RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE — INCORPORATED 1883

PARK AND RECREATION DEPARTMENT

FAIRMOUNT LAKES REHABILITATION

LWCF PROJECT NO. 06-01012

CONSTRUCTION LEGEND

CENTER LINE	——℄——	TOP OF SLOPE	
RIGHT-OF-WAY LINE	——R/W——	TOE OF SLOPE	
SUBDIVISION LOT LINE	——℄——	DIRECTION OF FLOW	

SPECIFIC CONSTRUCTION NOTES

⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET BELOW. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

⬢ 402 M — MODIFIED STANDARD DRAWING, MODIFICATIONS AS SHOWN ON PLANS.

⬢ R ELM — REMOVE SPECIFIED TREE INCLUDING STUMP.

⬢ T L — TRANSPLANT SPECIFIED TREE: L = LARGE PALM TALLER THAN 10'; S = SMALL PALM SHORTER THAN OR = TO 10'.

⬢ P L — PLANT SPECIFIED TRANSPLANT IN AREA INDICATED. EXACT LOCATION TO BE MARKED IN THE FIELD BY ENGINEER.

TRENCH RESURFACING SHALL BE .21' A.C. OVER .33' A.B., OR 35' FULL DEPTH A.C. OVER NATIVE.

⬢ D73 61 / D73 66 — STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS, DATED JANUARY, 1981.

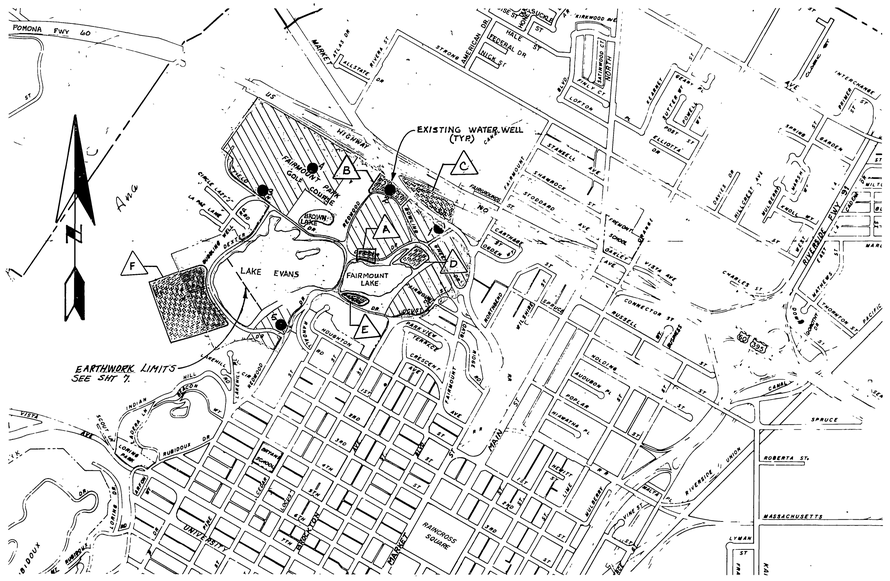
⬢ B — STAGING AREAS AVAILABLE FOR CONTRACTOR'S USE. SEE SECTION 7-1 OF SPECIAL PROVISIONS.

AREAS NOT ACCESSIBLE FOR CONTRACTOR'S USE. SEE SECTION 7-1 OF SPECIAL PROVISIONS.

——X—— TEMPORARY CONSTRUCTION FENCING.

GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS (?) INDICATES THAT COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
2. CONSTRUCTION NOTES & LEGENDS ON THIS TITLE PAGE ARE APPLICABLE ONLY TO PLAN D-431, SHTS. 1-11.
3. ALL ELEVATIONS SHOWN THE PLANS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR.
4. THE CONSTRUCTION OF THE MAINLINE STORM DRAIN & LATERALS WILL REQUIRE PAVEMENT STRIPING AND MARKING. THE ESTIMATED QTY'S ARE NOTED IN THE SPECIAL PROVISIONS.



PROJECT LOCATION PLAN

0 KM. 0.5 KM. 1 KM. 1.5 KM.

0' 500' 1000' 2000' 3000' 4000' 5000' 6000'

SCALE 1" = 1000'

WATER WELL DATA

REF NO	WELL NAME	WATER ELEV.	DATE TAKEN
1	MORI 2	785.32	5-18-83
2	FAIRMOUNT #1	786.90	5-20-83
3	FAIRMOUNT #2	783.70	5-19-83
4	FAIRMOUNT GOLF COURSE	—	—
5	ROSE GARDEN	—	—

NOTE: SEE SHT 16 FOR ADDITIONAL WATER LEVEL DATA FROM THE 81 EXISTING OBSERVATION WELLS.

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER	——8"S——	TELEPHONE CONDUIT	——T——T——
WATER LINE	——6"W——	ELECTRICAL CONDUIT	——E——E——
STORM DRAIN	——24"S.D.——	STREET LIGHTING	——SL——SL——
GAS LINE	——3"G——	TRAFFIC SIGNAL	——SIG——SIG——
IRRIGATION LINE	——20" IRR.——	FIRE ALARM	——F——F——
ABANDONED UTILITY	---6"G(ABAN'D.)---		

EXISTING TOPOGRAPHY:

- BLOCK WALL
- BOARD FENCE
- WIRE FENCE
- CHAIN LINK FENCE
- TOP OF SLOPE
- TOE OF SLOPE
- DIRECTION OF FLOW

- SANITARY SEWER M.H
- SANITARY SEWER CLEANOUT
- STORM DRAIN M.H.
- IRRIGATION WEIR
- WATER M.H.
- GAS M.H
- ELECTRIC M.H
- TELEPHONE M.H OR VAULT
- WATER METER
- FIRE HYDRANT
- SPRINKLER HEAD
- VALVE
- AIR VALVE
- AIR VENT
- POLE & GUY ANCHOR
- ELECTRIC POLE
- TELEPHONE POLE
- JOINT USE POLE
- PULL BOX
- TRAFFIC SIGN
- PARKING METER
- FIRE ALARM BOX
- STREET NAME SIGN
- GAS METER
- MAIL BOX
- FAUCET
- TELEPHONE RISER
- WHEEL STOP
- A.C. BERM
- STEEL POST
- WOOD POST
- PEDESTRIAN PUSH BUTTON
- RAILROAD TRACKS
- RAILROAD SIGN
- RAILROAD SIGNAL
- STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
- STREET LIGHT (UPRIGHT)
- STREET LIGHT
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL ON MAST ARM
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL PRESSURE DETECTOR
- TRAFFIC SIGNAL LOOP DETECTOR

- CONCRETE
- ASPHALT
- EDGE OF PAVEMENT
- BUILDING
- UNDERGROUND STRUCTURE
- OVERHANGING STRUCTURE
- CITRUS TREE
- OR DECIDUOUS TREE
- PALM TREE
- OR SHRUBBERY
- TREE STUMP
- EVERGREEN TREE

PLAN SHEET INDEX

PLAN NUMBER	SHEET NUMBER	SUBJECT
D-431	1	TITLE SHEET
" "	2	PLAN & PROFILE 36" S.D. C+00 TO 15+99.13
" "	3	PLAN & PROFILE 36" S.D. 15+99.13 TO 29+92.83 AND PLAN & PROFILE 42" S.D. 0+64.03 TO 4+24.09 AND SILTATION BASINS.
" "	4	TYPICAL SECTIONS & DETAILS
" "	5	WASTE DISPOSAL SITE, GOLF COURSE SWALE, DRAINAGE DETAILS, & FAIRMOUNT SPILLWAY STRUCTURE
" "	6	STORM DRAIN LATERAL PROFILES
" "	7	LAKE EVANS PROPOSED GRADING AND TEMP. CONSTRUCTION FENCE
" "	8	FAIRMOUNT LAKE AND OTTAWA CHANNEL PROPOSED GRADING & TEMP. CONSTRUCTION FENCE
" "	9	LAKE EVANS SHORELINE REMOVALS
" "	10	FAIRMOUNT LAKE SHORELINE REMOVALS & TREE TRANSPLANTS
" "	11	SLUCE GATE & WATERLINE & A.C. BERM
S-1 THRU S-4	12 THRU 15	SHORELINE STABILIZATION PLAN
T-1 THRU T-3	16 THRU 18	TREE PRESERVATION PLAN
I-1 THRU I-3	19 THRU 21	IRRIGATION PLAN
F-1 THRU F-3	22 THRU 24	FISH HABITAT PLAN

CITY OF RIVERSIDE — PARK AND RECREATION DEPARTMENT		
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT	[illegible]	4/25/84
TRAFFIC DIVISION		
CHIEF P.W. ENGINEER		

APPROVED BY: Dee W. Barlman

DATE April 25 1984

FAIRMOUNT LAKES REHABILITATION

INDEX NO

ACCOUNT NO. 31-532-454

DRAWING NUMBER D-431

SHEET 1 OF 24

DESIGNED BY [illegible] DRAWN BY BLD CHECKED BY

BENCH MARK

60d SPIKE IN PP # 8960 S'LY SIDE OF DEXTER DR 100'± E'LY OF FIELD LN PER F.B. 1003/38

ELEV 792.77

BASIS OF BEARING: ℄ OF DEXTER DR (S 53°39'00"E) ADJACENT TO BROWN LAKE

SECTION A-A - RIPRAP AT OUTLET STRUCTURE

SCALE: 1"=10'

ALL GRADED SLOPES ADJACENT TO AND DOWNSTREAM OF THE OUTLET STRUCTURE SHALL BE SEEDED FOR EROSION CONTROL IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS.

PLACE 2' OF GRAVEL ALL AROUND EXPOSED PORTIONS OF 36" RCP & CONCRETE COLLAR AT ALL EXPOSED JOINTS.

CURVE	Δ	R	T	L
1	42°15'00"	180'	69.55'	132.73'
2	27°26'25"	540'	131.84'	258.62'
3	94°49'33"	105'	114.24'	173.78'
4	33°13'28"	180'	53.70'	104.38'

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MK DRAWN BY SK RJM CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

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

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

STORM DRAIN

HORIZ. SCALE: 1" = 60' VERT. SCALE: 1" = 4'

ACCOUNT NO. 31-532-454

D-431

SHEET 2 OF 24

81630

OZALID- NO.1

BENCH MARK
60d SPIKE IN PP # B940 S'LY SIDE DEXTER DR 100'± E'LY OF FIELD IN PER R/S 1003/38
ELEV. 792.77

BASIS OF BEARING: E DEXTER DR (S53°35'00"E) ADJACENT TO BROWN LAKE

CONST 36" STORM DRAIN

EXISTING SURFACE AT ℄ STORM DRAIN

PROP LOW FLOW CHANNEL

MATCH SHEET 2

141 L.F. - 36" R.C.P.
D-1250
Q-45 CFS

350 L.F. - 36" R.C.P.
D-1250
Q-45 CFS

396 L.F. - 36" R.C.P.
D-1000
Q-45 CFS

390 L.F. - 36" R.C.P.
D-2000
Q-45 CFS

PROFILE - OTTAWA LATERAL
354 L.F. - 42" R.C.P.
D-1100

DETAIL 'H' NO SCALE

NOTE: E'LY SIDE OF LOW FLOW CHANNEL AT MARKET ST. AIR PLACED CONCRETE SHALL BE 4" THICK. TRIM EXIST 6½'S.D. TO MATCH SLOPE OF AIR PLACED CONCRETE.

NOTE: CONTRACTOR SHALL REMOVE & REPLACE CONFLICTING BOLLARDS AS REQUIRED.

PROTECT ELECTRICAL CONDUIT IN PLACE. IN CASE OF CONFLICT CONDUIT WILL EITHER BE RELOCATED BY OTHERS OR BY THE CONTRACTOR UNDER PROVISIONS FOR EXTRA WORK AS DETERMINED BY THE ENGINEER.

CONST PCC TRAPEZOIDAL CHANNEL

CONST 36" STORM DRAIN

CONST. 42" STORM DRAIN

LAKE EVANS

FAIRMOUNT LAKE

MATCH LINE SEE SHT 4

CURVE	Δ	R	T	L
(13)	36°00'00"	60'	20.21'	36.65'
(14)	49°02'42"	45'	20.53'	38.52'
(15)	9°41'45"	270'	22.90'	45.69'
(16)	23°48'44"	90'	18.96'	37.40'

CURVE	Δ	R	T	L
(5)	17°21'38"	540'	83.29'	165.16'
(6)	29°91'90"	90'	23.72'	46.98'
(7)	53°18'69"	90'	45.18'	83.75'
(8)	11°58'09"	180'	18.99'	37.60'
(9)	56°15'39"	45'	24.06'	44.19'
(10)	55°52'48"	22.5'	11.93'	21.94'
(11)	45°00'00"	22.5'	9.92'	17.67'
(12)	23°27'45"	120'	24.92'	49.14'

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

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

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

STORM DRAIN AND SILTATION BASINS

ACCOUNT NO. 31-532-464

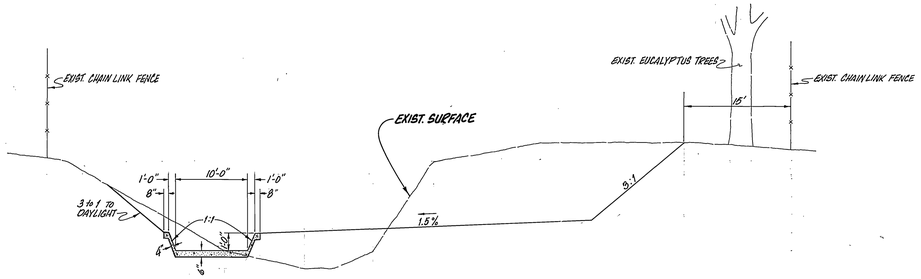
D-431

SHEET 3 OF 24

HORIZ. SCALE: 1" = 60' VERT. SCALE: 1" = 4'

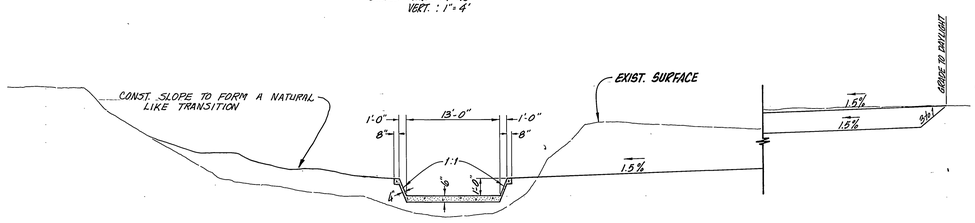
81630

OZALID- NO.1



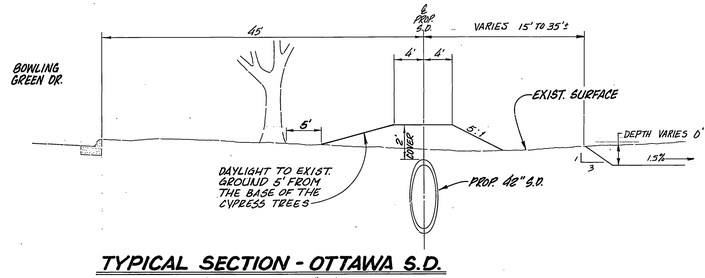
TYPICAL SECTION - SILTATION BASIN 'A' & OTTAWA LATERAL (CHANNEL ONLY)

SCALE: HORIZ. : 1"=10'
VERT. : 1"=4'



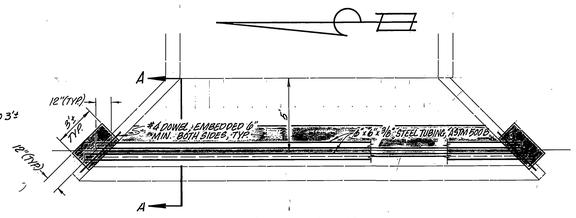
TYPICAL SECTION - SILTATION BASIN 'B'

SCALE: HORIZ. : 1"=10'
VERT. : 1"=4'



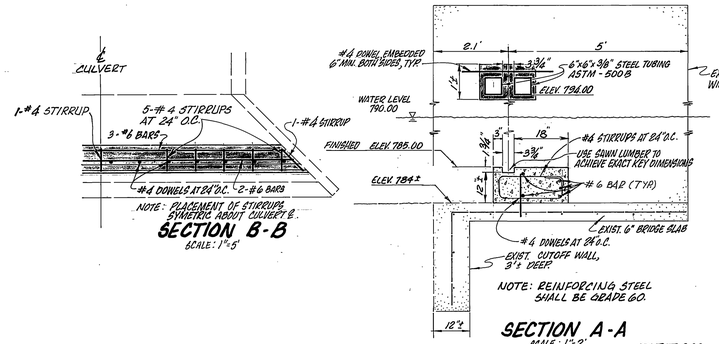
TYPICAL SECTION - OTTAWA S.D.

SCALE : HORIZ. : 1"=10'
VERT. : 1"=4'



PLAN VIEW

SCALE: 1"=5'

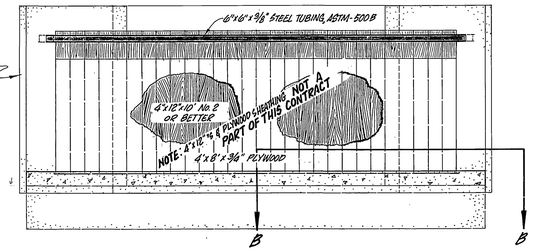


SECTION B-B

SCALE: 1"=5'

SECTION A-A

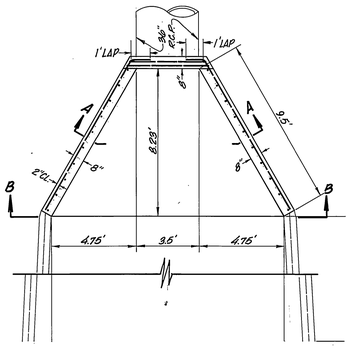
SCALE: 1"=2'



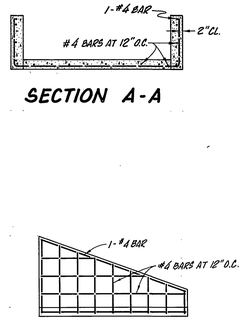
ELEVATION

SCALE: 1"=5'

DETAIL 'C' - FLASHBOARD DAM



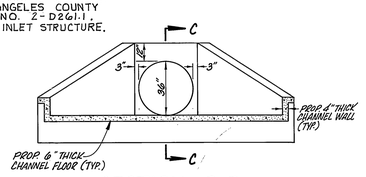
PLAN VIEW



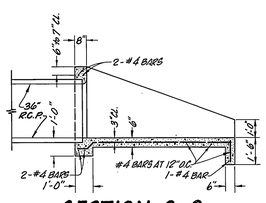
SECTION A-A

WING WALL REINFORCING

△ 1. INSTALL PROTECTION BARRIER TO OUTLET STRUCTURE PER LOS ANGELES COUNTY FLOOD CONTROL DWG NO. 2-D2G1.1.
△ 2. INSTALL TRASH RACK TO INLET STRUCTURE.



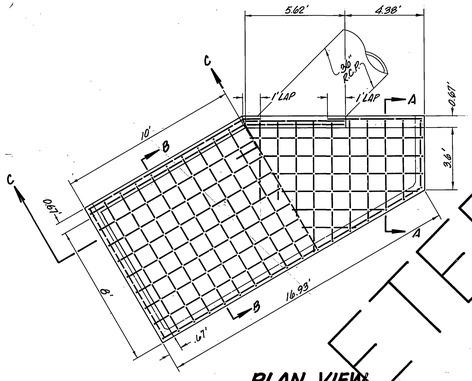
SECTION B-B



SECTION C-C

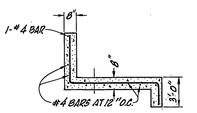
DETAIL 'A' INLET & OUTLET HEADWALL

SCALE: 1"=4'

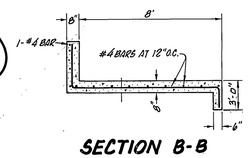


PLAN VIEW

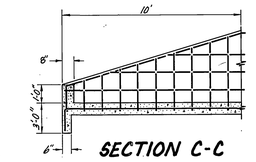
DELETED



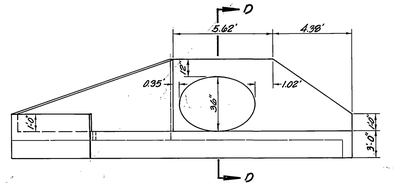
SECTION A-A



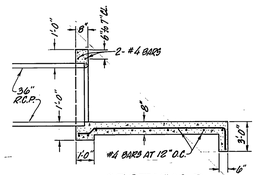
SECTION B-B



SECTION C-C



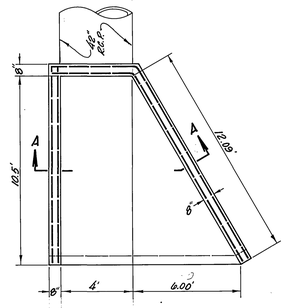
ELEVATION



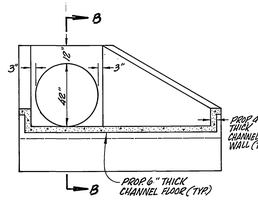
SECTION D-D

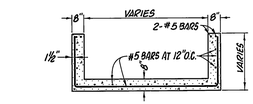
DETAIL 'B' OUTLET HEADWALL

SCALE: 1"=4'

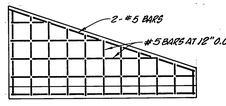


PLAN VIEW

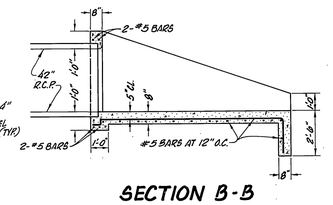




SECTION A-A



WING WALL REINFORCING



SECTION B-B

DETAIL 'D' OTTAWA S.D. OUTLET HEADWALL

MARK	REVISIONS	APPR.	DATE
△	PER ADDENDUM NO. ONE	RDM	8/14/84

DESIGNED BY ML DRAWN BY SK CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY
DATE

FAIRMOUNT LAKES REHABILITATION

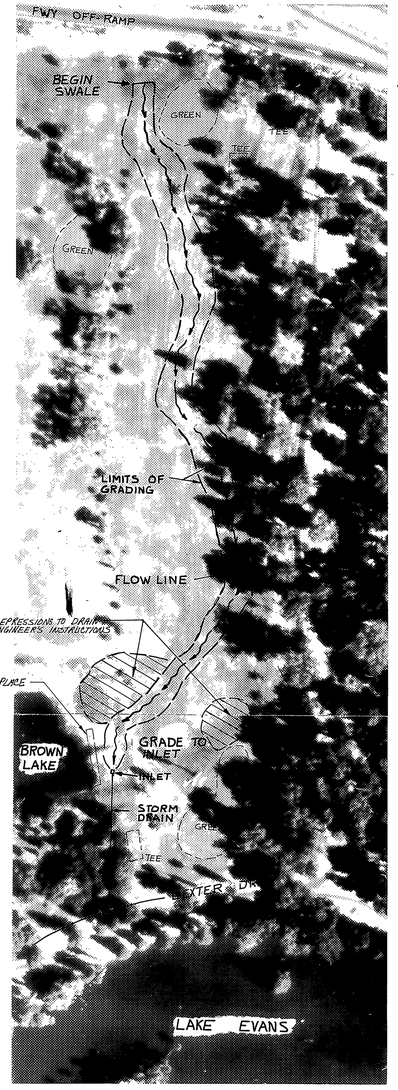
TYPICAL SECTIONS & DETAILS

HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN

ACCOUNT NO. 31-532-454

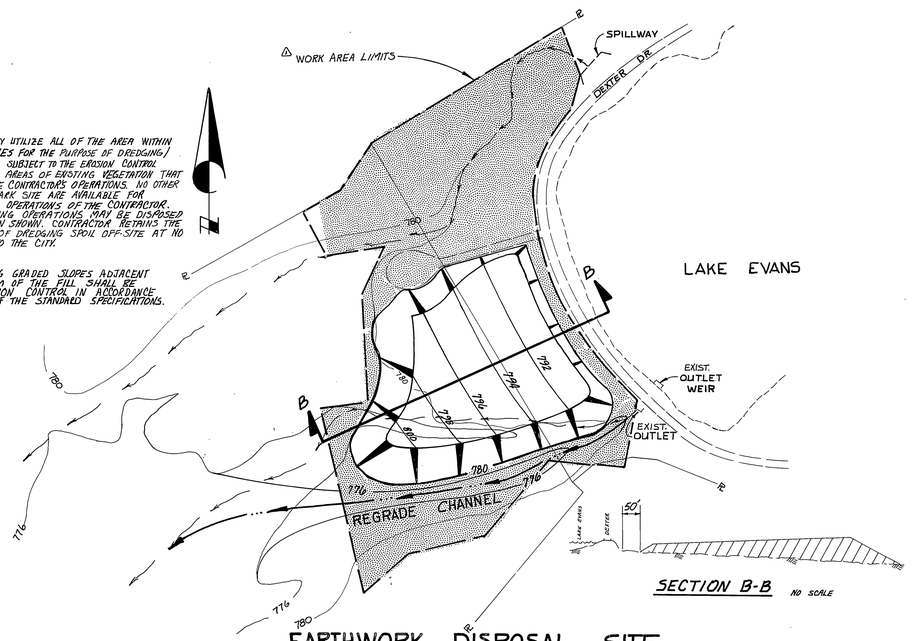
D-431

SHEET 4 OF 24



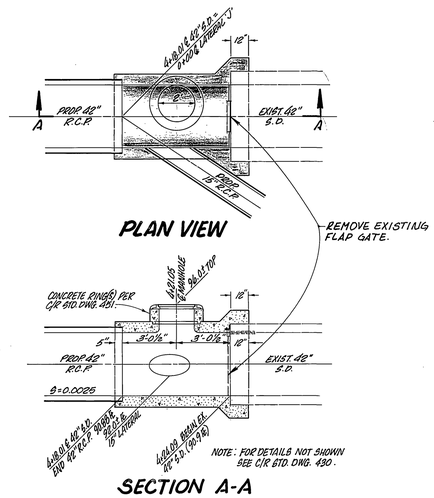
△ NOTE: CONTRACTOR MAY UTILIZE ALL OF THE AREA WITHIN THE WORK LIMIT LINES FOR THE PURPOSE OF DREDGING/ DESILTING OPERATIONS SUBJECT TO THE EROSION CONTROL HYDROSEEDING OF ALL AREAS OF EXISTING VEGETATION THAT ARE DISTURBED BY THE CONTRACTORS OPERATIONS. NO OTHER AREAS WITHIN THE PARK SITE ARE AVAILABLE FOR DREDGING/ DESILTING OPERATIONS OF THE CONTRACTOR. SPOIL FROM DREDGING OPERATIONS MAY BE DISPOSED OF AT THE LOCATION SHOWN. CONTRACTOR RETAINS THE OPTION TO DISPOSE OF DREDGING SPOIL OFF-SITE AT NO ADDITIONAL COST TO THE CITY.

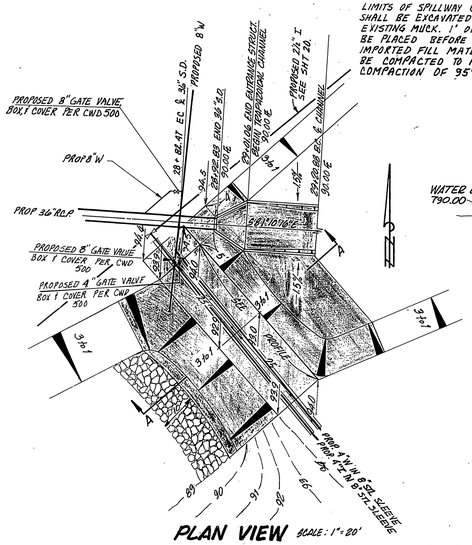
FILL AREA INCLUDING GRADED SLOPES ADJACENT TO AND DOWNSTREAM OF THE FILL SHALL BE SEEDED FOR EROSION CONTROL IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS.



SECTION B-B NO SCALE

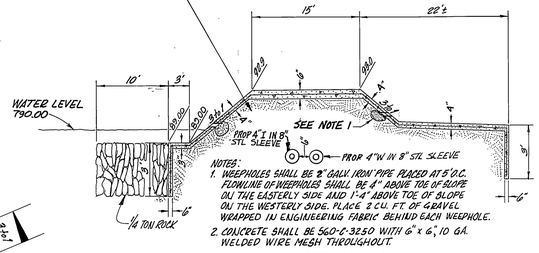
EARTHWORK DISPOSAL SITE



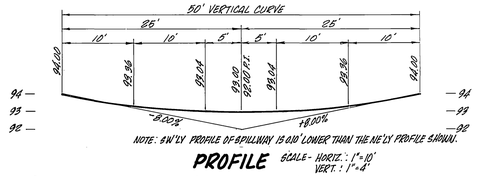


PLAN VIEW SCALE: 1"=20'

LIMITS OF SPILLWAY CONSTRUCTION SHALL BE EXCAVATED TO REMOVE EXISTING MUCK. 1' OF GRAVEL SHALL BE PLACED BEFORE PLACEMENT OF IMPORTED FILL MATERIAL. FILL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95%.



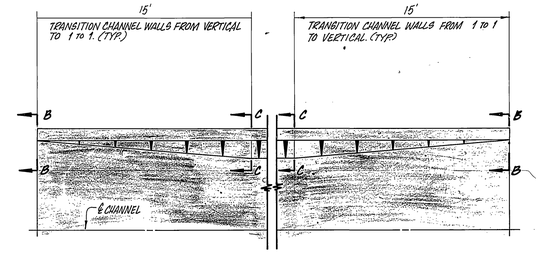
SECTION A-A NOT TO SCALE



NOTE: G.W.'LY PROFILE OF SPILLWAY IS 0.10' LOWER THAN THE N.E.'LY PROFILE SHOWN.

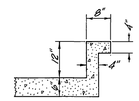
PROFILE SCALE- HORIZ.: 1"=10' VERT.: 1"=4'

DETAIL 'E' - SPILLWAY AT FAIRMOUNT LAKE

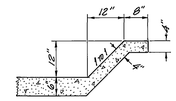


DETAIL 'G' - CHANNEL WALL TRANSITION (TYP.)

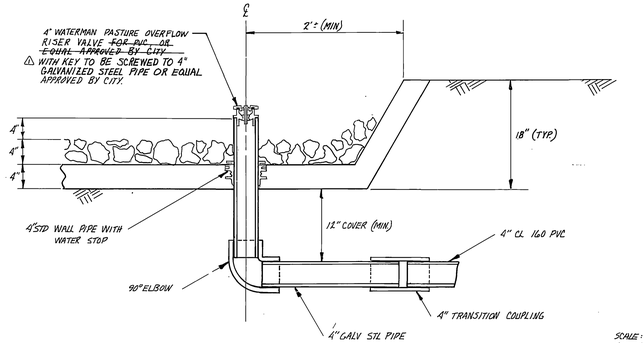
SCALE: 1"=4'



SECTION B-B
SCALE: 1"=2'

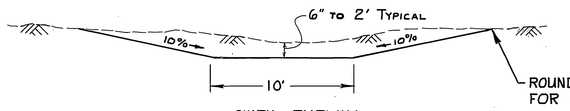


SECTION C-C
SCALE: 1"=2'



SCALE: HOR. 1"=1' VERT.-1"=1'

DETAIL 'H' - TYPICAL WATER MAIN OUTLET



SIXTH FAIRWAY
GOLF COURSE SWALE
TYPICAL SECTION
NO SCALE

MARK	REVISIONS	APPR.	DATE
△	PER ADDENDUM NO. ONE	R.M.H.	8/14/84

DESIGNED BY SDC DRAWN BY BCD CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

WASTE DISPOSAL SITE, GOLF COURSE SWALE, DRAINAGE DETAILS & FAIRMOUNT SPILLWAY STRUCTURE

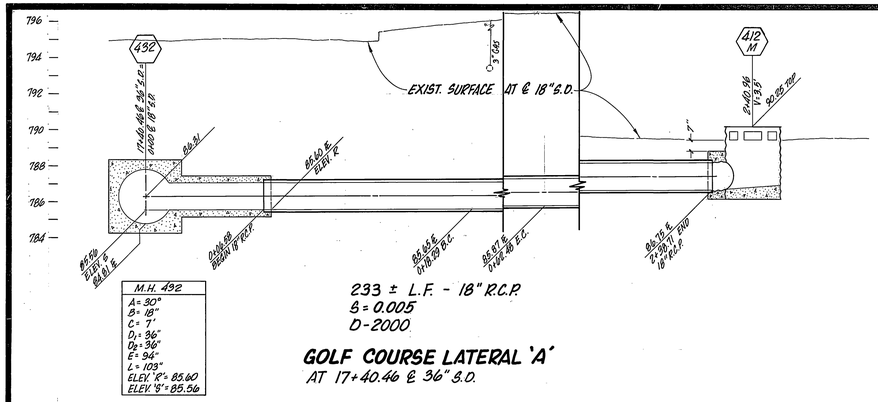
HORIZ. SCALE: 1" = AS SHOWN VERT. SCALE: 1" = AS SHOWN

IBK WR

ACCOUNT NO. 31-532-454

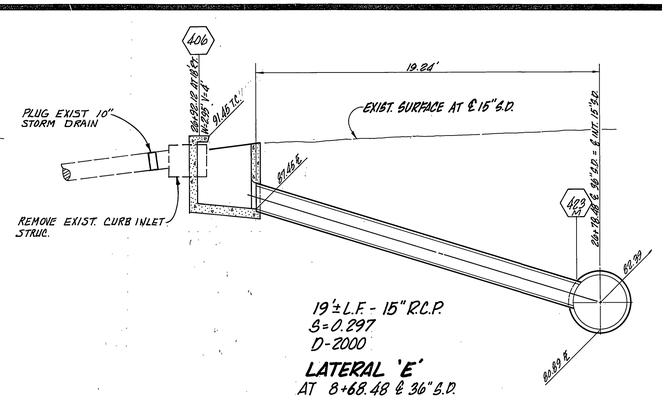
D-431

SHEET 5 OF 24



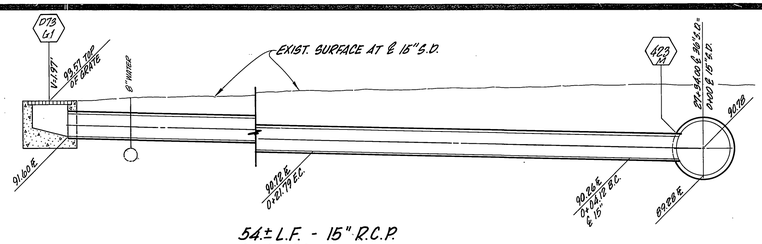
233 ± L.F. - 18" R.C.P.
S = 0.005
D-2000

GOLF COURSE LATERAL 'A'
AT 17+40.46 @ 36" S.D.



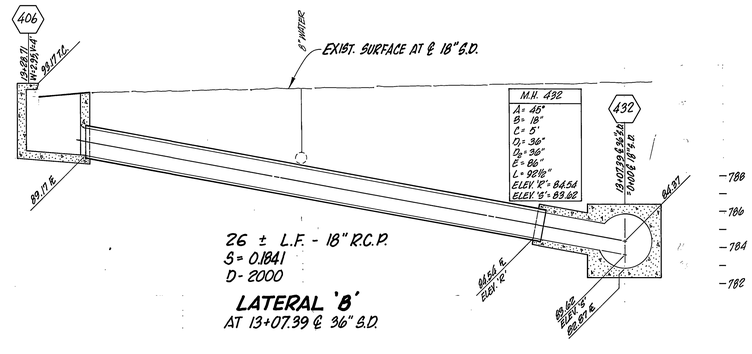
19 ± L.F. - 15" R.C.P.
S = 0.297
D-2000

LATERAL 'E'
AT 8+68.48 @ 36" S.D.



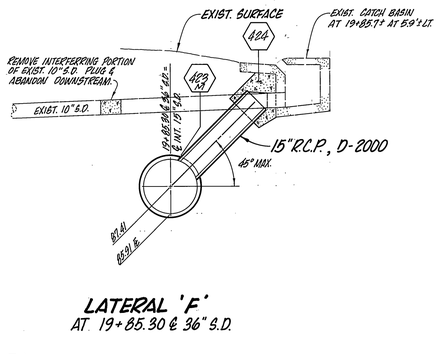
54.± L.F. - 15" R.C.P.
S = 0.026
D-2000

LATERAL 'I'
AT 27+34.00 @ 36" S.D.

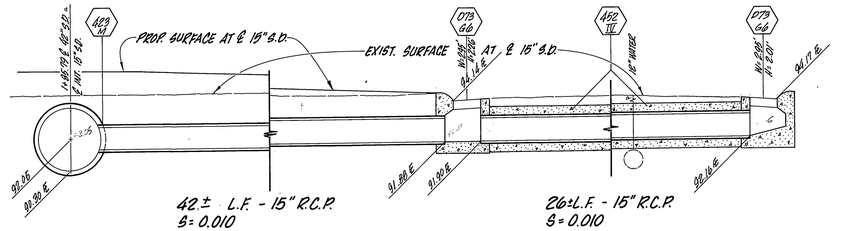


26 ± L.F. - 18" R.C.P.
S = 0.1841
D-2000

LATERAL 'B'
AT 13+07.39 @ 36" S.D.



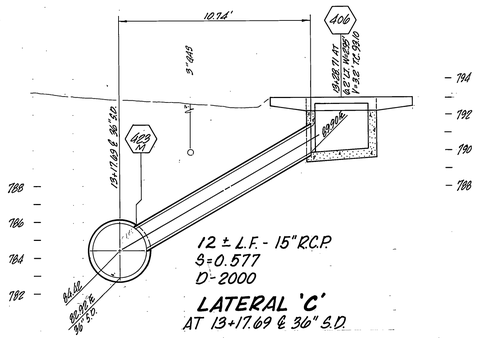
LATERAL 'F'
AT 19+85.30 @ 36" S.D.



42.± L.F. - 15" R.C.P.
S = 0.010
D-2000

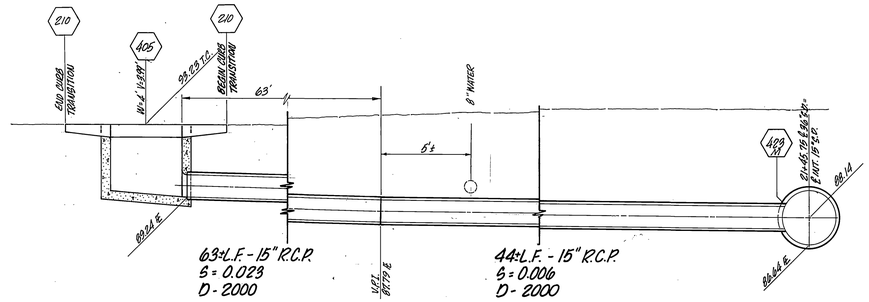
26±L.F. - 15" R.C.P.
S = 0.010
D-2000

LATERAL 'K'
AT 1+85.79 @ 42" S.D.



12 ± L.F. - 15" R.C.P.
S = 0.577
D-2000

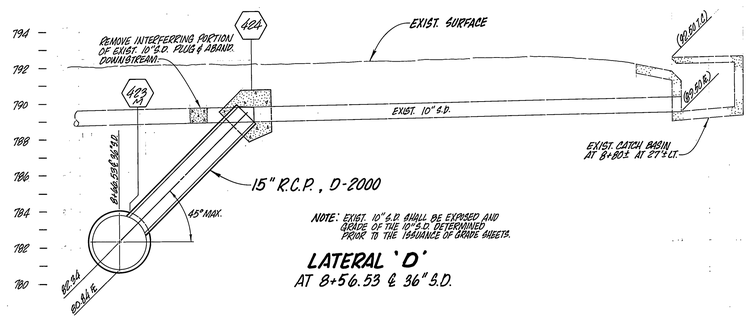
LATERAL 'C'
AT 13+17.69 @ 36" S.D.



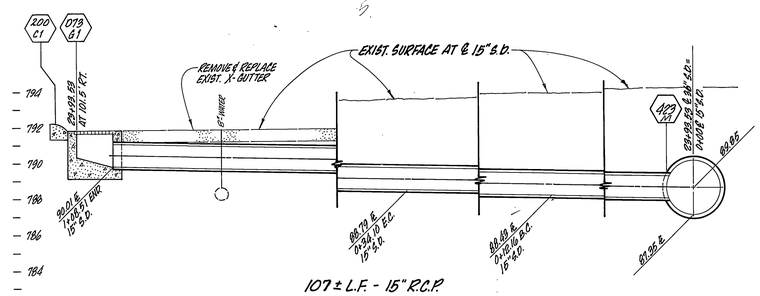
63±L.F. - 15" R.C.P.
S = 0.023
D-2000

44±L.F. - 15" R.C.P.
S = 0.006
D-2000

LATERAL 'G'
AT 21+44.85 @ 36" S.D.

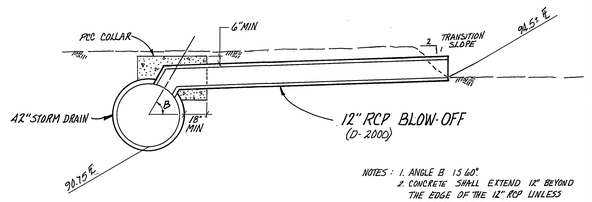


LATERAL 'D'
AT 8+56.53 @ 36" S.D.



107 ± L.F. - 15" R.C.P.
S = 0.0165
D-2000

LATERAL 'H'
AT 29+93.53 @ 36" S.D.



NOTES: 1. ANGLE B IS 60°.
2. CONCRETE SHALL EXTEND 12" BEYOND THE EDGE OF THE 12" RCP UNLESS INDICATED OTHERWISE.

DETAIL 'N'
OTTAWA LATERAL BLOW-OFF

NOTE: ALL LATERAL PROFILES ARE DRAWN LOOKING DOWNSTREAM

MARK	REVISIONS	APPR.	DATE

DESIGNED BY JWL DRAWN BY BL CHECKED BY

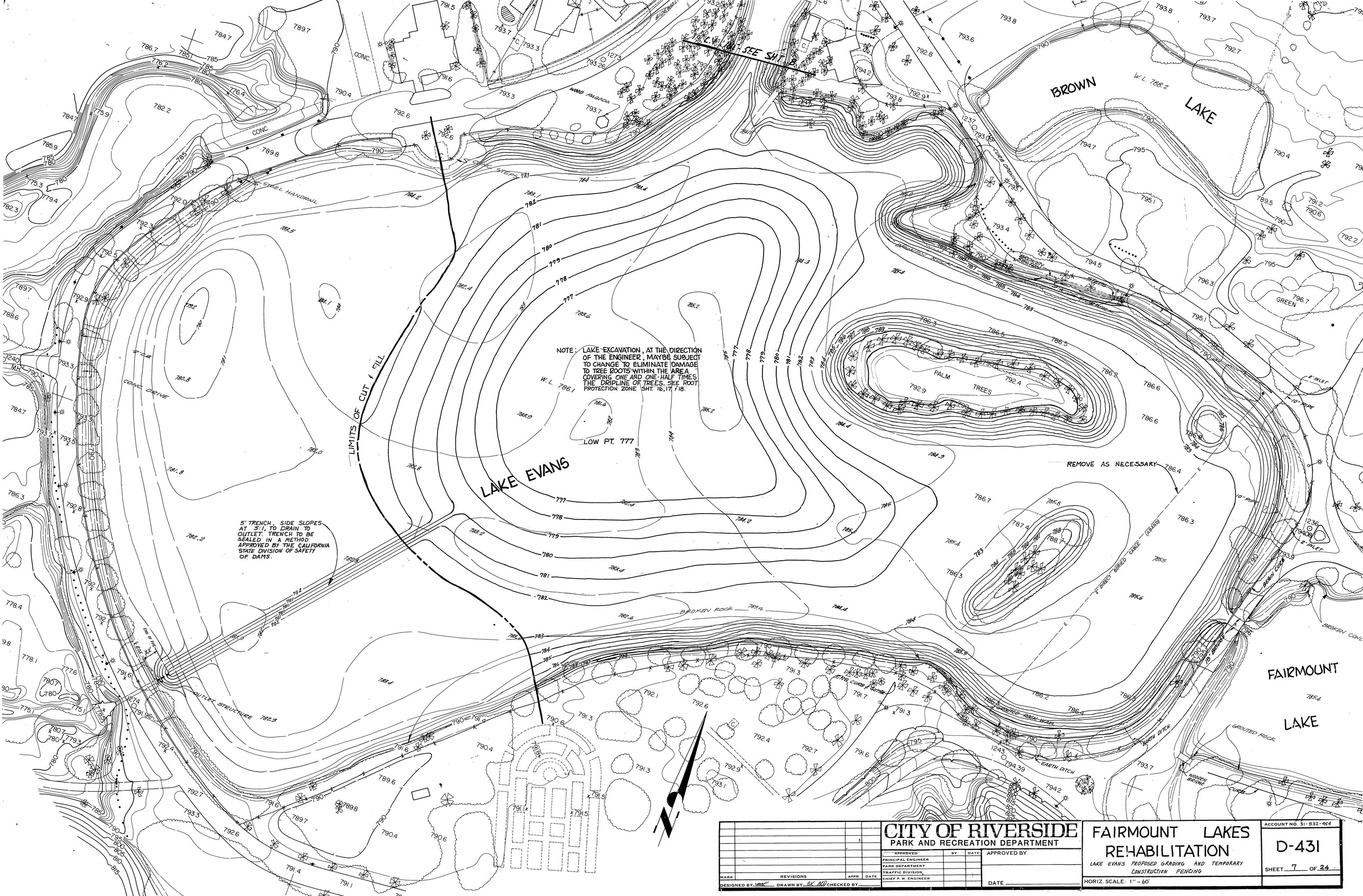
CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY
DATE

FAIRMOUNT LAKES REHABILITATION
STORM DRAIN LATERALS

ACCOUNT NO. 31-532-454
D-431
SHEET 6 OF 24
HORIZ. SCALE: 1" = 4' VERT. SCALE: 1" = 4'



MARK	REVISIONS	APPR.	DATE

DESIGNED BY [illegible] DRAWN BY [illegible] CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

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

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

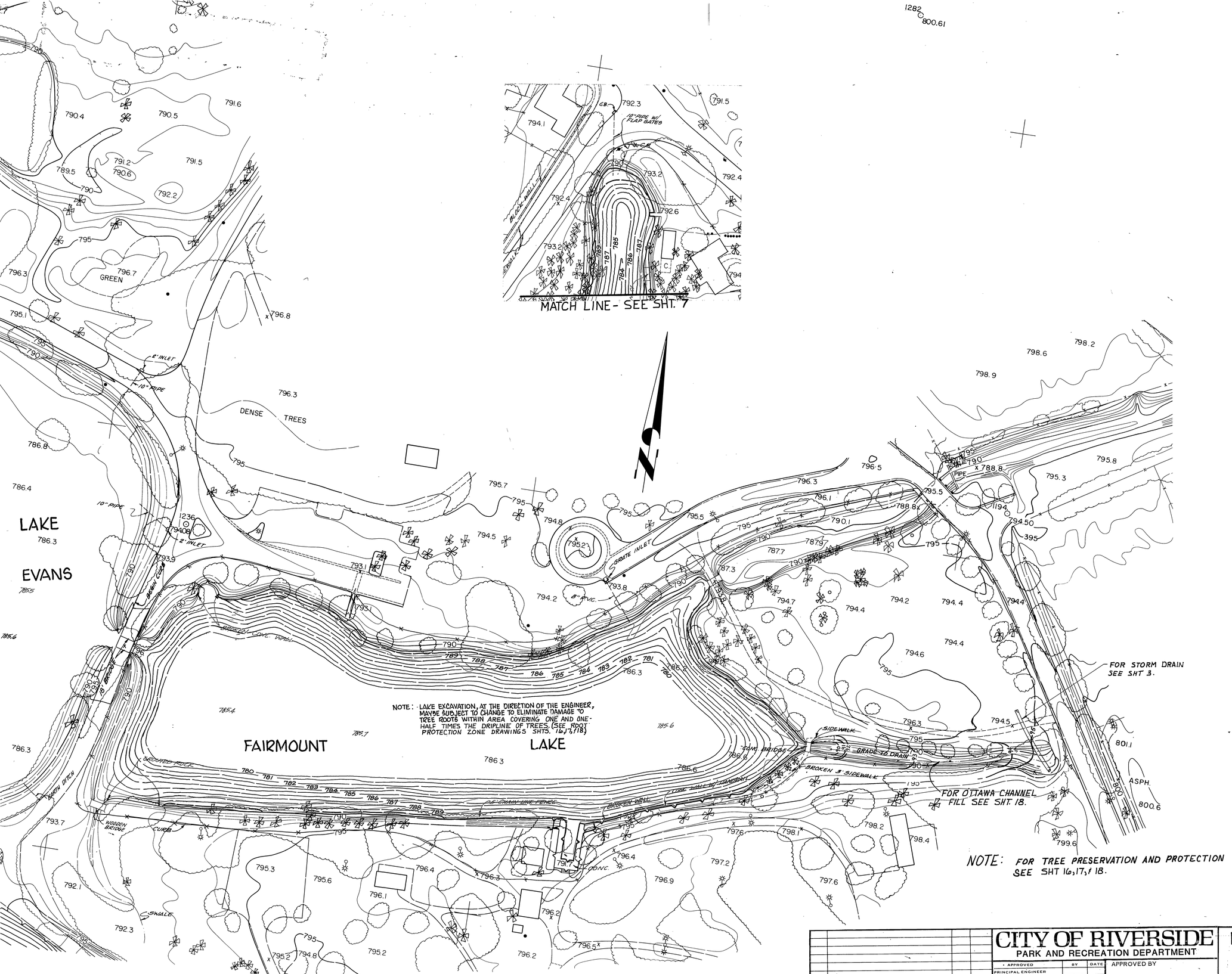
LAKE EVANS PROPOSED GRADING AND TEMPORARY CONSTRUCTION FENCING

HORIZ. SCALE: 1" = 60'

ACCOUNT NO. 31-532-454

D-431

SHEET 7 OF 24



MARK	REVISIONS	APPR.	DATE

DESIGNED BY [illegible] DRAWN BY SK/BKD CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

FAIRMOUNT LAKE & OTTAWA CHANNEL PROPOSED GRADING & TEMPORARY CONSTRUCTION FENCING

HORIZ. SCALE: 1" = 60'

ACCOUNT NO. 31-532-454

D-431

SHEET 8 OF 24

MARK	REVISIONS	APPR.	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

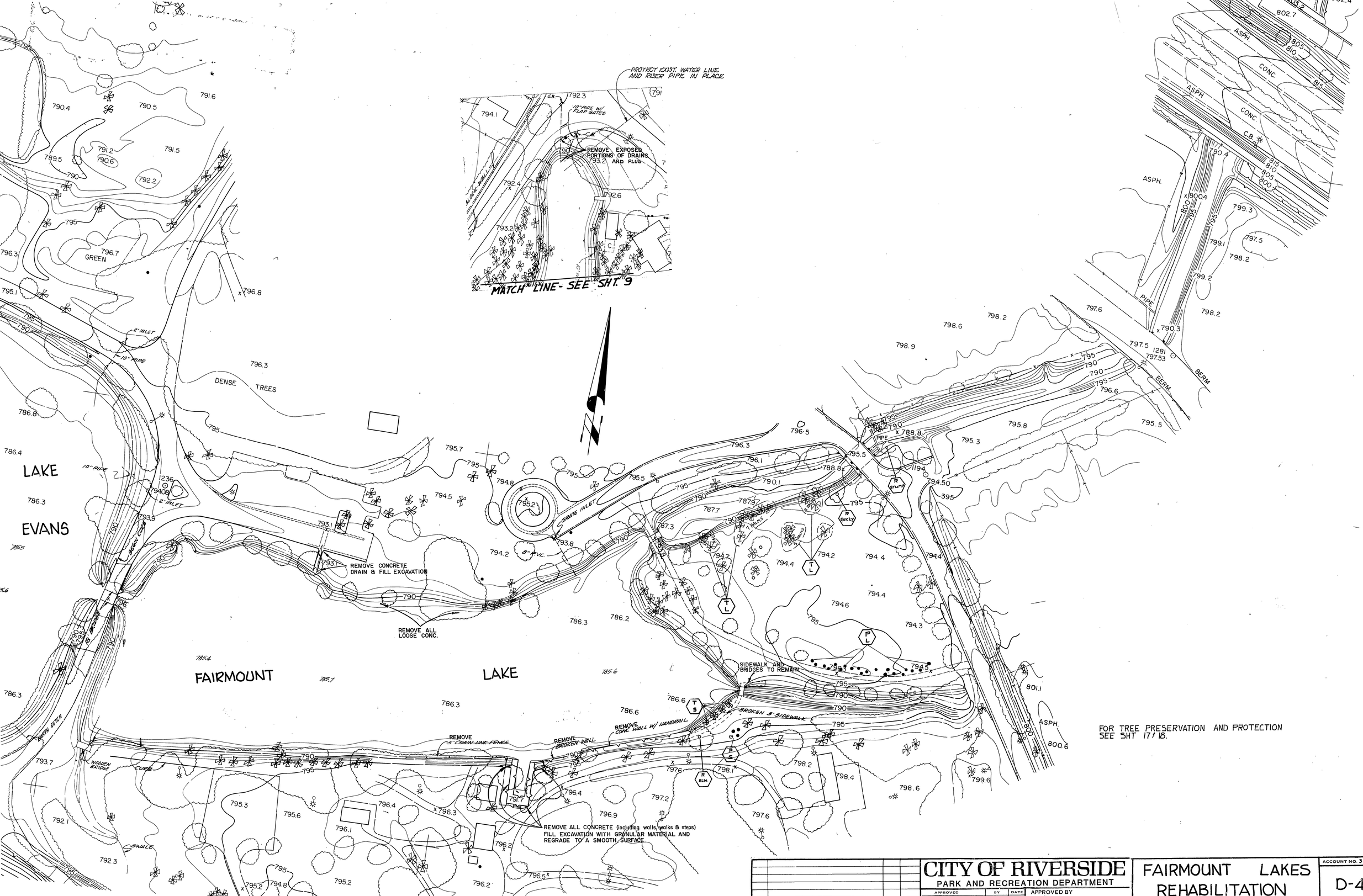
LAKE EVANS SHORELINE REMOVALS

HORIZ. SCALE: 1" = 60'

ACCOUNT NO. 31-532-454

D-431

SHEET 9 OF 24



FOR TREE PRESERVATION AND PROTECTION SEE SHT 17 & 18.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MK DRAWN BY BLD CHECKED BY

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
CHIEF P. W. ENGINEER		

APPROVED BY

DATE

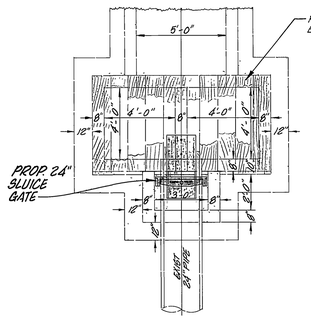
FAIRMOUNT LAKES REHABILITATION
FAIRMOUNT LAKE SHORELINE REMOVALS AND TREE TRANSPLANTS

HORIZ. SCALE: 1" = 60'

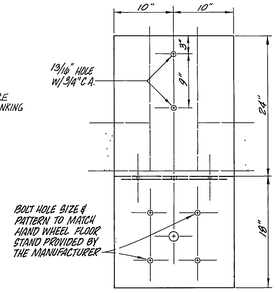
ACCOUNT NO. 31-532-454

D-431

SHEET 10 OF 24

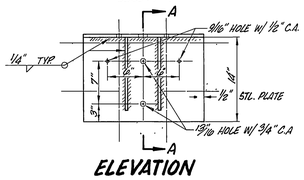


PLAN VIEW

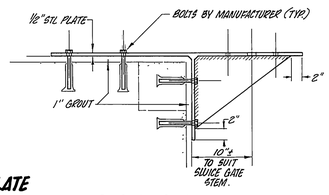


FLOORSTAND SUPPORT PLATE

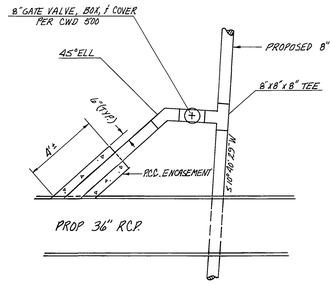
SCALE : 1" = 1'



ELEVATION

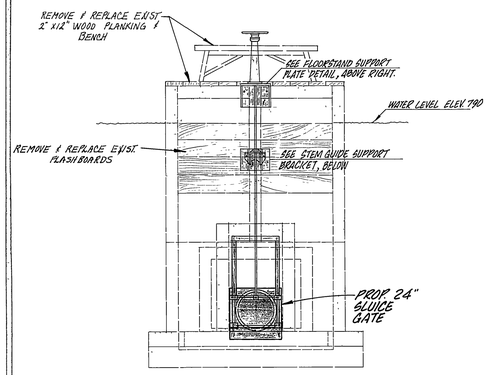


SECTION A-A

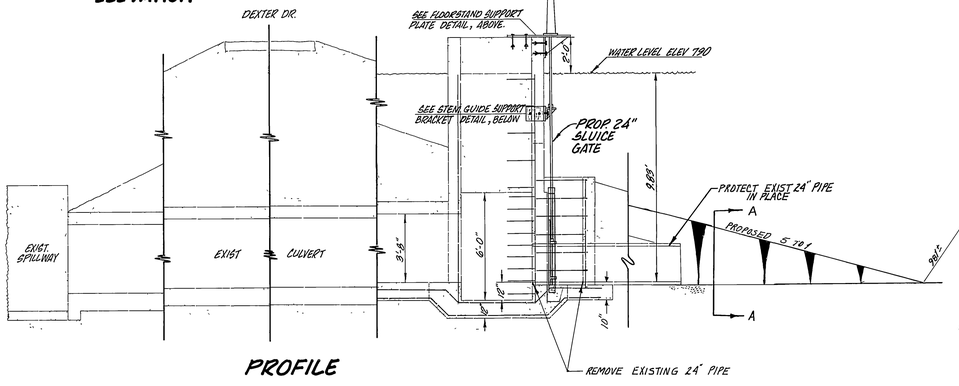


FLUSHING LINE DETAIL

SCALE: 1" = 4'



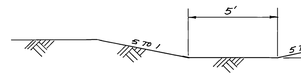
ELEVATION



PROFILE

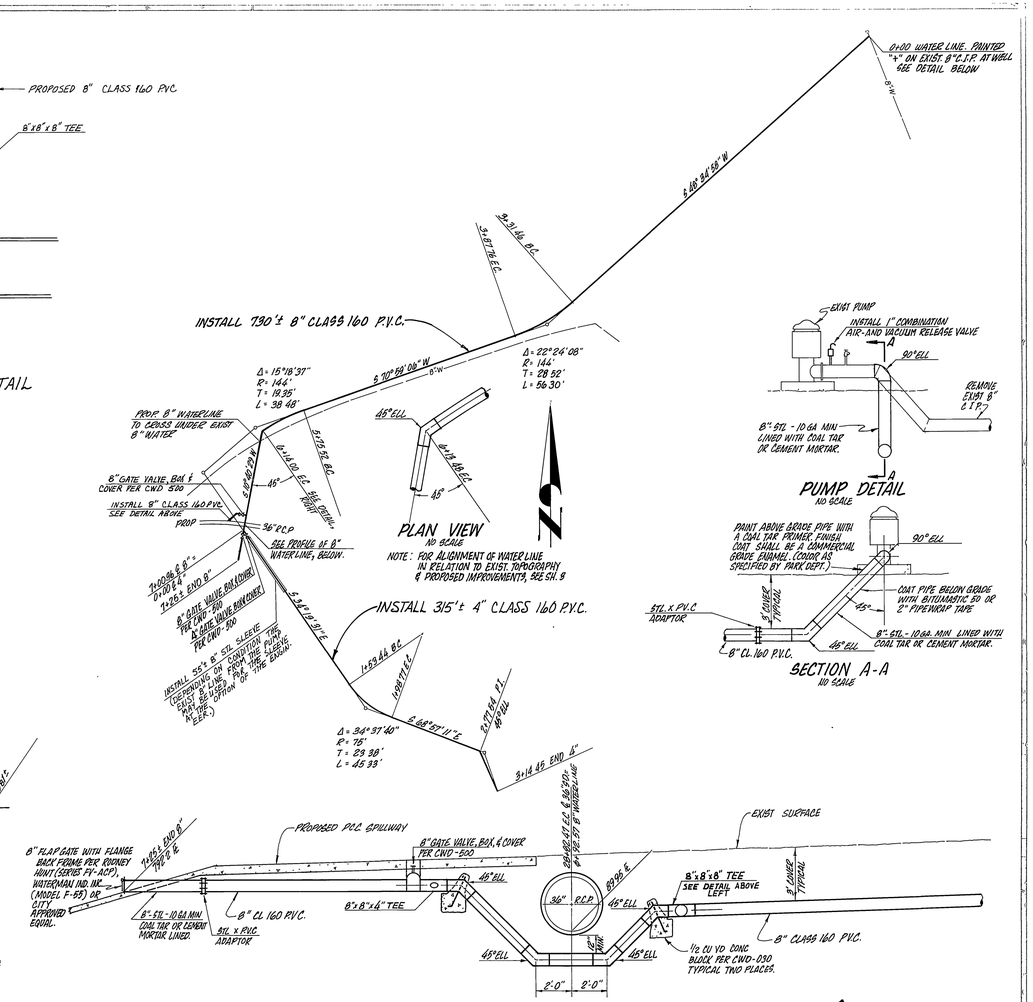
PROPOSED 24" SLUICE GATE AT EXIST. WEIR BOX

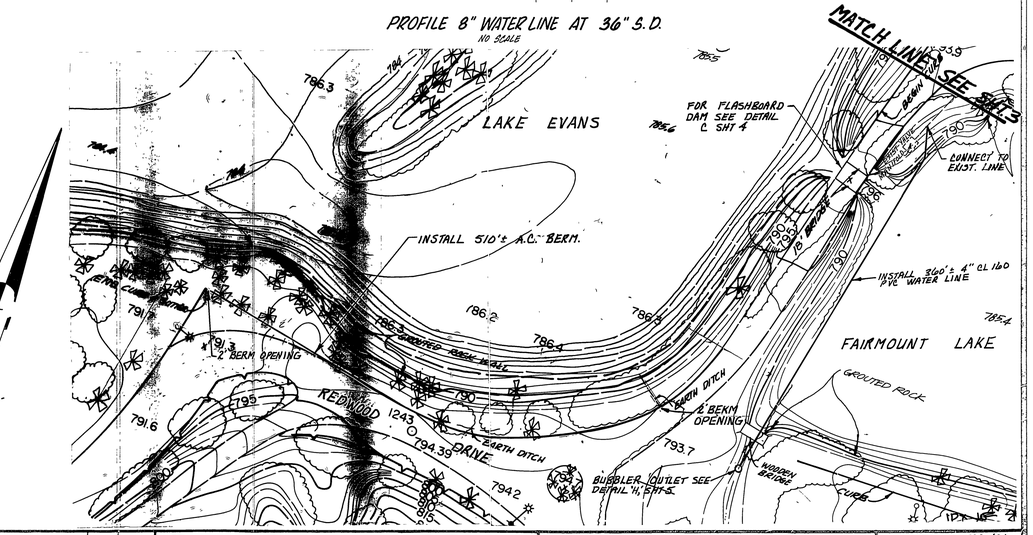
NO SCALE



SECTION A-A

SCALE: 1"=4'



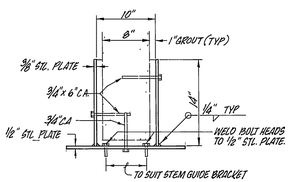


PROFILE 8" WATER LINE AT 36" S.D.

NO SCALE

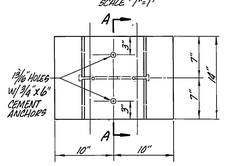
SLUICE GATE NOTES:

1. FLOORSTAND SUPPORT PLATE SHALL BE FABRICATED OF 1/2" THICK STEEL PLATE, ASTM A242 OR A588
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PERTAINING TO THE EXISTING WEIR BOX AND PROPOSED STEEL SUPPORTS TO INSURE THE PROPER ALIGNMENT FOR THE PROPOSED SLUICE GATE.
3. STEM GUIDE SUPPORT BRACKET SHALL BE FABRICATED FROM CORROSION RESISTANT STEEL, ASTM A242 OR A588.
4. ONE STEM GUIDE BRACKET IS SHOWN. TWO (2) MAY BE REQUIRED DEPENDING ON STEM DIAMETER SPECIFIED BY THE MANUFACTURER AND THE UNSUPPORTED LENGTH OF THE STEM.

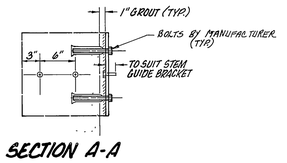


STEM GUIDE SUPPORT BRACKET

SCALE 1"=1'



ELEVATION



SECTION A-A

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY BK CHECKED BY ____

CITY OF RIVERSIDE

PARK AND RECREATION DEPARTMENT

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

APPROVED BY

DATE ____

FAIRMOUNT LAKES REHABILITATION

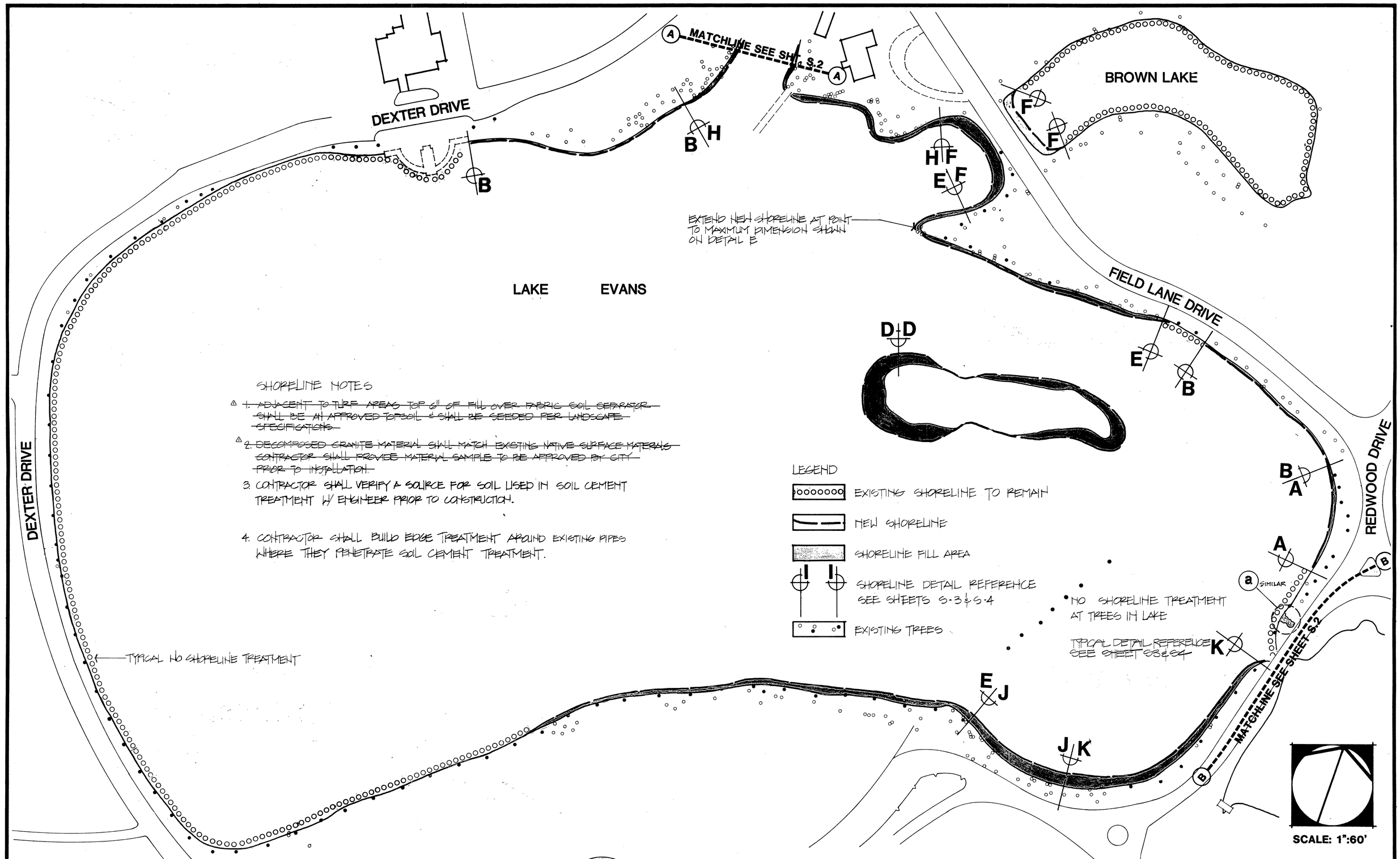
SLUICE GATE & WATER LINE & A.C. BERM

ACCOUNT NO. 31-532-464

D-431

SHEET 11 OF 24

HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN



SHORELINE NOTES

1. ~~ADJACENT TO TURF AREAS TOP 6" OF FILL OVER FABRIC SOIL SEPARATOR SHALL BE AN APPROVED TOPSOIL & SHALL BE SEEDED PER LANDSCAPE SPECIFICATIONS.~~
2. ~~DECOMPOSED GRANITE MATERIAL SHALL MATCH EXISTING NATIVE SURFACE MATERIALS CONTRACTOR SHALL PROVIDE MATERIAL SAMPLE TO BE APPROVED BY CITY PRIOR TO INSTALLATION.~~
3. CONTRACTOR SHALL VERIFY A SOURCE FOR SOIL USED IN SOIL CEMENT TREATMENT W/ ENGINEER PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL BUILD EDGE TREATMENT AROUND EXISTING PIPES WHERE THEY PENETRATE SOIL CEMENT TREATMENT.

LEGEND

- EXISTING SHORELINE TO REMAIN
- NEW SHORELINE
- SHORELINE FILL AREA
- SHORELINE DETAIL REFERENCE SEE SHEETS S-3 & S-4
- EXISTING TREES

REGISTERED LANDSCAPE ARCHITECT WAYNE M. FLORIAN NO. 1 STATE OF CALIFORNIA Signature Date 12/20/83

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE
1	PER ADDENDUM NO. ONE	RMcG	8/14/84

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

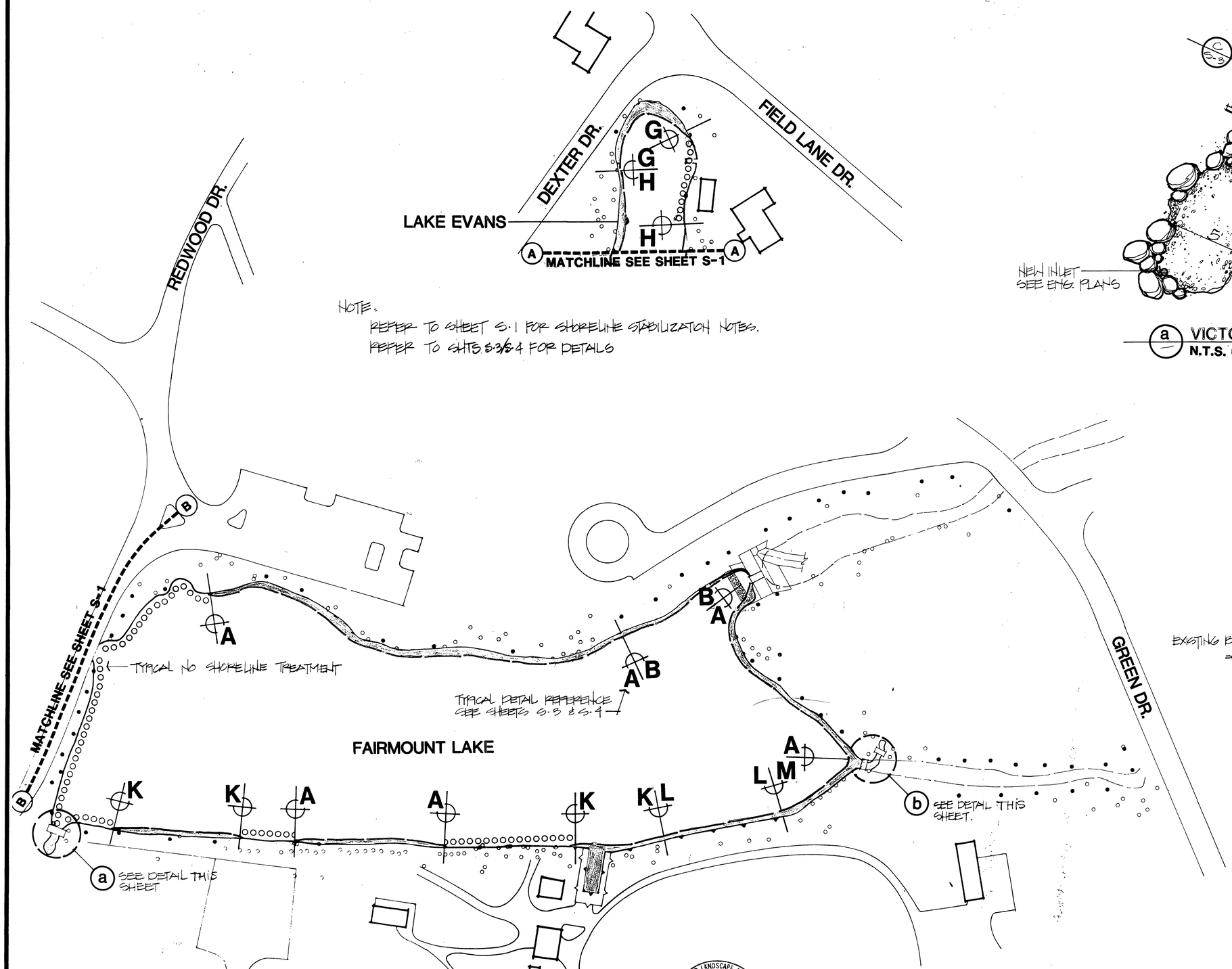
APPROVED BY | DATE | BY
PARK DEPARTMENT

APPROVED BY
DATE

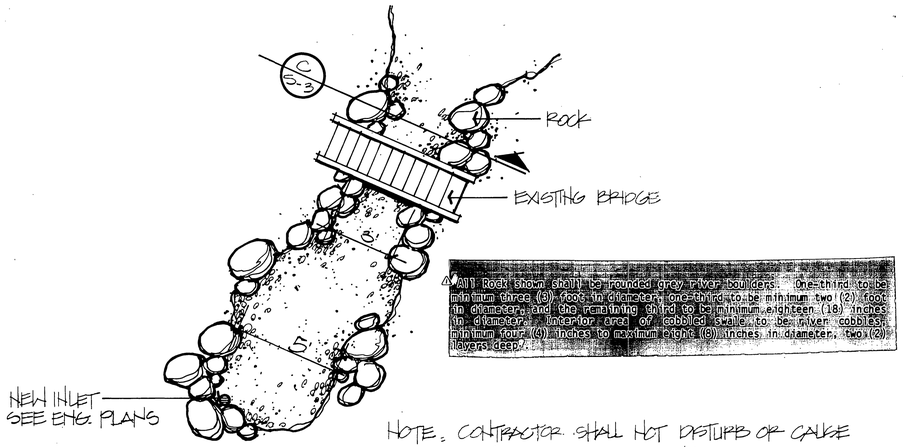
FAIRMOUNT LAKES REHABILITATION
LAKE EVANS SHORELINE STABILIZATION PLAN

HORIZ. SCALE 1":60' VERT. SCALE: 1" =

ACCOUNT NO.
S•1
SHEET 12 OF 24
D-431



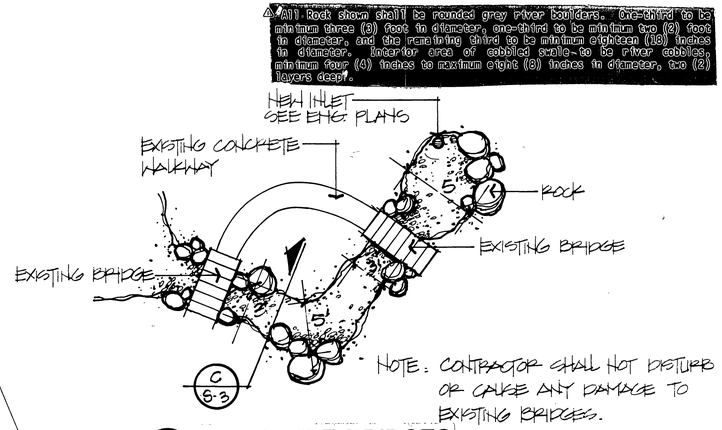
NOTE:
REFER TO SHEET S-1 FOR SHORELINE STABILIZATION NOTES.
REFER TO SHTS S-3/S-4 FOR DETAILS



△ All Rock shown shall be rounded grey river boulders. One-third to be minimum three (3) foot in diameter, one-third to be minimum two (2) foot in diameter, and the remaining third to be minimum eighteen (18) inches in diameter. Interior area of cobbled swale to be river cobbles, minimum four (4) inches to maximum eight (8) inches in diameter, two (2) layers deep.

NOTE: CONTRACTOR SHALL NOT DISTURB OR CAUSE ANY DAMAGE TO EXISTING BRIDGE

a VICTORIAN BRIDGE
N.T.S. (EVANS LAKE OUTLET SIMILAR)



△ All Rock shown shall be rounded grey river boulders. One-third to be minimum three (3) foot in diameter, one-third to be minimum two (2) foot in diameter, and the remaining third to be minimum eighteen (18) inches in diameter. Interior area of cobbled swale to be river cobbles, minimum four (4) inches to maximum eight (8) inches in diameter, two (2) layers deep.

NOTE: CONTRACTOR SHALL NOT DISTURB OR CAUSE ANY DAMAGE TO EXISTING BRIDGES.

b CONCRETE BRIDGES
N.T.S.

SCALE: 1":60'

REGISTERED LANDSCAPE ARCHITECT
WAYNE M. FLORIAN NO. 2
Signature
Date
STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

△	PER ADDENDUM NO. ONE	RMcM	8/16/84
MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

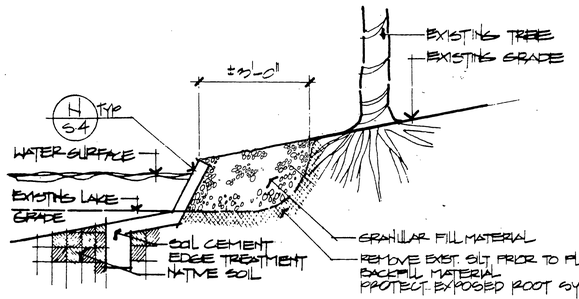
APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY:
DATE

FAIRMOUNT LAKES REHABILITATION
FAIRMOUNT LAKE SHORELINE STABILIZATION PLAN

SCALE 1":60' VERT. SCALE: 1" =

INDEX LE
ACCOUNT NO.
S•2
SHEET 13 OF 24
D-431



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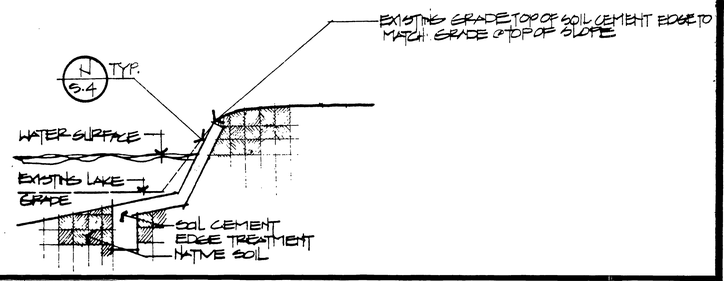

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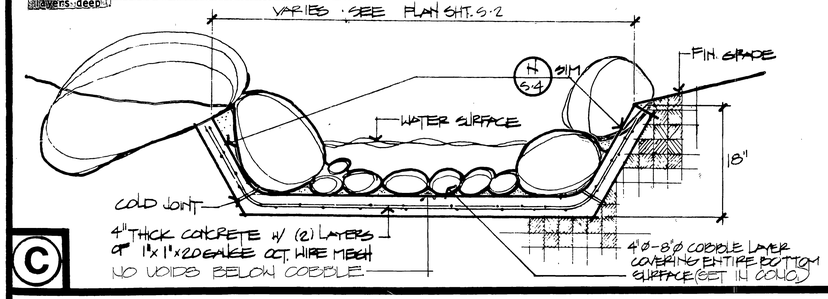

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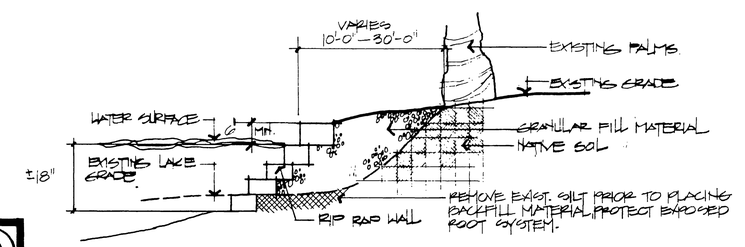

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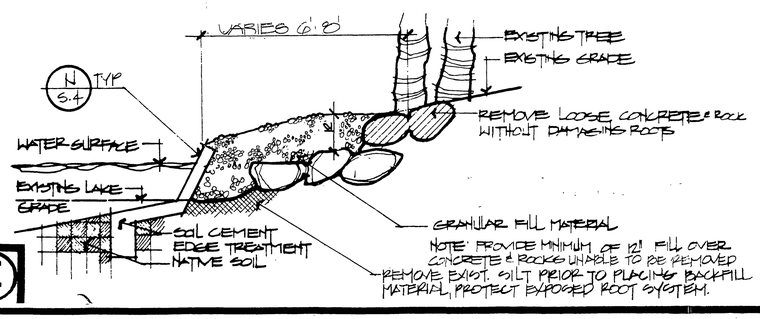

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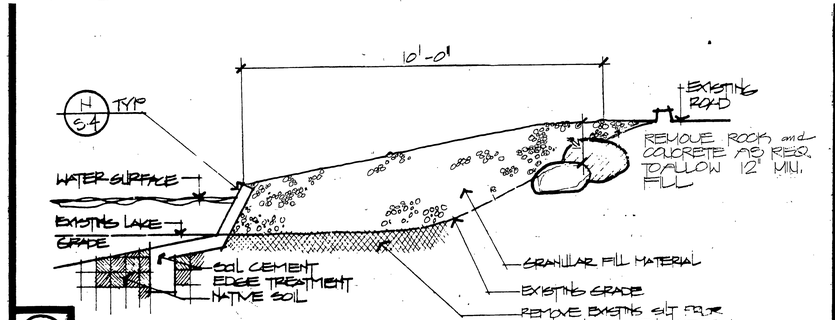

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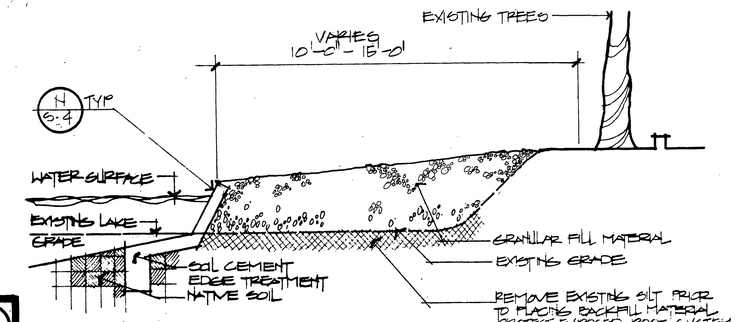

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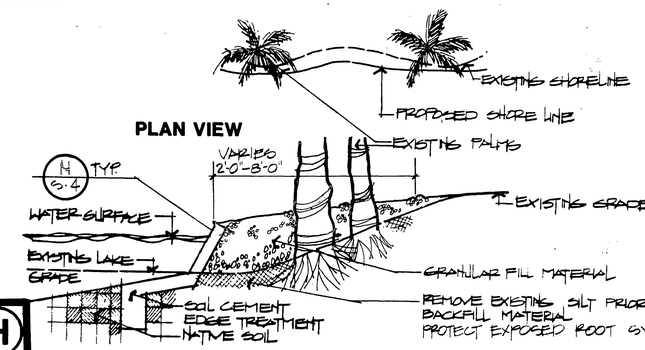

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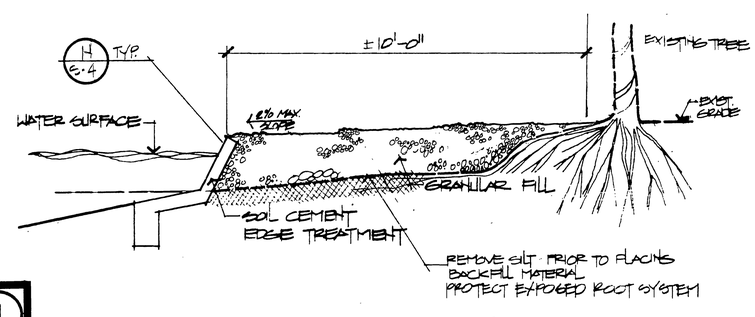

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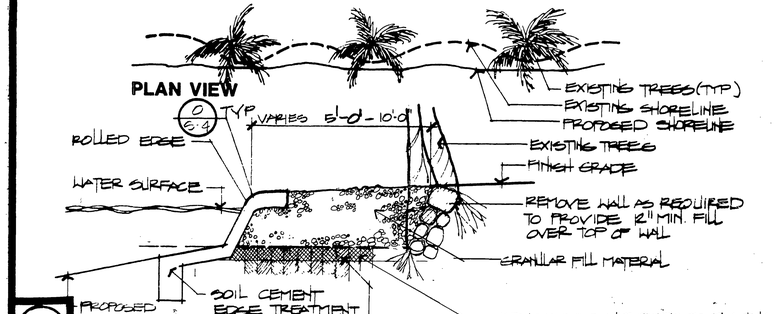

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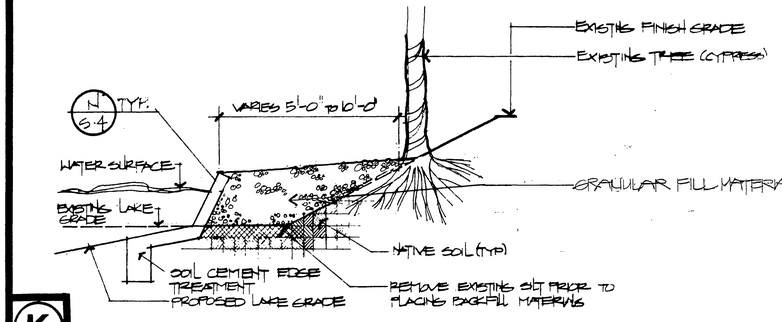

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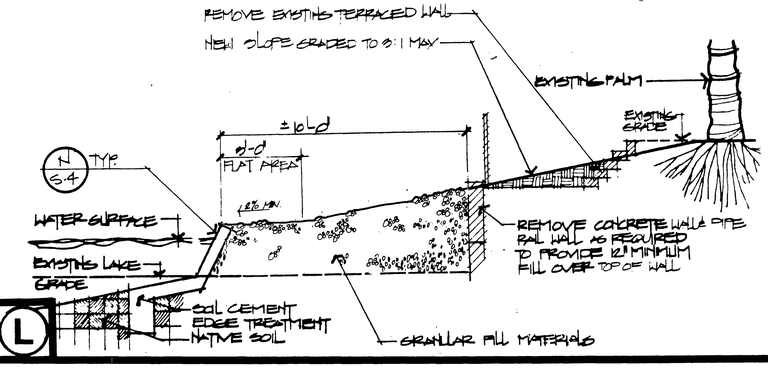

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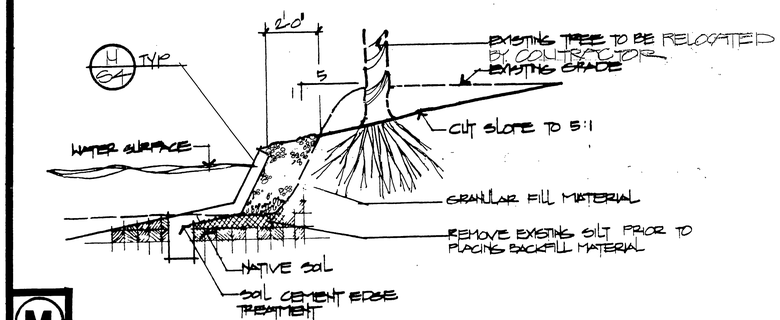


M

△ ALL ROCK shown shall be rounded grey river boulders. One-third to be minimum three (3) foot in diameter, one-third to be minimum two (2) foot in diameter, and the remaining third to be minimum eighteen (18) inches in diameter. Interior area of cobbled swale to be river cobbles, minimum four (4) inches to maximum eight (8) inches in diameter, two (2) layers deep.

REGISTERED LANDSCAPE ARCHITECT WAYNE M. FLORIAN NO. 1681 RENEWAL 8/31/07 STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE
△	PER ADDENDUM NO. ONE	RMA	8/14/06

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PARK DEPARTMENT		

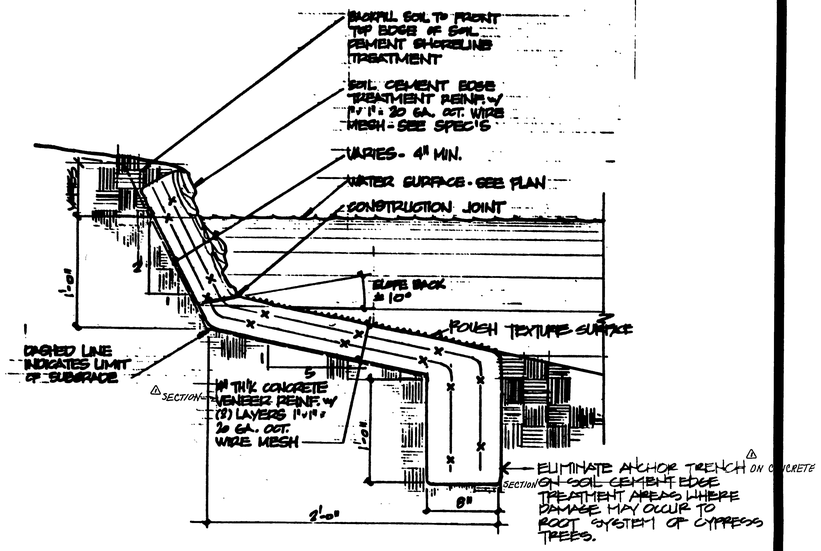
APPROVED BY
DATE

FAIRMOUNT LAKES REHABILITATION II
SHORELINE STABILIZATION DETAILS

ACCOUNT NO.
S-3
SHEET 14 OF 24
D-431

HORIZ. SCALE: 1" = NTS VERT. SCALE: 1" =

INDEX NO.



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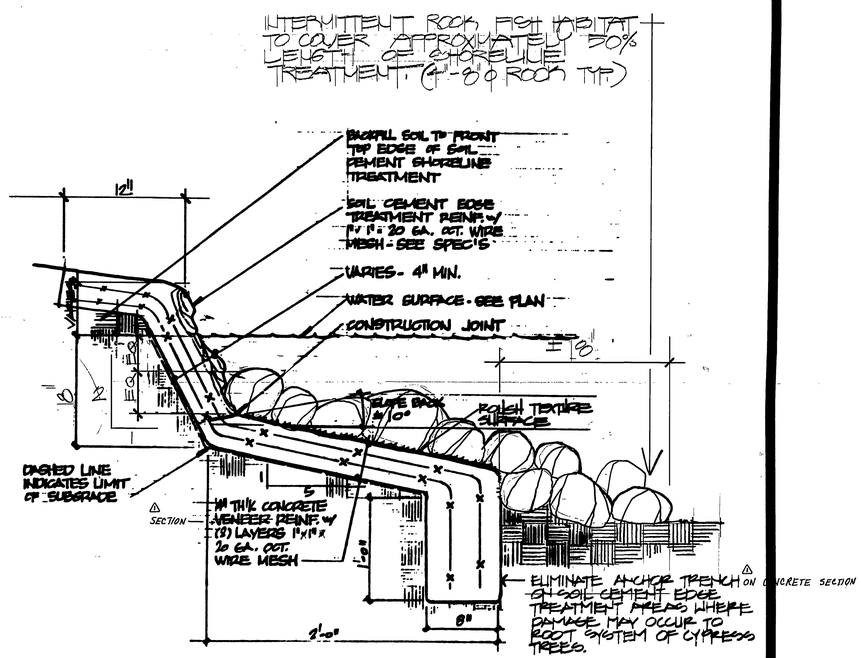

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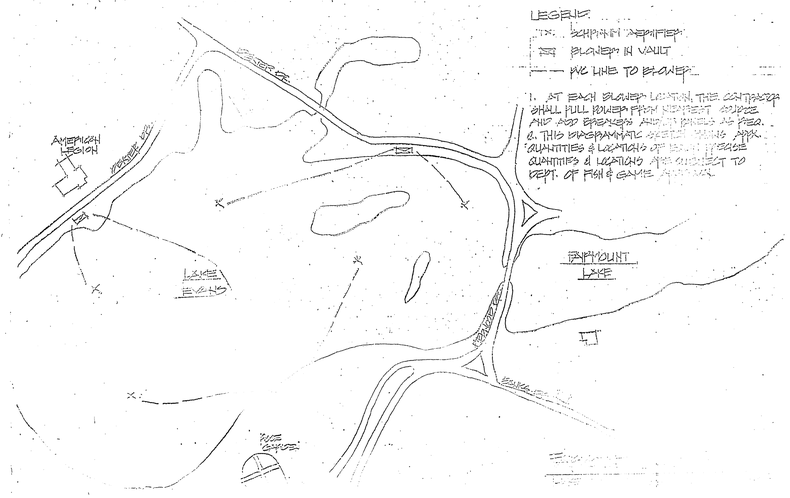

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE
△	PER ADDENDUM NO. ONE	RMcL	8/14/86

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY ____
DATE ____

FAIRMOUNT LAKES REHABILITATION
SHORELINE STABILIZATION DETAILS

HORIZ. SCALE: 1" = NTS VERT. SCALE: 1" =

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ACCOUNT NO.
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DEXTER DRIVE

EXISTING IRRIGATION SYSTEM THIS AREA TYPICAL

A MATCHLINE SEE SHT. T-2 A

SAVE PALM IN WATER

BROWN LAKE

NO GRADING — LIMIT OF GRADING

R T-3 TYPICAL AT ALL CYPRESS

R T-3 TYPICAL AT ALL CYPRESS

EXISTING IRRIGATION SYSTEM THIS AREA TYPICAL

FIELD LANE DRIVE

DEXTER DRIVE

T T-3

LAKE EVANS

REDWOOD DRIVE

TREE PROTECTION NOTES:

1. EXISTING WATER OBSERVATION WELLS SHALL BE INSPECTED TWICE A WEEK DURING LAKE CONSTRUCTION TO DETERMINE GROUND WATER CONDITION
2. ALL WORK WITHIN THE TREE PROTECTION ZONE AND AROUND EXISTING TREES SHALL BE UNDER THE DIRECTION OF A HORTICULTURIST SELECTED BY THE CITY OF RIVERSIDE. NO HEAVY EARTH MOVING EQUIPMENT SHALL BE ALLOWED IN THIS AREA.
3. DO NOT UNCOVER ROOT SYSTEM AREAS THAT CANNOT BE BACKFILLED AND WATERED IN THE SAME DAY.
4. COVER ALL EXPOSED ROOTS IN LAKE BOTTOM WITH BURLAP AND KEEP MOIST AT ALL TIMES.
5. SEE ENGINEERING PLANS FOR TREES TO BE TRANSPLANTED.

LEGEND

- ***** EXISTING WATER OBSERVATION WELLS. VERIFY NUMBER & LOCATION W/ CITY
- NEW SHORELINE
- SHORELINE FILL AREA
- ROOT PROTECTION ZONE
- EXISTING TREES, SEE SHT. T-2 FOR PLANT LEGEND
- DETAIL REFERENCE, SEE SHT. T-3

NO GRADING — LIMIT OF GRADING

R T-3 TYPICAL AT ALL CYPRESS

EXISTING IRRIGATION SYSTEM THIS AREA TYPICAL

S T-3 ROOT PROTECTION ZONE (TYP.)

R T-3 TYPICAL AT ALL CYPRESS

SAVE PALM IN WATER

B MATCHLINE SEE SHEET T-2 B

SCALE: 1":60'

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APP.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED	BY	DATE
PARK DEPARTMENT		

APPROVED BY

DATE ____

FAIRMOUNT LAKES REHABILITATION II

LAKE EVANS TREE PROTECTION PLAN

HORIZ SCALE 1" = 60' VERT SCALE 1" = -

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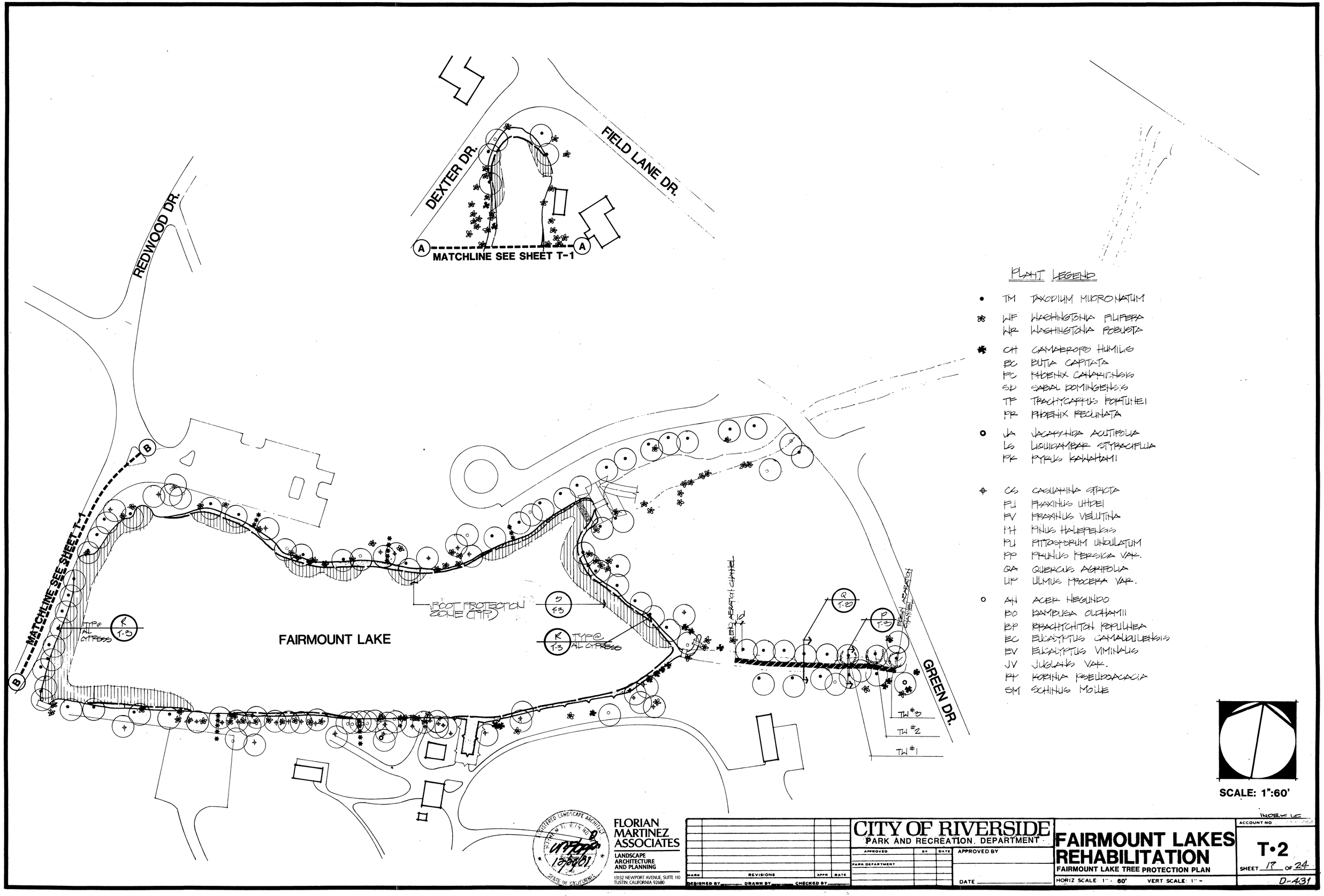

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

REGISTERED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED	BY	DATE
PARK DEPARTMENT		

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION

FAIRMOUNT LAKE TREE PROTECTION PLAN

HORIZ SCALE 1" - 60' VERT SCALE: 1" -

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T•2

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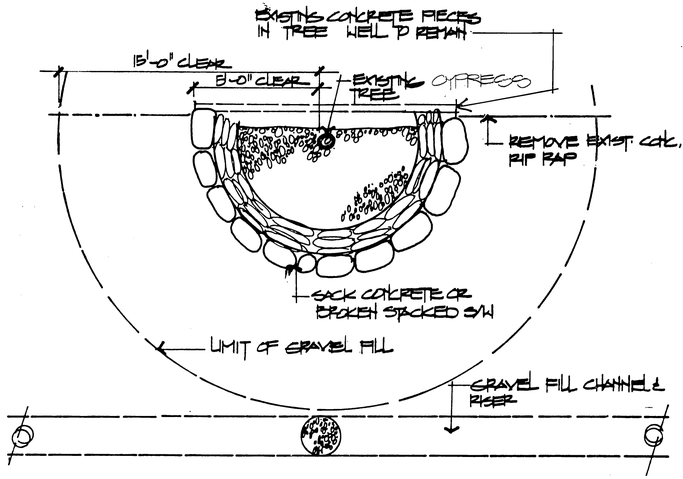

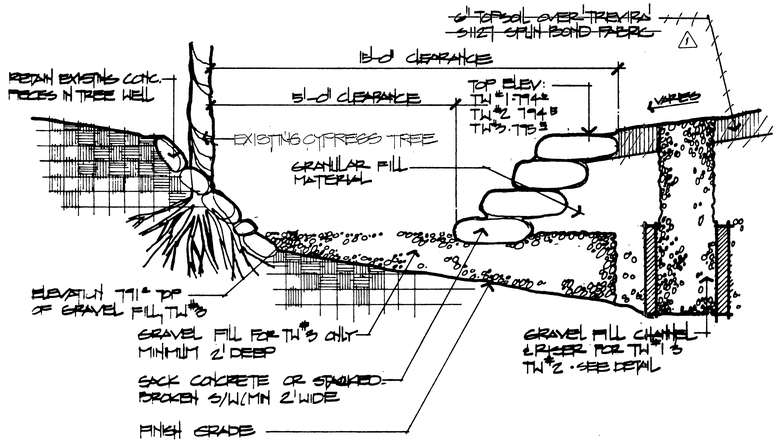

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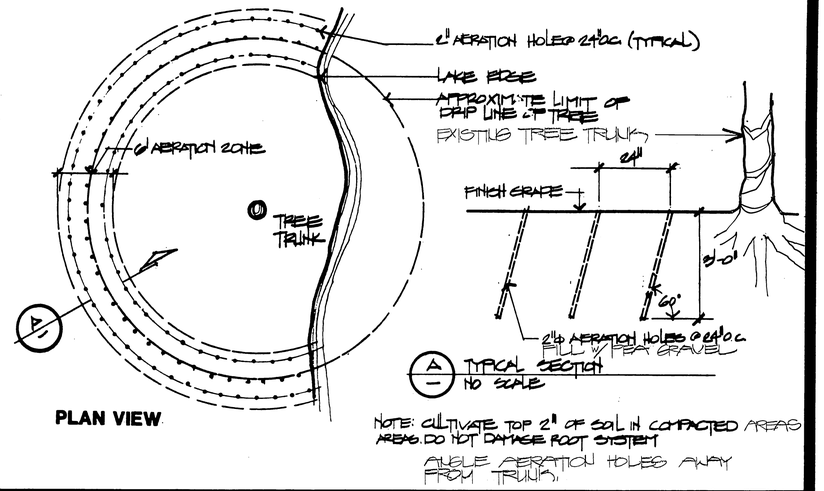

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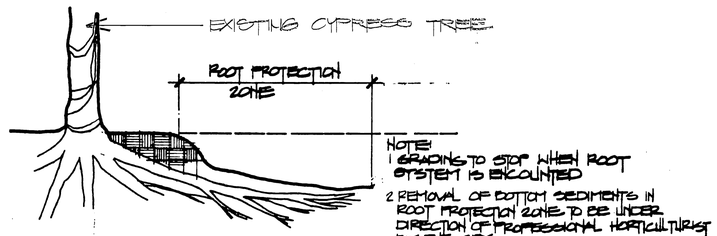
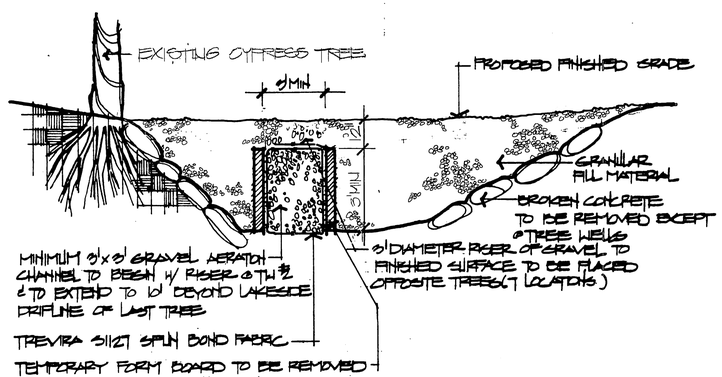


NOTE:
1. GRADING TO STOP WHEN ROOT SYSTEM IS ENCOUNTED
2. REMOVAL OF BOTTOM SEDIMENTS IN ROOT PROTECTION ZONE TO BE UNDER DIRECTION OF PROFESSIONAL HORTICULTURIST BY THE CITY. GREAT CARE WILL HAVE TO BE TAKEN WHEN REMOVING SILT AND OTHER MATTER FROM THE LAKE EDGE TO AVOID DAMAGE TO ROOT SYSTEM.
3. WHEN LAKE LEVEL IS LOWERED & DURING CONSTRUCTION COVER EXPOSED ROOTS WITH WET BURLAP; KEEP WET CONSTANTLY.

S



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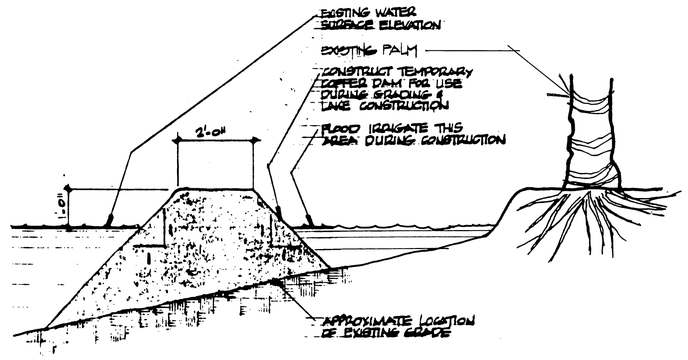


T

REGISTERED LANDSCAPE ARCHITECT WAYNE M. FLORIAN NO. 1161 Signature Date STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE
1	PER ADDENDUM NO. ONE	RMcL	8/14/84

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

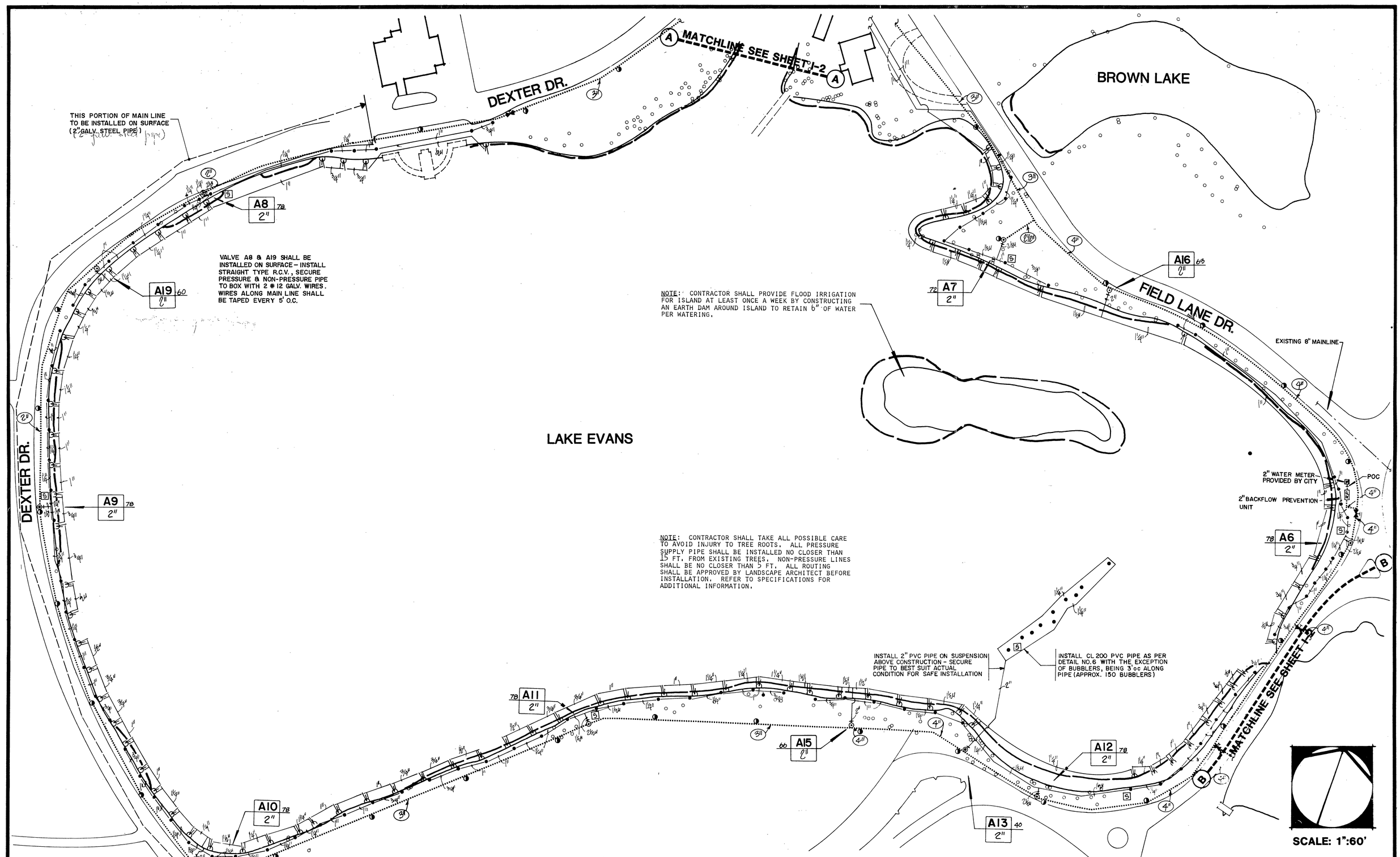
APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY
DATE

FAIRMOUNT LAKES REHABILITATION II
TREE PRESERVATION DETAILS

HORIZ. SCALE: 1" = NTS VERT. SCALE: 1" =

ACCOUNT NO.
T•3
SHEET 18 OF 24
D-431



AIC
ASSOCIATED IRRIGATION CONSULTANTS
2804 SEPULVEDA BOULEVARD LOS ANGELES CALIFORNIA 90025
(213) 477-6525

REGISTERED LANDSCAPE ARCHITECT
WAYNE M. FLORIAN NO. 2
Signature
Date
STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY:

DATE ____

FAIRMOUNT LAKES REHABILITATION
IRRIGATION PLAN

HORIZ. SCALE N.T.S. VERT. SCALE: 1" =

ACCOUNT NO. I•1

SHEET 19 OF 24

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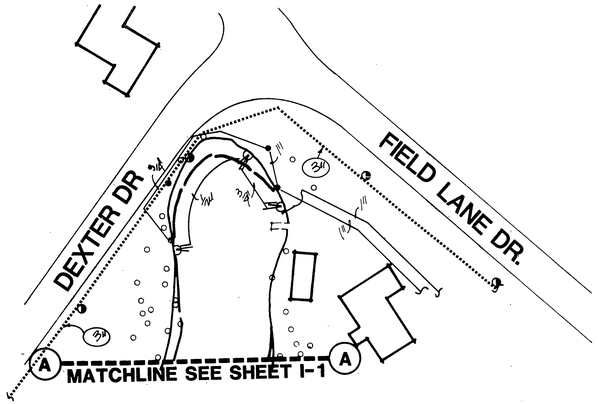
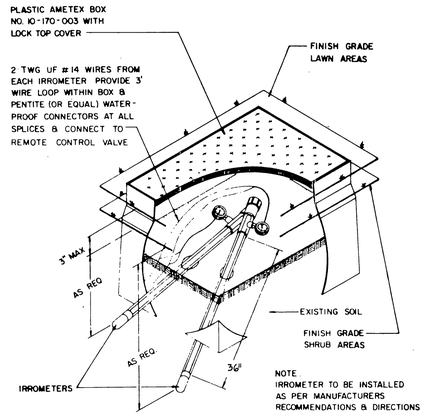
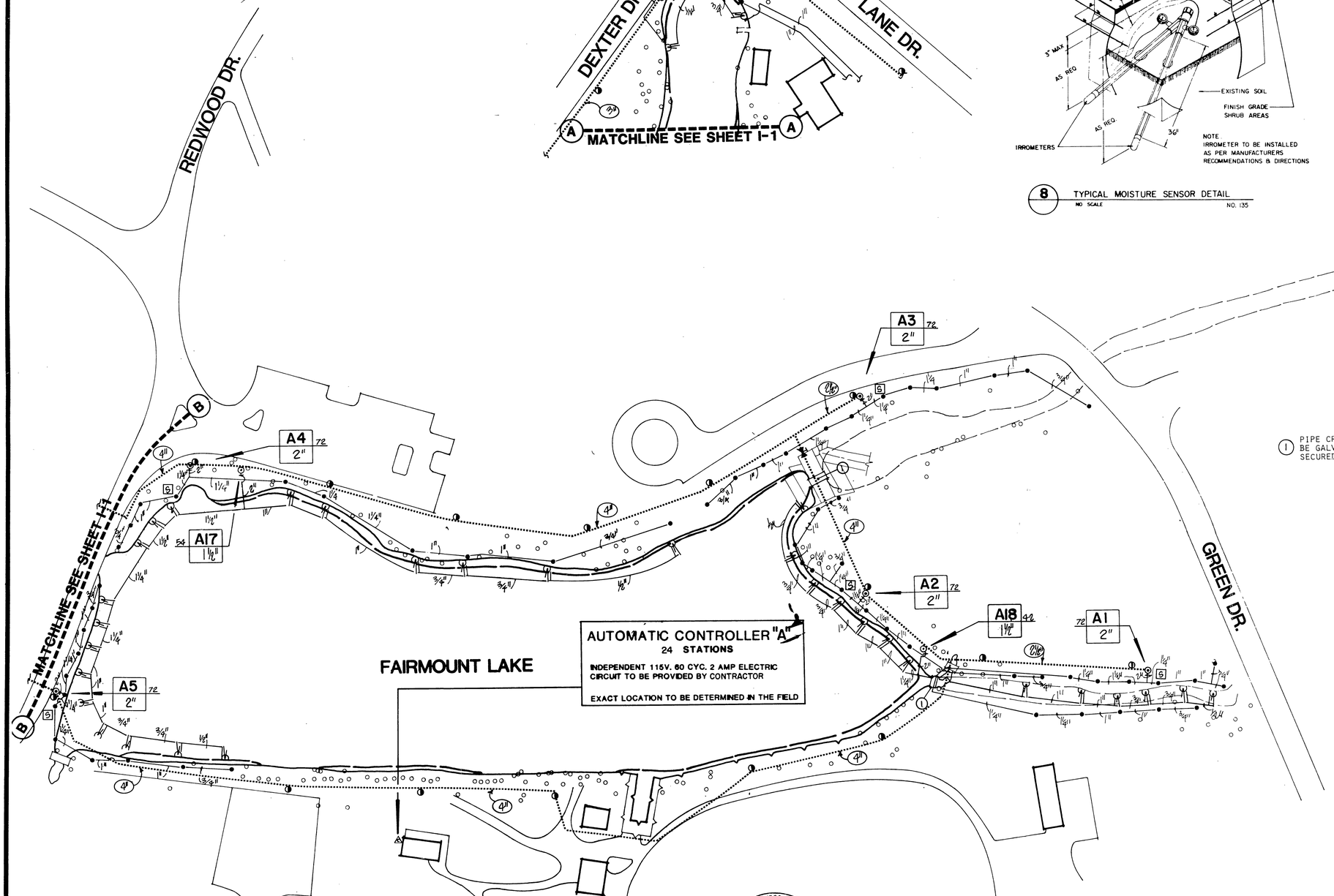




8 TYPICAL MOISTURE SENSOR DETAIL
NO SCALE NO. 135



(1) PIPE CROSSING BRIDGE TO BE GALVANIZED STEEL SECURED UNDER BRIDGE.

SCALE: 1":60'

AIC
ASSOCIATED IRRIGATION CONSULTANTS
3094 SEPULVEDA BOULEVARD. LOS ANGELES CALIFORNIA 90025
(213) 477-6825

REGISTERED LANDSCAPE ARCHITECT WAYNE M. FLORIAN NO. 1782 STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

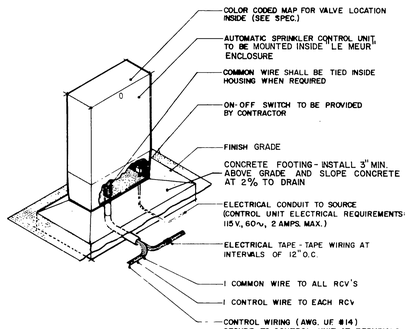
APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY: ____
DATE ____

FAIRMOUNT LAKES REHABILITATION
IRRIGATION PLAN

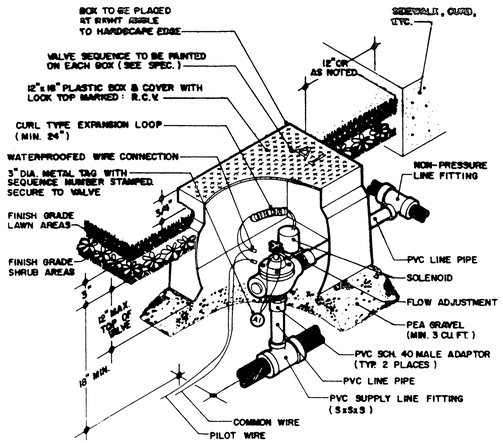
HORIZ. SCALE N.T.S. VERT. SCALE: 1" =

ACCOUNT NO. I•2
SHEET 20 OF 24
D-431



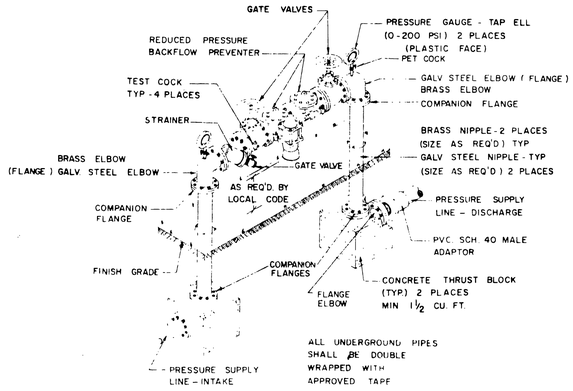
NOTE:
1. COMMON WIRE TO BE WHITE & CONTROL WIRE TO BE RED IN COLOR
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER & REMOTE CONTROL VALVE
3. CONTROL WIRING SEQUENCE CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES & AUTOMATIC SPRINKLER CONTROL UNIT STATION CONNECTION (SEQUENCE SHOWN ON DETAIL IS FOR REFERENCE ONLY SEE IRRIGATION PLAN FOR CORRECT VALVE SEQUENCE

1 TYPICAL AUTOMATIC SPRINKLER CONTROL ASSEMBLY WALL MOUNTED
NO SCALE 120-A



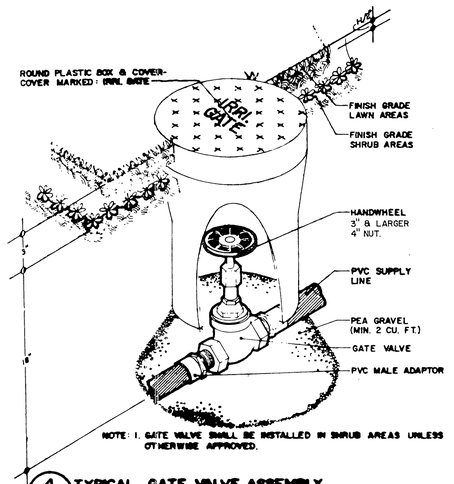
NOTE:
1) VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE APPROVED.
2) WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MIN. OF 3 FT. APART.
3) USE TEFLON TAPE ON ALL THREADED FITTINGS.

2 TYPICAL REMOTE CONTROL VALVE ASSEMBLY
NO SCALE INSTALLATION NOT PERTINENT TO VALVES A8 AND A19 JR-110-83



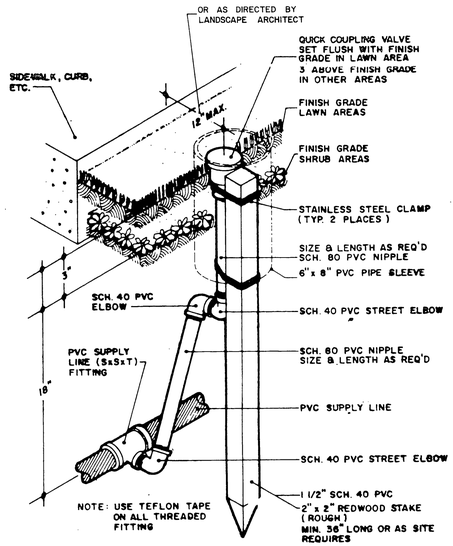
NOTE:
1. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 12" FROM WALLS, BUILDINGS ETC.
2. ALL ABOVE GROUND ASSEMBLY SHALL RECEIVE ONE (1) COAT RED LEAD PRIMER AND ONE (1) COAT PAINT AS SELECTED BY ARCHITECT
3. WHEN UNIT IS NEXT TO BUILDING, WALL, ETC., TEST COCKS ARE TO BE ON OUTSIDE

3 TYPICAL BACKFLOW PREVENTER ASSEMBLY
NO SCALE 2½" OR LARGER



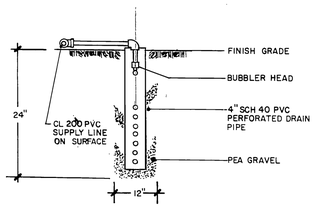
NOTE: 1. GATE VALVE SHALL BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE APPROVED.

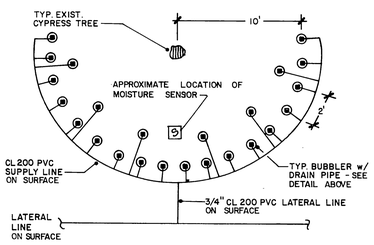
4 TYPICAL GATE VALVE ASSEMBLY
NO SCALE 2 1/2" OR SIZE OR SMALLER



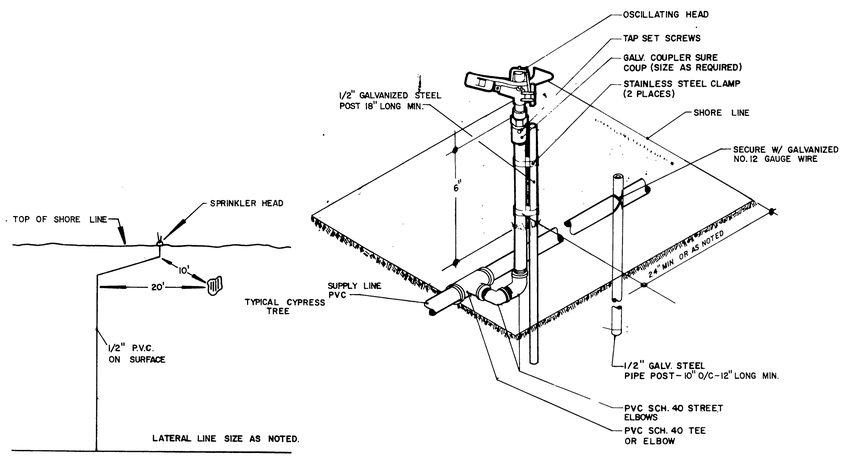
5 TYPICAL QUICK COUPLING VALVE ASSEMBLY
NO SCALE JR-103-83

NOTE: IF TREE IS LOCATED MORE THAN 20' AWAY FROM LAKE SHORE LINE BUBBLERS ARE TO BE INSTALLED TO ENCOMPASS TREE VERIFY WITH LANDSCAPE ARCHITECT BEFORE INSTALLING.





6 TYPICAL BUBBLER DETAIL



7 TYPICAL OSCILLATING HEAD ASSEMBLY & LOCATION

LEGEND

SYMBOLS	DESCRIPTION	MANUFACTURER & PART NO.	REFERENCE
P.O.C.	POINT OF CONNECTION		
2"	PRESSURE SUPPLY LINES & SIZE (2" & SMALLER)	SCHEDULE 40 P.V.C.	SPECIFICATION
4"	PRESSURE SUPPLY LINE & SIZE (2-1/2" & LARGER)	CLASS 200 P.V.C.	SPECIFICATION
1/2"	NON-PRESSURE LINES & SIZE ON SURFACE AS NOTED	CLASS 200 P.V.C.	SPECIFICATION
	DENOTES WIRE SLEEVE & SIZE	CLASS 200 P.V.C.	
A1 / 2"	CONTROLLER SEQUENCE GALLONS PER MINUTE REMOTE CONTROL VALVE SIZE		
	AUTOMATIC CONTROLLER	GRISWOLD NO. 2306-24 STA.(PED. MOUNT)	DETAIL NO. 1
	REMOTE CONTROL VALVES	GRSIWOLD NO. 2000 SERIES	DETAIL NO. 2
	QUICK COUPLING VALVES	RAIN BIRD NO. 44 LVC	DETAIL NO. 5
RP	BACKFLOW PREVENTION UNIT (BPU)	CLAYTON RP - 4"	DETAIL NO. 3
	BUBBLER HEADS	RAIN BIRD NO. 1401	DETAIL NO. 6
	GATE VALVES - LINE SIZE	NIBCO OR EQUAL	DETAIL NO. 4
	PART CIRCLE OSCILLATING HEAD	RAIN-BIRD NO. 25 PJ. SPECIAL 9/64 NOZZLE	DETAIL NO: 7
S	MOISTURE SENSOR UNIT	IRROMETER - TGA -	DETAIL NO. 8

AIC
ASSOCIATED IRRIGATION CONSULTANTS
2014 SEPULVEDA BOULEVARD. LOS ANGELES. CALIFORNIA 90025
(213) 477-6825

REGISTERED LANDSCAPE ARCHITECT WAYNE M. FLORIAN NO. 1220 STATE OF CALIFORNIA
Expiration Date: 12/31/83

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

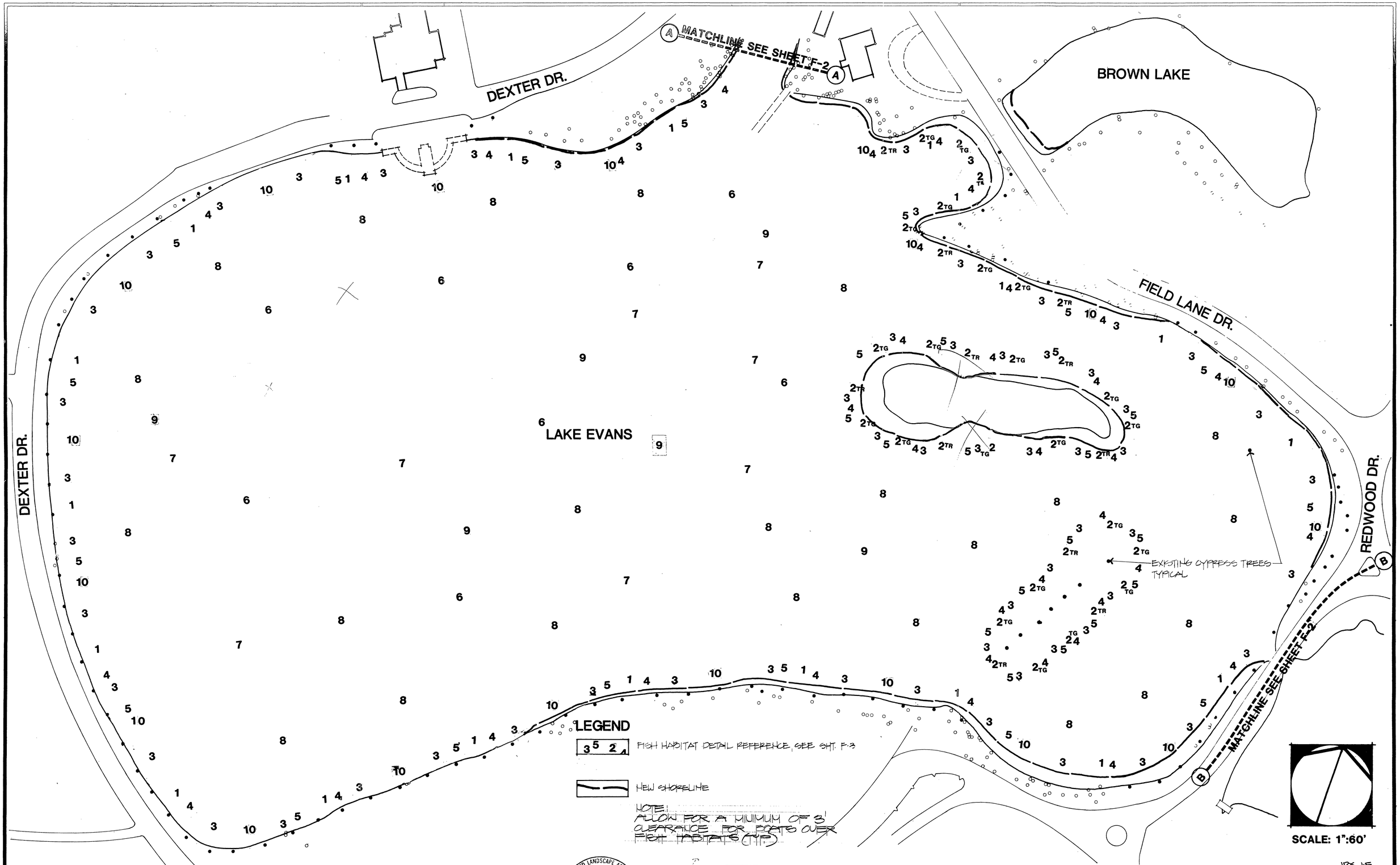
APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY: ____
DATE ____

FAIRMOUNT LAKES REHABILITATION
IRRIGATION DETAILS

HORIZ. SCALE N.T.S. VERT. SCALE: 1" =

ACCOUNT NO. 10x WE
I•3
SHEET 21 OF 24
D-431



REGISTERED LANDSCAPE ARCHITECT
WAYNE M. FLORIAN NO. 1
STATE OF CALIFORNIA
Signature
12/20/83
Date

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY:

DATE ____

FAIRMOUNT LAKES REHABILITATION

LAKE EVANS FISH HABITAT PLAN

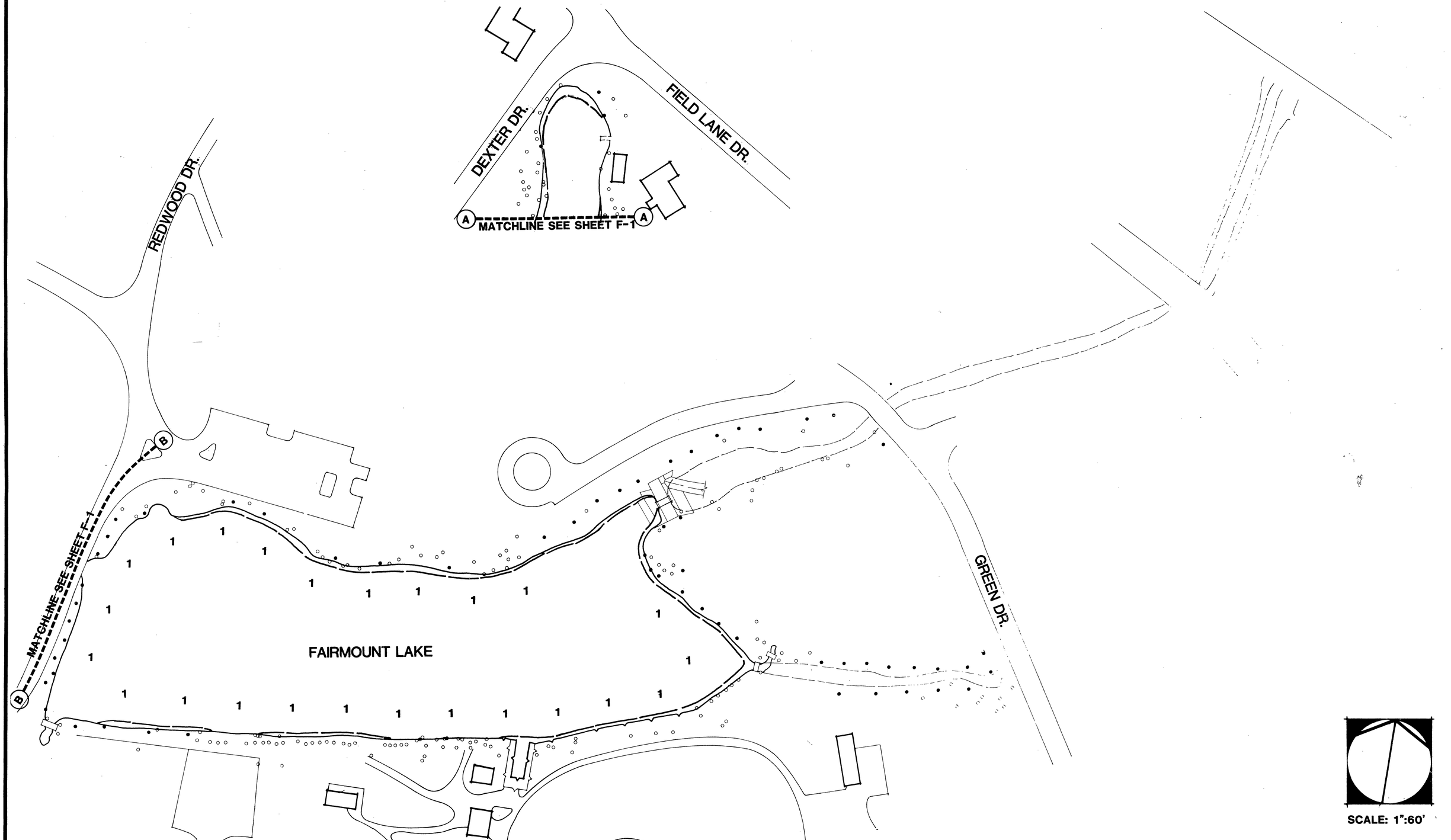
HORIZ. SCALE N.T.S. VERT. SCALE: 1" =

ACCOUNT NO. 10X WF

F•1

SHEET 22 OF 24

D-431



REGISTERED LANDSCAPE ARCHITECT
WAYNE M. FLORIAN NO. 2
Signature
12/20/83
Date
STATE OF CALIFORNIA

FLORIAN MARTINEZ ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
13132 NEWPORT AVENUE, SUITE 110
TUSTIN, CALIFORNIA 92680

MARK	REVISIONS	APPR	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT

APPROVED BY	DATE	BY	APPROVED BY:
PARK DEPARTMENT			DATE

FAIRMOUNT LAKES REHABILITATION

FAIRMOUNT LAKE FISH HABITAT PLAN

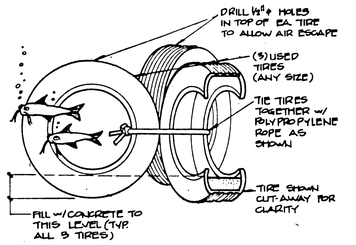
HORIZ. SCALE N.T.S. VERT. SCALE: 1" =

ACCOUNT NO. 10X WF

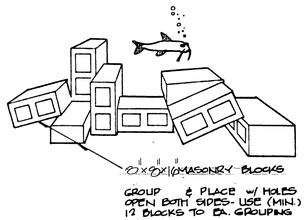
F•2

SHEET 23 OF 24

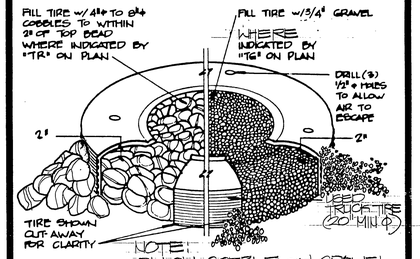
D-431



1 **3-STAR TIRE GROUP N.T.S.**

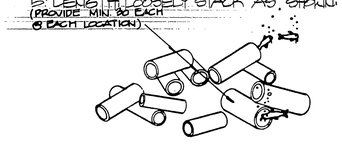


3 **BUILDING BLOCK HABITAT N.T.S.**

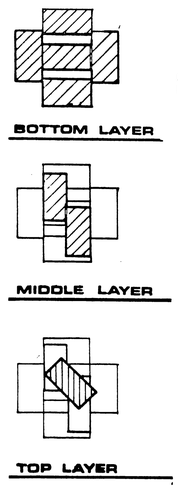


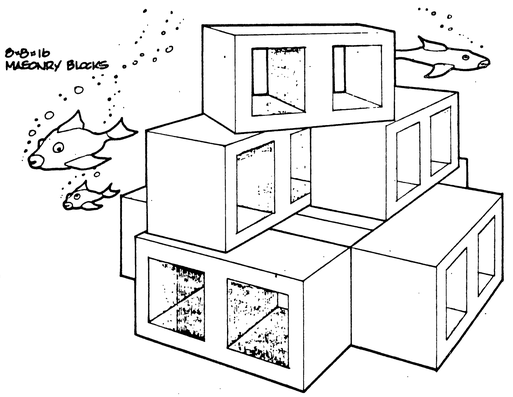
NOTE: ALLOW COBBLE and GRAVEL TO SPILL OVER RIM OF TIRE

2 **SINGLE TIRE HABITAT N.T.S.**

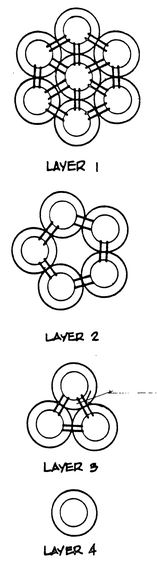


4 **PIPE HABITAT N.T.S.**

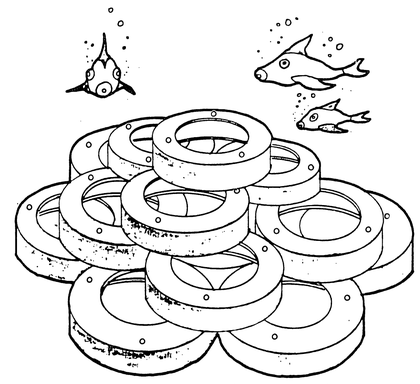




6 **3 LAYER BLOCK HABITAT N.T.S.**



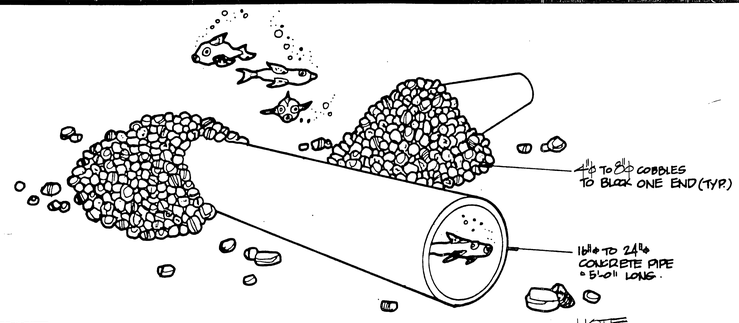
TIE TIRES TOGETHER W/ POLYPROPYLENE ROPE AS SHOWN, USING SQUARE KNOTS.



NOTE: TIE EACH LAYER OF TIRES TO THE NEXT W/ POLYPROPYLENE ROPE. MIN. 3 LOCATIONS EACH LAYER.

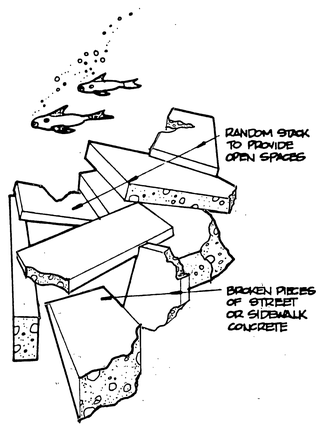
DRILL ½"ø HOLES TO ALLOW FOR AIR TO ESCAPE, 3 MIN EA. TIRE.

9 **LAYER REEF PYRAMID N.T.S.**

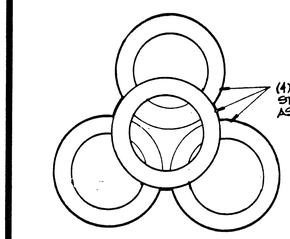


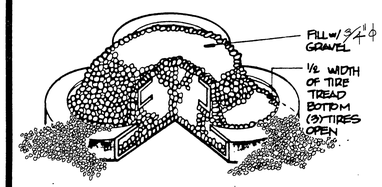
NOTE 1 PIPE PER LOCATION TYP.

5 **COBBLE & PIPE HABITAT N.T.S.**



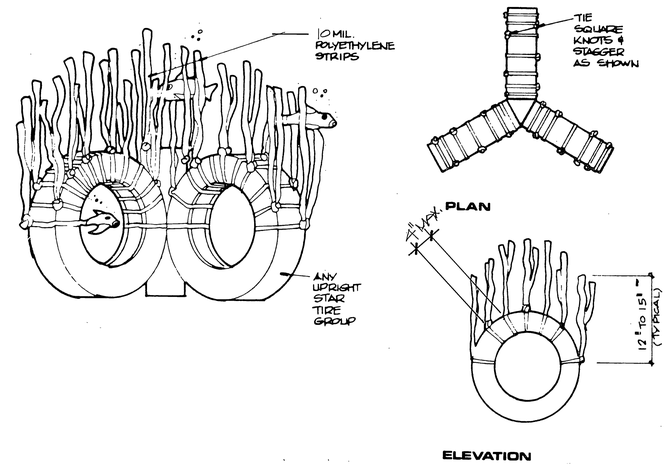
7 **BROKEN CONCRETE HABITAT N.T.S.**



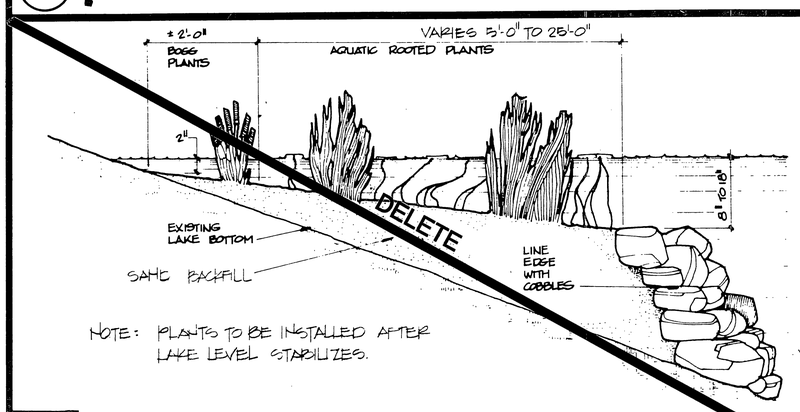


NOTE: ALLOW GRAVEL TO SPILL OVER RIMS OF TIRES

8 **2 LAYER PYRAMID N.T.S.**



10 **ARTIFICIAL AQUATIC PLANT HABITAT N.T.S.**



NOTE: PLANTS TO BE INSTALLED AFTER LAKE LEVEL STABILIZES.

11 **PLANTER BED N.T.S.**

12/31/91

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TUSTIN, CALIFORNIA 92680

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APPROVED BY	DATE	BY
PARK DEPARTMENT		

APPROVED BY

DATE

FAIRMOUNT LAKES REHABILITATION
FISH HABITAT DETAILS

ACCOUNT NO. F•3

SHEET 24 OF 24

HORIZ. SCALE: 1" = NTS VERT. SCALE: 1" =

D-431