STANDARD DETAIL 304. AS A PART OF ADDITIVE ALTERNATE BID ITEM 'C' CONTRACTOR SHALL REPLACE CURB, GUTTER AND ASPHALT AS REQUIRED FOR COMPLETE INSTALLATION OF HANDICAP RAMP PER SPECIFICATIONS. IF ADDITIVE ALTERNATE 'C' IS AWARDED, CONTRACTOR SHALL PATCH ALL ASPHALT WHICH IS REMOVED AS A RESULT PER SPECIFICATIONS.
5. CONTRACTOR SHALL INSTALL DRINKING FOUNTAIN PER DETAILS "D", "E", "F", "G", "H", AND "L", SHEET C-2.
6. CONTRACTOR SHALL INSTALL CHAIN LINK BACKSTOP PER DETAIL "B", SHEET C-4.
7. CONTRACTOR SHALL INSTALL TRASH CONTAINER PER DETAIL "C", SHEET C-4.
8. **ADDITIVE BID ITEM 'G':** CONTRACTOR SHALL INSTALL CONCRETE MONUMENT SIGNAGE PER DETAIL 'D', SHEET C-4. CENTER MONUMENT SIGN ON CENTER LINE OF BUCK BUSH LANE. BACK CORNERS OF MONUMENT SHALL MEET WITH CONCRETE WALK RADIUS. CONCRETE WALK SHALL MEET BACK OF MONUMENT.
9. CONTRACTOR SHALL INSTALL LIGHT AT LOCATION INDICATED. FACE OF LIGHT POST SHALL BE 8" IN FROM EDGE OF WALK. SEE ELECTRICAL PLANS SHEETS E-1 -E-3 FOR INSTALLATION DETAILS AND WIRING.
10. CONTRACTOR SHALL FLARE WALK TO 10'-6" WIDTH TO ALLOW ADDITIONAL WALK WIDTH FOR INCORPORATION OF LIGHT POLE. TYPICAL.
11. BEGIN CONCRETE WALK FLARE.
12. END CONCRETE WALK FLARE.
13. CONTRACTOR SHALL INSTALL SMALL SHADE STRUCTURE 'B' PER SPECIFICATIONS AND DETAILS "B", SHEET C-5.
14. LIMITS OF TURF VOLLEYBALL COURT.
15. LIMITS OF TURF BALLFIELD.
16. CONTRACTOR SHALL INSTALL CONCRETE MOWSTRIP PER DETAIL "C", SHEET L-2. MEET AND MATCH ADJACENT HARDSCAPE WHERE OCCURS.
17. TOP OF CONCRETE MOWCURB SHALL MEET AND MATCH TOP OF CONCRETE WALK.
18. SEE DETAIL 'G', SHEET C-3 FOR PLAY AREA/LARGE SHADE STRUCTURE 'A' ENLARGEMENT PLAN AND CONSTRUCTION NOTES.
19. SEE DETAIL "H", SHEET C-4 FOR BASKETBALL COURT ENLARGEMENT PLAN AND CONSTRUCTION NOTES.
20. CONTRACTOR SHALL INSTALL PICNIC TABLE AND CONCRETE SLAB PER DETAIL "K", SHEET C-2.
21. EXISTING STREET SIGN TO REMAIN. PROTECT IN PLACE.
22. TOP OF CONCRETE WALK TO MEET AND MATCH TOP OF EXISTING STORM DRAIN CONCRETE.
23. CONTRACTOR SHALL COORDINATE LOWERING OF TELEPHONE BOX PER SHEET D-1.
24. INSTALL VOLLEYBALL END POST PER DETAIL "E", SHEET C-4.
25. INSTALL VOLLEYBALL CENTER POST PER DETAIL "E", SHEET C-4.
26. ALIGN CENTER OF 6' WALK WITH CENTER OF LARGE SHADE STRUCTURE.
27. CONTRACTOR SHALL INSTALL PICNIC TABLE PER DETAIL "K", SHEET C-2. CENTER TABLE IN SHADE STRUCTURE.

ADDITIVE ALTERNATE BID ITEMS

28. AS A PART OF ADDITIVE ALTERNATE BID ITEM 'B' CONTRACTOR SHALL INSTALL ALL ITEMS IN SHADED PORTION OF CONCRETE INCLUDING CONCRETE PAVING, PICNIC TABLES, SMALL SHADE STRUCTURES, TRASH RECEPTACLES, AND DRINKING FOUNTAIN WHERE PRESENT.

    IF ADDITIVE ALTERNATE 'B ' IS NOT AWARDED CONTRACTOR SHALL INSTALL DRINKING FOUNTAIN SUPPLY LINE AND CAP WATER LINE IN VALVE BOX AT DRINKING FOUNTAIN LOCATION. AS A PART OF THE BASE BID, IRRIGATION AND PLANTING SHALL BE INSTALLED IN LIEU OF SHADE STRUCTURE FACILITIES PER IRRIGATION AND PLANTING PLANS. SEE SHEETS I-1 & L-1.

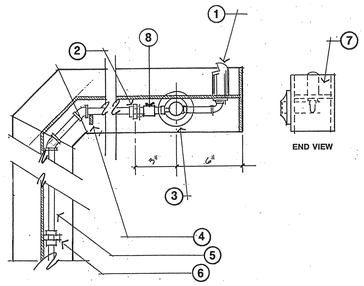
29. CONTRACTOR SHALL INSTALL SIGNAGE AS SUPPLIED BY CITY. CONTRACTOR SHALL SUPPLY METAL STRAPS, 'BANDIT' OR APPROVED EQUAL (2 MINIMUM PER SIGN), AND OTHER NECESSARY MATERIALS AS REQUIRED TO PROVIDE COMPLETE INSTALLATION. INSTALL ON LIGHT POLE AT HEIGHT AS DIRECTED BY CITY INSPECTOR. FACE SIGN IN DIRECTION AS DIRECTED BY CITY INSPECTOR.
30. CONTRACTOR SHALL INSTALL EXPANSION JOINT PER DETAIL 'C', SHEET C-2.
31. SEE IRRIGATION PLAN, SHEET I-1 AND COORDINATE LAYOUT OF CONCRETE FOR CONTROLLER WITH MOW CURB.
32. INSTALL SERVICE METER PEDESTAL. INSTALL OUTSIDE EDGE 8" IN FROM EDGE OF WALK. SEE DETAIL 'B', SHEET E-2. PRECISE LOCATION SHALL BE AS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
33. EXISTING ELECTRICAL PULL BOX. SEE ELECTRICAL PLAN, SHEET E-1.



LEGEND

1. COMPACTED EARTH PER SPECS.
2. CONCRETE PER SPECS. SLOPE SLAB OR WALK TO DRAIN. MINIMUM 1% TO MAXIMUM 2%.
3. FINISHED GRADE AT TURF.
4. FINISHED GRADE AT PLANTER AREA.
5. SEE CONSTRUCTION PLAN FOR WALK THICKNESS. WALKS AS DESIGNATED FOR MAINTENANCE VEHICLE TRAFFIC SHALL BE 6" THICK. OTHERS SHALL BE 4" THICK.

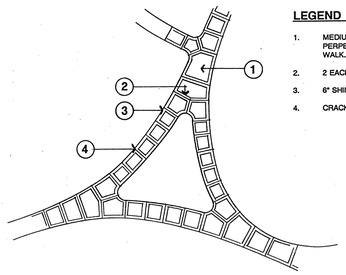
A CONCRETE



LEGEND

1. BUBBLER SHALL BE HAWS MODEL 5708 POLISHED CHROME. DRILL WED +/- 27/32" TO RECEIVE BUBBLER. PROVIDE PLUMBERS PUTTY OR GASKET SEAL UNDER BUBBLER - HAWS (213) 724-1120.
2. 1/2" GALV. UNION.
3. CONTROL PUSH BUTTON & FLOW CONTROL SHALL BE MURDOCK SELF-CLOSING PUSH BUTTON WITH VANDAL GUARD @ PIERCE & ASSOC. (800) 750-4442. BUTTON BODY, 1-1/4" DIAMETER HOLE, GUARD 2 NO. 25 PILOT HOLE & 10/24" TAP IN FLANGE.
4. WELD 1/4" x 1-1/2" WIDTH PIPE SUPPORT INSIDE FLANGE.
5. 1/2" DIAMETER GALV. PIPE.
6. 1/2" GALV. UNION.
7. FABRICATE 1/4" THICK IRON PLATE & WELD TO "H".
8. 1/2" INLINE FILTER W/ SHUTOFF & 150 MESH ELEMENT W/ FLUSH CAPABILITY. AGRIFIM MODEL IS 50, (800)688-8108. PROVIDE ALL NECESSARY ADAPTERS AND FITTINGS FOR COMPLETE INSTALLATION.

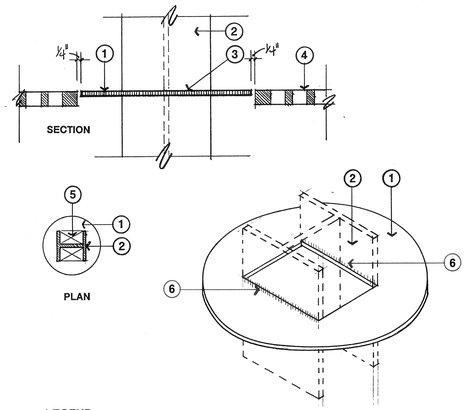
E DRINKING FOUNTAIN (DETAIL)



LEGEND

1. MEDIUM BROOM FINISH INTERIORS PERPENDICULAR TO DIRECTION OF WALK.
2. 2 EACH, 6" SHINERS.
3. 6" SHINER @ EDGES.
4. CRACK CONTROL JOINTS PER PLAN.

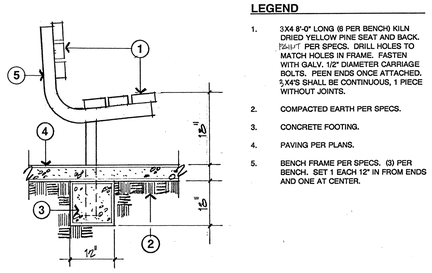
B CONCRETE FINISH



LEGEND

1. 1/2" THICK, ROUND STEEL PLATE COLLAR, 1/2" LESS IN DIAMETER THAN TREE GRATE OPENING. TOP OF PLATE SHALL MATCH TOP OF ADJACENT TREE GRATE ON HIGH SIDE. WELD PLATE LEVEL.
2. W6 "H" FOUNTAIN COLUMN.
3. CONTINUOUS FILLET WELD TOP AND BOTTOM , ALL SIDES.
4. TREE GRATE.
5. OPEN ON EACH SIDE OF "H" TO ALLOW DRAINAGE AND INSTALLATION OF PLUMBING.
6. WELD TOP AND BOTTOM.

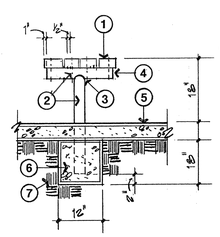
F DRINKING FOUNTAIN (DETAIL)



LEGEND

1. 3X4 8'-0" LONG (6 PER BENCH) KILN DRIED YELLOW PINE SEAT AND BACK. FINISH PER SPECS. DRILL HOLES TO MATCH HOLES IN FRAME. FASTEN WITH GALV. 1/2" DIAMETER CARRIAGE BOLTS. PEEN ENDS ONCE ATTACHED. 2-2X4'S SHALL BE CONTINUOUS, 1 PIECE WITHOUT JOINTS.
2. COMPACTED EARTH PER SPECS.
3. CONCRETE FOOTING.
4. PAVING PER PLANS.
5. BENCH FRAME PER SPECS. (3) PER BENCH. SET 1 EACH 12" IN FROM ENDS AND ONE AT CENTER.

I BENCH W/ BACK

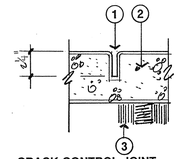


LEGEND

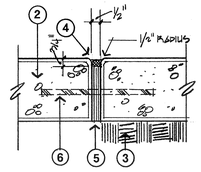
1. 3X4 8'-0" LONG (4 PER BENCH) KILN DRIED YELLOW PINE SEAT. FINISH PER SPECS. DRILL HOLES IN WOOD TO MATCH FRAME. FASTEN WITH 2 GALVANIZED 1/2" DIAMETER CARRIAGE BOLTS AT EACH FRAME. PEEN ENDS ONCE ATTACHED. 3 X4'S SHALL BE CONTINUOUS, 1 PIECE WITHOUT JOINTS.
2. GALVANIZED STEEL PIPE PER SPECS. 3 PER BENCH. PRE-DRILL HOLES TO ACCEPT 1/2" DIAMETER CARRIAGE BOLTS WHICH WILL ATTACH WOOD SEATING. VERTICAL POST SHALL BE SHAPED WITH SADDLE AT TOP TO ACCEPT HORIZONTAL BENCH FRAME.
3. CONTINUOUS FILLET WELD VERTICAL POST TO HORIZONTAL BENCH FRAME.
4. CONTINUOUS FILLET WELD CAP ON EACH END OF HORIZONTAL BENCH FRAME. GRIND WELDS SMOOTH PRIOR TO HOT DIP GALVANIZING.
5. PAVING PER PLANS.
6. CONCRETE FOOTING.
7. COMPACTED EARTH.

NOTE
UPON COMPLETION OF FABRICATION OF FRAME, GRIND ALL WELDS SMOOTH AND HOT DIP GALVANIZE ENTIRE FRAME.

J BACKLESS BENCH



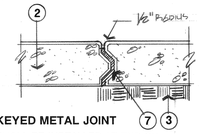
CRACK CONTROL JOINT



EXPANSION JOINT

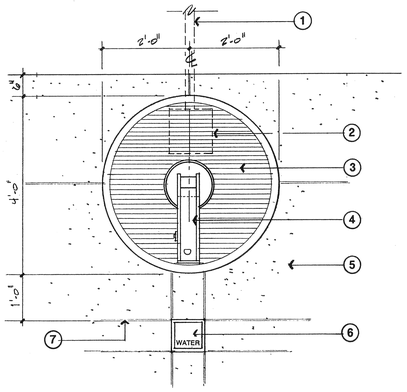
LEGEND

1. AFTER PRELIMINARY TROWELING THE CONCRETE SHALL BE PARTED WITH A STRAIGHT EDGE TO A DEPTH OF 2¼". JOINTS SHALL BE TOOLED WITH A 1/4" RADIUS AND SHALL OCCUR AT MAX. 9' - 0" O.C. SEE PLAN FOR LAYOUT.
2. CONCRETE PER SPECIFICATIONS.
3. COMPACTED EARTH PER SPECS.
4. POLYURETHANE CAULKING.
5. PREMOLDED FIBER EXPANSION JOINT.
6. 12" LONG #4 SMOOTH DOWEL AT 24" O.C.
7. KEYED METAL JOINT PER SPECIFICATIONS.



KEYED METAL JOINT
SHALL BE INSTALLED AT END OF CONCRETE POURS PER SPECIFICATIONS.

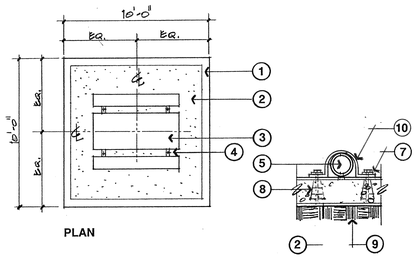
C CRACK CONTROL JOINTS



LEGEND

1. 3" DIAMETER PVC DRAIN PIPE TO SUMP, BELOW GRADE. (SEE DETAIL "H", THIS SHEET).
2. CATCH BASIN PER SPECS. INSTALL PER DETAIL 'D' THIS SHEET.
3. TREE GRATE PER SPECIFICATIONS. INSTALL PER DETAIL 'L' THIS SHEET.
4. WATER FOUNTAIN.
5. CONCRETE PAVING PER PLAN.
6. BALL VALVE IN SQUARE VALVE BOX PER SPECS..
7. CRACK CONTROL JOINT PER PLAN.

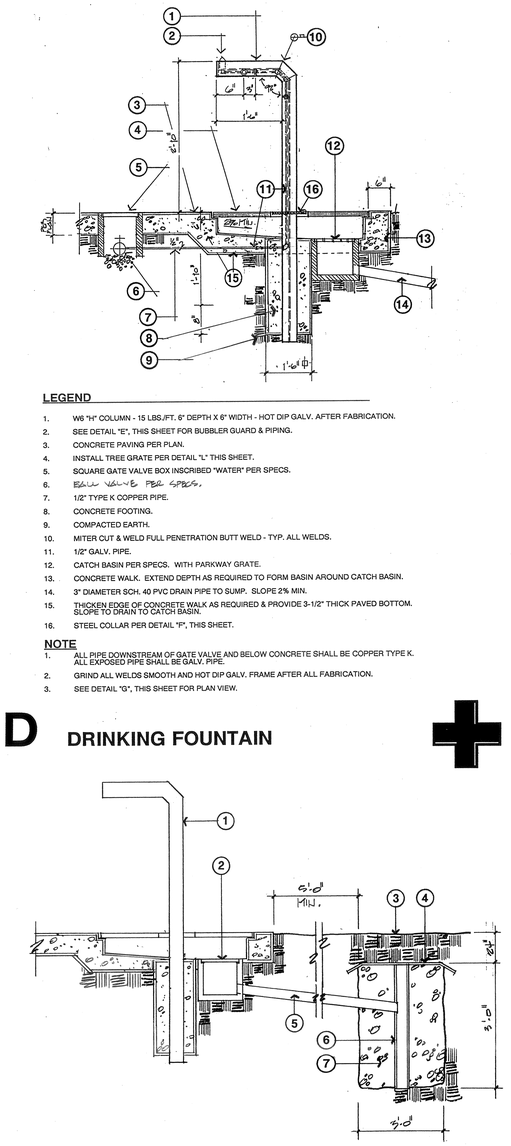
G DRINKING FOUNTAIN (PLAN VIEW)



LEGEND

1. 6" WIDTH SHINER.
2. 4" THICK CONCRETE PAD. MEDIUM BROOM FINISH. SLOPE PAD 1% TO DRAIN. SEE DETAIL "A", SHEET C-2 FOR CROSS SECTION OF CONCRETE PAD.
3. PICNIC TABLE PER SPECIFICATIONS. CENTER TABLE ON PAD.
4. SECURE TABLE TO CONCRETE PAD PER NOTES 5 & 6. TYPICAL FOUR CORNERS OF TABLE.
5. PICNIC TABLE BASE FRAME.
6. 1/2"-DIAMETER X 3-3/4" LENGTH LAG SCREWS WITH RED HEAD EXPANSION SHIELDS. 8 PER TABLE, LOCATED AT CORNERS, SEE PLAN. TACK WELD TO CLAMP AFTER INSTALLATION. DE-BURR & SMOOTH. PAINT WITH GALVICON.
7. WASHER AS REQUIRED.
8. RED HEAD EXPANSION SHIELD.
9. COMPACTED EARTH.
10. HEAVY DUTY GALVANIZED PIPE CLAMP.

K PICNIC TABLE



LEGEND

1. W6 "H" COLUMN - 15 LBS./FT. 6" DEPTH X 6" WIDTH - HOT DIP GALV. AFTER FABRICATION.
2. SEE DETAIL "E", THIS SHEET FOR BUBBLER GUARD & PIPING.
3. CONCRETE PAVING PER PLAN.
4. INSTALL TREE GRATE PER DETAIL "L" THIS SHEET.
5. SQUARE GATE VALVE BOX INSCRIBED "WATER" PER SPECS.
6. BALL VALVE PER SPECS.
7. 1/2" TYPE K COPPER PIPE.
8. CONCRETE FOOTING.
9. COMPACTED EARTH.
10. MITER CUT & WELD FULL PENETRATION BUTT WELD - TYP. ALL WELDS.
11. 1/2" GALV. PIPE.
12. CATCH BASIN PER SPECS. WITH PARKWAY GRATE.
13. CONCRETE WALK. EXTEND DEPTH AS REQUIRED TO FORM BASIN AROUND CATCH BASIN.
14. 3" DIAMETER SCH. 40 PVC DRAIN PIPE TO SUMP. SLOPE 2% MIN.
15. THICKEN EDGE OF CONCRETE WALK AS REQUIRED & PROVIDE 3-1/2" THICK PAVED BOTTOM. SLOPE TO DRAIN TO CATCH BASIN.
16. STEEL COLLAR PER DETAIL "F", THIS SHEET.

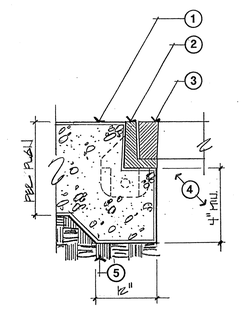
NOTE
1. ALL PIPE DOWNSTREAM OF GATE VALVE AND BELOW CONCRETE SHALL BE COPPER TYPE K. ALL EXPOSED PIPE SHALL BE GALV. PIPE.
2. GRIND ALL WELDS SMOOTH AND HOT DIP GALV. FRAME AFTER ALL FABRICATION.
3. SEE DETAIL "G", THIS SHEET FOR PLAN VIEW.

D DRINKING FOUNTAIN

LEGEND

1. DRINKING FOUNTAIN PER DETAIL "D", THIS SHEET.
2. CATCH BASIN PER SPECS.. WITH PARKWAY GRATE.
3. FINISH GRADE.
4. TREVIRA SPUN BOUND FABRIC.
5. 3" DIAMETER SCH. 40 PVC DRAIN PIPE. SLOPE 2% TO SUMP.
6. 4" DIAMETER NON-METALLIC PERFORATED DRAIN PIPE.
7. 3/4" DIAMETER DRAIN ROCK SUMP, 1 CU.YD.

H DRINKING FOUNTAIN (SUMP)



LEGEND

1. CONCRETE PAVING PER PLANS. THICKEN EDGE @ TREE WELL LOCATIONS
2. TREE GRATE ANGLE FRAME PER SPECS.
3. TREE GRATE PER SPECS.
4. TREE WELL OR FOUNTAIN WELL.
5. COMPACTED EARTH.

L TREE GRATE

PELA

REGISTERED LANDSCAPE ARCHITECT — CHRISTOPHER M. ELLIOTT — STATE OF CALIFORNIA

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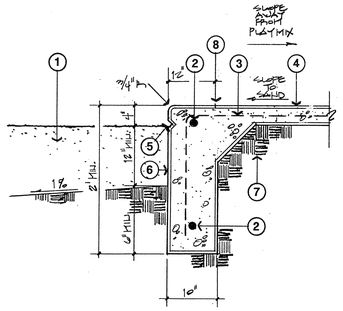
Construction Details

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

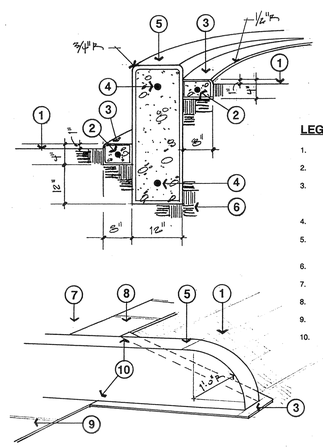
sheet C-2



LEGEND

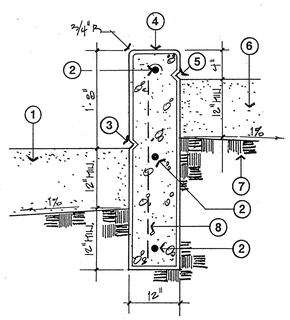
1. PLAY MIX OR SAND PER PLAY AREA ENLARGEMENT DETAIL "G", THIS SHEET AND PER SPECS. 12" MINIMUM DEPTH AFTER SETTLEMENT.
2. #4 BAR, CONTINUOUS.
3. #4 BAR @ 24" O.C., MINIMUM 10' LENGTH FROM CURB FACE.
4. CONCRETE WALK OR SLAB. POUR CONTINUOUS WITH PLAY AREA CURB. SLOPE AWAY AT PLAY MIX, SLOPE TOWARDS SAND PER GRADING PLAN.
5. 1" DEEP CHAMFER (45 DEGREE) CONTINUOUS AROUND ENTIRE PERIMETER OF PLAY AREA. BOTTOM EDGE OF CHAMFER AT 4" BELOW TOP OF CURB WHERE CURB IS ADJACENT TO WALK. CHAMFER SHALL BE AT CONTINUOUS LEVEL ELEVATION AROUND PERIMETER OF PLAY AREA.
6. PLAY AREA CONCRETE CURB. POUR CONTINUOUS WITH WALK. SMOOTH TROWEL FINISH ON TOP, SACK FINISH ON FACES TO MINIMUM 12" BELOW CHAMFER.
7. COMPACTED EARTH.
8. END POINT OF SMOOTH TROWEL SHINER PLAY CURB AND BEGINNING WALK BROOM FINISH.

A PLAY AREA CURB @ WALK



LEGEND

1. FINISH GRADE
2. #3 BAR CONTINUOUS.
3. 8" WIDE MOW CURB. SMOOTH TROWEL FINISH ON TOP, SACK FINISH ON FACES TO MINIMUM 12" BELOW CHAMFER..
4. #4 BAR CONTINUOUS.
5. CONCRETE RETAINING WALL. SMOOTH TROWEL FINISH.
6. COMPACTED EARTH.
7. SAND PLAY AREA.
8. SAND PLAY AREA CONCRETE WALK.
9. LOWER PLAY AREA CONCRETE WALK.
10. MOW CURB AND PLAY AREA WALK SHALL MEET AND MATCH FLUSH.



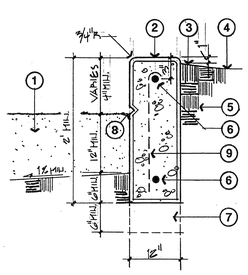
LEGEND

1. PLAY MIX PER SPECS. 12" MINIMUM DEPTH AFTER SETTLEMENT.
2. #4 BAR CONTINUOUS.
3. 1" DEEP CHAMFER (45 DEGREE) CONTINUOUS AROUND ENTIRE PERIMETER OF PLAY AREA. BOTTOM EDGE OF CHAMFER AT 4" BELOW TOP OF CURB WHERE CURB IS ADJACENT TO WALK (SEE DETAIL "G", PLAY AREA ENLARGEMENT, THIS SHEET). CHAMFER SHALL BE AT CONTINUOUS LEVEL ELEVATION AROUND PERIMETER OF PLAY AREA.
4. PLAY AREA CONCRETE CURB. SMOOTH TROWEL FINISH ON TOP, SACK FINISH ON FACES TO MINIMUM 12" BELOW CHAMFER.
5. 1" DEEP CHAMFER (45 DEGREE) CONTINUOUS AROUND ENTIRE PERIMETER OF SAND AREA. BOTTOM EDGE OF CHAMFER 4" BELOW TOP OF CURB. CHAMFER SHALL BE AT CONTINUOUS LEVEL ELEVATION AROUND PERIMETER OF SAND AREA.
6. PLAY AREA SAND PER SPECS.
7. COMPACTED EARTH.
8. #4 VERTICAL BAR AT 24" O.C.

B PLAY AREA CURB (BETWEEN PLAY AREAS)

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL INSTALL BENCH WITH BACK PER DETAIL "I", SHEET C-2. (TYPICAL OF 3).
2. CONTRACTOR SHALL INSTALL BACKLESS BENCH PER DETAIL 'J', SHEET C-2. (TYPICAL OF 4).
3. CONTRACTOR SHALL INSTALL PLAY AREA CURB WITH WALK PER DETAIL "A" THIS SHEET.
4. CONTRACTOR SHALL INSTALL PLAY AREA CURB WITH WALK PER DETAIL "A" THIS SHEET.
5. CONTRACTOR SHALL INSTALL PLAY AREA CURB PER DETAIL "C" THIS SHEET.
6. CONTRACTOR SHALL INSTALL PLAY AREA CURB PER DETAIL"B" THIS SHEET.
7. CONTRACTOR SHALL INSTALL PLAY AREA CURB END WITH MOW CURB PER DETAIL "E" THIS SHEET.
8. CONTRACTOR SHALL INSTALL PLAY AREA CATCH BASIN PER GRADING PLAN.
9. CONTRACTOR SHALL INSTALL DRINKING FOUNTAIN PER DETAILS "D", "E", "F", "G", "H" & "L" SHEET C-2.
10. CONTRACTOR SHALL INSTALL TRASH CONTAINER PER DETAIL "C", SHEET C-4.



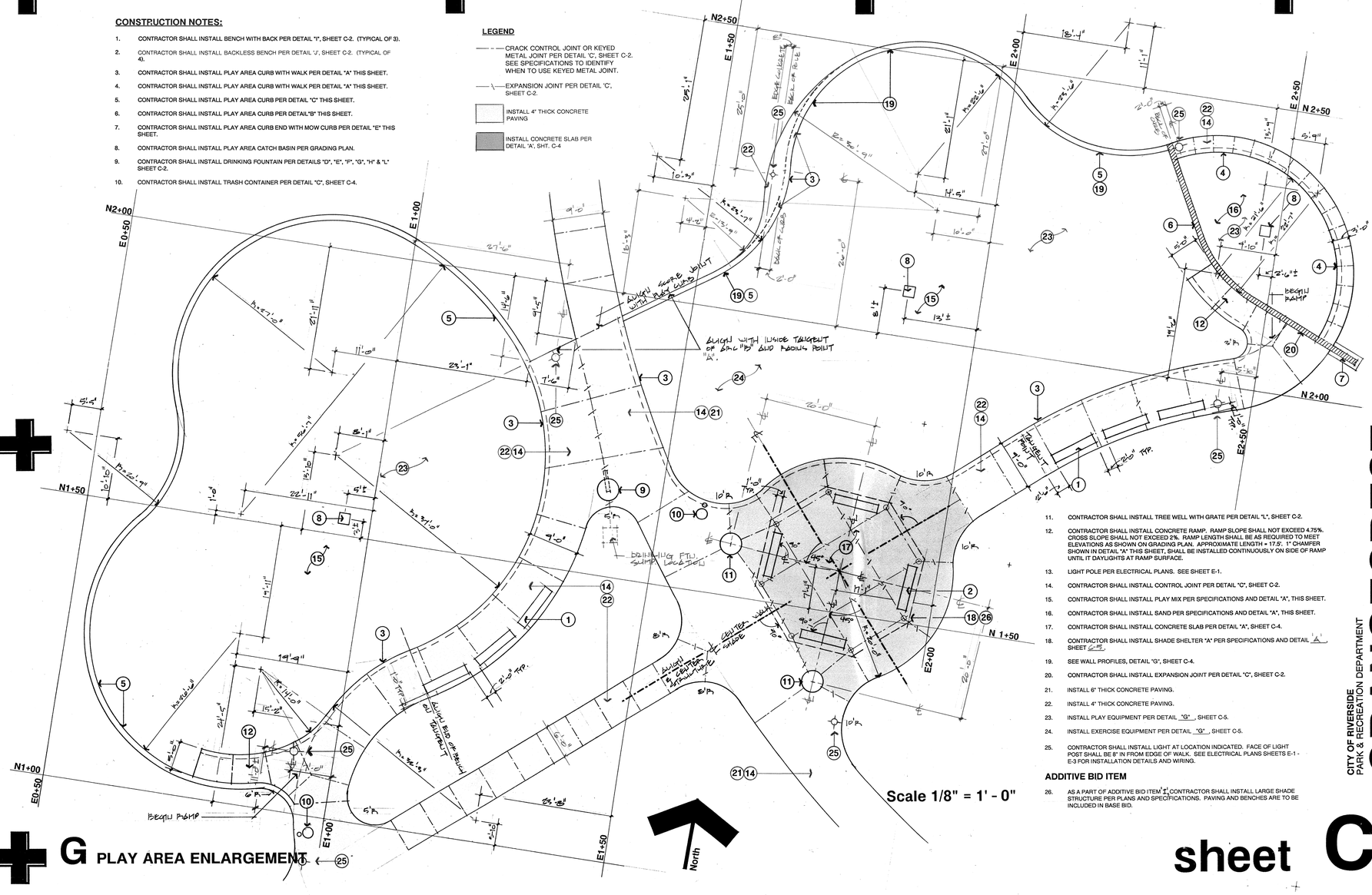
LEGEND

1. PLAY MIX PER SPECS. 12" MINIMUM DEPTH AFTER SETTLEMENT.
2. PLAY AREA CONCRETE CURB. SMOOTH TROWEL FINISH ON TOP, SACK FINISH ON FACES TO MINIMUM 12" BELOW CHAMFER.
3. FINISH GRADE AT LAWN.
4. SLOPE AWAY FROM PLAY AREA. SLOPE VARIES. SEE GRADING PLAN.
5. COMPACTED EARTH.
6. #4 BAR, CONTINUOUS.
7. CURB EXTENSION. WHERE PLAY AREA CURB RETAINS MORE THAN 2' FROM BOTTOM OF PLAY MIX TO TOP OF FINISH GRADE, EXTEND FOOTING TO 12" MINIMUM BELOW BOTTOM OF PLAY MIX INTO COMPACTED EARTH.
8. 1" DEEP CHAMFER (45 DEGREE) CONTINUOUS AROUND ENTIRE PERIMETER OF AREA. BOTTOM EDGE OF CHAMFER AT 4" BELOW TOP OF CURB WHERE CURB IS ADJACENT TO WALK (SEE DETAIL "G", PLAY AREA ENLARGEMENT, THIS SHEET). CHAMFER SHALL BE AT CONTINUOUS LEVEL ELEVATION AROUND PERIMETER OF PLAY AREA.
9. #4 VERTICAL BAR AT 24" O.C. WHERE CURB HEIGHT EXCEEDS 2'-6".

C PLAY AREA CURB

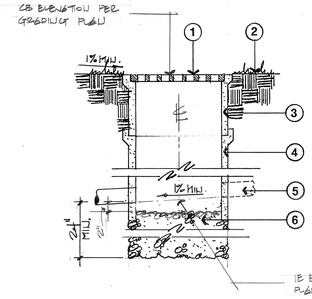
LEGEND

- CRACK CONTROL JOINT OR KEYED METAL JOINT PER DETAIL 'C', SHEET C-2. SEE SPECIFICATIONS TO IDENTIFY WHEN TO USE KEYED METAL JOINT.
- EXPANSION JOINT PER DETAIL 'C', SHEET C-2.
- INSTALL 4" THICK CONCRETE PAVING
- INSTALL CONCRETE SLAB PER DETAIL 'A', SHT. C-4



Scale 1/8" = 1' - 0"

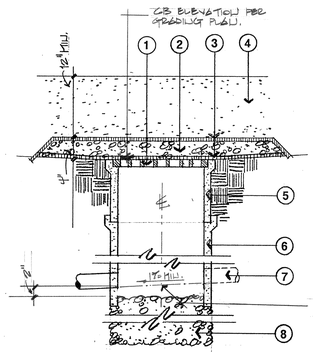
D CATCH BASIN (IN TURF)



LEGEND

1. GRATE PER SPECIFICATIONS.
2. FINISH GRADE
3. CATCH BASIN PER SPECIFICATIONS.
4. EXTENSIONS AS NECESSARY.
5. DRAIN PIPE PER PLANS.
6. 24" DEEP, 3/4" DRAIN ROCK. WIDTH TO MATCH CATCH BASIN, 12" DIAMETER MINIMUM.

E PLAY AREA CURB (END DETAIL)



LEGEND

1. GRATE PER SPECIFICATIONS.
2. 36" DIAMETER LAYER OF 3/4" DRAIN ROCK.
3. FILTER FABRIC PER SPECIFICATIONS.
4. PLAY MIX OR SAND PER PLANS.
5. CATCH BASIN PER SPECIFICATIONS.
6. EXTENSIONS AS NECESSARY.
7. DRAIN PIPE PER PLAN.
8. 24" DEEP, 3/4" DRAIN ROCK. WIDTH TO MATCH CATCH BASIN, 12" DIAMETER MINIMUM.

F CATCH BASIN (IN PLAY AREA)

G PLAY AREA ENLARGEMENT

11. CONTRACTOR SHALL INSTALL TREE WELL WITH GRATE PER DETAIL "L", SHEET C-2.
12. CONTRACTOR SHALL INSTALL CONCRETE RAMP. RAMP SLOPE SHALL NOT EXCEED 4.75%. CROSS SLOPE SHALL NOT EXCEED 2%. RAMP LENGTH SHALL BE AS REQUIRED TO MEET ELEVATIONS AS SHOWN ON GRADING PLAN. APPROXIMATE LENGTH = 17.5'. 1" CHAMFER SHOWN IN DETAIL "A" THIS SHEET, SHALL BE INSTALLED CONTINUOUSLY ON SIDE OF RAMP UNTIL IT DAYLIGHTS AT RAMP SURFACE.
13. LIGHT POLE PER ELECTRICAL PLANS. SEE SHEET E-1.
14. CONTRACTOR SHALL INSTALL CONTROL JOINT PER DETAIL "C", SHEET C-2.
15. CONTRACTOR SHALL INSTALL PLAY MIX PER SPECIFICATIONS AND DETAIL "A", THIS SHEET.
16. CONTRACTOR SHALL INSTALL SAND PER SPECIFICATIONS AND DETAIL "A", THIS SHEET.
17. CONTRACTOR SHALL INSTALL CONCRETE SLAB PER DETAIL "A", SHEET C-4.
18. CONTRACTOR SHALL INSTALL SHADE SHELTER "A" PER SPECIFICATIONS AND DETAIL A, SHEET G-5.
19. SEE WALL PROFILES, DETAIL "G", SHEET C-4.
20. CONTRACTOR SHALL INSTALL EXPANSION JOINT PER DETAIL "C", SHEET C-2.
21. INSTALL 6" THICK CONCRETE PAVING.
22. INSTALL 4" THICK CONCRETE PAVING.
23. INSTALL PLAY EQUIPMENT PER DETAIL "G" , SHEET C-5.
24. INSTALL EXERCISE EQUIPMENT PER DETAIL "G" , SHEET C-5.
25. CONTRACTOR SHALL INSTALL LIGHT AT LOCATION INDICATED. FACE OF LIGHT POST SHALL BE 8" IN FROM EDGE OF WALK. SEE ELECTRICAL PLANS SHEETS E-1 - E-3 FOR INSTALLATION DETAILS AND WIRING.

ADDITIVE BID ITEM

26. AS A PART OF ADDITIVE BID ITEM '1', CONTRACTOR SHALL INSTALL LARGE SHADE STRUCTURE PER PLANS AND SPECIFICATIONS. PAVING AND BENCHES ARE TO BE INCLUDED IN BASE BID.

PELA

ELLIOTT LOW PE 17 DATE 12/31/2010 REGISTERED LANDSCAPE ARCHITECT STATE OF CALIFORNIA

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RECEIVED BY NUMBER STAMP

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sheet C-3

LEGEND

1. CONCRETE SLAB, MEDIUM BROOM FINISH.
2. 6X6 10/10 WELDED WIRE MESH CENTERED IN CONCRETE SLAB.
3. 1/2" DIAMETER X 24" LONG SMOOTH STEEL ROD CENTERED IN CONCRETE SLAB @ 36" 0.C.
4. EXPANSION JOINT PER DETAIL "C", SHEET C-2.
5. SAND BASE.
6. AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
7. COMPACTED EARTH.

A REINFORCED CONCRETE SLAB

LEGEND

1. CAP ALL POSTS, TYPICAL.
2. 1.66 INCH DIAMETER GALVANIZED TOP, MID & BOTTOM RAIL.
3. CHAIN LINK FABRIC SHALL BE 1-3/4" MESH, 9 GAUGE, KNUCKLED SELVAGE TOP & BOTTOM. INSTALL ON BALLFIELD SIDE OF FENCE.
4. 3.5 INCH DIAMETER, 7.58 LBS./FT. GALVANIZED POST. LOCATE AT ALL TURNS AND ENDS OF FENCING.
5. INSTALL 1'- 4 WIDE CONTINUOUS MOW CURB CENTERED ON FENCE. EXTEND 8" BEYOND END POSTS. PROVIDE 1/2" RADIUS ON TOP EDGES.
6. FINISH GRADE.
7. CONCRETE FOOTING.
8. COMPACTED EARTH.

B CHAIN LINK BACKSTOP

NOTE:
HOT DIP GALVANIZE ALL PARTS AFTER FABRICATION. ANY PARTS WHICH MUST BE WELDED AFTER DIPPING SHALL BE PAINTED WITH 2 COATS OF GALVICON OR EQUAL AFTER FABRICATION.

LEGEND

1. GALVANIZED METAL CAP WELDED TO TOP OF POST.
2. 2-1/2" DIA. X 5' LONG SCH. 40 GALV. STEEL POST.
3. 3" DIA. X 5" LONG SCH. 40 GALV. STEEL COLLAR W/ 1/2" DIA. X 5" LONG SHAPED GALV. STEEL BAR STOCK HOOK WELDED TO TOP OF COLLAR. PROVIDE 1" GAP BETWEEN HOOK & COLLAR. COLLAR TO SLIDE FREELY ON POST.
4. 1/2" SQ. X 2" LONG BAR STOCK WELDED VERTICALLY TO POST 18" FROM TOP TO ACT AS STOP FOR SLIDING COLLAR.
5. TRASH CONTAINER PER SPECS.
6. 1-1/2" X 1-1/2" X 1-1/2" LENGTH ANGLE IRON WELDED HORIZONTALLY TO POST 18" FROM BOTTOM. SUPPORT ANGLE IRON W/ 1" X 2" X 1/4" THICK STEEL WELDED VERTICALLY TO THE PIPE.
7. POST SHALL BE SET PLUMB IN CONC. SLAB OR SIDEWALK PER PLAN.
8. COMPACTED SUBGRADE.
9. MIN. 12" DIA. X 12" DEEP CONC. FOOTING.
10. STABILIZING CROSSBAR: MIN. 1/2" X 6" LENGTH REBAR TO BE FILLET WELDED TO POST. DRILL POST TO ACCEPT CROSSBAR.
11. FINISH GRADE.
12. POST LOCK EXTENSION: 1/4" THK. X 2" WIDTH, LENGTH AS REQUIRED, BAR STOCK. RADIUS END & PUNCH 1/2" HOLE IN CENTER TO ALLOW FOR PAD LOCK. WELD VERTICALLY TO POST TO ALIGN W/ COLLAR OPENING WHEN COLLAR IS IN DOWN POSITION. PUNCH HOLE SHALL ALIGN W/ COLLAR LOCK EXTENSION HOLE TO ALLOW LOCKING IN DOWN POSITION.
13. COLLAR LOCK EXTENSION: 1/4" THICK X 2" WIDTH X 2" LONG BAR STOCK. RADIUS END & PUNCH 1/2" HOLE IN CENTER TO ALIGN W/ POST LOCK EXTENSION WHEN IN DOWN POSITION. WELD VERTICALLY TO COLLAR. CUT OUT SECTION OF COLLAR TO ALLOW COLLAR TO SLIDE DOWN OVER POST LOCK EXTENSION.

C TRASH RECEPTACLE

NOTE:

A. TOP, SIDE AND RECESSED PANEL EDGES SHALL BE 3/4" CHAMFER. LETTERING AND LOGO SHALL HAVE NO CHAMFER.

B. SMOOTH TROWEL TOP OF MONUMENT.

C. CONTRACTOR SHALL LAYOUT LETTERING & VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF SIGN. FULL SHOP DRAWINGS W/ TEXTURE & COLOR SAMPLES SHALL BE SUBMITTED FOR CITY APPROVAL.

D. ALL RECESSED LETTERING & RAINCROSS LOGO SHALL BE PAINTED COLONIAL BLUE PER SPECS.

LEGEND

1. PARK NAME & ADDRESS RECESSED 3/4" INTO RECESSED CONCRETE SACK SMOOTH TROWEL FINISH PANEL (SEE CONSTRUCTION NOTE 2). LETTER STYLE SHALL BE TIMES ROMAN, BOLD, ITALICIZED. LETTERING FRONT FACE OF SIGN ONLY (FRONT FACE SHALL FACE STREET). "THUNDERSKY PARK" SHALL BE CENTERED HORIZONTALLY IN RECESSED PANEL.
2. NATURAL GRAY, SACK SMOOTH TROWEL FINISH PANEL RECESSED 3/4" FROM OUTSIDE FACE OF MONUMENT. (LETTERING SHALL BE RECESSED 3/4" INTO THIS PANEL, MAKING THE LETTERING RECESSED 1-1/2" IN FROM OUTSIDE FACE OF MONUMENT).
3. PLYWOOD FORM FINISH CONCRETE ON FRONT FACE, BACK AND SIDES OF MONUMENT. NATURAL GRAY CONCRETE COLOR.
4. ALIGN BEGINNING OF PARK NAME AND ADDRESS.
5. CONCRETE FOOTING.
6. RIVERSIDE RAINCROSS LOGO SHALL BE RECESSED 3/4" INTO RECESSED CONCRETE SACK SMOOTH TROWEL FINISH PANEL. LOGO SHALL BE CENTERED HORIZONTALLY IN RECESSED PANEL. LOGO, FRONT FACE OF SIGN ONLY.
7. FINISHED GRADE.
8. COMPACTED SUBGRADE.
9. #3 REBAR @ 12" O.C., HORIZONTALLY & VERTICALLY.

D CONCRETE MONUMENT SIGN

LEGEND

1. THREADED GALV. STEEL CAP. THREAD ON TO POST & TACK WELD IN PLACE.
2. 1/4" ROUND BAR STOCK LOOPS FILLET WELDED TO POST BOTH ENDS. PROVIDE 2 EACH SIDE (TOTAL 4) FOR CENTER POST & 2, ONE SIDE ONLY FOR END POST. WELD IN POSITION SO THAT WHEN POST IS THREADED TIGHT INTO ANCHOR, LOOPS ARE PERPENDICULAR TO LENGTH OF VOLLEYBALL COURT & PARALLEL TO WIDTH OF COURT. END POST LOOPS SHALL FACE ONTO COURT.
3. 2-3/8" DIA. SCH. 40 GALV. STEEL POST THREADED BOTH ENDS. LENGTH AS REQUIRED.
4. FINISH GRADE.
5. COMPACTED SUBGRADE.
6. SCH. 40 GALV. STEEL THREADED ANCHOR COUPLING TO ACCEPT 2-3/8" DIA. PIPE.
7. 2-3/8" DIA. SCH. 40 GALV. STEEL ANCHOR POST, THREADED @ TOP END.
8. CONCRETE FOOTING 12" DIA.
9. STABILIZING CROSS BAR: MIN. 1/2' X 6" LENGTH REBAR TO BE FILLET WELDED TO ANCHOR POST. DRILL ANCHOR POST TO ACCEPT CROSSBAR.

NOTES:

A. CONTRACTOR SHALL PROVIDE & INSTALL 3 ANCHORS W/ FOOTING AS LOCATED ON PLANS.

B. CONTRACTOR SHALL PROVIDE AND INSTALL 1 CENTER POST AND 1 END POST.

C. CONTRACTOR SHALL PROVIDE ONE 2-3/8" DIA. 3" LENGTH GALV. STEEL THREADED NIPPLE W/ GALV. STEEL CAP. INSTALL IN NON USED ANCHOR COUPLING.

D. HOT DIP GALVANIZE ALL STEEL PARTS UPON COMPLETION OF FABRICATION.

E VOLLEYBALL CENTER & END POST

LEGEND

1. FILTER FABRIC PER SPECIFICATIONS.
2. 3/4" DRAIN ROCK PER SPECIFICATIONS.

F PLAY AREA SUMP

SCALE: HORIZONTAL 1/8" = 1' - 0"
VERTICAL 1/4" = 1' - 0"

G PLAY AREA WALL PROFILE

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL INSTALL TREE GRATE PER SPECIFICATIONS AND DETAIL "L", SHEET C-2.
2. CONTRACTOR SHALL INSTALL BACKLESS BENCH PER SPECIFICATIONS AND DETAIL 'J', SHEET C-2.
3. CONTRACTOR SHALL INSTALL BASKETBALL POSTS, BACKBOARD, GOALS AND NETS COMPLETE PER SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS.
4. CONTRACTOR SHALL INSTALL COLORED CONCRETE PER SPECIFICATIONS AND DETAIL "A", THIS SHEET.
5. CONTRACTOR SHALL INSTALL NATURAL GRAY COLORED CONCRETE PER SPECIFICATIONS AND DETAIL "A", THIS SHEET.
6. CONTRACTOR SHALL INSTALL 1/2" DIAMETER X 24" LONG SMOOTH STEEL DOWELS PER PLAN AND DETAIL "A" THIS SHEET, TYPICAL.
7. CONTRACTOR SHALL INSTALL CRACK CONTROL JOINT PER DETAIL "C", SHEET C-2, TYPICAL.
8. CONTRACTOR SHALL INSTALL EXPANSION JOINT PER DETAIL "C", SHEET C-2, TYPICAL.
9. INSTALL 6" THICK CONCRETE.
10. CONTRACTOR SHALL VERIFY THIS DIMENSION W/ EQUIPMENT MANUFACTURER.

ADDITIVE ALTERNATE BID ITEM 'A'

11. AS A PART OF ADDITIVE ALTERNATE BID ITEM 'A ', CONTRACTOR SHALL INSTALL BASKETBALL COURT ITEMS, INCLUDING PAVING, BASKETBALL POST, GOALS, NETS, BENCHES, TREES AND TREE GRATES AND IRRIGATION FOR TREE GRATES (STATION 18B).. CONTRACTOR SHALL CONSTRUCT ALL 6" THICK PAVING TO EXPANSION JOINT ADJACENT TO BASKETBALL COURT.

SHOULD ADDITIVE BID ITEM 'A ' NOT BE AWARDED, CONTRACTOR SHALL INSTALL FRAMES FOR TREE GRATES IN PORTIONS OF CONCRETE TO BE INSTALLED UNDER THE BASE BID. (BASKETBALL C-4)

LEGEND

- EXPANSION JOINT PER DETAIL 'C', SHT. C-2
- CRACK CONTROL JOINT PER DETAIL 'C', SHT C-2
- COLORED CONCRETE PER SPECIFICATIONS
- NATURAL GRAY CONCRETE

North

Scale 1/8" = 1' - 0"

H BASKETBALL COURT ENLARGEMENT

PELA

Construction Details

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

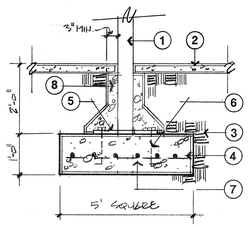
sheet **C-4**

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

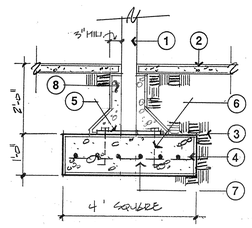
DRAWING NUMBER TH-24
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



LEGEND

1. SHADE STRUCTURE POST.
2. CONCRETE PAVING BELOW SHADE STRUCTURE.
3. COMPACTED SUB-GRADE.
4. CONCRETE FOOTING.
5. STEEL BASE PLATE, 3/4" THICK, 15" X 15" MINIMUM.
6. (4) 3/4" DIAMETER ANCHOR BOLTS W/ 7" EMBED.
7. #5 REBAR @ 9" O.C. EACH WAY.
8. 3" MINIMUM THICK CONCRETE SURROUNDING ALL STEEL COMPONENTS, TO SEPARATE FROM SOIL.
9. SEE DETAIL 'D' THIS SHEET FOR FOUNDATION PLAN AND FOOTING LAYOUT.

A LARGE STRUCTURE FOOTING



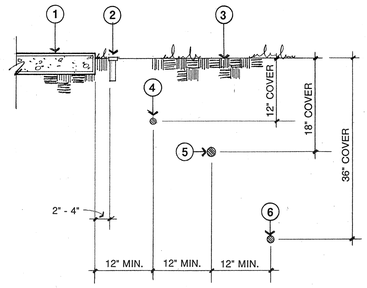
LEGEND

1. SHADE STRUCTURE POST.
2. CONCRETE PAVING BELOW SHADE STRUCTURE.
3. COMPACTED SUB-GRADE.
4. CONCRETE FOOTING.
5. STEEL BASE PLATE, 3/4" THICK, 15" X 15" MINIMUM.
6. (4) 3/4" DIAMETER ANCHOR BOLTS W/ 7" EMBED.
7. #5 REBAR @ 12" O.C. EACH WAY.
8. 3" MINIMUM THICK CONCRETE SURROUNDING ALL STEEL COMPONENTS, TO SEPARATE FROM SOIL.
9. SEE DETAIL 'E' THIS SHEET FOR FOUNDATION PLAN AND FOOTING LAYOUT.

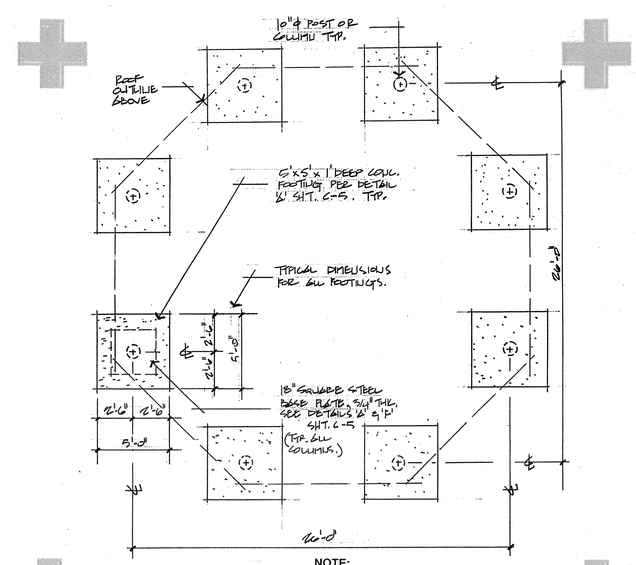
B SMALL STRUCTURE FOOTING

LEGEND

1. SIDEWALK WHERE OCCURS.
2. IRRIGATION SPRINKLER WHERE OCCURS.
3. FINISH GRADE.
4. IRRIGATION LATERAL LINE.
5. IRRIGATION MAINLINE.
6. ELECTRICAL CONDUIT.

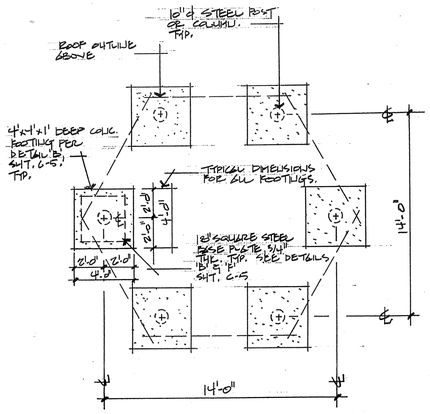


C PIPING & CONDUIT LAYOUT



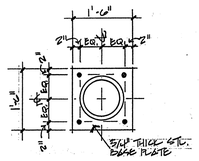
NOTE:
COORDINATE FINAL PREOISE LOCATIONS OF FOOTINGS WITH MANUFACTURER OF SHADE STRUCTURE.

D LARGE STRUCTURE FOUNDATION PLAN

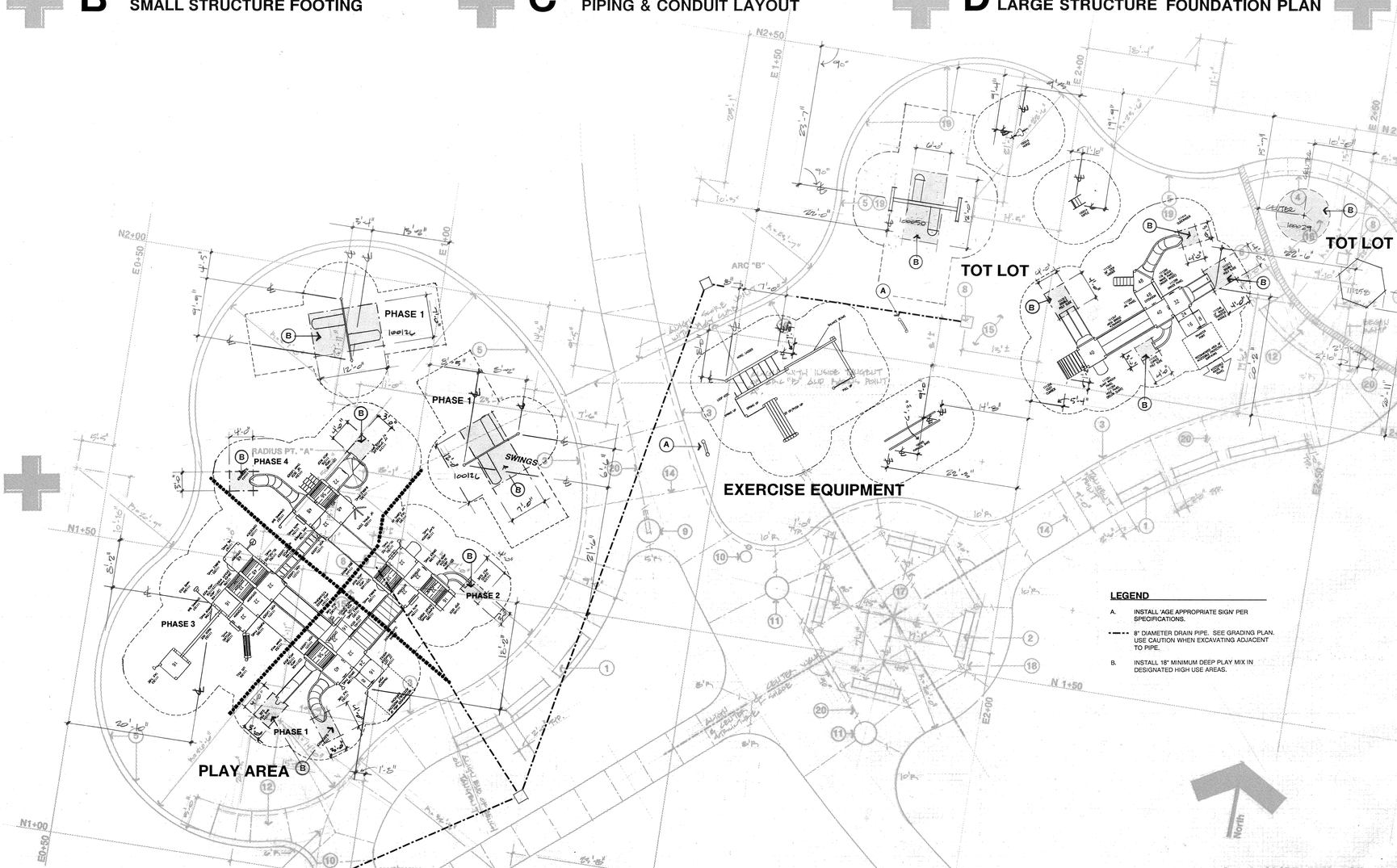


NOTE:
COORDINATE FINAL PRECISE LOCATIONS OF FOOTINGS WITH MANUFACTURER OF SHADE STRUCTURE.

E SMALL STRUCTURE FOUNDATION PLAN



F SHADE STRUCTURE BASE PLATE DETAIL



LEGEND

A. INSTALL 'AGE APPROPRIATE SIGN' PER SPECIFICATIONS.

8" DIAMETER DRAIN PIPE. SEE GRADING PLAN. USE CAUTION WHEN EXCAVATING ADJACENT TO PIPE.

B. INSTALL 18" MINIMUM DEEP PLAY MIX IN DESIGNATED HIGH USE AREAS.

Scale 1/8" = 1' - 0"

G PLAY / EXERCISE EQUIPMENT LAYOUT

PBLA

ARCHITECT — WILLIAM M. ELLIOTT — REGISTERED — STATE OF CALIFORNIA

Construction Details

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet C-5

DRAWING NUMBER

PLAN-TECH CORPORATION • IRVINE, CALIFORNIA
REORDER PLANNER 07344

DRAWING NUMBER

PLAN-TECH CORPORATION • IRVINE, CALIFORNIA
REORDER PLANNER 07344

DRAWING NUMBER
TH-23

PLAN-TECH CORPORATION • IRVINE, CALIFORNIA
REORDER PLANNER 07344

DRAWING NUMBER — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER 1B - 3? — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

DRAWING NUMBER — PLAN HOLD CORPORATION • IRVINE, CALIFORNIA — REORDER BY NUMBER 075AR — POSITION EDGE OF PRINT ON THIS LINE

PELA

IRRIGATION NOTES:

1. SEE SHEET I-2 FOR DETAILS AND LEGEND.
2. VALVES LABELLED WITH NUMERALS AND LETTERS SUCH AS 17A & 17B SHALL BE RUN IN TANDEM. INSTALL SEPARATE WIRES FROM CONTROLLER TO EACH VALVE. AT CONTROLLER, CONTRACTOR SHALL CONNECT BOTH WIRES TO STATION NUMBER.
3. SEE DETAIL 'C', SHEET C-5 FOR CROSS SECTION OF INSTALLATION LAYOUT OF IRRIGATION LATERAL, IRRIGATION MAINLINE AND ELECTRICAL CONDUIT IN RELATIONSHIP TO EACH OTHER.

REGISTERED LANDSCAPE ARCHITECT — JAMES R. ELLIOTT — No. 2362 — Expiration Date — STATE OF CALIFORNIA

SEE DETAILS "A" AND "B" ABOVE

A ADDITIVE BID ITEM 'H' INSTALLATION

B BASE BID INSTALLATION

N 89° 55' 48" W 586.10'

N 52° 09' 34" W 94.92'

N 37° 50' 26" E 200.00'

N 89° 55' 43" W 326.27'

R = 267.00'
L = 243.40'

N 21° 20' 59" W

N 00° 04' 17" E 318.40'

DIGGER PINE DRIVE

THUNDERSKY

BUCK BUSH LANE

CIRCLE

MH — W — 10" CML — E

S — 8" VCP — W

SD — RCP 42" — S

SD — 18" RCP — E

THIS VALVE TO BE USED IN FUTURE

IRRIGATION CONSTRUCTION NOTES:

12

1. ADDITIVE BID ITEM 'H': CONTRACTOR SHALL INSTALL IRRIGATION PUMP PER SPECIFICATIONS, ON 6" THICK CONCRETE PAD.
2. BASE BID: CONTRACTOR SHALL INSTALL 2 VERTICAL "Ts", LINE SIZE, CAPPED IN VALVE BOXES AT LOCATIONS SHOWN, FOR POSSIBLE FUTURE INSTALLATION OF IRRIGATION PUMP.
3. CONCRETE CURB PER CONSTRUCTION PLAN. SEE SHEET C-1.
4. INSTALL 4" THICK CONCRETE PAD AND WALK PER DETAILS A, B AND C SHEET C-2.
5. CONCRETE SIDEWALK PER CONSTRUCTION PLAN. SEE SHEET C-1.
6. STUB OUT AND CAP MAINLINE INSIDE VALVE BOX FOR POSSIBLE FUTURE CONNECTIONS.
7. INSTALL 6" MAINLINE SLEEVE AND 3" WIRE SLEEVE.
8. INSTALL CONTROLLER INSIDE VANDAL RESISTANT ENCLOSURE PER DETAILS AND SPECIFICATIONS.
9. DRINKING FOUNTAIN PER CONSTRUCTION PLANS. SEE SHEET C-1.
10. CONTRACTOR POINT OF CONNECTION AT DOWNSTREAM SIDE OF 2" BACKFLOW PREVENTER FOR IRRIGATION AS IT REACHES FOR DOMESTIC WATER.
11. LIMITS OF TURF BALLFIELD.
12. LIMITS OF TURF VOLLEYBALL COURT.
13. OMIT VALVE NUMBER 18B IN BASE BID. INCLUDE VALVE NUMBER 18B IN ADDITIVE ALTERNATE 'A'.

North

Scale 1" = 20' - 0"

IRRIGATION CONSTRUCTION NOTES: (CONTINUED)

SHADE STRUCTURE AREA IRRIGATION
ADDITIVE ALTERNATE 'B ' (NOTES 13 - 16)
AS A PART OF THE BASE BID (SHOULD ADDITIVE ALTERNATE BID ITEM 'B ' NOT BE AWARDED) THE FOLLOWING SHALL BE IMPLEMENTED:

13. SWITCH NOZZLE TO 570Z-4P-COM-15'-F.
14. SWITCH NOZZLE TO 570Z-4P-COM-15'-H.
15. ADD 570Z-4P-COM-15'-F W/ LATERAL IN LIEU OF SHADE STRUCTURE & CONCRETE PAVING.
16. ADD 570Z-4P-COM-15'-H W/ LATERAL IN LIEU OF SHADE STRUCTURE & CONCRETE PAVING.

BASKETBALL AREA IRRIGATION
ADDITIVE ALTERNATE 'A ' (NOTE 17)

17. AS A PART OF THE BASE BID (SHOULD ADDITIVE ALTERNATE BID ITEM 'A ' NOT BE AWARDED) CONTRACTOR SHALL INSTALL IRRIGATION IN BASKETBALL AREA IN LIEU OF INSTALLING CONCRETE PAVING. SEE DETAIL 'H', SHEET I-2.

AS-BUILT
DRAWN BY:
VALLEY CREST LANDSCAPE, INC.

VALVE SIZE — VALVE SEQUENCE

"As-Built" Irrigation Plan

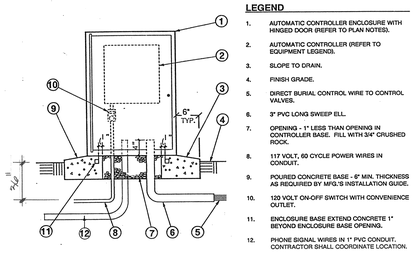
CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet I-1

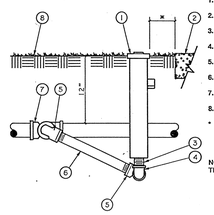
A CONTROLLER



LEGEND

1. AUTOMATIC CONTROLLER ENCLOSURE WITH HINGED DOOR (REFER TO PLAN NOTES).
2. AUTOMATIC CONTROLLER (REFER TO EQUIPMENT LEGEND).
3. SLOPE TO DRAIN.
4. FINISH GRADE.
5. DIRECT BURIAL CONTROL WIRE TO CONTROL VALVES.
6. 3" PVC LONG SWEEP ELL.
7. OPENING - 1" LESS THAN OPENING IN CONTROLLER BASE. FILL WITH 3/4" CRUSHED ROCK.
8. 117 VOLT, 60 CYCLE POWER WIRES IN CONDUIT.
9. POURED CONCRETE BASE - 6" MIN. THICKNESS AS REQUIRED BY MFG.'S INSTALLATION GUIDE.
10. 120 VOLT ON-OFF SWITCH WITH CONVENIENCE OUTLET.
11. ENCLOSURE BASE EXTEND CONCRETE 1" BEYOND ENCLOSURE BASE OPENING.
12. PHONE SIGNAL WIRES IN 1" PVC CONDUIT. CONTRACTOR SHALL COORDINATE LOCATION.

B 12" POP - UP SPRINKLER



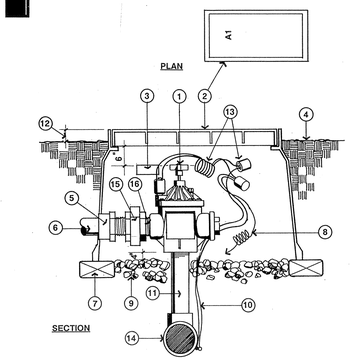
LEGEND

1. 12" POP-UP SPRINKLER
2. WALK OR CURB
3. PVC SCHEDULE 80 NIPPLE
4. PVC TxT 90 DEGREE ELL
5. MARLEX 90 DEGREE STREET ELL
6. PVC SCHEDULE 80 NIPPLE - 12" LONG
7. LATERAL LINE PIPE AND FITTING
8. FINISH GRADE

* 2" IN LAWN AREAS
6" IN GROUNDCOVER AREAS

NOTE: USE TEFLON TAPE ON ALL MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS

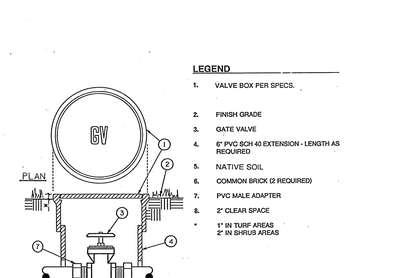
C ELECTRIC CONTROL VALVE



LEGEND

1. ELECTRIC CONTROL VALVE.
2. VALVE BOX PER SPECS.
3. CHRISTY'S I.D. TAG - NUMBERED TO MATCH DRAWINGS.
4. FINISH GRADE.
5. PVC MALE ADAPTER (TYP.).
6. TO SPRINKLERS - ANGLE PIPE TO SPECIFIED DEPTHS WITH 45 DEGREE ELLS.
7. COMMON BRICK (4 REQUIRED).
8. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER.
9. NATIVE SOIL.
10. CONTROL/COMMON WIRES TO CONTROLLER.
11. PVC SCHEDULE 80 PIPE.
12. * 2" IN SHRUB AREAS, FLUSH IN LAWN AREAS.
13. WIRE CONNECTORS AND 30" EXPANSION LOOP OF EACH WIRE.
14. MAIN LINE FITTING WITH SOLVENT WELD OUTLET.
15. BRASS UNION.
16. BRASS NIPPLE.

D GATE VALVE

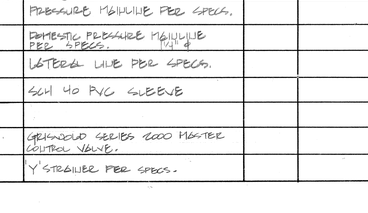


LEGEND

1. VALVE BOX PER SPECS.
2. FINISH GRADE
3. GATE VALVE
4. 6" PVC SCH 40 EXTENSION - LENGTH AS REQUIRED
5. NATIVE SOIL
6. COMMON BRICK (2 REQUIRED)
7. PVC MALE ADAPTER
8. 2" CLEAR SPACE

* 1" IN TURF AREAS
2" IN SHRUB AREAS

E QUICK COUPLING VALVE - IN BOX



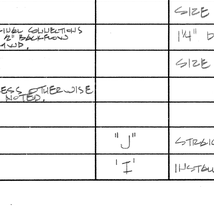
LEGEND

1. VALVE BOX PER SPECS. - PAINT QVC ON LID.
2. FINISH GRADE
3. NATIVE SOIL
4. BRASS NIPPLE
5. BRASS 90 DEGREE ELL
6. MAIN LINE PIPING
7. MAIN LINE FITTING
8. BRASS 90 DEGREE STREET ELL
9. BRASS NIPPLE - 6" LONG
10. QUICK COUPLING VALVE
11. WALK OR CURB

* 1" IN LAWN AREAS
2" IN SHRUB AREAS

NOTE: USE TEFLON TAPE ON ALL MALE PIPE THREADS

F 2",4" or 6" POP - UP SPRINKLER



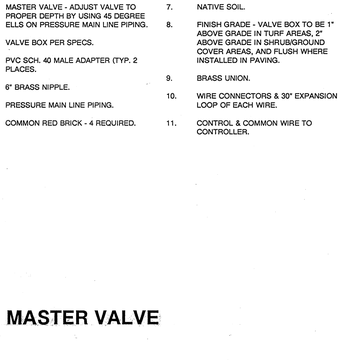
LEGEND

1. 6" POP-UP SPRAY HEAD
2. WALK OR CURB
3. PVC SCHEDULE 80 NIPPLE - 4" MIN. LENGTH
4. PVC TxT 90 DEGREE ELL
5. LATERAL LINE PIPE AND FITTING
6. MARLEX 90 DEGREE STREET ELL
7. PVC SCHEDULE 80 NIPPLE - 6" LONG
8. FINISH GRADE

1" IN TURF AREAS
2" IN SHRUB AREAS

NOTE: USE TEFLON TAPE ON MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS

G TREE BUBBLER



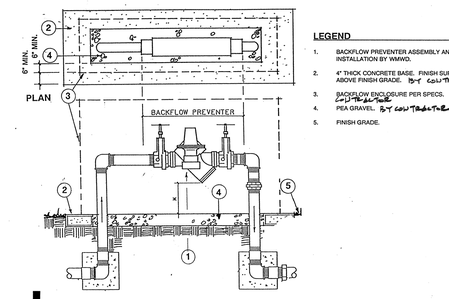
1. Tree Bubbler - refer to irrigation legend for manufacturer and model and irrigation plans for additional information
2. 3" diameter perforated drain pipe (36" long) - filled with pea gravel as shown.
   DO NOT COVER BUBBLER.
3. PVC Lateral Line Piping - refer to irrigation plans for type, size and burial depth - route around tree to avoid planting conflicts
4. PVC Schedule 80 nipple - length as required (typ.)
5. PVC Schedule 40 SST tee (S x T 90 degree ell at terminus of lateral line)
6. Earthen Berm to retain irrigation water
7. Finish Grade
8. Tree Root Ball - refer to landscape plans for additional information
9. King Bros. "CV" series riser size anti-drain valve (typ.)
10. PVC CAP. DO NOT GLUE.
11. MARLEX 90 DEGREE STREET ELL.
12. PVC TxT 90 DEGREE ELBOW.
13. PVC SCH. 80 NIPPLE. LENGTH AS REQUIRED.
14. NOTCH DRAIN PIPE AS REQUIRED TO ACCEPT BUBBLER.

H BASKETBALL AREA IRRIGATION
BASE BID ITEM

LEGEND

1. SPRINKLER PER SHEET I-1. SWITCH NOZZLE TO 4.5 NOZZLE.
2. SPRINKLER PER SHEET I-1. SWITCH NOZZLE TO 9.0 NOZZLE.
3. ADD VALVE #19 W/ LATERALS & SPRINKLERS AS SHOWN.
4. LATERAL LINE PER PLAN. SEE SHEET I-1.
5. EDGE OF FUTURE BASKETBALL COURT. SEE SHEET I-1.
6. PROVIDE MAINLINE STUBOUT W/ 3' EXPANSION COIL OF CONTROL WIRE & COMMON WIRE IN VALVE BOX. DELETE INSTALLATION OF VALVE #18B & ALL DOWNSTREAM LATERAL & SPRINKLERS.
7. CAP LATERAL LINE @ LOCATION SHOWN FOR FUTURE CONNECTION, AND DELETE ALL DOWNSTREAM LATERALS AND SPRINKLERS.
8. IRRIGATION MAINLINE PER SHEET I-1.
9. VALVE TO BE INSTALLED PER SHEET I-1.

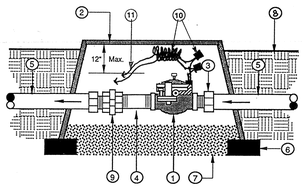
I BACKFLOW ENCLOSURE



LEGEND

1. BACKFLOW PREVENTER ASSEMBLY AND INSTALLATION BY WMWD.
2. 4" THICK CONCRETE BASE. FINISH SURFACE 2" ABOVE FINISH GRADE. BY CONTRACTOR
3. BACKFLOW ENCLOSURE PER SPECS. BY CONTRACTOR
4. PEA GRAVEL. BY CONTRACTOR
5. FINISH GRADE.

J MASTER VALVE



LEGEND

1. MASTER VALVE - ADJUST VALVE TO PROPER DEPTH BY USING 45 DEGREE ELLS ON PRESSURE MAIN LINE PIPING.
2. VALVE BOX PER SPECS.
3. PVC SCH. 40 MALE ADAPTER (TYP. 2 PLACES.
4. 6" BRASS NIPPLE.
5. PRESSURE MAIN LINE PIPING.
6. COMMON RED BRICK - 4 REQUIRED.
7. NATIVE SOIL.
8. FINISH GRADE - VALVE BOX TO BE 1" ABOVE GRADE IN TURF AREAS, 2" ABOVE GRADE IN SHRUB/GROUND COVER AREAS, AND FLUSH WHERE INSTALLED IN PAVING.
9. BRASS UNION.
10. WIRE CONNECTORS & 30" EXPANSION LOOP OF EACH WIRE.
11. CONTROL & COMMON WIRE TO CONTROLLER.

LEGEND

SYMBOL	MODEL/DESCRIPTION	PSI	RADIUS	PATTERN/GPM 360°	270°	210°	180°	120°	90°	DETAIL	REMARKS
○	TORO 570OC-PC-*10-SA	35	37'-44'	5.64						"E"	INSTALL W/ OPTIONAL BUBBLER COVER.
◐	570OC-PC-XX-SA	35	↓		5.65	4.13	2.8	2.4	1.42	"E"	NOZZLE AS INDICATED ON PLAN.
○ ○ ○ ○ ○ ○	570Z-4P-COM-15	30	15'	3.6	2.6	2.2	1.65	1.1	.85	"E"	
○ ○ ○ ○ ○ ○	-12		12'	2.19	1.55	1.45	1.09	.78	.50	"F"	
○ ○ ○ ○ ○ ○	-10		10'	1.49	1.04	.97	.71	.52	.40	"F"	
○ ○ ○ ○ ○ ○	↓ -8	↓	8'	1.00	.76	.70	.50	.30	.24	"F"	
□	TORO 514-20 BLOCK BUBBLER	30	—	2.4						"G"	
▽	570Z-12P-COM-10-SSR	↓	10'						.8	"E"	
▽	↓ 10-SSH	↓	10'					1.2		"B"	
M	2" WATER METER										TO BE INSTALLED BY WMWD CITY WILL APPLY FOR SERVICE.
C	TORO NETJET 800 SATELLITE MODEL E 132-XX-COR									"A"	INSTALL PER SPECIFICATIONS & MFR'S PRESCRIBED DETAILS.
	BACKFLOW DEVICE - 2" - IRRIGATION BACKFLOW DEVICE - 1" - DOMESTIC			SEE NOTE 'A' ABOVE.						"I"	BACKFLOW DEVICE TO BE INSTALLED BY WMWD. CONTRACTOR SHALL INSTALL BUILDING W/ COIL.
	IRRIGATION BOOSTER PUMP										PER SPECIFICATIONS
	GREENFIELD SERIES 2000 REMOTE CONTROL VALVE									"C"	GLOBE TYPE - SIZE PER PLAN
	GATE VALVE PER SPECS.									"D"	LINE SIZE PER PLAN
	REQUIRED FUTURE QUICK COUPLER VALVE.									"B"	
	PRESSURE MAINLINE PER SPECS.										SIZE PER PLAN.
	DOMESTIC PRESSURE MAINLINE PER SPECS.			CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO WATER MAINLINE WHETHER OF RECYCLED WATER OR POTABLE WATER. COORDINATE WORK W/ WMWD.							1½" DIAMETER
	LATERAL LINE PER SPECS.										SIZE PER PLAN
	SCH 40 PVC SLEEVE			2 X DIAMETER OF PIPE UNLESS OTHERWISE NOTED.							↓ EXTEND 12" BEYOND HARD-SCAPE SURFACES.
	GREENFIELD SERIES 2000 MASTER CONTROL VALVE.									"J"	STRAIGHT TYPE - SIZE 2½"
NOT SHOWN	Y STRAINER PER SPECS.									"I"	INSTALL PER SPECIFICATIONS & DETAIL

NOTE 'A':
CONTRACTOR SHALL COORDINATE INSTALLATION OF BACKFLOW DEVICE WITH WMWD. CONTRACTOR POINT OF CONNECTION SHALL BE AT DOWNSTREAM SIDE OF BACKFLOW DEVICE. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL ITEMS SHOWN IN DETAIL 'I' THIS SHEET WHICH ARE NOT INSTALLED BY WMWD.

PELA

REGISTERED LANDSCAPE ARCHITECT — WILLIAM F. ELLIOTT — No. 2346 — EXPIRES 12-31-2021 — STATE OF CALIFORNIA

DRAWING NUMBER
PLANHOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED NUMBER 872346

DRAWING NUMBER
PLANHOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED NUMBER 872346

DRAWING NUMBER
TH-21
PLANHOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED NUMBER 872346

Irrigation Details

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet I-2

PLANTING CONSTRUCTION NOTES:

1. LIMITS OF TURF BALLFIELD
2. LIMITS OF TURF VOLLEYBALL COURT.

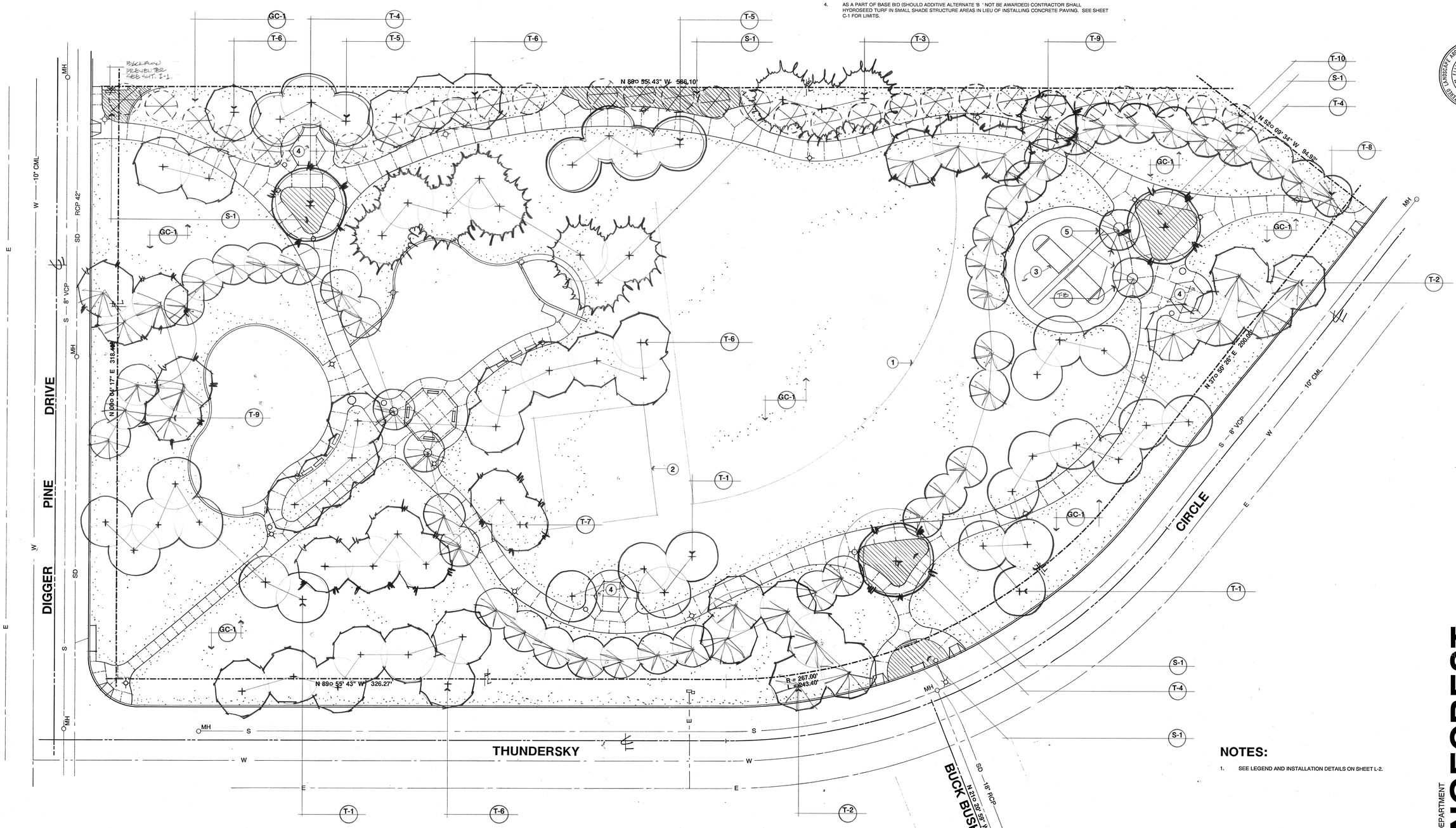
BASKETBALL AREA PLANTING
BASE BID

3. AS A PART OF BASE BID (SHOULD ADDITIVE ALTERNATE 'A' NOT BE AWARDED) CONTRACTOR SHALL HYDROSEED TURF IN BASKETBALL AND TREE GRATE AREAS IN LIEU OF INSTALLING CONCRETE PAVING, TREE GRATES AND TWO TREES IN TREE GRATE LOCATIONS. SEE DETAIL 'H', SHEET C-4 FOR LIMITS.

SHADE STRUCTURE AREA PLANTING
BASE BID

4. AS A PART OF BASE BID (SHOULD ADDITIVE ALTERNATE 'B ' NOT BE AWARDED) CONTRACTOR SHALL HYDROSEED TURF IN SMALL SHADE STRUCTURE AREAS IN LIEU OF INSTALLING CONCRETE PAVING. SEE SHEET C-1 FOR LIMITS.

5. OMIT TREE IF ADDITIVE ALTERNATE BID ITEM 'A' IS NOT AWARDED.



NOTES:

1. SEE LEGEND AND INSTALLATION DETAILS ON SHEET L-2.

North

Scale 1" = 20' - 0"

PELA

REGISTERED LANDSCAPE ARCHITECT
KAMELA M. ELLIOTT
STATE OF CALIFORNIA

Planting Plan

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet L-1

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REVIEWED BY NUMBER 07/3/01

DRAWING NUMBER
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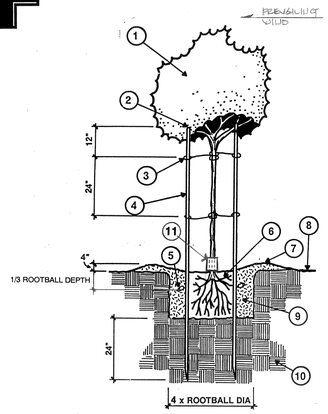
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REVIEWED BY NUMBER 07/3/01

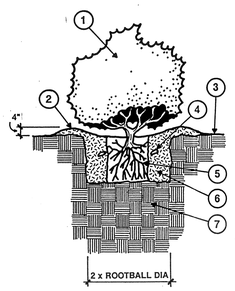
TH-20



LEGEND

1. TREE PER PLAN
2. TRIM TOP OF STAKES BELOW LOWEST BRANCHES TO PREVENT DAMAGE
3. CROSS TIE BETWEEN STAKE AND TREE PER PLANTING SPECS/NOTES
4. 2" DIA. X 10' LONG LODGE POLE STAKES (INSTALL WIDER THAN ROOTBALL)
5. 21 GRAM PLANT TABLETS
   5 GAL = 3, 15 GAL = 5, 24" BOX = 8
6. ROOTBALL (SET CROWN +/- 3" ABOVE FINISH GRADE)
7. EARTH WATERING BASIN (RAKE SMOOTH PRIOR TO SEEDING IN HYDROSEED AREAS; AT END OF PLANT ESTABLISHMENT PERIOD FOR ALL REMAINING BASINS)
8. FINISH GRADE
9. COMPACTED BACKFILL MIX (PER PLANTING SPECS/NOTES)
10. UNDISTURBED NATIVE SOIL
11. PLASTIC TRUNK GUARD SUCH AS ARBOR-GARD AS MFG'D BY DEEP ROOT CORP.

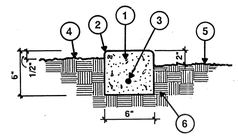
A TREE PLANTING



LEGEND

1. SHRUB OR VINE PER PLAN
2. EARTH WATERING BASIN (RAKE SMOOTH PRIOR TO SEEDING IN HYDROSEED AREAS; AT END OF PLANT ESTABLISHMENT PERIOD FOR ALL REMAINING BASINS)
3. FINISH GRADE
4. 7 GRAM PLANT TABLETS
   1 GAL = 3, 5 GAL = 6, 15 GAL = 9
5. ROOTBALL (SET CROWN +/- 3" ABOVE FINISH GRADE)
6. COMPACTED BACKFILL MIX (PER PLANTING SPECS/NOTES)
7. UNDISTURBED NATIVE SOIL

B SHRUB PLANTING



LEGEND

1. 2000 PSI NATURAL GREY CONCRETE WITH SMOOTH TROWEL FINISH
2. 1/4" RADIUS ALL EDGES
3. #3 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

NOTE: INSTALL 1/2" PREFORMED EXPANSION JOINTS @ 15' O.C. MAX. AND @ BEGINNING AND END OF RADIUS

C CONCRETE MOW CURB

PLANTING LEGEND

SYMBOL	PLAN I.D.	SCIENTIFIC NAME	COMMON NAME	SIZE	DETAIL	REMARKS
TREES						
	T-1	BAUHINIA VARIEGATA	PURPLE ORCHID TREE	15 GAL.	A	
	T-2	BRACHYCHITON ACERIFOLIUS	FLAME TREE	15 GAL.	A	
	T-3	CEDRUS ATLANTICA	ATLAS CEDAR	15 GAL.	A	
	T-4	CINNAMOMUM CAMPHORA	CAMPHOR TREE	15 GAL.	A	
	T-5	GINKGO BILOBA	MAIDENHAIR TREE	15 GAL.	A	
	T-6	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	15 GAL.	A	
	T-7	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	15 GAL.	A	
	T-8	PYRUS CALLERYANA 'ARISTOCRAT'	ORNAMENTAL PEAR	15 GAL.	A	
	T-9	TRISTANIA CONFERTA	BRISBANE BOX	15 GAL.	A	
	T-10	WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	VARIES	A	Not Included In Contract
GROUND COVER						
	S-1	MYOPORUM PARVIFOLIUM 'PUTAH CREEK'	MYOPORUM	1 GAL.	B	PLANT AT 4' O.C. TRIANGULAR SPACING
TURF						
	GC-1	TURF		SEED		PER SPECIFICATIONS

PELA

REGISTERED LANDSCAPE ARCHITECT — CHRISTOPHER J. ELLIOTT — No. 2484 — STATE OF CALIFORNIA

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ITEM#

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ITEM#

DRAWING NUMBER
TH-19
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ITEM#

Planting Details

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

P-0306

sheet L-2

VOLTAGE DROP

VOLTAGE DROP ORANGECRES VOLTAGE 480 ALLOWED VOLTAGE DROP:
WALKWAY EAST WATTAGE 150 3 %
WALKWAY LIGHTS HPS LAMP 16'MH 14.40 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

FIXTURE #	DISTANCE	VOLT DROP	%
10		0.0000	
9	80	1.0440	
8	95	1.1020	
7	75	0.7613	
6	90	0.7830	
5	90	0.6525	
4	90	0.5220	
3	130	0.5655	
2	90	0.2610	
1	90	0.1305	
0		0.0000	
		5.8218 VOLTS DROP	
		1.2129 % DROP	

VOLTAGE DROP ORANGECRES VOLTAG 240 ALLOWED VOLTAGE DROP:
WALKWAY WEST WATTAGE 150 3 %
POLE MOUNTED LIGHTS HPS LAMP 16' MH 7.20 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

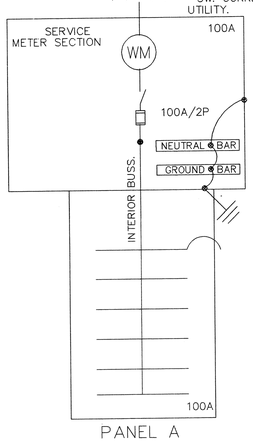
FIXTURE #	DISTANCE	VOLT DROP	%
10		0.0000	
9	50	0.6525	
8	120	1.3920	
7		0.0000	
6	90	0.7830	
5	100	0.7250	
4	120	0.6960	
3	95	0.4133	
2		0.0000	
1	100	0.1450	
0		0.0000	
		4.8068 VOLTS DROP	
		2.0028 % DROP	

VOLTAGE DROP VOLTAGE 240 ALLOWED VOLTAGE DROP:
PLAY AREA LITES WATTAGE 1000 3 %
POLE MOUNTED LIGHTS HPS LAMP 30'MH 7.20 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

FIXTURE #	DISTANCE	VOLT DROP	%
5		0.0000	
4		0.0000	
3		0.0000	
2	230	4.4467	
1	265	2.5617	
		7.0083 VOLTS DROP	
		2.9201 % DROP	

RUN	TYPE	COND-UCTOR	A.C. RESIST. /100'	VOLTS	AMPS/LEG	DISTANCE	VOLTAGE DROP	% VOLTAGE DROP
PAN A – 5 HP PUMP	CU	2	0.00019	240	15.2	750	4.33	1.81

VVVVV PROVIDE NEW ELECTRICAL 120/240V 1ø 3W. CORRDINATE WITH ELECTRICAL UTILITY.



PANEL A

NOTE:
1. BOND NEUTRAL BUS, GROUNDING BUS AND SERVICE RACEWAY. CONNECT TO CONCRETE ENCASED ELECTRODE AND TO NEAREST AVAIL. METALLIC WATER PIPE. USE #6 COPPER CONDUCTOR FOR GROUNDING AND #4 COPPER CONDUCTOR FOR BONDING.
2. AVAILABLE FAULT CURRENT AT THE SERVICE IS 42,000AMPERES.
3. MAIN OVERCURRENT DEVICE TO BE BUSSMAN TYPE JJN(300V) 2600AMPS CURRENT LIMITING.

Key Notes

1. EXISTING ELECTRICAL UTILITY MANHOLE. COORDINATE NEW SERVICE LATERAL WITH CITY OF RIVERSIDE UTILITY.
2. EXISTING TELEPHONE UTILITY PEDESTAL. COORDINATE NEW TELCO SERVICE WITH SERVING TELEPHONE CO.
3. NOTE: ALL POLE LOCATIONS ARE TO BE SPOTTED IN THE FIELD BY CONTRACTOR'S SURVEYOR BASED UPON LOCATIONS SHOWN ON SHEET C-1 AND THE AIMING DIAGRAM ON SHEET E-3 OF THE BID DOCUMENTS . IF THERE ARE DISCREPENCIES THE CONTRACTOR IS TO NOTIFY THE ELECTRICAL ENGINEER PRIOR TO COMMENCING THE WORK.
4. PROVIDE (1) 1" C.O. WITH 3/16" PULLROPE IN PULLBOX TO THIS POINT FOR FUTURE BRANCH CIRCUITS TO UPPER PARK AREA. REFERENCE BRANCH CIRCUIT SCHEDULE.
5. TERMINATE 2#2 1#8GRD 1"C TO THIS LOCATION FOR IRRIGATION PUMP TO BE HOOKED UP BY PUMP MAN. REF BRANCH CIRCUIT SCHEDULE. CONFIRM PERCISE LOCATION WITH CITY.
6. RUN BRANCH CIRCUIT FOR SHELTER LIGHT, UP OUTSIDE OF SHELTER AND ON INSIDE ROOF BEAMS. SUPPORT AT 8' INTERVALS.
7. TERMINATE CONDUIT FOR TELCO. COORDINATE CONDUIT SIZE, SPACING, & BURIAL DEPTH WITH TELCO. ELECTRICAL CONTRACTOR TO APPLY FOR TELCO SERVICE. CONFIRM PRECISE LOCATION WITH CITY.
8. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONFIRM WITH CITY.
9. TERMINATE (1) 1" C.O. WITH 3/16" PULLROPE IN PULLBOX AT THIS POINT FOR FUTURE BRANCH CIRCUITS TO BASKETBALL AREA.

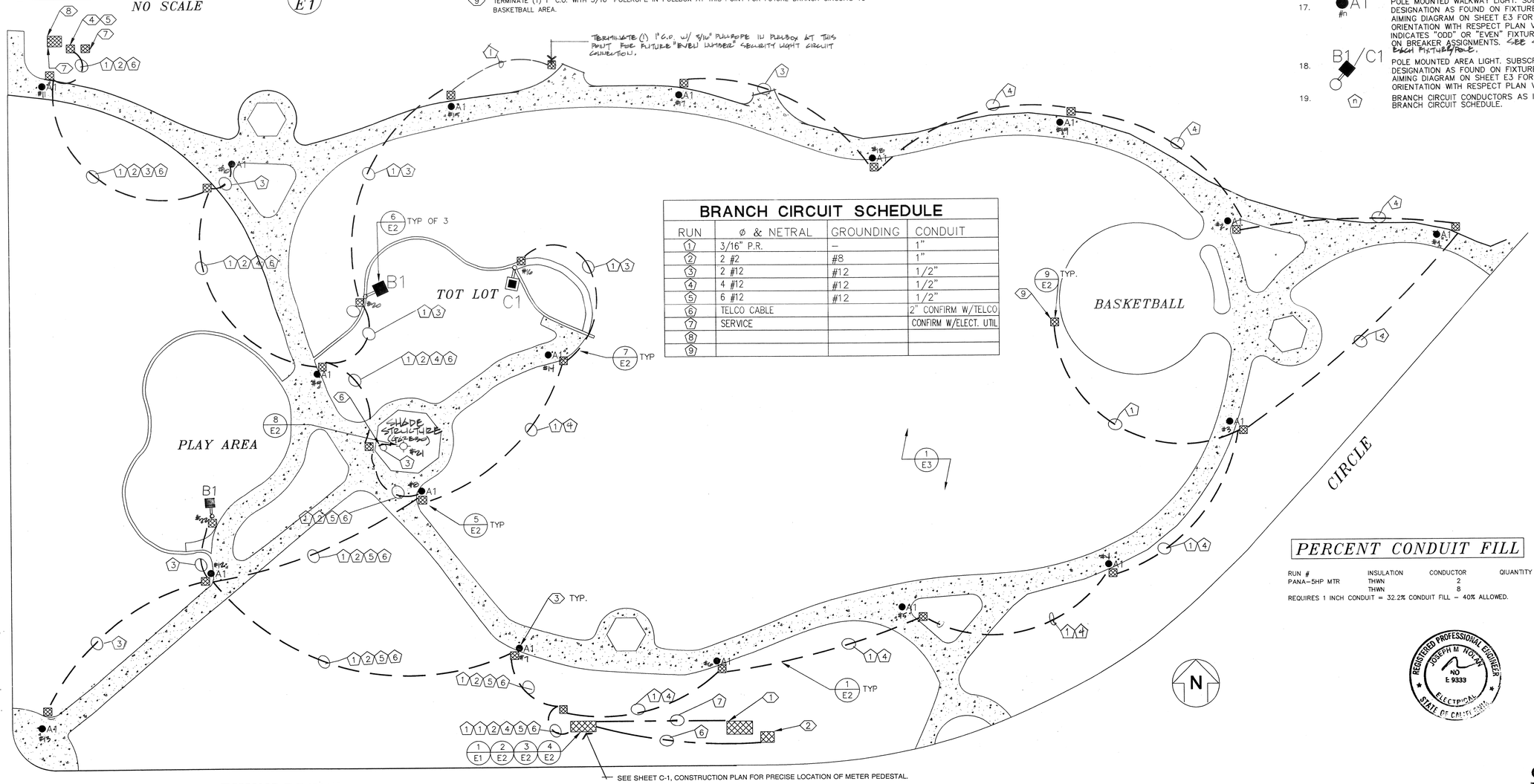
NOTE:
1. SEE DETAIL 'C', SHEET C-5 FOR CROSS SECTION OF INSTALLATION LAYOUT OF IRRIGATION LATERAL, IRRIGATION MAINLINE AND ELECTRICAL CONDUIT IN RELATIONSHIP TO EACH OTHER.
2. SEE SHEET E-4 FOR LOCATION OF CONDUIT RUNS. PRECISE LOCATIONS OF CONDUIT RUNS SHALL BE AS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF CONDUIT RUNS WITH IRRIGATION, DOMESTIC WATER AND DRAINAGE LINES TO AVOID CONFLICTS. SEE SHEETS G-1 AND I-1.
3. SEE SHEET E-4 FOR POLE NUMBERING. NOTE THAT THERE IS NO POLE #21. #21 IS RESERVED FOR LIGHT FIXTURE LOCATED IN LARGE SHADE STRUCTURE.

A.C. SINGLE LINE DIAGRAM (1/E1)

NO SCALE

BRANCH CIRCUIT SCHEDULE

RUN	ø & NETRAL	GROUNDING	CONDUIT
1	3/16" P.R.	–	1"
2	2 #2	#8	1"
3	2 #12	#12	1/2"
4	4 #12	#12	1/2"
5	6 #12	#12	1/2"
6	TELCO CABLE		2" CONFIRM W/TELCO
7	SERVICE		CONFIRM W/ELECT. UTIL
8			
9			



ELECTRICAL SITE PLAN (2/E1)

SCALE 1" = 20'

PERCENT CONDUIT FILL

RUN #	INSULATION	CONDUCTOR	QUANTITY
PANA–5HP MTR	THWN	2	2
	THWN	8	1

REQUIRES 1 INCH CONDUIT = 32.2% CONDUIT FILL – 40% ALLOWED.

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. NOLAN NO E 9333 ELECTRICAL STATE OF CALIFORNIA

ELECTRICAL NOTES & SYMBOLS:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE 1990 EDITION
2. ALL UNDERGROUND OUTSIDE BRANCH CIRCUIT AND FEEDER CIRCUITS ARE TO BE RUN IN NONMETALLIC CONDUIT SCHEDULE 40.
3. ALL ELECTRICAL CONDUCTORS ARE TO BE THWN COPPER.
4. ALL ELECTRICAL SYMBOLS PER ANSI Y32.9 1972. REAFFIRMED 1989.
5. ANY CUT SEWER OR SPRINKLER MUST BE REPLACED BY CONTRACTOR AT HIS EXPENSE.
6. UTILITIES AND LIGHTING EQUIPMENT ARE DRAWN DIAGRAMMETICALLY. SCALED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY DIMENSIONS, IMMEDIATELY NOTIFY ENGINEER OF DISCREPENCIES BETWEEN DRAWINGS OR SPECIFICATIONS AND ACTUAL CONDITIONS, ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, IT IS NOT WITHIN SCOPE OF THE DRAWINGS TO SHOW NECESSARY OFFSETS, OBSTRUCTIONS, OR SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONISIBLE TO INSTALL WORK IN SUCH A MANNER THAT IT WILL CONFIRM TO SITE CONDITIONS, COMPLETE AND IN GOOD WORKING ORDER.
7. WITH REFERENCE TO TELEPHONE AND ELECTRICAL UTILITIES THIS IS A PRELIMINARY PLAN ONLY, AND IS NOT BE USED FOR CONSTRUCTION PURPOSES.
8. SWITCHGEAR SHOP DRAWINGS TO BE PROVIDED TO THE ELECTRICAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
9. ELECTRICAL CONTRACTOR IS TO CONTACT SERVING TELCO FOR NEW TELEPHONE SERVICE TO THE IRRIGATION CONTROLLER ON SITE.
10. —— —— CONDUCTORS W/GROUND RUN UNDERGROUND. REF SITE PLAN FOR SIZES OF CONDUCTORS AND CONDUITS.
11. (1/E1) INDICATES DETAIL # / INDICATES SHEET #
12. —— – —— SERVICE LATERAL TRENCH
13. (LCC) LIGHTING CONTACTOR COIL.
14. ⊣ ⊢ LIGHTING CONTACTOR – CONTACTS. N.O. – LETTERS INDICATE COIL CONTROLLING CONTACTS.
15. (TC) TIME CLOCK.
16. ⊠ UNDERGROUND CONCRETE PULLBOX #3–1/2 (17.5"X12.5"X12.5" PREFAB CONCRETE WITH TRAFFIC COVER. TO VEHICULAR TRAFFIC.
17. ●A1 #n POLE MOUNTED WALKWAY LIGHT. SUBSCRIPT INDICATES DESIGNATION AS FOUND ON FIXTURE SCHEDULE. REF AIMING DIAGRAM ON SHEET E3 FOR LOCATION AND ORIENTATION WITH RESPECT PLAN VIEW. NUMBER (n) INDICATES "ODD" OR "EVEN" FIXTURE AS SCHEDULED ON BREAKER ASSIGNMENTS. SEE SHT. E-4 FOR NUMBER OF EACH FIXTURE/POLE.
18. ◆B1/C1 POLE MOUNTED AREA LIGHT. SUBSCRIPT INDICATES DESIGNATION AS FOUND ON FIXTURE SCHEDULE. REF AIMING DIAGRAM ON SHEET E3 FOR LOCATION AND ORIENTATION WITH RESPECT PLAN VIEW.
19. (n) BRANCH CIRCUIT CONDUCTORS AS INDICATED ON BRANCH CIRCUIT SCHEDULE.

PELA

PROJ.#9311261
DATE: 06/24/94
DWG FILE: ORANGEE2

DRAWING NUMBER
PLAN HOLD DOWN NO. • RIVERSIDE, CALIFORNIA
RESOLUTION NUMBER 13704

DRAWING NUMBER
PLAN HOLD DOWN NO. • RIVERSIDE, CALIFORNIA
RESOLUTION NUMBER 13704

DRAWING NUMBER
PLAN HOLD DOWN NO. • RIVERSIDE, CALIFORNIA
RESOLUTION NUMBER 13704
TH - 18

DRAWING NUMBER
PLAN HOLD DOWN NO. • RIVERSIDE, CALIFORNIA
RESOLUTION NUMBER 13704

ELECTRICAL SITE PLAN

ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
19631 Highway 18, Suite 200
Apple Valley, California 92307
(619) 242-3589

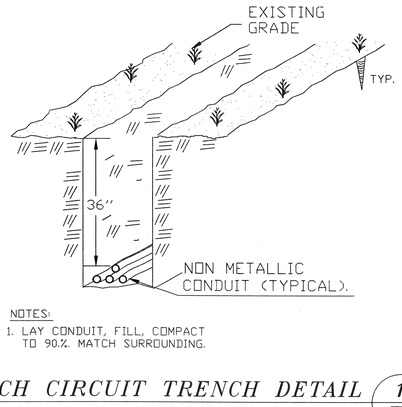
CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

REVISION:	BY
PER CITY COMMENTS	J.E.T.

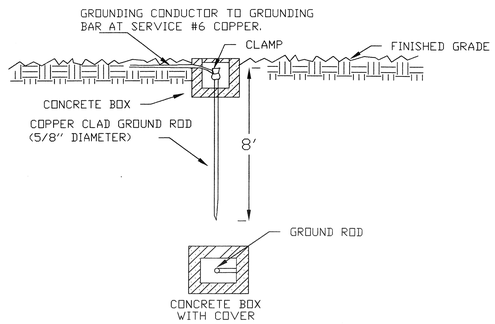
sheet E-1

P-0306



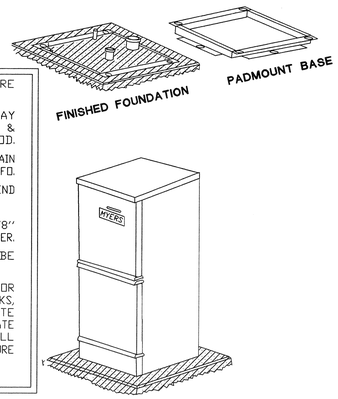
NOTES:
1. LAY CONDUIT, FILL, COMPACT TO 90.% MATCH SURROUNDING.

BRANCH CIRCUIT TRENCH DETAIL 1/E2
NO SCALE

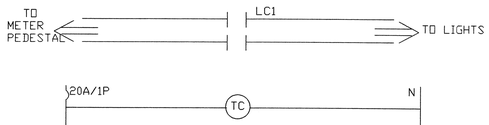


DRIVEN GROUND ROD DETAIL 2/E2
NO SCALE

1. SWITCHGEAR TO BE IN NEMA 3R ENCLOSURE WITH HASP.
2. ORDERING INFORMATION ON SWITCHGEAR MAY BE OBTAINED FROM "JIM" @ NELSON & ASSOC. (213)921-4423 MEUGD-M200C/SSMOD.
3. REF BREAKER ASSIGNMENTS FOR INFORMATION ON MAIN CIRCUIT BREAKER INTERIOR SPACES AND OTHER INFO.
4. PAD TO BE 2000PSI CONCRETE 6 " THICK. EXTEND 4" BEYOND ENCLOSURE ON ALL SIDES.
5. SWITCHGEAR TO BE SECURED TO PAD WITH 3/8" X 3-1/2" ANCHOR BOLTS ASTM A325 AT EACH CORNER.
6. PROVIDE DUPLEX GFCI RECEPTACLE TO BE MOUNTED INSIDE PANELBOARD.
7. ENCLOSURE SHOWN HAS SUFFICIENT SPACE FOR MOUNTING OF P.E. CELL CONTACTORS, TIMECLOCKS, & CONTROLS IN AUXILIARY SECTION. SEPARATE FROM LIVE EXPOSED ELECTRICAL PARTS. ALTERNATE SUBMITTAL WILL ONLY BE CONSIDERED IF ALL EQUIPMENT CAN BE MOUNTED IN THE ONE ENCLOSURE

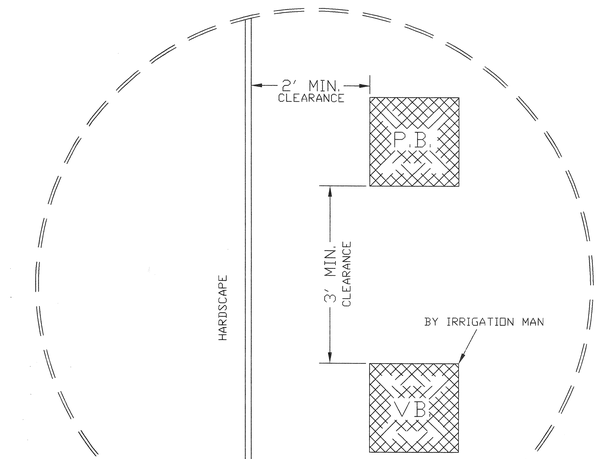


SERVICE METER PEDESTAL 3/E2
NO SCALE

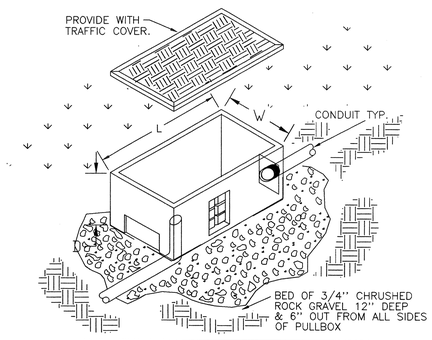


NOTES:
1. ALL CONTROL WIRING TO BE #12THWN COPPER IN 1/2"C WHERE EXPOSED.
2. PROVIDE ONE SYSTEM FOR WALKWAY "EVEN", ONE SYSTEM FOR WALKWAY "ODD", ONE SYSTEM FOR PLAY AREA LIGHTS - GAZEBO LIGHT. (3) TOTAL.
3. RATINGS OF CONTACTORS TO MATCH CIRCUIT BREAKER.
4. MOUNT TIMECLOCK, CONTACTORS & TEST SWITCH IN METER PEDESTAL. REF DETAIL.
5. TEST SWITCH TO BE RESIDENTIAL SNAP SWITCH. LABELED "TEST" IN INDELIBLE LETTERING.
6. ALL LIGHTS TO BE CONTROLLED - P.E. CELL ON - TIMECLOCK OFF. TIMECLOCK TO BE 3 CHANNEL MINIMUM. REFERENCE SPECIFICATION. TIMECLOCK WILL ALLOW FOR H-O-A OPERATION. (ON-OFF-MANUAL)

CONTROL DIAGRAM - EXTERIOR LIGHTING 4/E2
NO SCALE



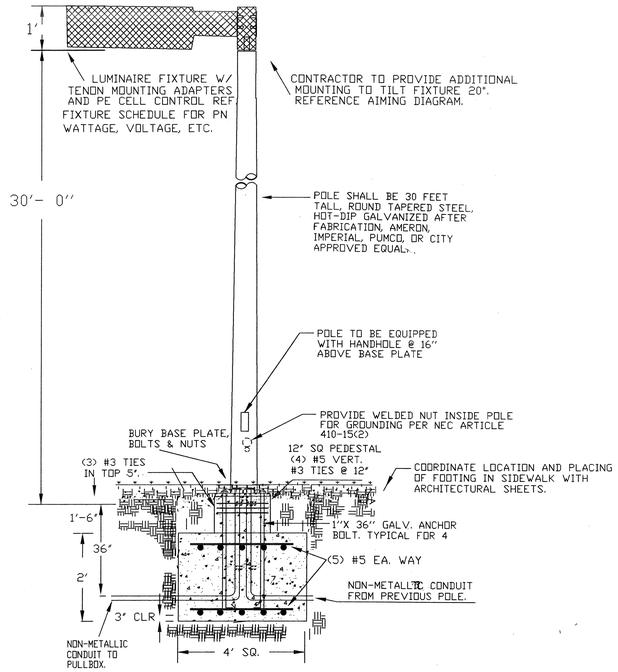
STANDARD DETAIL PULLBOX TO EDGE OF HARDSCAPE 9/E2
NO SCALE



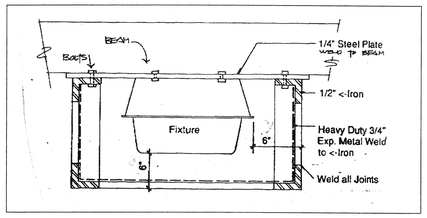
PULLBOX/VAULT SCHEDULE			
PN	Length	Width	Depth
#3-1/2	17.5"	12.5"	12.5"

1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PULLBOX.
2. REFERENCE ELECTRICAL SITE PLAN FOR SIZE OF CONDUITS
3. DIMENSIONS SHOWN FOR PULLBOX ARE TO BE PROVIDED UNLESS INDICATED OTHERWISE ON ELECTRICAL SITE PLAN NOTES.
4. PROVIDE SCHEDULE 40 SWEEPS INTO PULLBOX.

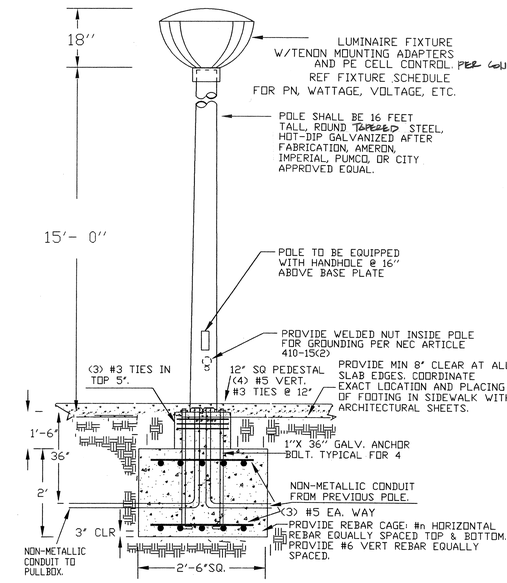
PULLBOX INSTALLATION DETAIL 5/E2
NO SCALE



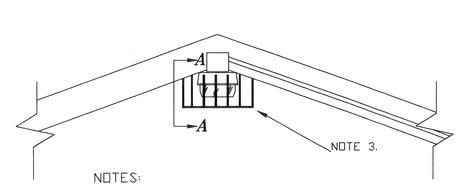
PLAY AREA LIGHT DETAIL 6/E2
NO SCALE



SECTION A-A



DETAILS WALKWAY STANDARD 7/E2
NO SCALE



NOTES:
1. FIXTURE TO BE KENALL # 5788 175W MH.
2. PROVIDE WITH PHOTOELECTRIC CONTROL
3. BOLT 14 GAUGE EXPANDED METAL CAGE WITH ANGLE. CAGE TO MINIMUM 6" OUT FROM LUMINAIRE. REF CITY OF RIVERSIDE SPEC.
4. CONTRACTOR TO PROVIDE NECESSARY HARDWARE TO MOUNT FIXTURE TO ROOF OF SHADE STRUCTURE (GAZEBO)
5. FINISH - BAKED ON ENAMEL PAINT IN DARK BRONZE

SHADE STRUCTURE (GAZEBO)
FIXTURE MOUNTING DETAIL 8/E2
NO SCALE

BREAKER ASSIGNMENTS

MANF	MYERS		PANEL EQIPMENT 1PEDESTAL					
VOLTS	120/240		LOCATION - REF SITE PLAN					
PHASE	1		FEEDER - REF. A.C. SINGLE LINE					
WIRE	3		AMPS 100					
M.O.C.D.	D. 100 AMPS		MOUNTING - SELF STANDING					
CKT #	DESCRIPTION/ LOCATION	LOAD TYPE	VOLT AMPS	PHASE	CKT BKR AMPS	POLES	BRKR CONDUCTOR SIZE	GROUND WIRE
1	WALKWAY "ODD" (9)	LITES	783	A	20	2	#12	#12
2	WALKWAY "EVEN" (9)	LITES	783	A	20	2	#12	#12
3	WALKWAY "ODD" (9)	LITES	783	C	--		#12	
4	WALKWAY "EVEN" (9)	LITES	783	C	--		#12	
5	PLAY AREA/TOT LOT (3) GAZEBO (1)	LITES	1542	A	20	2	#12	#12
6	BASKETBALL (FUT)	LITES		A	40	2		
7	PLAY AREA/TOT LOT (3) GAZEBO (1)	LITES	1542	C	--		#12	
8	BASKETBALL (FUT)	LITES		C	--			
9	SPARE			A	20	1		
10	SPARE			A	20	1		
11	PEDESTAL	RECEPT	180	C	20	1	#12	#12
12	TC & CONTACTORS	CONTROL	500	C	20	1	#12	#12
13	IRRIGATION CONTROL	CONTROL	500	A	20	2	#12	#12
14	IRRIGAITON PUMP 5 HP	MOTOR	3220	A	50	2	#2	#8
15	IRRIGATION CONTROL	CONTROL	500	C	--		#12	
16	IRRIGAITON PUMP 5 HP	MOTOR	3220	C	--		#2	#8
17	SPARE			A	20	1		
18	SPARE			A	20	1		
19	SPARE			C	20	1		
20	SPARE			C	20	1		

PROPOSED TOTAL VOLT AMPS	14366	VOLTAMPS
PROPOSED LOAD	14366	VOLTAMPS
PROPOSED AMPS/LEG	62	AMPS
62 AMPS @ 125% LCL =	78	AMPS
PROPOSED BUSS RATING	100	AMPS

NOTE: 1. ALL CIRCUIT BREAKERS TO BE 10KAIC.

PELA

PROJ.#9311261
DATE: 06/24/94
DWG FILE: ORANGEE2

ELECTRICAL DETAILS

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. NOLAN NO E 9333 ELECTRICAL STATE OF CALIFORNIA

ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
18201 Highway 18, Suite 200
Apple Valley, California 92307
(619) 242-3368

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

REVISION:	BY
PER CITY COMMENTS	J.E.T.

sheet E-2

P-0306

DRAWING NUMBER
PLAN HOLD DOWN/REVISION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 127248

DRAWING NUMBER
PLAN HOLD DOWN/REVISION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 127248

DRAWING NUMBER
7H - 11
PLAN HOLD DOWN/REVISION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 127248

DRAWING NUMBER
PLAN HOLD DOWN/REVISION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 127248

LUMINAIRE SCHEDULE

Symbol	Label	Description Spaulding Lighting Inc.	Type/ Watts	Lumens	Light Loss Factor	Mounting Height	Notes:
●	A1	MWC HB150LU240BZPOLY Tilt: 0.0	150W/HPS	16000	1.00	16.00	
■	B1	HUBBEL RCT1000S-1T8-1 Tilt: 20.0	1000W/HPS	140000	1.00	30.00	PROVIDE WITH "EYELID" SHIELDS.
▣	C1	HUBBEL RCJ0400S-1T8-1 Tilt: 0.0	400W/HPS	50000	1.00	30.00	

RATIOS FOR PLAYAREAS

AVERAGE FOOTCANDLES = 12.10

MAX/MIN RATIO = 12.5 : 1

RATIOS FOR WALKWAY

MINIMUM FOOTCANDLES = 0.60

AVG/MIN RATIO = 1.3 : 1

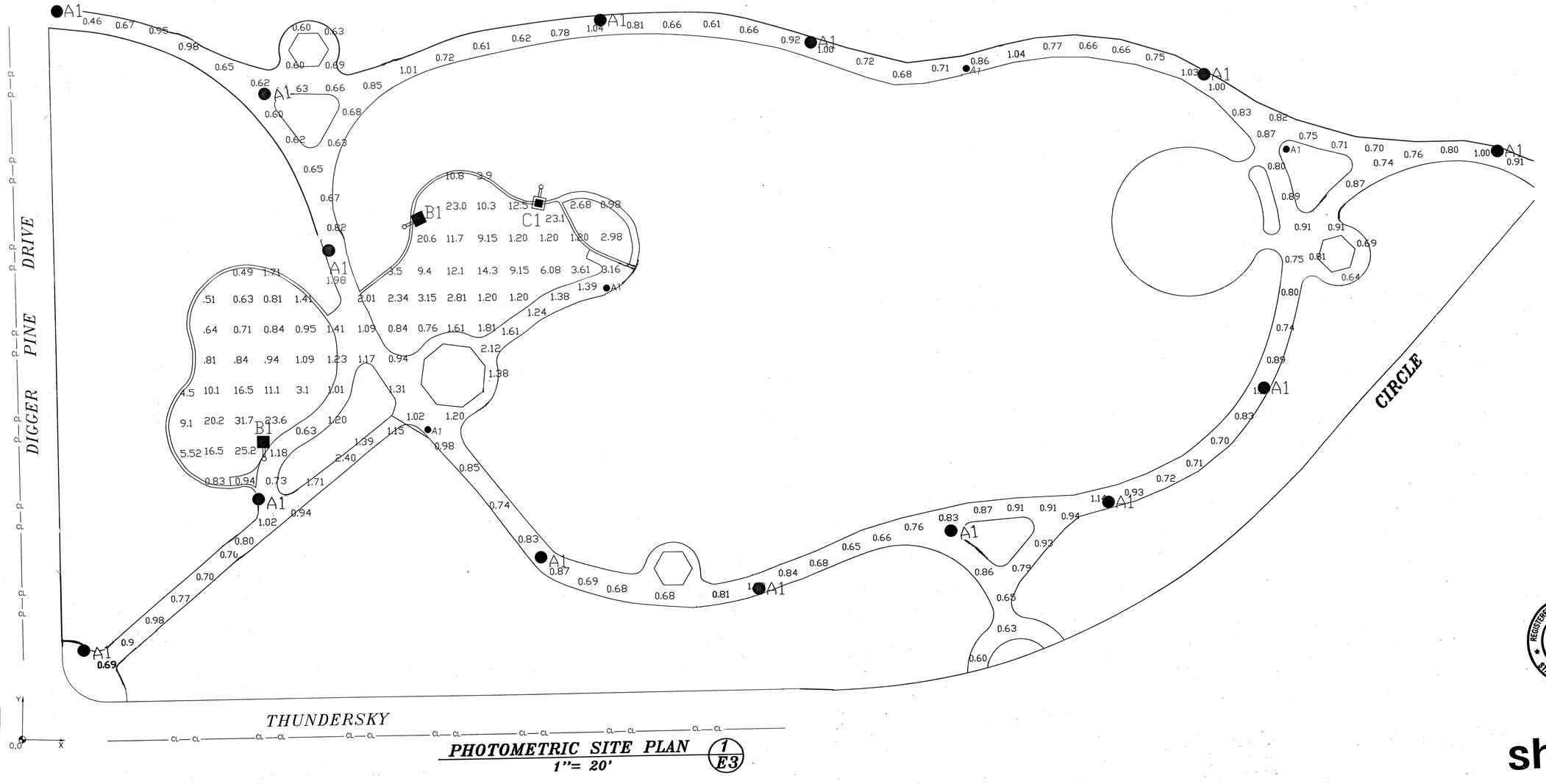
LUMINAIRE AIMING DIAGRAM

LIST OF LUMINAIRE POSITIONS AND ORIENTATIONS

LUMINAIRE ORIENTATION IS MEASURED FROM THE FORWARD Y DIRECTION.

Pole No.	Luminaire No.	Type	X-Co-ord. Feet	Y-Co-ord. Feet	Height Above Pavement	Orientation Angle
1	1	1	116	111	16	90
2	1	1	203	149	16	90
3	1	1	246	81	16	90
4	1	1	340	68	16	90
5	1	1	428	103	16	90
6	1	1	521	123	16	90
7	1	1	583	193	16	90
8	1	1	576	292	16	90
9	1	1	492	336	16	90
10	1	1	403	314	16	90
11	1	1	314	340	16	90
12	1	1	208	328	16	90
13	1	1	25	334	16	90
14	1	1	148	203	16	90
15	1	1	260	213	16	90
16	1	1	666	293	16	90
17	1	1	119	296	16	90
18	1	1	31	38	16	353
19	1	2	111	129	30	66
20	1	2	181	241	30	203
21	1	3	248	258	30	

NOTE: REF SITE PLAN, ELECTRICAL NOTES , KEYNOTES ON SHEETS E-1 AND SHEET C-1 RE LOCATIONS OF POLES.



PHOTOMETRIC SITE PLAN (1/E3)

1"= 20'

PELA

PROJ.#9311261

DATE: 06/24/94

DWG FILE: DRANGE1

PHOTOMETRIC SITE PLAN

CREW ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13031 Highway 18, Suite 200
Apple Valley, California 92307
(619) 242-3369

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

REVISION:	BY
#1 PER CITY CITY COMMENTS	J.E.T.

REGISTERED PROFESSIONAL ENGINEER
JOSEPH M. NOLAN
NO E 9333
ELECTRICAL
STATE OF CALIFORNIA

sheet E-3

P-0306

DRAWING NUMBER

PLAN-HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED IN ALAMEDA COUNTY

DRAWING NUMBER

PLAN-HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED IN ALAMEDA COUNTY

DRAWING NUMBER

TH-16

PLAN-HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED IN ALAMEDA COUNTY

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
TH - 15

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

PELA

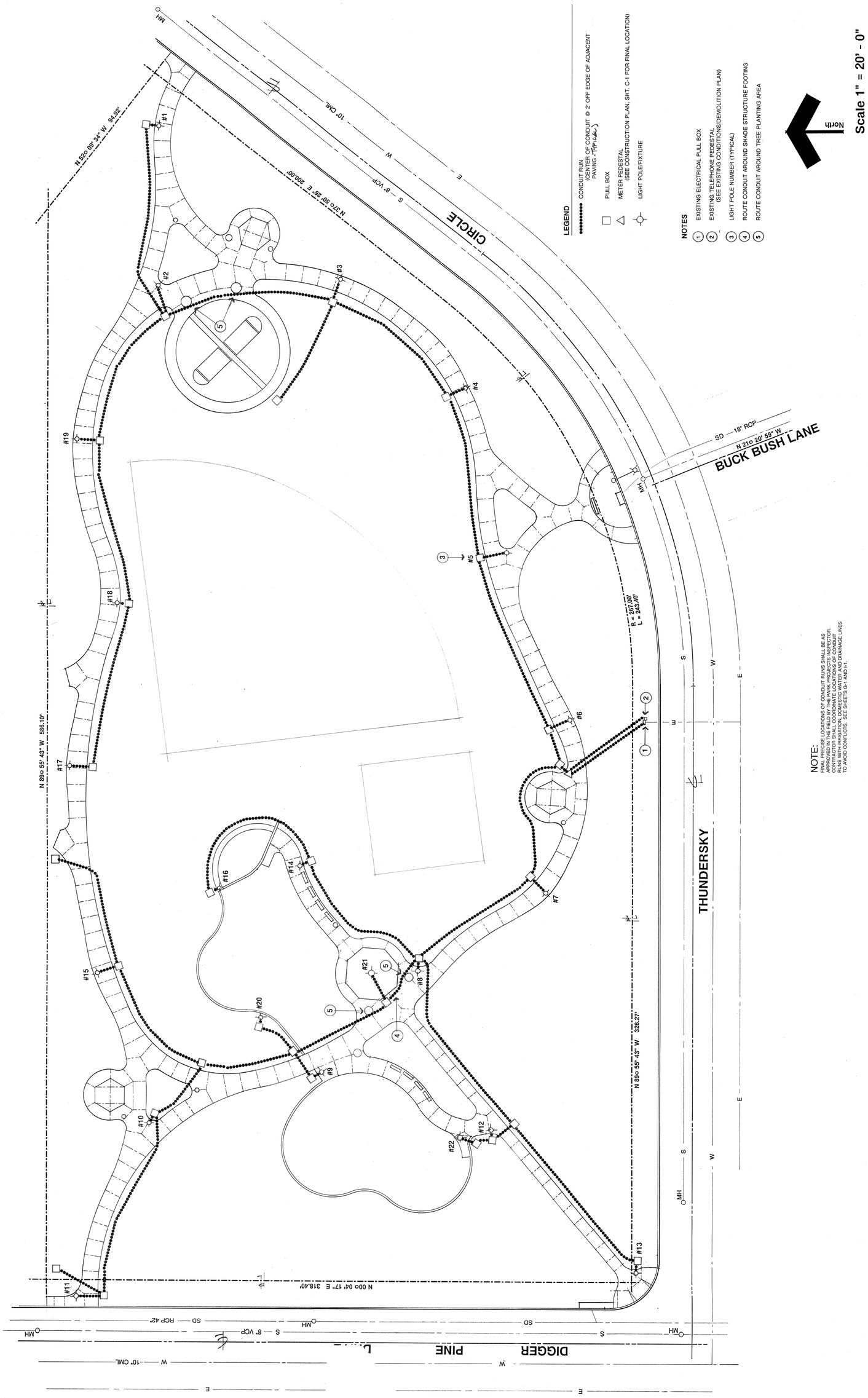
Electrical Conduit Layout

ORANGECREST PARK SITE #2

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

P-0306

sheet E-4



NOTE:
FINAL PRECISE LOCATIONS OF CONDUIT RUNS SHALL BE AS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF CONDUIT RUNS WITH IRRIGATION, DOMESTIC WATER AND DRAINAGE LINES TO AVOID CONFLICTS. SEE SHEETS G-1 AND I-1.