

CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT

CASTLEVIEW PARK

1410 VIA VISTA DRIVE, RIVERSIDE, CA 92522



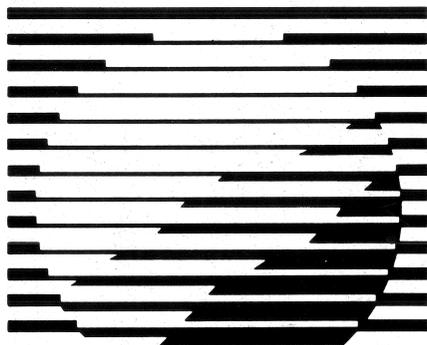
CLARK & GREEN
ASSOCIATES
LANDSCAPE ARCHITECTURE
LIC # CA 2105 2311 AZ 19864
1070 Bristol Street, Suite 150, Costa Mesa, California 92626
CITY BUSINESS TAX CERTIF. NO. 049108 EXP. DATE 10-31-89

BY	
REVISIONS	

CASTLEVIEW PARK
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

COVER SHEET

DRAWN	DATE
CHECKED	11/2/94
SCALE	
JOB NO.	91-085
SHEET	

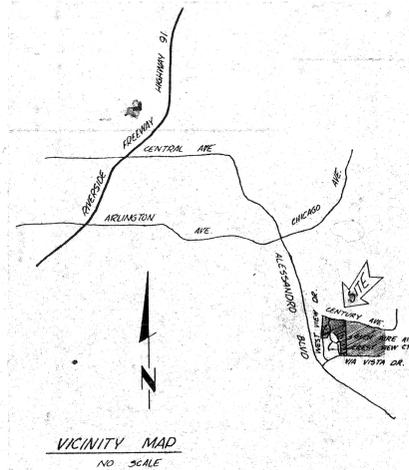


CLARK & GREEN

Associates
Landscape Architecture

3070 Bristol Street, Suite 150
Costa Mesa, California 92626
(714) 434-9803 FAX (714) 434-9109

VICINITY MAP



CONSULTANTS

CIVIL ENGINEER

INTEGRA ENGINEERING
621 CARNEGIE DR., SUITE 12
SAN BERNARDINO, CA 92408
(714) 383-0200

ELECTRICAL ENGINEER

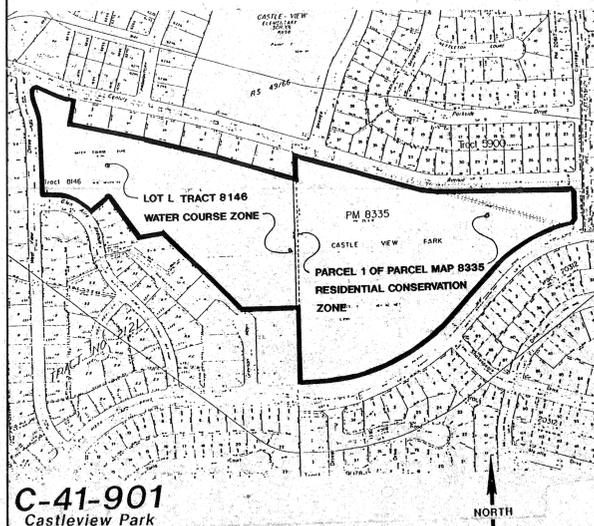
REEDCORP ENGINEERING
2061 BUSINESS CENTER DRIVE, SUITE 110
IRVINE, CA 92715
(714) 752-1278

GEO-TECHNICAL ENGINEER

C.H.J. INC.
1355 E. COOLEY DRIVE
COLTON, CA 92324
(714) 824-7216

SHEET INDEX

COVER SHEET	
GRADING AND DRAINAGE PLAN PHASE I	1.0
GRADING AND DRAINAGE PLAN PHASE IV	1.1
GRADING AND DRAINAGE PLAN PHASE IA & II-IV	1.2
LAYOUT AND CONSTRUCTION PLAN PHASE I	2.0
CONSTRUCTION DETAILS PHASE I	3.0,3.1
IRRIGATION PLAN PHASE I	4.0
PLANTING PLAN PHASE I	5.0
IRRIGATION AND PLANTING DETAILS PHASE I	6.0
ELECTRICAL/LIGHTING PLAN,	7.0
MISCELLANEOUS NOTES AND DETAILS	



C-41-901
Castleview Park
ZONE MAP

APPROVAL

EPC REVIEW REQUIRED
(EP-007-934)

Planning Department

Date

APPROVALS

<i>Dee W. Ballman</i>	11/2/94
Director of Park and Recreation	Date
<i>Tom Nelson</i>	11/2/94
Park Superintendent	Date
<i>Robert Fisher</i>	11/14/94
Recreation Superintendent	Date
<i>Robert Fisher</i>	11/14/94
Park Planning Coordinator	Date

BID SET

CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT

CASTLEVIEW PARK

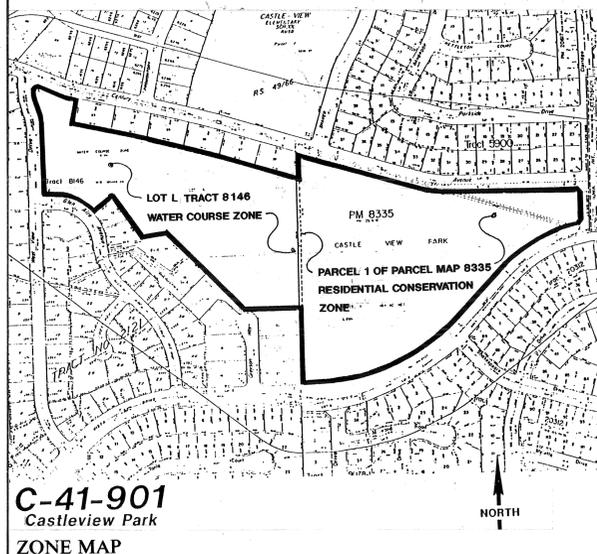
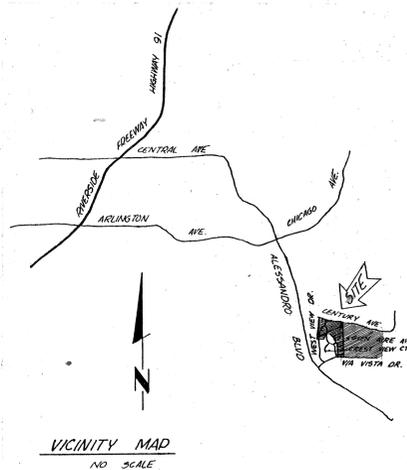
1410 VIA VISTA DRIVE, RIVERSIDE, CA 92522



CLARK & GREEN
Associates
Landscape Architecture

3070 Bristol Street, Suite 150
Costa Mesa, California 92626
(714) 434-9803 FAX (714) 434-9109

VICINITY MAP



C-41-901
Castleview Park
ZONE MAP

CONSULTANTS

CIVIL ENGINEER

INTEGRA ENGINEERING
621 CARNEGIE DR., SUITE 12
SAN BERNARDINO, CA 92408
(714) 383-0200

ELECTRICAL ENGINEER

REEDCORP ENGINEERING
2061 BUSINESS CENTER DRIVE, SUITE 110,
IRVINE, CA 92715
(714) 752-1278

GEO-TECHNICAL ENGINEER

C.H.J. INC.
1355 E. COOLEY DRIVE
COLTON, CA 92324
(714) 824-7216

SHEET INDEX

COVER SHEET	
GRADING AND DRAINAGE PLAN PHASE I	1.0
GRADING AND DRAINAGE PLAN PHASE IV	1.1
GRADING AND DRAINAGE PLAN PHASE IA & II-IV	1.2
LAYOUT AND CONSTRUCTION PLAN PHASE I	2.0
CONSTRUCTION DETAILS PHASE I	3.0,3.1
IRRIGATION PLAN PHASE I	4.0
PLANTING PLAN PHASE I	5.0
IRRIGATION AND PLANTING DETAILS PHASE I	6.0
ELECTRICAL/LIGHTING PLAN,	7.0
MISCELLANEOUS NOTES AND DETAILS	

APPROVALS

<i>Dee W. Balkman</i>	4/2/94	Date
Director of Park and Recreation	11/3/94	Date
<i>Jerry Nelson</i>	2/26/94	Date
Park Superintendent	91-082	Date
Recreation Superintendent	11/4/94	Date
<i>Robert Johnson</i>		Date
Park Planning Coordinator		Date

APPROVAL

EPC REVIEW REQUIRED
(EP-007-934)

Planning Department *[Signature]* 12/8/94 Date



CLARK & GREEN
ASSOCIATES
LANDSCAPE ARCHITECTURE
Lic. # CA 2105, 2311, AZ 1984
3070 Bristol Street, Suite 150, Costa Mesa, California 92626
(714) 434-9803 • FAX (714) 434-9109
CITY BUSINESS TAX CERT. NO. 049108 EXP. DATE 10-31-98

REVISIONS	

CASTLEVIEW PARK
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

COVER SHEET

DRAWN	FMH
CHECKED	
DATE	11/3/94
SCALE	
JOB NO.	91-082
SHEET	



CLARK & GREEN
 1070 Birch Street, Suite 150, Costa Mesa, California 92626
 Lic. # CA 2105, 2311, AZ 1984
 Civil Engineers - Landscape Architects

NO.	DATE	DESCRIPTION

PROJECT: **CASTLEVIEW PARK**
 1410 Via Vista Drive, Riverside, CA 92522
 City of Riverside Park and Recreation Department

SHEET TITLE: **GRADING AND DRAINAGE**
 PHASE I
 (BASE BID)

DRAWN	
CHECKED	
DATE	11/3/94
SCALE	1"=20'-0"
JOB NO.	91-085
SHEET	1.0

2 OF 11 SHEETS

PLAN NO. P-0924

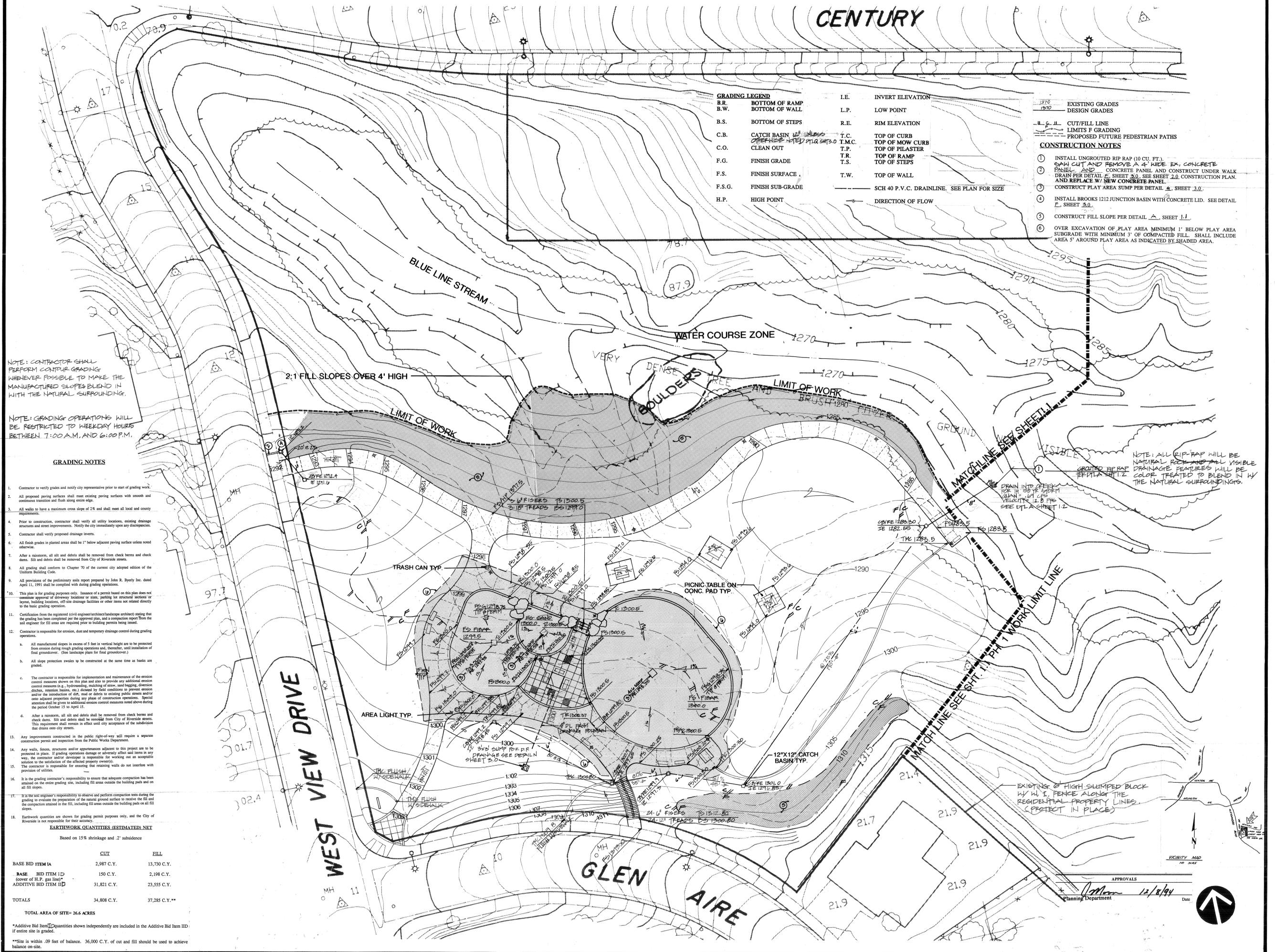
CENTURY

GRADING LEGEND		I.E. INVERT ELEVATION	
B.R.	BOTTOM OF RAMP	L.P.	LOW POINT
B.W.	BOTTOM OF WALL	R.E.	RIM ELEVATION
B.S.	BOTTOM OF STEPS	T.C.	TOP OF CURB
C.B.	CATCH BASIN	T.M.C.	TOP OF MOW CURB
C.O.	CLEAN OUT	T.P.	TOP OF PILASTER
F.G.	FINISH GRADE	T.R.	TOP OF RAMP
F.S.	FINISH SURFACE	T.S.	TOP OF STEPS
F.S.G.	FINISH SUB-GRADE	T.W.	TOP OF WALL
H.P.	HIGH POINT		

1270	EXISTING GRADES
1270	DESIGN GRADES
—	CUT/FILL LINE
—	LIMITS OF GRADING
—	PROPOSED FUTURE PEDESTRIAN PATHS

CONSTRUCTION NOTES

- INSTALL UNGRADED RIP-RAP (10 CU. FT.) SAW CUT AND REMOVE A 4" WIDE EX. CONCRETE PANEL AND CONSTRUCT UNDER WALK DRAIN PER DETAIL E, SHEET 2.0. CONSTRUCT UNDER PLAN AND REPLACE W/ NEW CONCRETE PANEL.
- CONSTRUCT PLAY AREA SUMP PER DETAIL A, SHEET 3.0.
- INSTALL BROOKS 1212 JUNCTION BASIN WITH CONCRETE LID. SEE DETAIL E, SHEET 3.0.
- CONSTRUCT FILL SLOPE PER DETAIL A, SHEET 1.1.
- OVER EXCAVATION OF PLAY AREA MINIMUM 1' BELOW PLAY AREA SUBGRADE WITH MINIMUM 3' OF COMPACTED FILL. SHALL INCLUDE AREA 3' AROUND PLAY AREA AS INDICATED BY SHADED AREA.



NOTE: CONTRACTOR SHALL PERFORM CONTOUR GRADING WHENEVER POSSIBLE TO MAKE THE MANUFACTURED SLOPES BLEND IN WITH THE NATURAL SURROUNDING.

NOTE: GRADING OPERATIONS WILL BE RESTRICTED TO WEEKDAY HOURS BETWEEN 7:00 A.M. AND 6:00 P.M.

- #### GRADING NOTES
- Contractor to verify grades and notify city representative prior to start of grading work.
 - All proposed paving surfaces shall meet existing paving surfaces with smooth and continuous transition and flush along entire edge.
 - All walks to have a maximum cross slope of 2% and shall meet all local and county requirements.
 - Prior to construction, contractor shall verify all utility locations, existing drainage structures and street improvements. Notify the city immediately upon any discrepancies.
 - Contractor shall verify proposed drainage inverts.
 - All finish grades in planted areas shall be 1" below adjacent paving surface unless noted otherwise.
 - 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.
 - All grading shall conform to Chapter 70 of the current city adopted edition of the Uniform Building Code.
 - All provisions of the preliminary soils report prepared by John R. Beyer Inc. dated April 11, 1991 shall be complied with during grading operations.
 - This plan is for grading purposes only. Issuance of a permit based on this plan does not constitute approval of driveway location or site, parking lot structural sections or layout, building locations, off-site drainage facilities or other items not related directly to the basic grading operation.
 - Certification from the registered (civil engineer/architect/landscape architect) stating that the grading has been completed per the approved plan, and a construction report from the soil engineer for fill areas are required prior to building permits being issued.
 - Contractor is responsible for erosion, dust and temporary drainage control during grading operations.
 - 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.)
 - All slope protection swales to be constructed at the same time as banks are graded.
 - The contractor is responsible for implementation and maintenance of the erosion control measures shown on this plan and site 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 needed above during the period October 15 to April 15.
 - 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 subdivision that drains onto city streets.

- Any improvements constructed in the public right-of-way will require a separate construction permit and inspection from the Public Works Department.
- Any walls, fences, structures and/or appurtenances adjacent to this project are to be protected in place. If grading operations damage or adversely affect any items in any way, the contractor and/or developer is responsible for restoring them to an acceptable condition to the satisfaction of the affected property owner(s). The contractor is responsible for ensuring that retaining walls do not interfere with provisions of utilities.
- 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.
- 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 on all fill slopes.
- Earthwork quantities are shown for grading permit purposes only, and the City of Riverside is not responsible for their accuracy.

EARTHWORK QUANTITIES (ESTIMATED) NET

Based on 15% shrinkage and .2' subsidence

	CUT	FILL
BASE BID ITEM IA	2,987 C.Y.	13,730 C.Y.
BASE BID ITEM 1D (cover of H.P. gas lines)	150 C.Y.	2,198 C.Y.
ADDITIVE BID ITEM 1D	31,821 C.Y.	23,555 C.Y.
TOTALS	34,808 C.Y.	37,283 C.Y.**

TOTAL AREA OF SITE= 26.6 ACRES

**Additive Bid Item quantities shown independently are included in the Additive Bid Item 1D if entire site is graded.

**Site is within .09 feet of balance. 36,000 C.Y. of cut and fill should be used to achieve balance on-site.

GRADING NOTES

- Contractor to verify grades and notify city representative prior to start of grading work.
- All proposed paving surfaces shall meet existing paving surfaces with smooth and continuous transition and flush along entire edge.
- All walks to have a maximum cross slope of 2% and shall meet all local and county requirements.
- Prior to construction, contractor shall verify all utility locations, existing drainage structures and street improvements. Notify the city immediately upon any discrepancies.
- Contractor shall verify proposed drainage inverts.
- All finish grades in planted areas shall be 1" below adjacent paving surface unless noted otherwise.
- 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.
- All grading shall conform to Chapter 70 of the current city adopted edition of the Uniform Building Code.
- All provisions of the preliminary soils report prepared by John R. Byerly Inc. dated April 11, 1991 shall be complied with during grading operations.
- This plan is for grading purposes only. Issuance of a permit based on this plan does not constitute approval of driveway locations or sites, parking lot structural sections or layout, building locations, off-site drainage facilities or other items not related directly to the basic grading operation.
- Certification from the registered (civil engineer/architect/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.
- Contractor is responsible for erosion, dust and temporary drainage control during grading operations.
 - 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.)
 - All slope protection swales to be constructed at the same time as banks are graded.
 - 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.
 - 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 subdivision that drains onto city streets.
- Any improvements constructed in the public right-of-way will require a separate construction permit and inspection from the Public Works Department.
- 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).
- The contractor is responsible for ensuring that retaining walls do not interfere with provision of utilities.
- 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.
- 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 on all fill slopes.
- Earthwork quantities are shown for grading permit purposes only, and the City of Riverside is not responsible for their accuracy.

EARTHWORK QUANTITIES (ESTIMATED NET)

Based on 15% shrinkage and .2' subsidence

	CUT	FILL
BASE BID ITEM IA	2,987 C.Y.	13,730 C.Y.
BASE BID ITEM ID (cover of H.P. gas line)	150 C.Y.	2,198 C.Y.
ADDITIVE BID ITEM IID (GRADING THE ENTIRE SITE)	31,821 C.Y.	23,555 C.Y.
TOTALS	34,808 C.Y.	37,283 C.Y.**

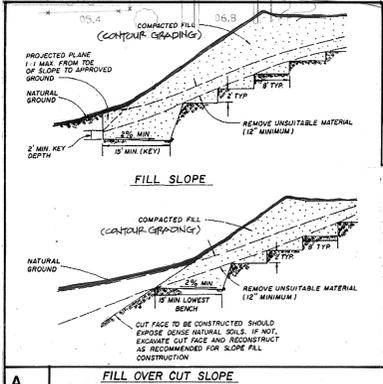
*Additive Bid Item IID quantities shown independently are included in the Additive Bid Item IID if entire site is graded.

**Site is within .09 feet of balance. 36,000 C.Y. of cut and fill should be used to achieve balance on-site.

NOTE: GRADING OPERATIONS WILL BE RESTRICTED TO WEEKDAY HOURS BETWEEN 7:00 A.M. AND 6:00 P.M. IF ADDITIVE BID ITEM IID IS AWARDED, THE CONTRACTOR SHALL BE RESPONSIBLE TO HYDROSEED ALL MANUFACTURED SLOPE OVER 5' HIGH FOR EROSION CONTROL. SEE HYDROSEED MIX FOR SLOPE ON PLANTING PLAN (SHEET 5.0).

IF ONLY BASE BID ITEMS ARE AWARDED AND IF CONTRACTOR GRADES THE CONSTRUCTION BORROW SITE (SHOWN ON SHEET 1.2) TO FILL PHASE I AREA, THE CONTRACTOR SHALL BE RESPONSIBLE TO HYDROSEED ALL MANUFACTURED SLOPE OVER 5' HIGH FOR EROSION CONTROL. SEE HYDROSEED MIX FOR SLOPE ON PLANTING PLAN (SHEET 5.0).

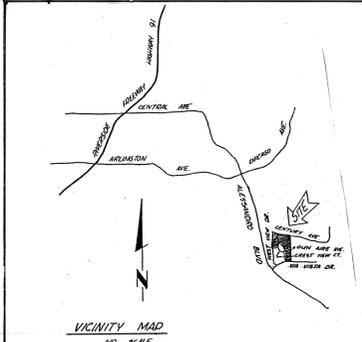
CONTRACTOR SHALL PERFORM CONTOUR GRADING TO MAKE THE MANUFACTURED SLOPES BLEND IN WITH THE NATURAL SURROUNDING.



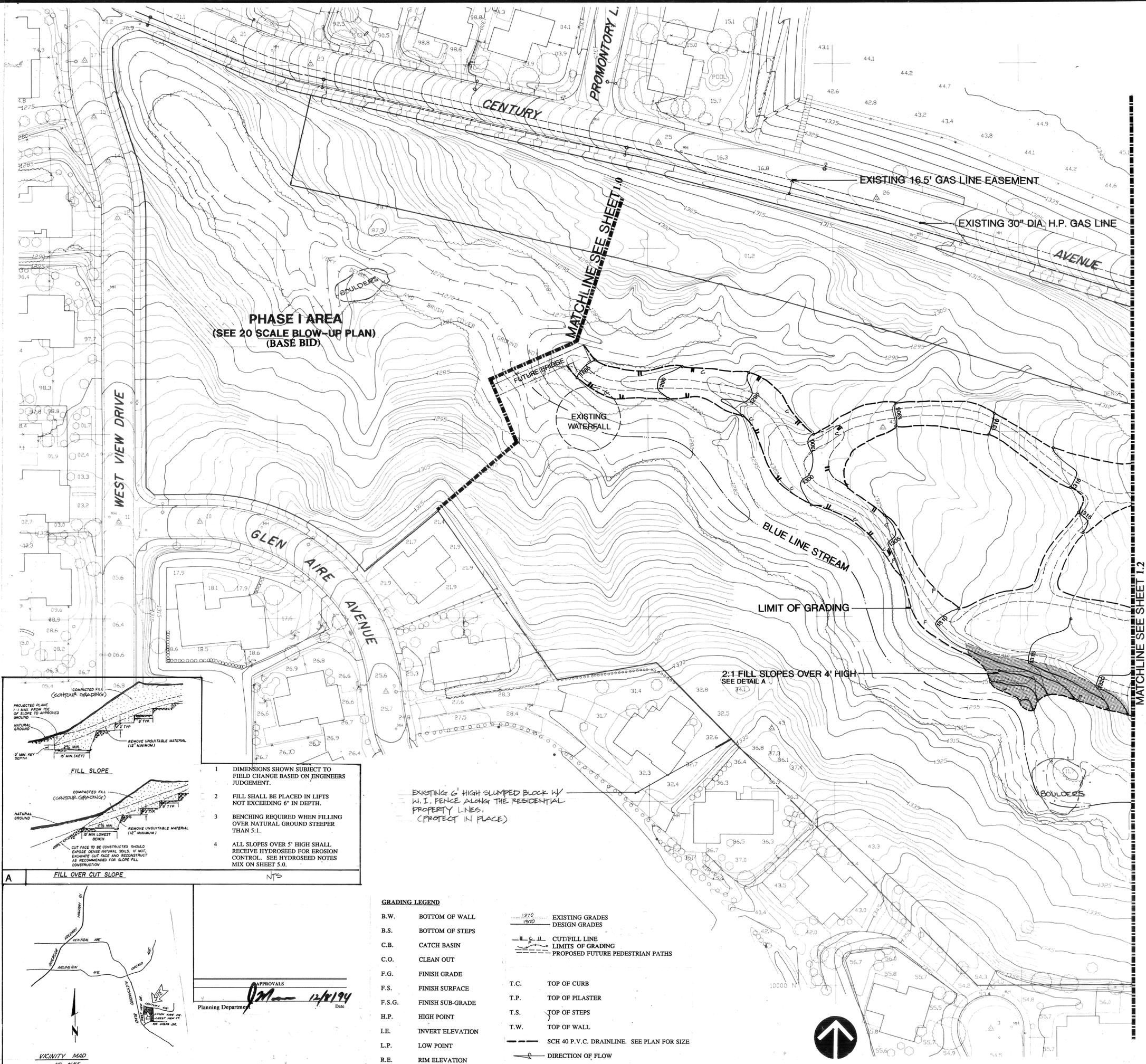
- DIMENSIONS SHOWN SUBJECT TO FIELD CHANGE BASED ON ENGINEERS JUDGEMENT.
- FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6" IN DEPTH.
- BENCHING REQUIRED WHEN FILLING OVER NATURAL GROUND STEEPER THAN 5:1.
- ALL SLOPES OVER 5' HIGH SHALL RECEIVE HYDROSEED FOR EROSION CONTROL. SEE HYDROSEED NOTES MIX ON SHEET 5.0.

GRADING LEGEND

B.W.	BOTTOM OF WALL	---	EXISTING GRADES
B.S.	BOTTOM OF STEPS	---	DESIGN GRADES
C.B.	CATCH BASIN	— — —	CUT/FILL LINE
C.O.	CLEAN OUT	---	LIMITS OF GRADING
F.G.	FINISH GRADE	---	PROPOSED FUTURE PEDESTRIAN PATHS
F.S.	FINISH SURFACE	---	
F.S.G.	FINISH SUB-GRADE	---	
H.P.	HIGH POINT	T.C.	TOP OF CURB
I.E.	INVERT ELEVATION	T.P.	TOP OF PILASTER
L.P.	LOW POINT	T.S.	TOP OF STEPS
R.E.	RIM ELEVATION	T.W.	TOP OF WALL
		---	SCH 40 P.V.C. DRAINLINE. SEE PLAN FOR SIZE
		---	DIRECTION OF FLOW



APPROVALS
 Planning Department *[Signature]* 12/19/94 Date



CLARK & GREEN
 LANDSCAPE ARCHITECTS
 1410 VIA VISTA DRIVE, RIVERSIDE, CA 92522
 (951) 514-1000 FAX (951) 514-1001

CASTLEVIEW PARK
 1410 Via Vista Drive, Riverside, CA 92522
 City of Riverside Park and Recreation Department

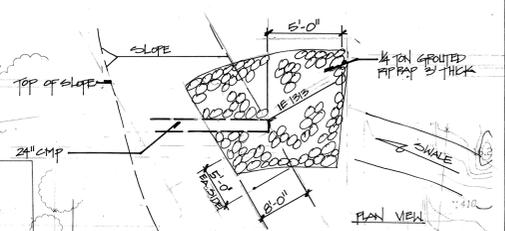
ROUGH GRADING AND DRAINAGE ENTIRE PARK SITE
 (ADDITIVE BID ITEM IID)

PROJECT TITLE	CASTLEVIEW PARK
SHEET TITLE	ROUGH GRADING AND DRAINAGE ENTIRE PARK SITE
DRAWN	[Signature]
CHECKED	[Signature]
DATE	11-15-94
SCALE	1"=40'-0"
PROJECT NO.	91-085
SHEET	11

PLAN NO. P-0924
3 OF 11 SHEETS

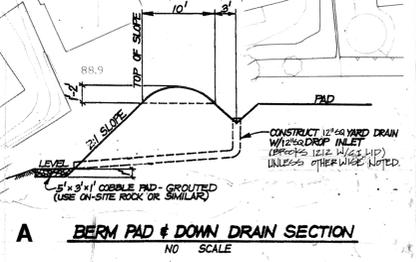
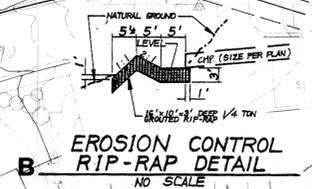
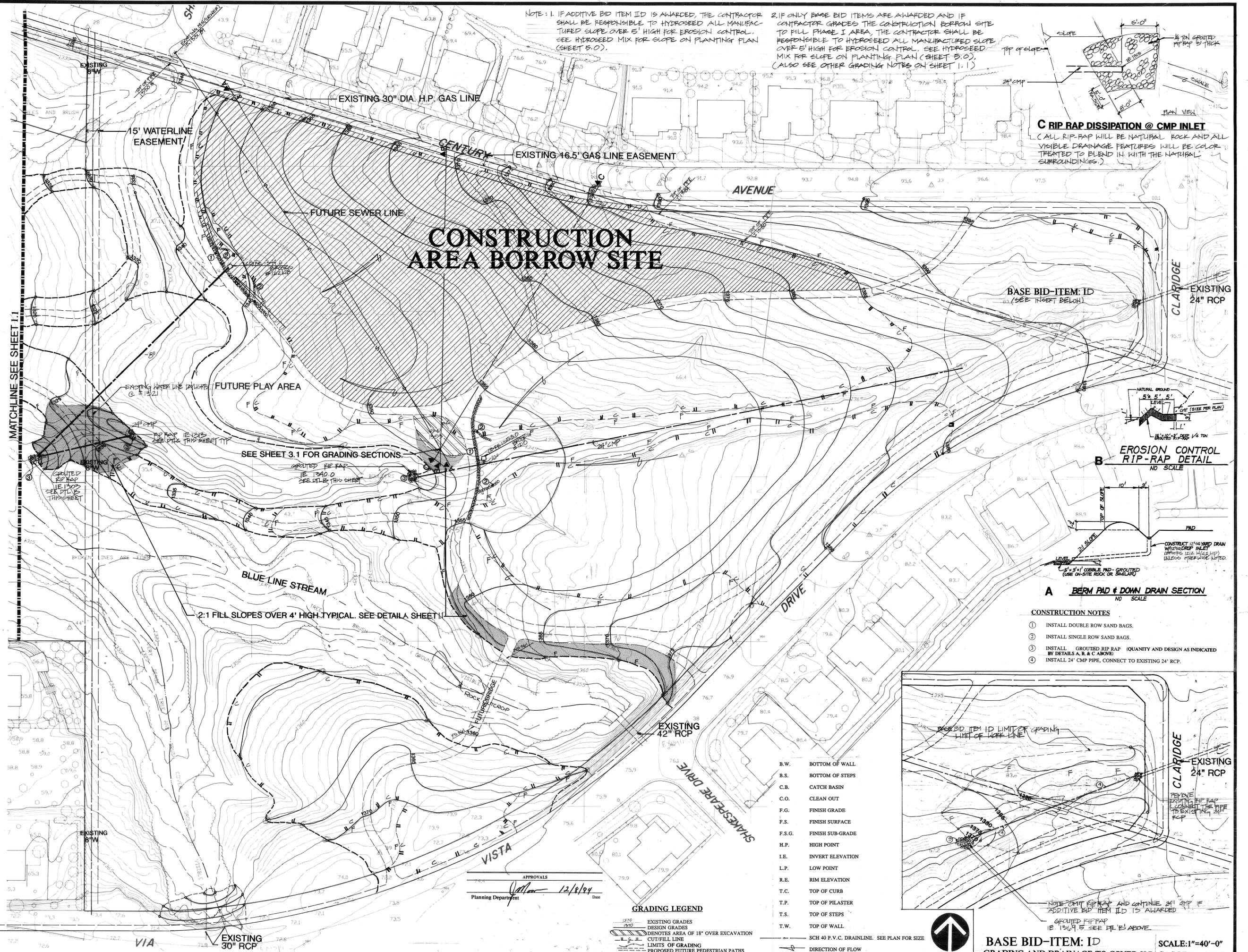
NOTE: 1. IF ADDITIVE BID ITEM IID IS AWARDED, THE CONTRACTOR SHALL BE RESPONSIBLE TO HYDROSEED ALL MANUFACTURED SLOPE OVER 5' HIGH FOR EROSION CONTROL. SEE HYDROSEED MIX FOR SLOPE ON PLANTING PLAN (SHEET 5.0).

2. IF ONLY BASE BID ITEMS ARE AWARDED AND IF CONTRACTOR GRADES THE CONSTRUCTION BORROW SITE TO FILL PHASE I AREA, THE CONTRACTOR SHALL BE RESPONSIBLE TO HYDROSEED ALL MANUFACTURED SLOPE OVER 5' HIGH FOR EROSION CONTROL. SEE HYDROSEED MIX FOR SLOPE ON PLANTING PLAN (SHEET 5.0). (ALSO SEE OTHER GRADING NOTES ON SHEET 1.1)

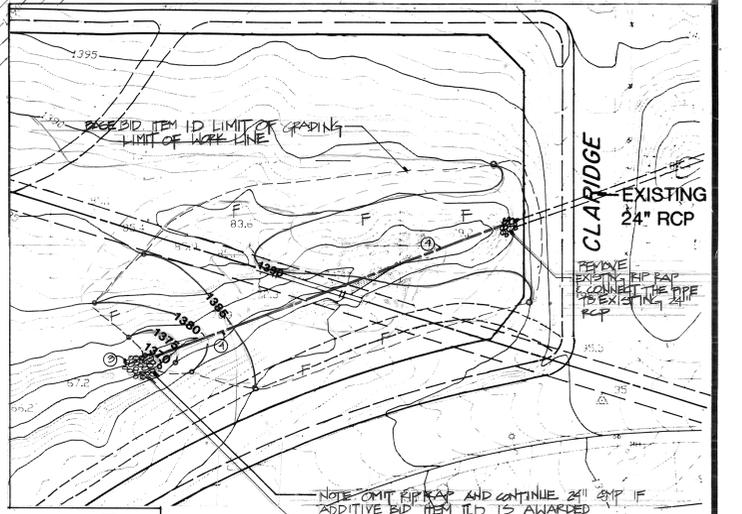


C RIP RAP DISSIPATION @ CMP INLET
 (ALL RIP-RAP WILL BE NATURAL ROCK AND ALL VISIBLE DRAINAGE FEATURES WILL BE COLOR TREATED TO BLEND IN WITH THE NATURAL SURROUNDINGS.)

CONSTRUCTION AREA BORROW SITE



- CONSTRUCTION NOTES**
1. INSTALL DOUBLE ROW SAND BAGS.
 2. INSTALL SINGLE ROW SAND BAGS.
 3. INSTALL GROUDED RIP RAP (QUANTITY AND DESIGN AS INDICATED BY DETAILS A, B, & C ABOVE)
 4. INSTALL 24" CMP PIPE, CONNECT TO EXISTING 24" RCP.



- B.W. BOTTOM OF WALL
- B.S. BOTTOM OF STEPS
- C.B. CATCH BASIN
- C.O. CLEAN OUT
- F.G. FINISH GRADE
- F.S. FINISH SURFACE
- F.S.G. FINISH SUB-GRADE
- H.P. HIGH POINT
- I.E. INVERT ELEVATION
- L.P. LOW POINT
- R.E. RIM ELEVATION
- T.C. TOP OF CURB
- T.P. TOP OF PILASTER
- T.S. TOP OF STEPS
- T.W. TOP OF WALL

- GRADING LEGEND**
- EXISTING GRADES
 - DESIGN GRADES
 - DENOTES AREA OF 18" OVER EXCAVATION
 - CUTFILL LINE
 - LIMITS OF GRADING
 - PROPOSED FUTURE PEDESTRIAN PATHS

APPROVALS
 Planning Department
 Date: 12/8/94



BASE BID-ITEM: ID
 GRADING AND DRAINAGE TO COVER H.P. GAS LINE
 SCALE: 1"=40'-0"

CLARK & GREEN
 A.S.C.E. P.E.'S
 1070 Riverside Street, Suite 100, Costa Mesa, California 92626
 (714) 441-0011 • FAX (714) 441-0109

CASTLEVIEW PARK
 1410 Via Vista Drive, Riverside, CA 92522
 City of Riverside Park and Recreation Department

ROUGH GRADING AND DRAINAGE ENTIRE PARK SITE (ADDITIVE BID-ITEM IID)

DRAWN: 2/14
 CHECKED:
 DATE: 11/3/94
 SCALE: 1"=40'-0"
 JOB NO.: 91-085
 SHEET: 1.2

4 OF 11 SHEETS
 PLAN NO. P-0924

CENTURY

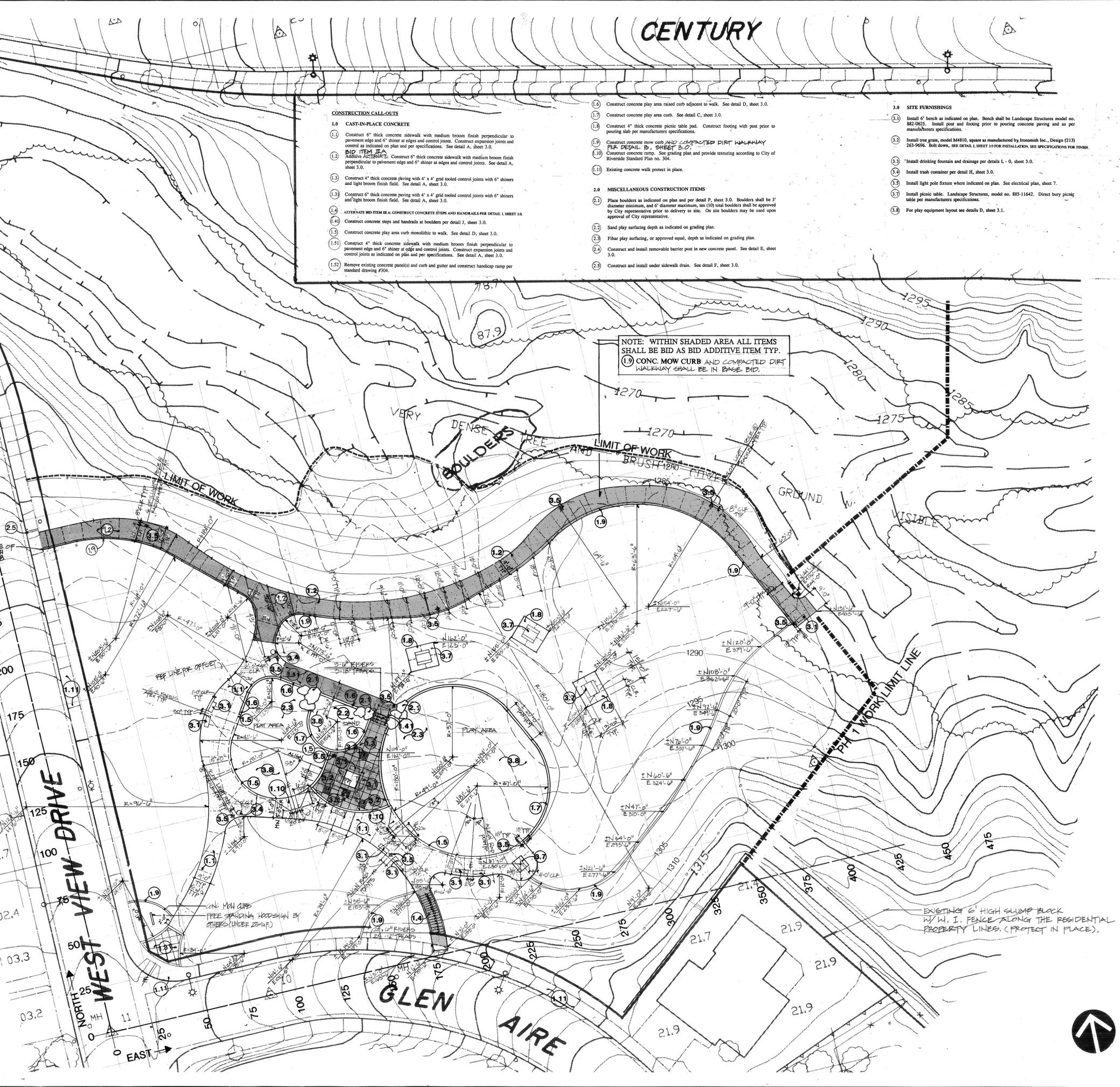
- CONSTRUCTION CALL-OUTS**
- 1.0 CAST-IN-PLACE CONCRETE**
- (1.1) Construct 6" thick concrete sidewalk with medium broom finish perpendicular to pavement edge and 6" shiner at edges and control joints. Construct expansion joints and control as indicated on plan and per specifications. See detail A, sheet 3.0.
 - (1.2) **BID ITEM 2.4**
Additive JOINTS: Construct 6" thick concrete sidewalk with medium broom finish perpendicular to pavement edge and 6" shiner at edges and control joints. See detail A, sheet 3.0.
 - (1.3) Construct 4" thick concrete paving with 4' x 4' grid toled control joints with 6" shiners and light broom finish field. See detail A, sheet 3.0.
 - (1.3.1) Construct 6" thick concrete paving with 4' x 4' grid toled control joints with 6" shiners and light broom finish field. See detail A, sheet 3.0.
 - (1.4) ALTERNATE BID ITEM 2.4: CONSTRUCT CONCRETE STEPS AND HANDRAILS PER DETAIL I, SHEET 3.0.
 - (1.4.1) Construct concrete steps and handrails at boulders per detail I, sheet 3.0.
 - (1.5) Construct concrete play area curb monolithic to walk. See detail D, sheet 3.0.
 - (1.5.1) Construct 4" thick concrete sidewalk with medium broom finish perpendicular to pavement edge and 6" shiner at edges and control joints. Construct expansion joints and control joints as indicated on plan and per specifications. See detail A, sheet 3.0.
 - (1.5.2) Remove existing concrete panel(s) and curb and gutter and construct handicap ramp per standard drawing #304.
- 2.0 MISCELLANEOUS CONSTRUCTION ITEMS**
- (2.1) Place boulders as indicated on plan and per detail P, sheet 3.0. Boulders shall be 3' diameter minimum, and 6' diameter maximum, ten (10) total boulders shall be approved by City representative prior to delivery to site. On site boulders may be used upon approval of City representative.
 - (2.2) Sand play surfacing depth as indicated on grading plan.
 - (2.3) Fibar play surfacing, or approved equal, depth as indicated on grading plan.
 - (2.4) Construct and install removable barrier post in new concrete panel. See detail E, sheet 3.0.
 - (2.5) Construct and install under sidewalk drain. See detail F, sheet 3.0.
- 3.0 SITE FURNISHINGS**
- (3.1) Install 6' bench as indicated on plan. Bench shall be Landscape Structures model no. 882-0625. Install post and footing prior to pouring concrete paving and as per manufacturer specifications.
 - (3.2) Install tree grate, model M4810, square as manufactured by Ironsmith Inc., Design (213) 263-9696. Bolt down, SEE DETAIL I, SHEET 3.0 FOR INSTALLATION. SEE SPECIFICATIONS FOR FINISH.
 - (3.3) Install drinking fountain and drainage per details L - O, sheet 3.0.
 - (3.4) Install trash container per detail H, sheet 3.0.
 - (3.5) Install light pole fixture where indicated on plan. See electrical plan, sheet 7.
 - (3.7) Install picnic table. Landscape Structures, model no. 885-11642. Direct bury picnic table per manufacturer specifications.
 - (3.8) For play equipment layout see details D, sheet 3.1.

NOTE: WITHIN SHADED AREA ALL ITEMS SHALL BE BID AS BID ADDITIVE ITEM TYP.
(1.9) CONC. MOW CURB AND COMPACTED DIRT WALKWAY SHALL BE IN BASE BID.

- CONSTRUCTION LEGEND**
- C.J. CONTROL JOINT
 - C.L. CENTER LINE
 - CLR CLEAR
 - E EAST
 - E.J. EXPANSION JOINT
 - EQ. EQUAL
 - MIN MINIMUM
 - N NORTH
 - N.L.C. NOT IN CONTRACT
 - P.A. PLANTING AREA
 - R RADIUS
 - TYP. TYPICAL
 - W WEST

GENERAL CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE TAKEN FROM CURB FACE, BUILDING FACE OR EDGE OF PAVING, UNLESS OTHERWISE NOTED ON PLAN. THE DIMENSIONS ARE SHOWN FOR APPROXIMATE LINE AND ALL RADII AND CURVES ARE TO HAVE CONTINUOUS AND SMOOTH TRANSITIONS WITHOUT ABRUPT CHANGES OR BENDS.
2. ALL FORMS AND ALIGNMENT OF PAVING ARE SUBJECT TO REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 24 HOURS NOTICE).
3. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL BE HELD LIABLE FOR ALL DAMAGES INCURRED.
4. CONTRACTOR SHALL NOTE AND INSTALL SLEEVE LOCATIONS SHOWN ON IRRIGATION PLANS PRIOR TO POURING CONCRETE.
5. EXPANSION JOINTS SHALL BE PROVIDED WHERE CONCRETE FLATWORK ABUTS WALLS, STAIRS, ANY EXISTING CONCRETE PAVING OR STRUCTURE AND AS INDICATED ON PLAN.
6. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE LATEST UNIFORM BUILDING CODE.
7. THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
8. CONTRACTOR MUST CHECK ALL DIMENSIONS, FRAMING CONDITIONS AND SITE CONDITIONS BEFORE STARTING WORK. CITY'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.
9. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED SIMILAR TO THE DETAILS FOR THE RESPECTIVE MATERIALS.
10. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. ALL BRACING, TEMPORARY SUPPORTS, SHORING, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE LANDSCAPE ARCHITECT DO NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORKSITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
12. BUILDING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FOR ALL ELEMENTS OF THE DESIGN REQUIRED BY LOCAL CODE.

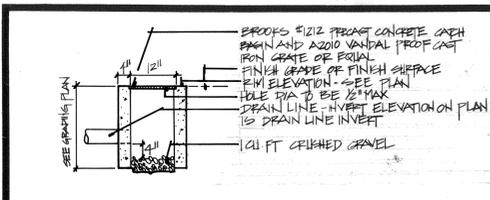


CLARK & GREEN ASSOCIATES, INC.
LANDSCAPE ARCHITECTS
1410 VIA VISTA DRIVE, RIVERSIDE, CA 92522
(951) 514-1100

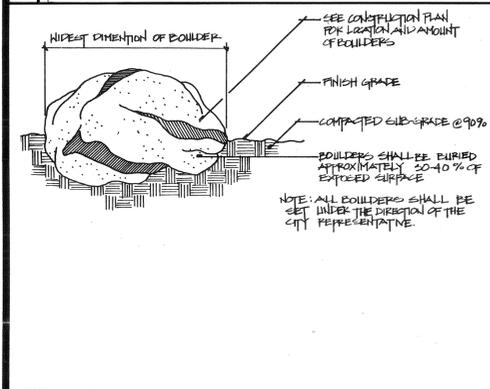
CONSTRUCTION AND LAYOUT PLAN
PHASE I

DRAWN P.M.H.	DATE 11-5-94
CHECKED	SCALE 1"=20'-0"
	JOB NO. 91-085
	SHEET 2.0

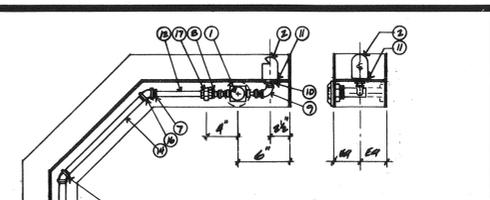
5 OF 11 SHEETS
PLAN NO. P-0924



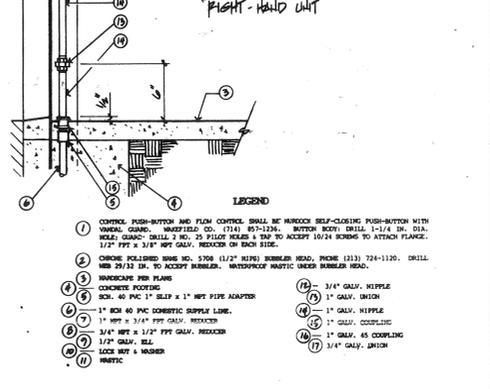
Q CATCH BASIN



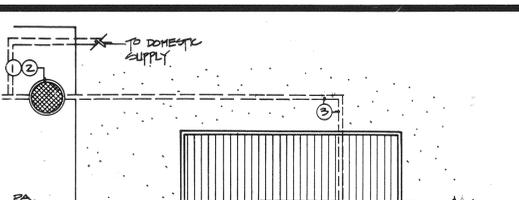
P BOULDER INSTALLATION



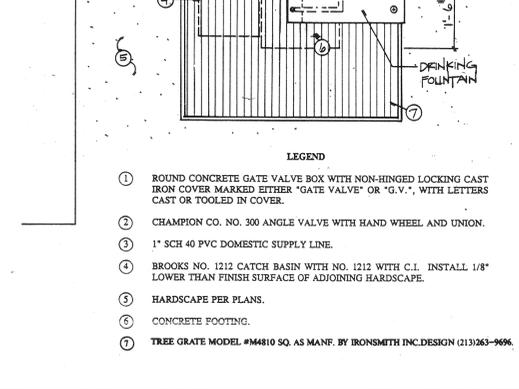
O DRINKING FOUNTAIN PLUMBING



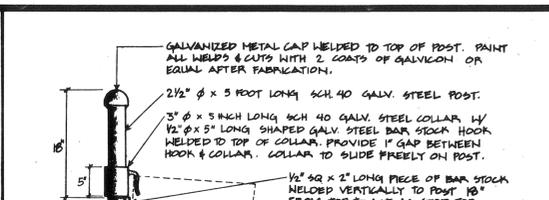
L FOUNTAIN PLAN VIEW



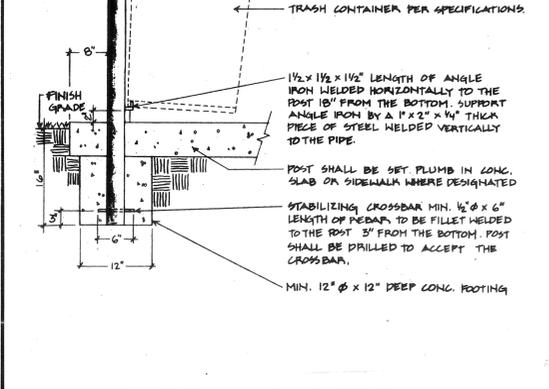
H TRASH CONTAINER POST



D PLAY AREA CURB ADJACENT TO WALK



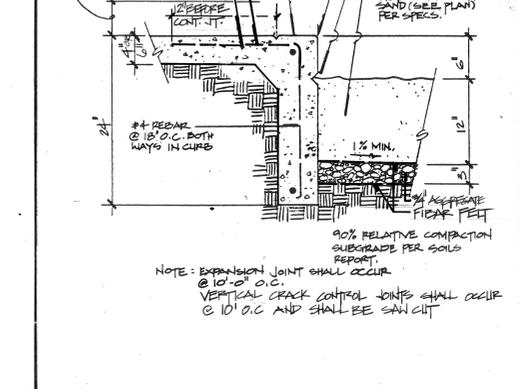
G PLAY AREA SUMP



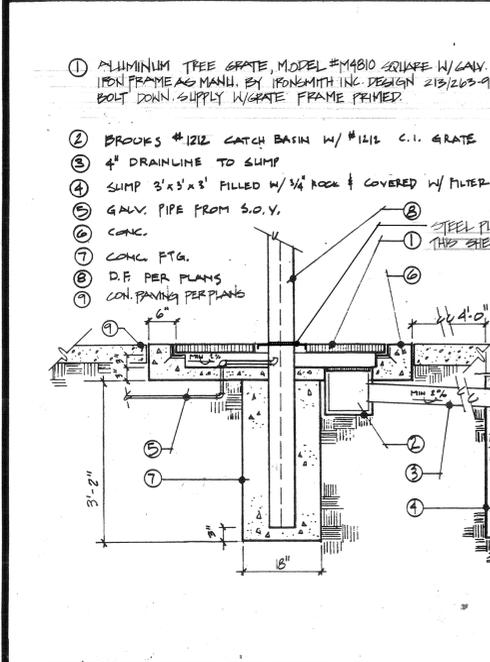
C PLAY AREA CURB



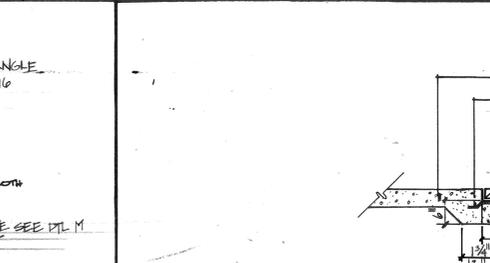
B CONCRETE MOW CURB



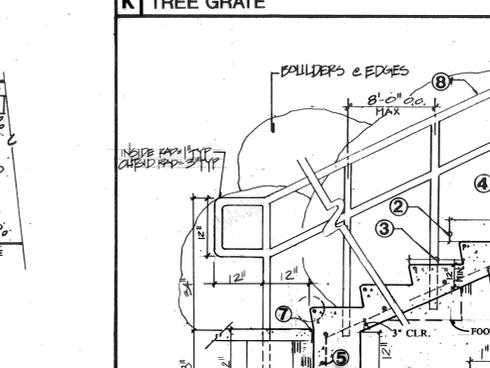
A CONCRETE SIDEWALK



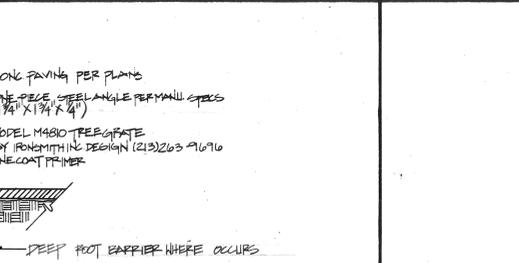
M DRINKING FOUNTAIN FABRICATION



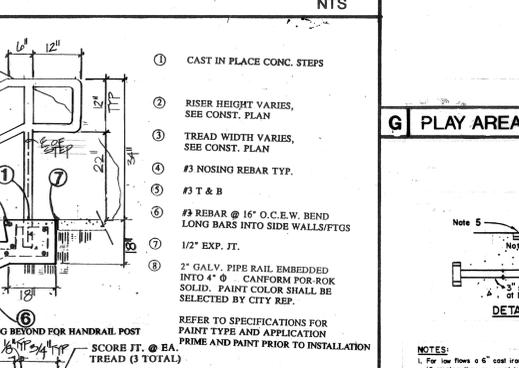
J CONCRETE STEPS AND HANDRAIL AT BOULDERS



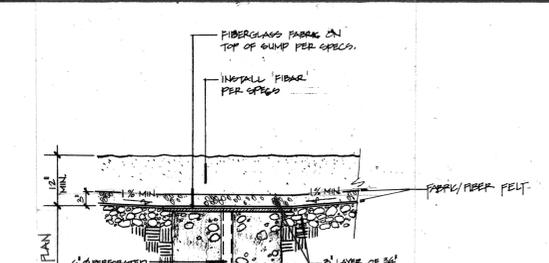
I CONCRETE STEPS AND HANDRAIL



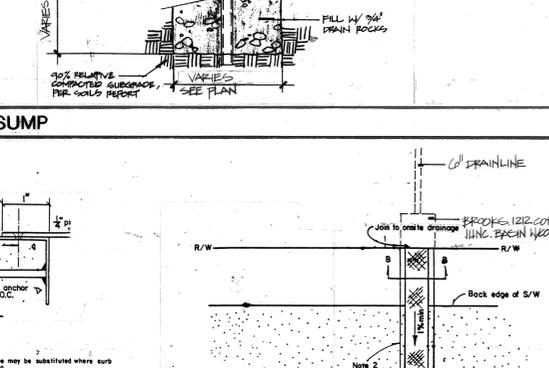
K TREE GRATE



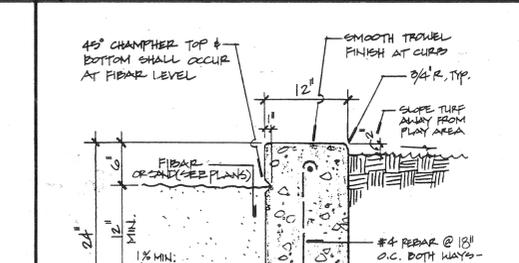
E REMOVABLE POST



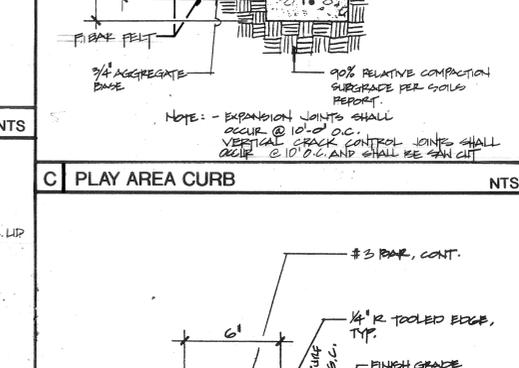
G PLAY AREA SUMP



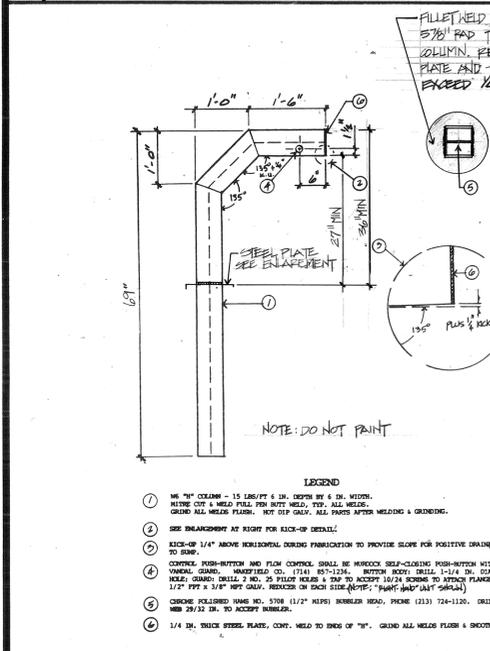
C PLAY AREA CURB



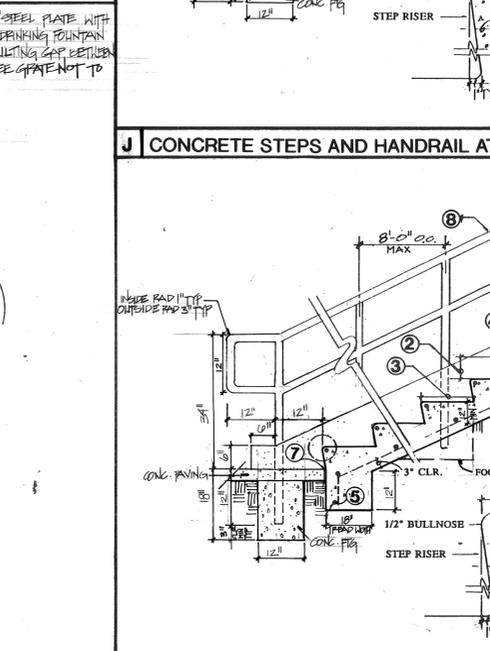
B CONCRETE MOW CURB



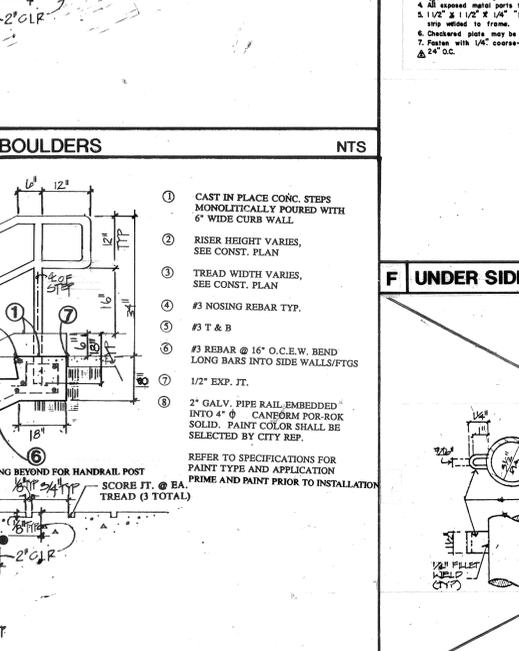
A CONCRETE SIDEWALK



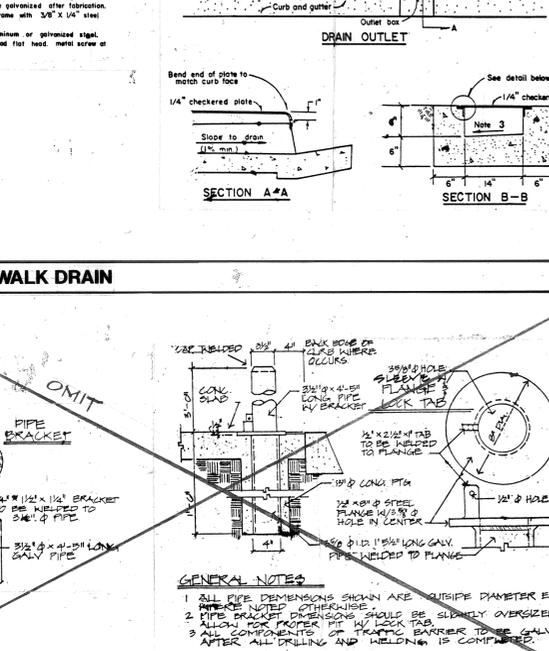
M DRINKING FOUNTAIN FABRICATION



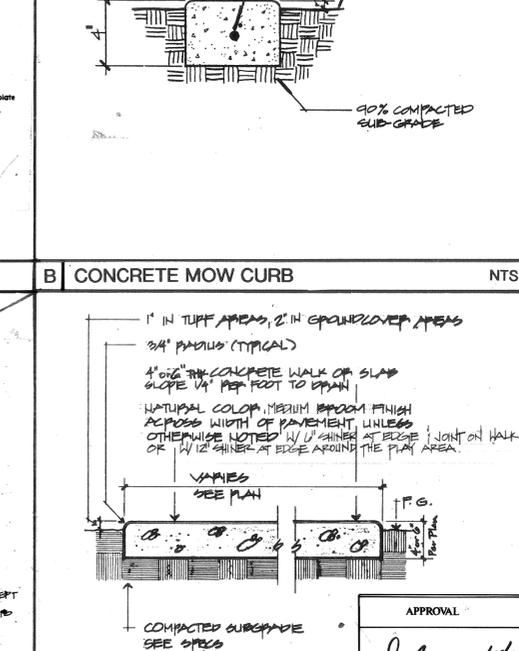
I CONCRETE STEPS AND HANDRAIL



E REMOVABLE POST



G PLAY AREA SUMP



C PLAY AREA CURB

CLARK & GREEN
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

CONSTRUCTION DETAILS

DATE: 11/3/94
SCALE: 3/8" = 1'-0"
JOB NO.: 91-085
SHEET: 30 OF 11



PLAY STRUCTURES:
 Shall consist of play equipment components as manufactured by Landscape Structures, available through Coast Recreation, Inc., 2082 S.E. Bristol, Suite 1, Newport Beach, CA 92660, or City approved equal.

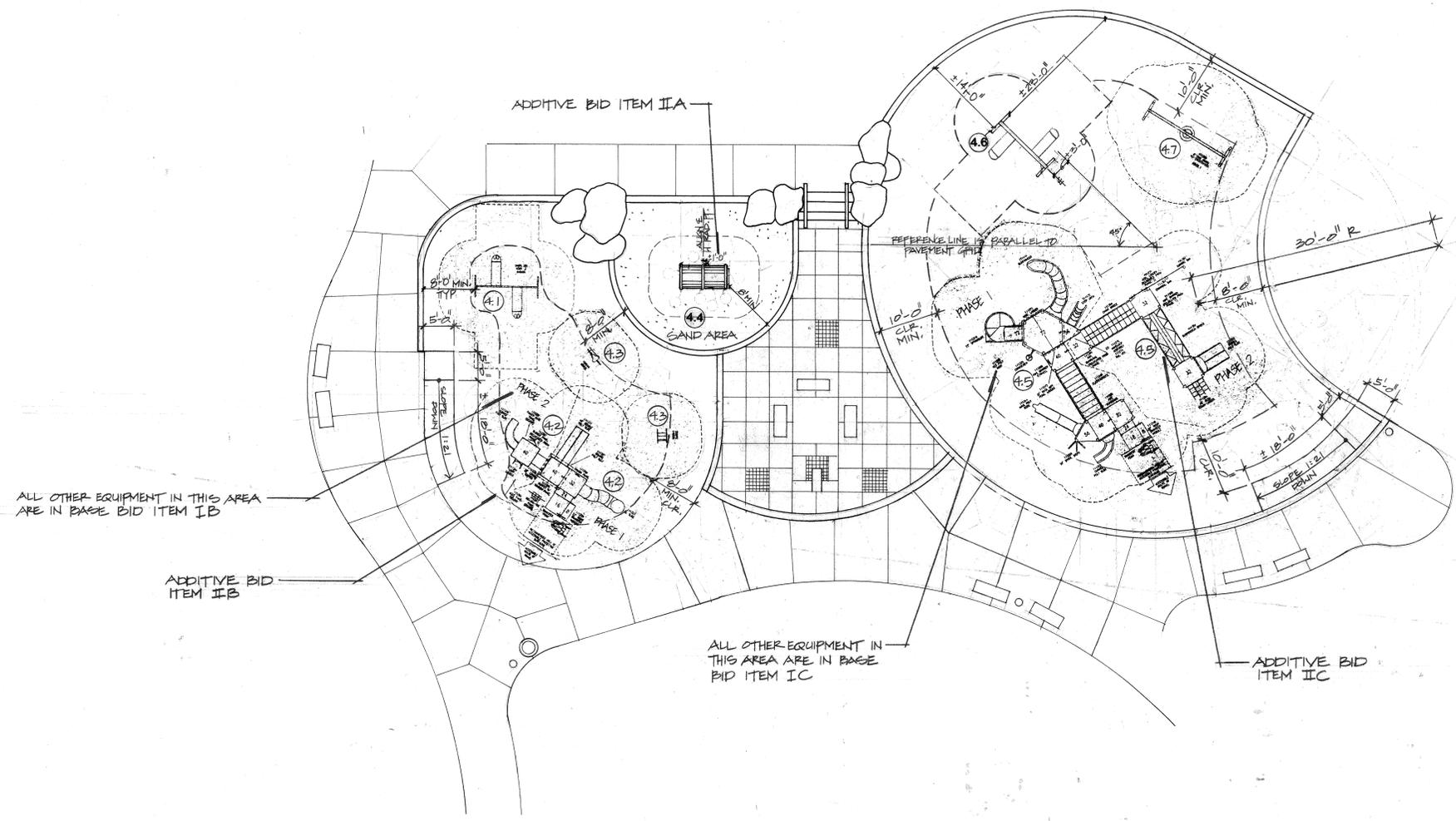
- I. Pre-school Age Playground (West):**
- Base Bid Item IB:**
- No. shown on the Plans: 4.1 Model No. 100048, "2" Arch Swing" with two (2) swings, two (2) full buckets,
- 4.2 "Playshaper" Play Cluster, per Drawing No. 1944582B, Phase 1:
- 111257 Square poly roof
 - 40" Deck
 - 111253 8" Rise kickplate.
 - 111282 Bubble panel
 - 111286 Puppet w/ window panel
 - 111288 Driver panel
 - 111293 Tic-tac-toe panel
 - 111313 40" Double poly slide
 - 111323 El slide
 - 111250 32" Right Transfer Module
- 4.3 "Tuffrider" Spring Toy, two (2) total.
- 100014 Turtle
 - 100016 Horse

- Additive Bid Item IIB:**
- No. shown on the Plans: 4.2 "Playshaper" Play Cluster, per Drawing No. 1944582B, Phase 2:
- Mainstructure and 40" Deck
 - House panel
 - 111289 Finger maze panel
 - 111284 Hole panel
 - 111315 Curved poly slide
 - 111330 28" Crawl tunnel
 - 111364 Loop ladder

- II. School Age Playground (East):**
- Base Bid Item IC:**
- No. shown on the Plans: 4.5 "Playbooster" Play Structure, per Drawing No. 1944582A, Phase 1:
- 111258 Hexagon poly roof
 - 72" Hexagon deck
 - 111253 16" Rise kickplate (K.P.2) (Qty. 1)
 - 111271 Vertical ladder
 - 111319 72" Spyroslide
 - 111414 Slidewinder
 - 111325 Corkscrew
 - 111472 Loop arch
 - 56" Triangular deck (Qty. 2)
 - 40" square deck (Qty. 2)
 - 111253 8" Rise kickplate (K.P.1) (Qty. 2)
 - 111272 32" Deck difference permanent ladder
 - 111268 Pipe barrier w/ wheel
 - 111340 Clatterbridge
 - 111269 Pipe guardrail (Qty. 3)
 - 111248 32" Right transfer module
 - 111314 Wave poly slide
 - 111329 56" Spiral steps
 - 111315 Curved poly slide
- 4.6 Model No. 100050, 5" Arch Belt Swing, with two (2) belt seats.
- 4.7 Model No. 111366, 5" Tire swing w/ crossovers.

- Additive Bid Item IIC:**
- No. shown on the Plans: 4.5 "Playbooster" Play Structure, per Drawing No. 1944582A, Phase 2:
- 111274 Rail Assembly (Qty. 3)
 - 111275 Handloop assembly (Qty. 2)
 - 32" Square deck (Qty. 3)
 - 111469 Inclined horizontal ladder
 - 111357 Turning bar
 - 111357 Chinning bar
 - 111350 Chain bridge
 - 111351 Suspension bridge
 - 111313 Double poly slide
 - 111354 40" Deck chain ladder

- III. Sand Area:**
- Additive Bid Item IIA:**
- No. shown on the Plans: 4.4 "Playbooster" Play Structure, per Drawing No. 1944582C:
- 111256 Arch roof (Qty. 2)
 - 111288 Driver panel
 - 111291 Store panel



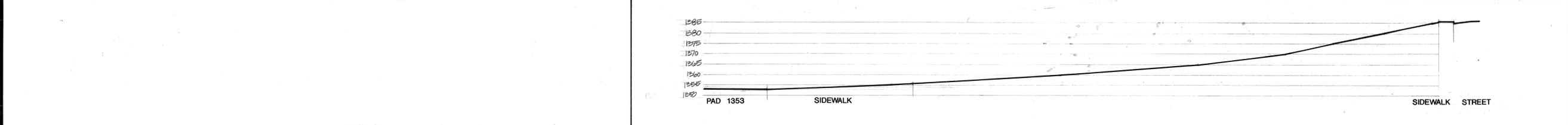
ALL OTHER EQUIPMENT IN THIS AREA ARE IN BASE BID ITEM IB

ADDITIVE BID ITEM IIB

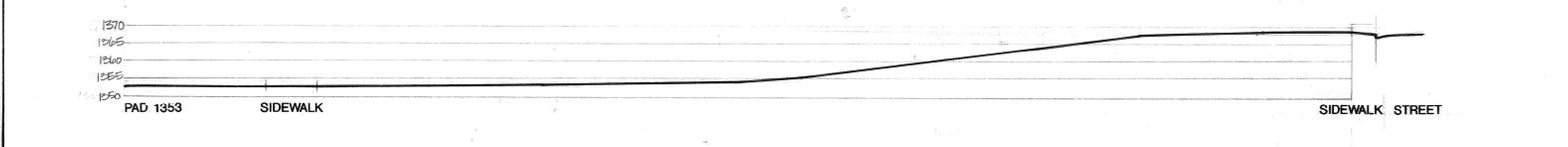
ALL OTHER EQUIPMENT IN THIS AREA ARE IN BASE BID ITEM IC

ADDITIVE BID ITEM IIC

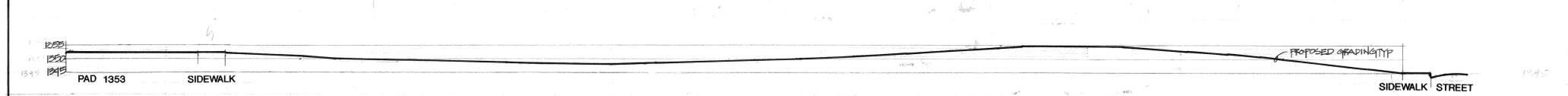
D PLAY EQUIPMENT LAYOUT SCALE: 1"=10'-0"



C SECTION CC SEE SHEET 1.2 FOR LOCATION SCALE: 1"=20'-0" HORIZ. & VERT.



B SECTION BB SEE SHEET 1.2 FOR LOCATION SCALE: 1"=20'-0" HORIZ. & VERT.



A SECTION AA SEE SHEET 1.2 FOR LOCATION SCALE: 1"=20'-0" HORIZ. & VERT.

BY	
REVISIONS	

CASTLEVIEW PARK
 1410 Via Vista Drive, Riverside, CA 92522
 City of Riverside Park and Recreation Department

CONSTRUCTION DETAILS

DRAWN	17/11
CHECKED	
DATE	11/3/94
SCALE	
JOB NO.	91-085
SHEET	3.1
7 OF 11 SHEETS	

CENTURY

WATER CALCULATIONS

AVAIL. STATIC WATER PRESSURE - PER CITY OF RIVERSIDE PUBLIC UTILITIES WATER DEPARTMENT - 117 P.S.I.

PEAK FLOW THROUGH WATER METER - 56 G.P.M. (107 G.P.M. IF PH. IV VALVES RUN SIMULTANEOUSLY WITH PHASE I AS DESIGNED.)

TOTAL AREA SERVED BY WATER METER - 71,600 SQ. FT. (PH. I ONLY)

YEARLY DEMAND IN ACRE FT. - 6.33 (PH. I ONLY)

HYDRAULIC CALCULATIONS
PRESSURE CALCULATIONS FOR VALVE NO. 6 @ 46.0 GPM

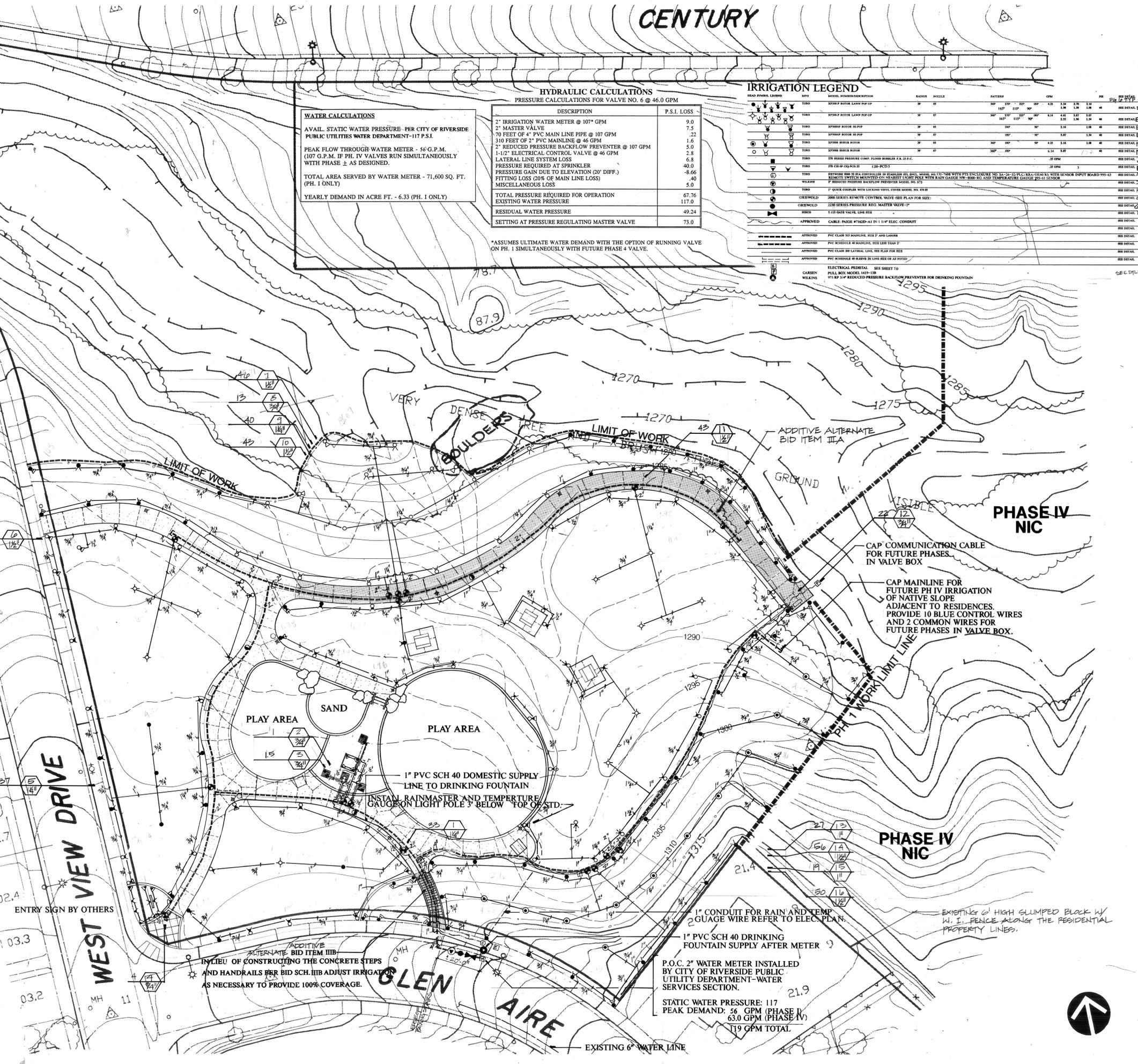
DESCRIPTION	P.S.I. LOSS
2" IRRIGATION WATER METER @ 107 GPM	9.0
2" MASTER VALVE	7.5
70 FEET OF 4" PVC MAIN LINE PIPE @ 107 GPM	22
310 FEET OF 2" PVC MAIN LINE @ 46 GPM	1.6
2" REDUCED PRESSURE BACKFLOW PREVENTER @ 107 GPM	5.0
1-1/2" ELECTRICAL CONTROL VALVE @ 46 GPM	2.8
LATERAL LINE SYSTEM LOSS	6.8
PRESSURE REQUIRED AT SPRINKLER	40.0
PRESSURE GAIN DUE TO ELEVATION (20' DIFF.)	-8.66
FITTING LOSS (20% OF MAIN LINE LOSS)	40
MISCELLANEOUS LOSS	5.0
TOTAL PRESSURE REQUIRED FOR OPERATION	67.76
EXISTING WATER PRESSURE	117.0
RESIDUAL WATER PRESSURE	49.24
SETTING AT PRESSURE REGULATING MASTER VALVE	73.0

IRRIGATION LEGEND

HEAD SYMBOL	MODEL NUMBER/DESCRIPTION	RADIUS	NOZZLE	PATTERN	CPM	SPACING	PH	SEE DETAIL
(Symbol)	TORO 5000 P ROTOR LAWN POP UP	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 10
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 11
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 12
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 13
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 14
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 15
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 16
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 17
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 18
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 19
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 20
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 21
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 22
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 23
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 24
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 25
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 26
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 27
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 28
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 29
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 30
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 31
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 32
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 33
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 34
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 35
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 36
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 37
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 38
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 39
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 40
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 41
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 42
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 43
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 44
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 45
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 46
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 47
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 48
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 49
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 50
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 51
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 52
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 53
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 54
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 55
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 56
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 57
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 58
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 59
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 60
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 61
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 62
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 63
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 64
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 65
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 66
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 67
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 68
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 69
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 70
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 71
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 72
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 73
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 74
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 75
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 76
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 77
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 78
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 79
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 80
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 81
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 82
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 83
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 84
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 85
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 86
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 87
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 88
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 89
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 90
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 91
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 92
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 93
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 94
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 95
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 96
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 97
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 98
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 99
(Symbol)	TORO 5000 P ROTOR 90 PIV	30"	1/2"	180°	4.50	3.00	1.00	SEE DETAIL 100

*ASSUMES ULTIMATE WATER DEMAND WITH THE OPTION OF RUNNING VALVE ON PH. I SIMULTANEOUSLY WITH FUTURE PHASE 4 VALVE.

- GENERAL IRRIGATION NOTES**
- All main and lateral line piping and control wires under paving shall be installed in separate sleeves. Main line and lateral line sleeve size shall be a minimum of twice (2X) the diameter of the pipe to be sleeved. Control wire sleeves shall be of sufficient size for the required number of wires under paving.
 - Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.
 - Install all backflow prevention devices and all piping between the point of connection and the backflow preventer as per local codes.
 - Final location of the backflow preventer and automatic controller shall be approved by City's authorized representative.
 - 120 VAC electrical power source at controller location shall be provided by Contractor, unless noted otherwise. The Contractor shall make the final connection from the electrical source to the controller.
 - All sprinkler heads shall be set perpendicular to finish grade unless otherwise specified.
 - The Irrigation Contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, walls, etc.
 - This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas wherever possible. The Contractor shall locate all valves in shrub areas.
 - It is the responsibility of the Irrigation Contractor to familiarize himself with all grade differences, location of walls, retaining walls, structures and utilities. The Contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other trades for the location and installation of pipe sleeves and laterals through walls, under roadways and paving etc.
 - The sprinkler system design is based on a minimum operating pressure of 73 PSI and a maximum flow demand of 56 GPM. The Irrigation Contractor shall verify water pressures prior to construction. Report any difference between the water pressure indicated on the drawings and the actual pressure reading at the irrigation point of connection to the Owner's authorized representative.
 - Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the Owner's authorized representative. In the event this notification is not performed the Contractor shall assume full responsibility for any revisions necessary.
 - All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
 - The Contractor shall install Valcon 5000 series ADV's (anti-drain valves) on all heads in areas where finish grade exceeds 4:1, where post valve shut-off draining of the irrigation head occurs or as directed by the City's representative.
 - The contractor shall provide reduced radius or plates or spray radius adjusting strainers (per attached schedule) as necessary to reduce or eliminate overspray onto streets, sidewalks or other areas as directed by landscape architect.
 - All remote control valves, gate valves, quick closers control wire and computer cable pull points shall be installed in concrete boxes with locking, non-hinged, cast-iron covers as shown on details and in specifications.



CLARK & GREEN ASSOCIATES
Professional Engineer Seal

CASTLEVIEW PARK
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

IRRIGATION PLAN
PHASE I

8 OF 11 SHEETS
PLAN NO. P-0924

CENTURY

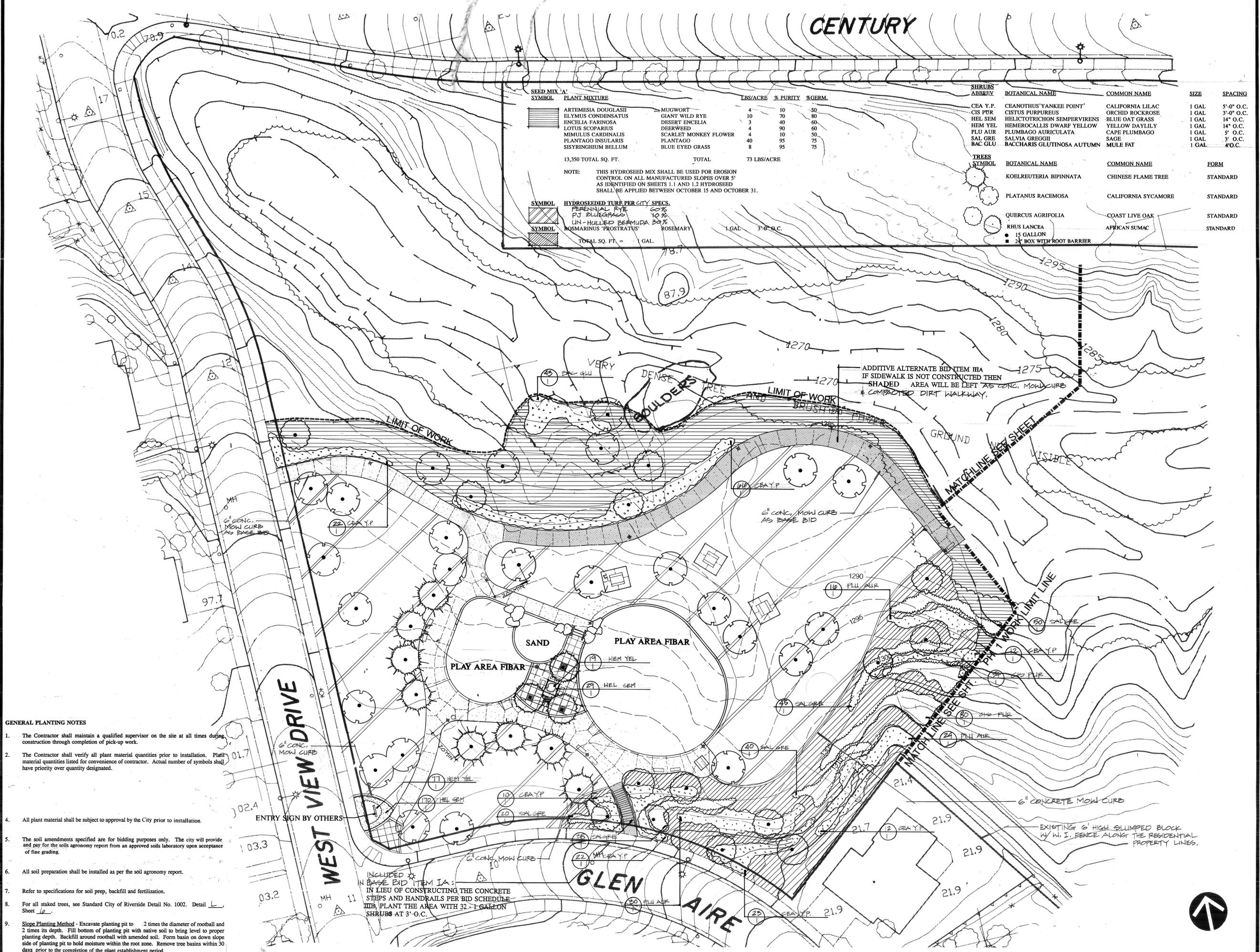


SEED MIX 'A'	PLANT MIXTURE	LBS/ACRE	% PURITY	% GERM.	SHRUBS ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
ARTEMESIA DOUGLASSII	MUGWORT	4	10	50	CEA Y.P.	CEANOTHUS 'YANKEE POINT'	CALIFORNIA LILAC	1 GAL.	5'-0" O.C.
ELYMUS CONDENSATUS	GIANT WILD RYE	10	70	80	CIS PUR	CISTUS PURPUREUS	ORCHID ROCKROSE	1 GAL.	3'-0" O.C.
ENCELIA FARINOSA	DESERT ENCELIA	3	40	60	HEL SEM	HELICTOTRICHON SEMPERVIRENS	YELLOW OAT GRASS	1 GAL.	14" O.C.
LOTUS SCOPARIUS	DEERWEED	4	90	60	HEM YEL	HEMEROCALLIS DWARF YELLOW	YELLOW DAYLILY	1 GAL.	14" O.C.
MIMULUS CARDINALIS	SCARLET MONKEY FLOWER	4	10	50	PLU AUR	PLUMBAGO AURICULATA	CAPE PLUMBAGO	1 GAL.	5" O.C.
PLANTAGO INSULARIS	PLANTAGO	40	95	75	SAL GRE	SALVIA GREGGII	SAGE	1 GAL.	3" O.C.
SISYRINGIUM BELLUM	BLUE EYED GRASS	8	95	75	BAC GLU	BACCHARIS GLUTINOSA AUTUMN	MULE FAT	1 GAL.	4" O.C.
13,350 TOTAL SQ. FT.		TOTAL		73 LBS/ACRE					

TREES SYMBOL	BOTANICAL NAME	COMMON NAME	FORM
(Symbol)	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	STANDARD
(Symbol)	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	STANDARD
(Symbol)	QUERCUS AGRIFOLIA	COAST LIVE OAK	STANDARD
(Symbol)	RHUS LANCEA	AFRICAN SUMAC	STANDARD

NOTE: THIS HYDROSEED MIX SHALL BE USED FOR EROSION CONTROL ON ALL MANUFACTURED SLOPES OVER 5' AS IDENTIFIED ON SHEETS 1.1 AND 1.2. HYDROSEED SHALL BE APPLIED BETWEEN OCTOBER 15 AND OCTOBER 31.

SYMBOL HYDROSEEDED TURF PER CITY SPECS.
 PERENNIAL RYE 60%
 FT. BLUEGRASS 10%
 UN-HULLED BERMUDA 30%
 ROSMARINUS 'PROSTRATUS' ROSEMARY 1 GAL. 3'-0" O.C.
 TOTAL SQ. FT. = 1 GAL.



- GENERAL PLANTING NOTES**
- The Contractor shall maintain a qualified supervisor on the site at all times during construction through completion of pick-up work.
 - The Contractor shall verify all plant material quantities prior to installation. Plant material quantities listed for convenience of contractor. Actual number of symbols shall have priority over quantity designated.
 - All plant material shall be subject to approval by the City prior to installation.
 - The soil amendments specified are for bidding purposes only. The city will provide and pay for the soils agronomy report from an approved soils laboratory upon acceptance of fine grading.
 - All soil preparation shall be installed as per the soil agronomy report.
 - Refer to specifications for soil prep, backfill and fertilization.
 - For all staked trees, see Standard City of Riverside Detail No. 1002. Detail L, Sheet 10.
 - Slope Planting Method** - Excavate planting pit to 2 times the diameter of rootball and 2 times its depth. Fill bottom of planting pit with native soil to bring level to proper planting depth. Backfill around rootball with amended soil. Form basin on down slope side of planting pit to hold moisture within the root zone. Remove tree basins within 30 days prior to the completion of the plant establishment period.

CLARK & GREEN
 ASSOCIATES
 3070 BRIDGEWAY, SUITE 100, COSTA MESA, CALIFORNIA 92626
 Lic # CA 2105, 2311, 27, 19864
 714.440.1400
 FAX 714.440.1401
 WWW.CLARKANDGREEN.COM

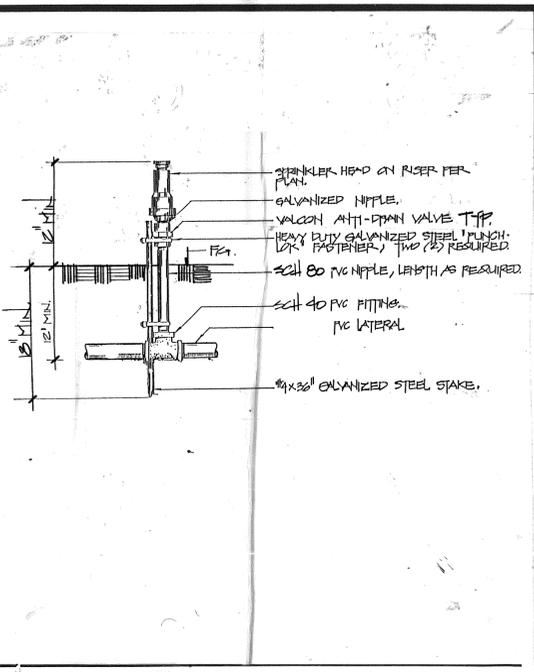
REVISIONS	DATE	BY	DESCRIPTION

CASTLEVIEW PARK
 1410 Via Vista Drive, Riverside, CA 92522
 City of Riverside Park and Recreation Department

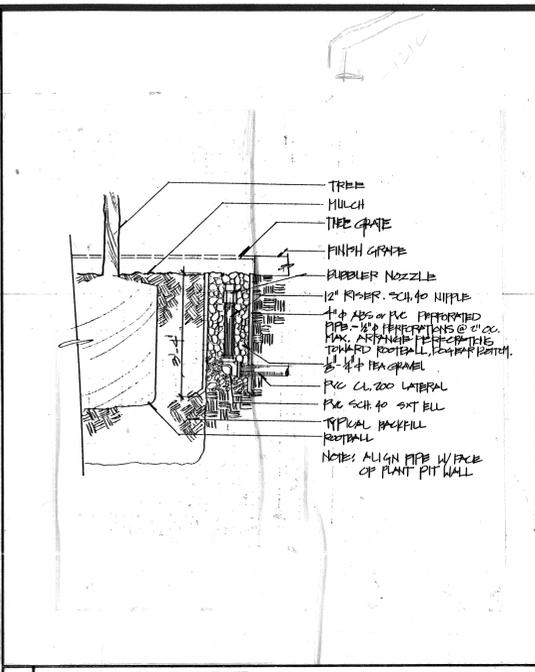
PLANTING PLAN
 PHASE I

DRAWN	PMH
CHECKED	
DATE	11/3/94
SCALE	1"=20'-0"
JOB NO.	91-085
SHEET	50
9 OF 11	SHEETS

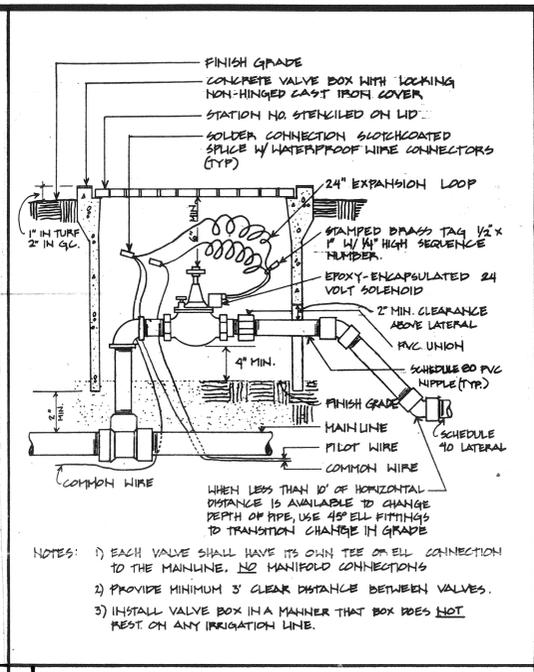
PLAN NO. P-0924



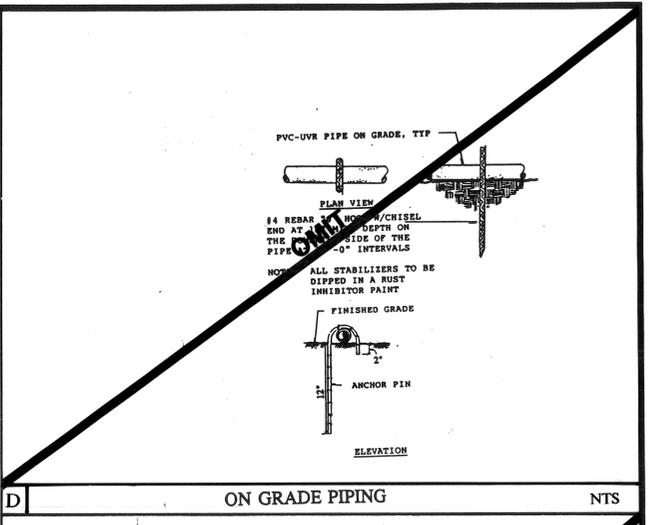
M SPRAY HEAD NTS



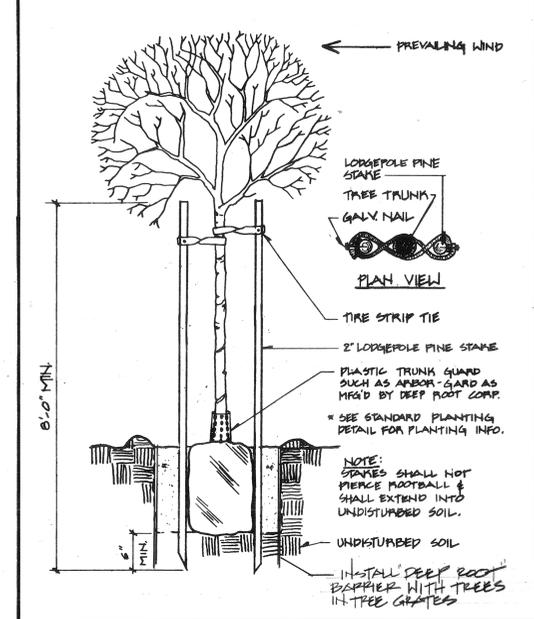
J BUBBLER SLEEVE NTS



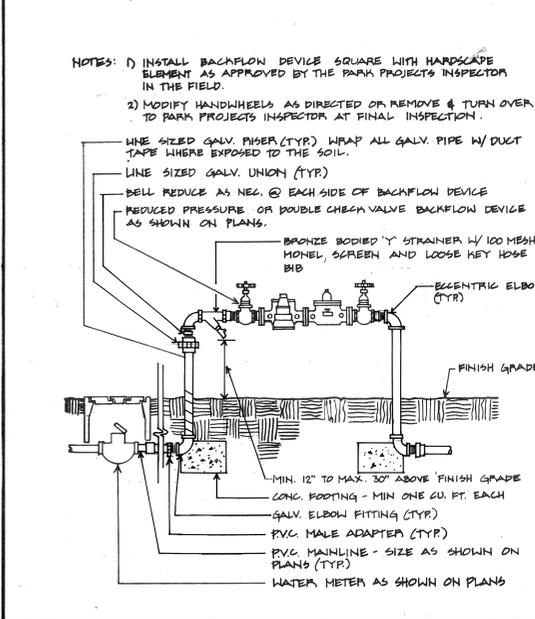
G AUTOMATIC VALVE NTS



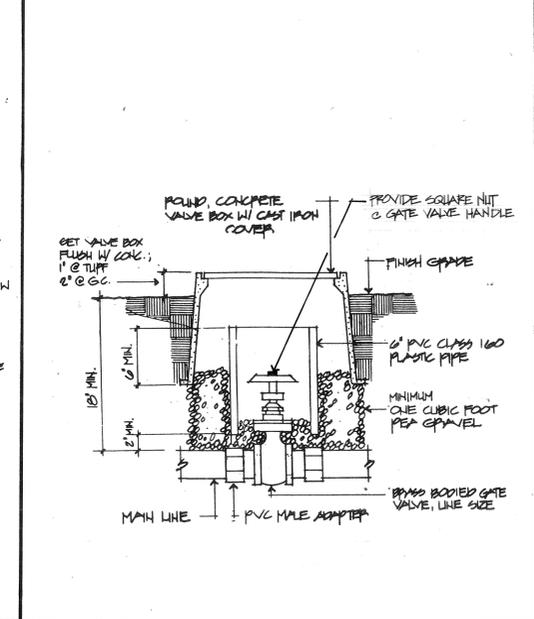
D ON GRADE PIPING NTS



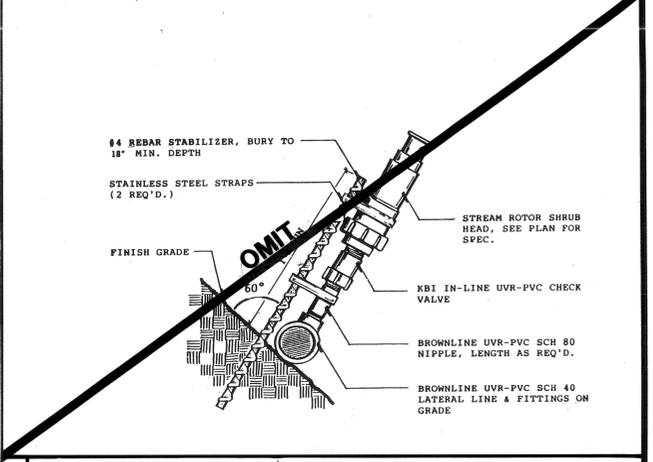
L DOUBLE STAKED TREES NTS



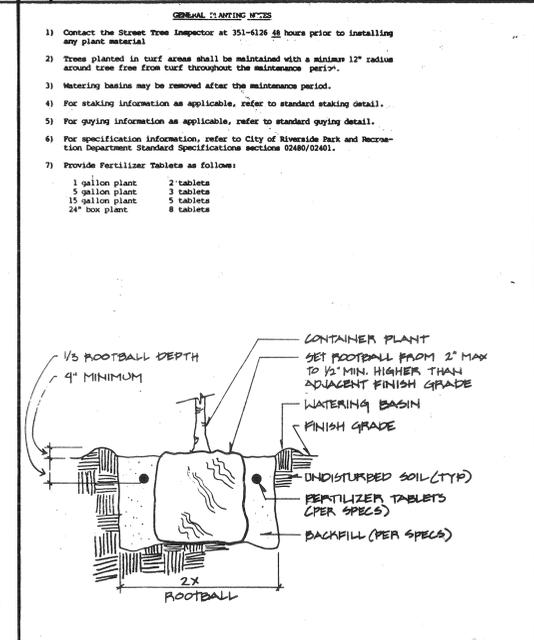
I REDUCED PRES/DOUBLE CHECK VALVE BACKFLOW NTS



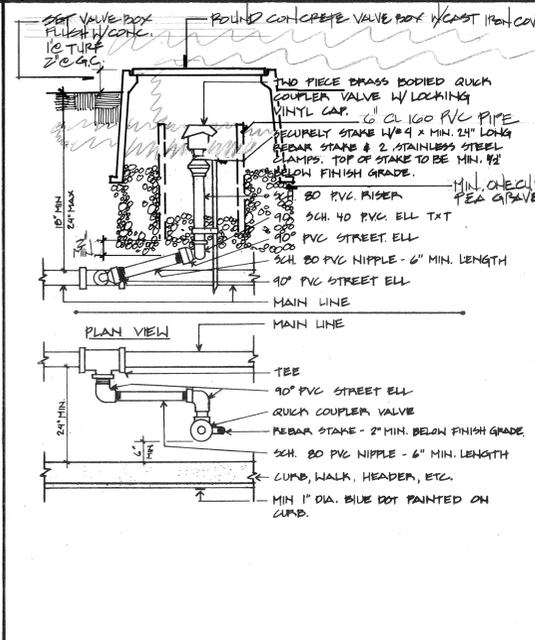
F GATE VALVE NTS



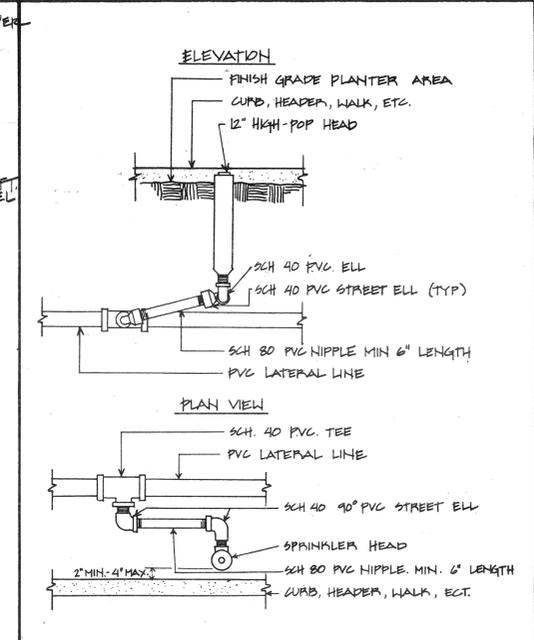
C STREAM ROTOR ON A RISER NTS



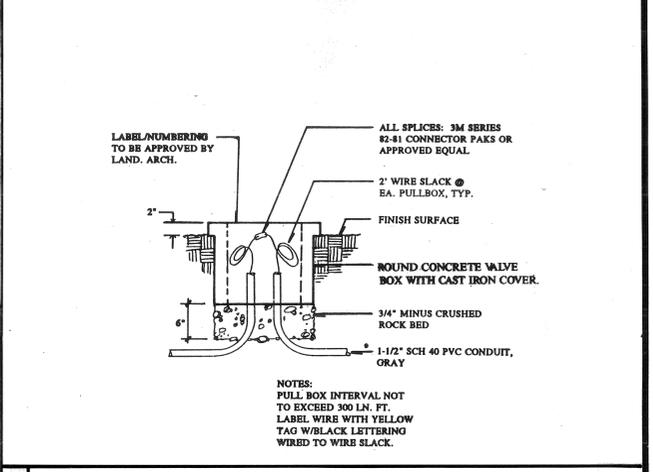
K PLANTING NTS



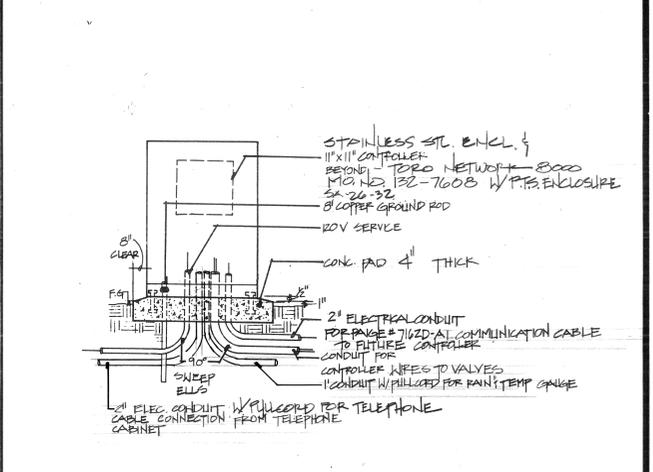
H QUICK COUPLER NTS



E SPRAY HEAD POP-UP NTS



B PULL BOX DETAIL NTS



A STRONG BOX ENCLOSURE NTS

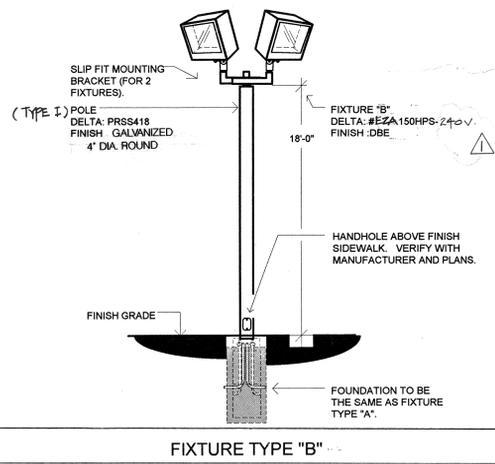
CASTLEVIEW PARK
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

**CONSTRUCTION, IRRIGATION,
& PLANTING DETAILS**

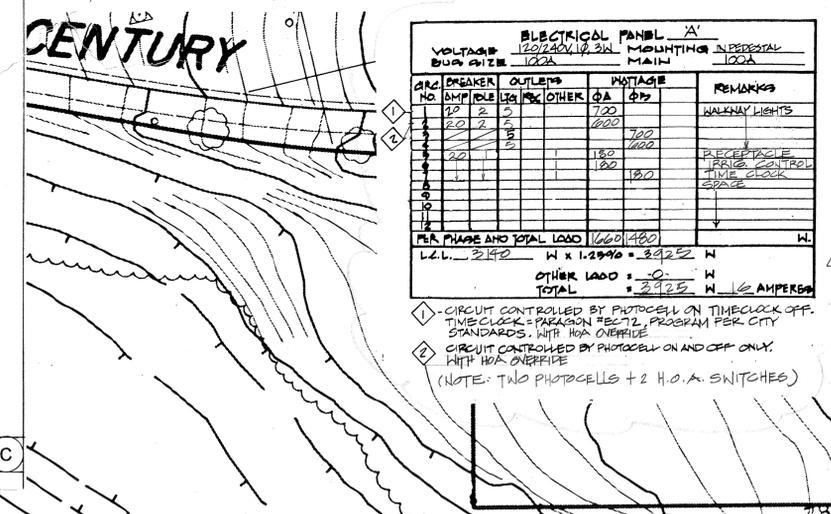
6.0

10 OF 11 SHEETS

PLAN NO. P-0924



FIXTURE TYPE "B"



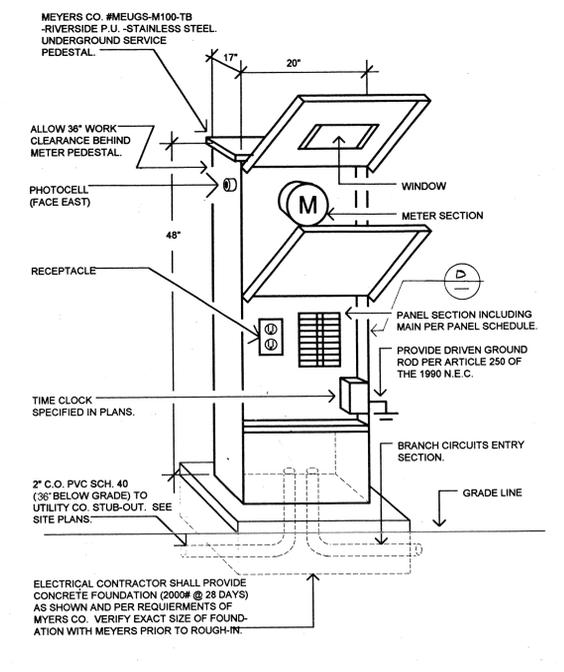
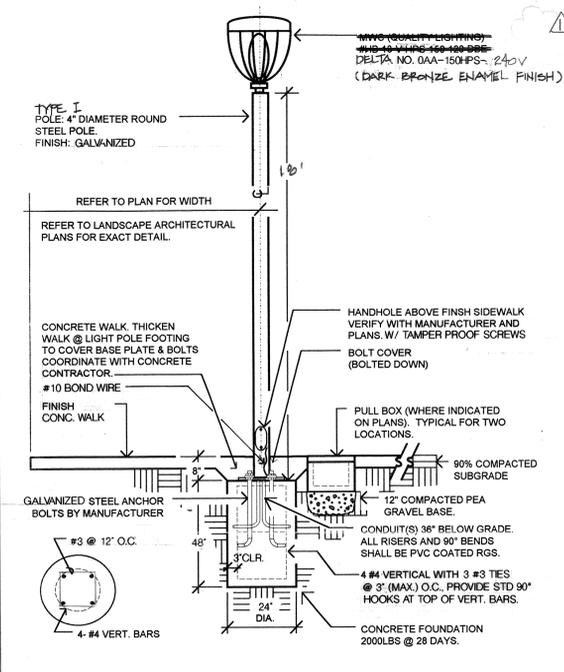
FIXTURE TYPE "A"

ELECTRICAL PANEL "A"

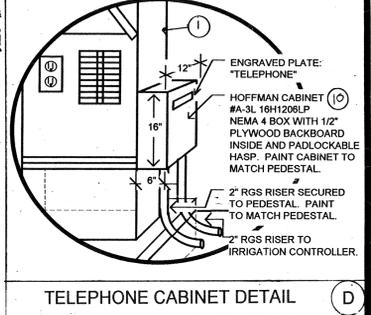
NO.	DETAILED	LOAD	TYPE	OTHER	PHASE	AMP	REMARKS
1		100				100	WALKWAY LIGHTS
2		100				100	RECEPTACLE
3		100				100	TIME CLOCK
4		100				100	SPRINKLER
5		100				100	SPRINKLER
6		100				100	SPRINKLER
7		100				100	SPRINKLER
8		100				100	SPRINKLER
9		100				100	SPRINKLER
10		100				100	SPRINKLER
11		100				100	SPRINKLER
12		100				100	SPRINKLER
13		100				100	SPRINKLER
14		100				100	SPRINKLER
15		100				100	SPRINKLER
16		100				100	SPRINKLER
17		100				100	SPRINKLER
18		100				100	SPRINKLER
19		100				100	SPRINKLER
20		100				100	SPRINKLER
21		100				100	SPRINKLER
22		100				100	SPRINKLER
23		100				100	SPRINKLER
24		100				100	SPRINKLER
25		100				100	SPRINKLER
26		100				100	SPRINKLER
27		100				100	SPRINKLER
28		100				100	SPRINKLER
29		100				100	SPRINKLER
30		100				100	SPRINKLER
31		100				100	SPRINKLER
32		100				100	SPRINKLER
33		100				100	SPRINKLER
34		100				100	SPRINKLER
35		100				100	SPRINKLER
36		100				100	SPRINKLER
37		100				100	SPRINKLER
38		100				100	SPRINKLER
39		100				100	SPRINKLER
40		100				100	SPRINKLER
41		100				100	SPRINKLER
42		100				100	SPRINKLER
43		100				100	SPRINKLER
44		100				100	SPRINKLER
45		100				100	SPRINKLER
46		100				100	SPRINKLER
47		100				100	SPRINKLER
48		100				100	SPRINKLER
49		100				100	SPRINKLER
50		100				100	SPRINKLER
51		100				100	SPRINKLER
52		100				100	SPRINKLER
53		100				100	SPRINKLER
54		100				100	SPRINKLER
55		100				100	SPRINKLER
56		100				100	SPRINKLER
57		100				100	SPRINKLER
58		100				100	SPRINKLER
59		100				100	SPRINKLER
60		100				100	SPRINKLER
61		100				100	SPRINKLER
62		100				100	SPRINKLER
63		100				100	SPRINKLER
64		100				100	SPRINKLER
65		100				100	SPRINKLER
66		100				100	SPRINKLER
67		100				100	SPRINKLER
68		100				100	SPRINKLER
69		100				100	SPRINKLER
70		100				100	SPRINKLER
71		100				100	SPRINKLER
72		100				100	SPRINKLER
73		100				100	SPRINKLER
74		100				100	SPRINKLER
75		100				100	SPRINKLER
76		100				100	SPRINKLER
77		100				100	SPRINKLER
78		100				100	SPRINKLER
79		100				100	SPRINKLER
80		100				100	SPRINKLER
81		100				100	SPRINKLER
82		100				100	SPRINKLER
83		100				100	SPRINKLER
84		100				100	SPRINKLER
85		100				100	SPRINKLER
86		100				100	SPRINKLER
87		100				100	SPRINKLER
88		100				100	SPRINKLER
89		100				100	SPRINKLER
90		100				100	SPRINKLER
91		100				100	SPRINKLER
92		100				100	SPRINKLER
93		100				100	SPRINKLER
94		100				100	SPRINKLER
95		100				100	SPRINKLER
96		100				100	SPRINKLER
97		100				100	SPRINKLER
98		100				100	SPRINKLER
99		100				100	SPRINKLER
100		100				100	SPRINKLER

PER PHASE AND TOTAL LOAD: 1000/1200 W
L.L.L. 3140 W x 1.2590 = 3922 W
OTHER LOAD = 0 W
TOTAL = 3922 W @ 120V

NOTE: TWO PHOTOCELLS + 2 H.O.A. SWITCHES



METER PEDESTAL DETAIL



TELEPHONE CABINET DETAIL

PLAN NOTES:

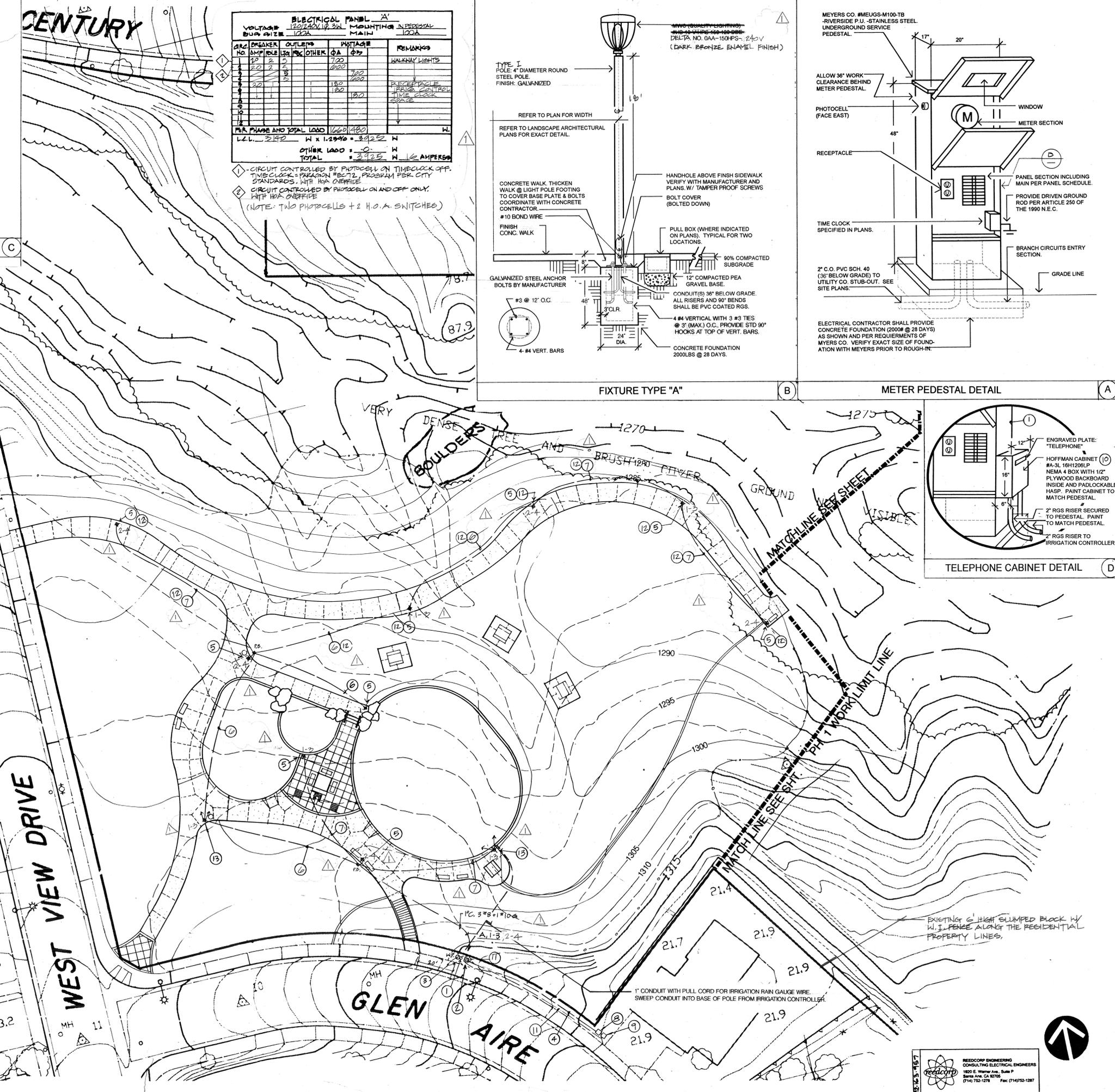
- IRRIGATION CONTROLLER.
- METER PEDESTAL AND PANEL "A", 120/240V, 10, 3W - 100A
- HOOK-UP TO IRRIGATION CONTROLLER.
- 2"C.O.
- FIXTURE "A" (SEE DETAIL "A").
- 3/4"C. 4#10 x #10 G.
- 3/4"C. 2#10 x #10 G.
- EXISTING POWER COMPANY PULL BOX. VERIFY EXACT LOCATION.
- EXISTING TELEPHONE PULLBOX. VERIFY EXACT LOCATION.
- TELEPHONE CABINET.
- 2"C.O.
- ADDITIVE ALTERNATE BID ITEM III.A.
- FIXTURE "B". SEE DETAIL "C".

SYMBOL LIST

- POLE FIXTURE. SEE DETAIL "A".
- PULL BOX.
- WEATHER PROOF J-BOX.
- REFER TO PLAN NOTE 1.
- UNDERGROUND CONDUIT RUN 3/4"C. 2#10 OR AS NOTED (6" BELOW GRADE). ALL RISERS AND 90° BENDS TO BE PVC COATED RGS.
- W.P. WEATHER PROOF.

POWER AND TELEPHONE UTILITY GENERAL NOTES

- UTILITY POINTS OF SERVICE AND WORK / MATERIAL SHOWN ARE BASED ON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASUREMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
- UTILITY CO. CONTACTS:
POWER: CITY OF RIVERSIDE, 3900 MAIN STREET, FOURTH FLOOR, RIVERSIDE, CA, 92504, CHARLIE BLUMEL 714/782-5281
TELEPHONE: PACIFIC BELL, 3073 ADAMS, ROOM 216, RIVERSIDE, CA, 92504, PENNY HALLGREN 714/359-2518



CLARK & GREEN ASSOCIATES
1000 E. WINDY AVENUE, SUITE P
RIVERSIDE, CA 92507
(714) 752-1278

CASTLEVIEW PARK
1410 Via Vista Drive, Riverside, CA 92522
City of Riverside Park and Recreation Department

ELECTRICAL SITE PLAN AND MISCELLANEOUS NOTES AND DETAILS

DRAWN ME
CHECKED RZ
DATE 11/3/94
SCALE 1"=20'-0"
JOB NO. 91-085
SHEET 70
11 OF 11 SHEETS

PLAN NO. P-0924