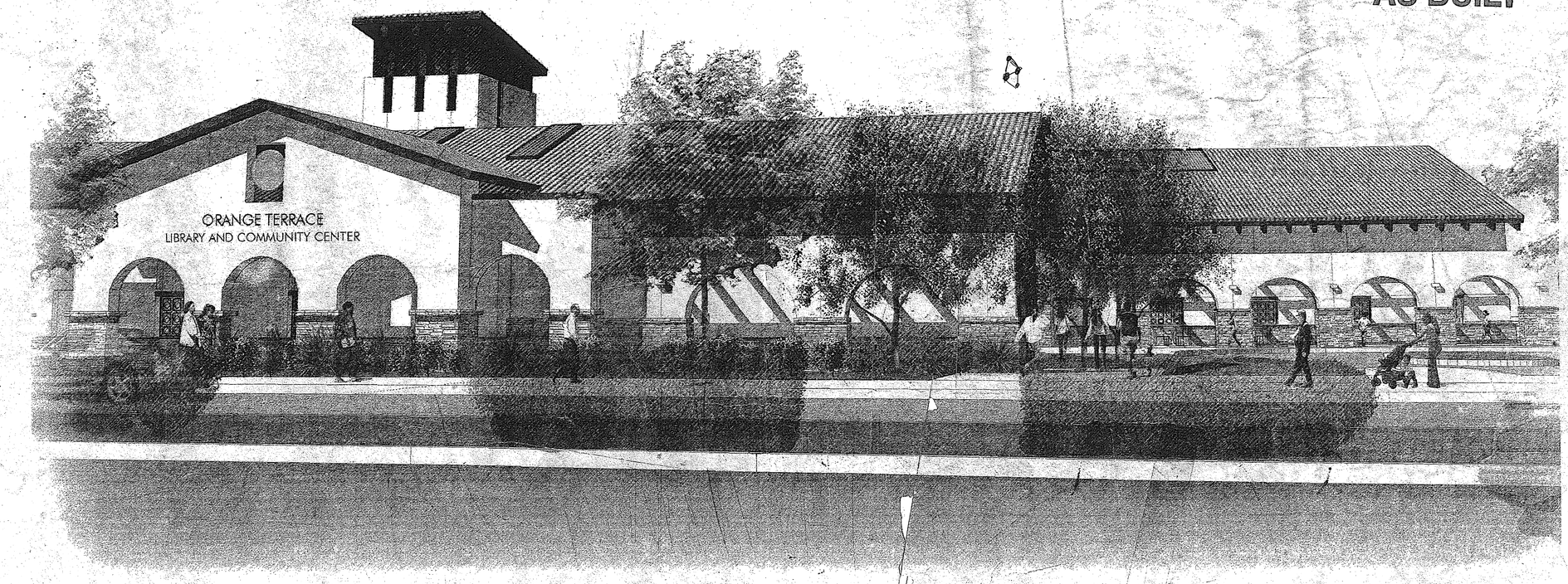
AS BUILT



AS BUILT

HMC

ORANGE TERRACE LIBRARY AND COMMUNITY CENTER

Building Department Resubmittal #2

HMC Project # 2340001000

June 26, 2007

* APPROVED *
CITY OF RIVERSIDE
BUILDING & SAFETY

THIS APPROVAL DOES NOT AUTHORIZE VIOLATION OF ANY PROVISIONS OF STATE OR LOCAL BUILDING REGULATIONS NOR DOES IT PREVENT REQUIRING CORRECTIONS OF ANY ERROR SUBSEQUENTLY IDENTIFIED ON THESE PLANS OR CONSTRUCTED DUE TO ERRORS IN THESE PLANS

Permit: 07-1397
Date: 07-20-07
By: Bachar Kaliyah (SSR)

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT

ORANGE TERRACE LIBRARY & COMMUNITY CENTER

20010 ORANGE TERRACE PARKWAY, RIVERSIDE, CALIFORNIA 92508

HMC ARCHITECTS
Architecture Interiors Planning
3546 CONCOURS STREET
ONTARIO, CALIFORNIA 91764
Telephone: 909 . 989 . 9979
Fax: 909 . 483 . 1400
www. hmcarchitects .com

ARCHITECTURAL SYMBOLS

Symbol	Description
Room Name — OFFICE; Room # — A109	ROOM NAME & NUMBERS
Height Above Finished Floor — +9'-0"	CEILING HEIGHT
Keynote # — 1	KEYNOTE
Door # — A109A	DOOR NUMBER
Window # — B	WINDOW NUMBER
Detail #; Sheet #	DETAIL NUMBER
Elevation #; Sheet # — XX / AX.X	EXTERIOR ELEVATION
Detail # & Section #; Sheet #	WALL SECTION & DETAIL NUMBER
Section #; Sheet #	BUILDING SECTION
Detail #; Elevation #; Sheet # — A, B, C, D; XX / AX.X	INTERIOR ELEVATIONS
Segment #; Sheet # — A / A-01, B / A-02	SEGMENT CUT (MATCH LINE)
– – – – – – – –	INDICATES EXISTING CONDITION TO BE REMOVED
Revision Cloud; Revision Tag — 1	REVISION CLOUD & TAG
Plan North; True North — TRUE NORTH	NORTH ARROW
Elevation — ±0" F.G.	CONTROL / DATUM POINT

PROJECT DATA

SITE AREA:

.9 ACRES

BUILDING AREA: (SEE SHEET G2.2 FOR INDIVIDUAL BUILDING AREA) 1

VICINITY MAP

ARCHITECTURAL ABBREVIATIONS

x	BY
&	AND
%	PERCENT
[	CHANNEL
L	ANGLE
@	AT
℄	CENTERLINE
Ø	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER
A.	AIR
A.B.	ANCHOR BOLT
A.C.	ASPHALTIC CONCRETE
ACC.	ACCESSIBLE
ACOUS.	ACOUSTICAL
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AFS	AUTOMATIC FIRE SPRINKLERS
AGGR.	AGGREGATE
AL.	ALUMINUM
A.P.	ACCESS PANEL
ANES.	ANESTHESIA
APPROX.	APPROXIMATE
APPT.	APPOINTMENTS
ARCH.	ARCHITECTURAL/ARCHITECT
ASPH.	ASPHALT
ASPH. CONC.	ASPHALTIC CONCRETE
ASSN.	ASSOCIATION
ASST.	ASSISTANT
ASSY.	ASSEMBLY
A.V.	AUDIO VISUAL
AVE.	AVENUE
AVW	AT VARIANCE WITH
B.A.S.	BUILDING AUTOMATION SYSTEM
B.C.	BEGINNING OF CURVE
BD.	BOARD
BETW.	BETWEEN
BITUM.	BITUMINOUS
BK.	BACKING
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
CAB.	CABINET
CAD.	CADMIUM
CATH.	CATHETERIZATION
C.B.	CATCH BASIN
C/B	CODE BLUE
C. TO C.	CENTER TO CENTER
C.C.	CRASH CART
C.C.T.	CUBICLE CURTAIN TRACK
C.C.TV.	CLOSED CIRCUIT TELEVISION
C.D.	CLARIFICATION DRAWING
C.D.P.	CUP DISPENSER
CEM.	CEMENT
CER.	CERAMIC
C.F.	CUBIC FEET
C.F.C.I.	CONTRACTOR-FURNISHED, CONTRACTOR INSTALLED
C.F.M.	CUBIC FEET PER MINUTE
C.G.	CORNER GUARD
C.I.	CAST IRON
CKT.BKR.	CIRCUIT BREAKER
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.L.S.	CART LIFT SYSTEM
CNTR.	COUNTER
C.O.	CLEAN OUT
CO^2	CARBON DIOXIDE
COL.	COLUMN
COMB.	COMBINATION
COMM.	COMMUNICATION
COMP.	COMPACTOR
CONC.	CONCRETE
COND.	CONDITIONED
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORP.	CORPORATION
CORR.	CORRIDOR
C.P.U.	CENTRAL PROCESSING UNIT
C.R.	CURTAIN ROD
CRT.	COMPUTER TERMINAL
C/S	CLINIC SINK
C.SP.	COMBINATION STANDPIPE
CTR.	CENTER
CTSK.	COUNTERSUNK
C.T.	CERAMIC TILE
C.W.	COLD WATER
C.YD.	CUBIC YARD - UNIT OF MEASUREMENT
C.IN.	CUBIC INCH - UNIT OF MEASUREMENT
d	PENNY
D.	DEEP
D.B.	DRESSING BOOTH
DBL.	DOUBLE
D.C.	DOOR CLOSER
D.C.	DOOR CLOSER
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DICT.	DICTATION
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
D.P.	DISABLED PERSON
DR.	DOOR
DS.	DOWNSPOUT
D.SP.	DRY STANDPIPE
DW.	DUMBWAITER
DWG.	DRAWING
DWR.	DRAWER
E	EAST
(E)	EXISTING
EA.	EACH
E.C.	EXCHANGE CART
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXAM.	EXAMINATION
EXCH.	EXCHANGE
EXH.	EXHAUST
EXP.	EXPANSION
EXPO.	EXPOSED
EXST.	EXISTING
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.A.U.	FORCED AIR UNIT
F.B.	FLAT BAR
F.C.	FURRING CHANNEL
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
F.H.C.	FIRE HOSE CABINET
F.H.M.S.	FLATHEAD MACHINE SCREW
F.H.S.M.S.	FLATHEAD SHEET METAL SCREW
F.H.W.S.	FLATHEAD WOOD SCREW
F.I.	FILM ILLUMINATOR
FIG.	FIGURE
FIN.	FINISH
FIXT.	FIXTURE
FL.	FLOOR
F.L.	FLOW LINE
FLG.	FLOORING
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.N.V.	FEMININE NAPKIN VENDOR
F.N.D.	FEMININE NAPKIN DISPOSAL
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.R.	FIRE RETARDANT
F.RD.	FIRE RATED
FP.	FIREPROOFING
FRZ.	FREEZER
F.S.	FINISH SURFACE
F/S	FLOOR SINK
FT. OR (')	FOOT OR FEET
F.T.D.	FACIAL TISSUE DISPENSER
FTG.	FOOTING
FU.S.	FULL SIZE
FURN.	FURNITURE
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
H.	HIGH
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDWE.	HARDWARE
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HOSP.	HOSPITAL
H.P.	HORSE POWER
HTR.	HEATER
H.V.A.C.	HEATING, VENTILATING, AIR CONDITIONING
I.B.	INSTRUCTION BULLETIN
I.D.	INSIDE DIAMETER
ILLUM.	ILLUMINATOR
IN. OR (")	INCH
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
ISOL.	ISOLATION
IV.	INTRAVENOUS
IV.T.	INTRAVENOUS INJECTION TRACK
JAN.	JANITOR
JT.	JOINT
J. BOX	JUNCTION BOX
KIT.	KITCHEN
KEYBD.	KEYBOARD
L.	LEFT
LAB.	LABORATORY
LAM.	LAMINATE
LAT.	LATERAL
LAV.	LAVATORY
LB	POUND
L.C.	LINEN CART
L.G.	LEAD GLASS
L.H.	LINEN HAMPER
LIN.	LINEAR
LKR.	LOCKER
L.L.	LEAD LINED
LOC.	LOCATION
L.P.	LOW POINT
LS.	LANDSCAPING
LT.	LIGHT
MACH.	MACHINE
MARK. BD.	MARKER BOARD
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MINERAL CORE
MCW.O.	MICROWAVE OVEN
MECH.	MECHANICAL
MEMB.	MEMBRANE
MED.	MEDICAL, MEDICATION
MED. STA.	MEDICATION STATION
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MICRO. STA.	MICROSCOPE STATION
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
M.S.	MACHINE SCREW
MTD.	MOUNTED
MTR.	MONITOR
MUL.	MULLION
M.U.	MASONRY UNITS
N	NORTH
(N)	NEW
NAT.	NATURAL
N.A.T.V.	NOT A TRUE VIEW
N.C.	NURSE CALL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
NOURISH.	NOURISHMENT
N_2O	NITROUS OXIDE
N.R.	NON-RATED
N.S.	NURSE STATION
N.T.S.	NOT TO SCALE
OA.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER (DIMENSION)
O.DS.	OVERFLOW DOWNSPOUT
OFF.	OFFICE
O.F.C.I.	OWNER-FURNISHED, CONTRACTOR-INSTALLED
O.F.O.I.	OWNER-FURNISHED, OWNER-INSTALLED
O.H.	OVERHEAD
OPNG.	OPENING
OPP. H.	OPPOSITE HAND
O	OXYGEN
O.R.	OPERATING ROOM
O.T.S.	OPEN TO STRUCTURE
P.BD.	PARTICLE BOARD
PART.	PARTIAL
PAT.	PATIENT
PAT. TLT.	PATIENT TOILET
P.A.	PUBLIC ADDRESS
PC.	PIECE
P.C.	PERSONAL COMPUTER
PERF.	PERFORATED
PERM.	PERMANENET
PL.	PLATE
PL. GL.	PLATE GLASS
P. LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLCS.	PLACES
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
P.M.	PATIENT WARDROBE
PNEU.	PNEUMATIC
P.O.C.	POINT OF CONNECTION
P.O.T.	PATH OF TRAVEL
PORC.	PORCELAIN
POS.	POSITION
PR.	PAIR
PRCST.	PRE-CAST
PREFAB.	PREFABRICATED
PREP.	PREPARATION
PRO.	PROCESSOR
PROC.	PROCESSING STATION
PROJ.	PROJECTION
PRTR.	PRINTER
PR.TR.	PRESSURE TREATED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.R.V.	PRESURE REDUCING VALVE
PT.	POINT
P.T.D/R.	COMBINATION PAPER TOWEL DISPENSER AND RECEPTACLE
PTN.	PARTITION
P.T.R.	PAPER TOWEL RECEPTACLE
P.T.S.	PNEUMATIC TUBE SYSTEM
PUB.	PUBLIC
P.V.C.	POLYVINYL CHLORIDE
PVMT.	PAVEMENT
Q.T.	QUARRY TILE
QUEU.	QUEUING AREA
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
RDWD.	REDWOOD
REC.	RECESSED OR RECEPTACLE
RECEP.	RECEPTION
REF.	REFERENCE
REFR.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCED
REQ.	REQUIRED
RESIL.	RESILIENT
RET.	RETURN
R.H.	ROBE HOOK
RM.	ROOM
R.O.	ROUGH OPENING
RT.	RIGHT
RT. HD.	RIGHT HAND
R.W.L.	RAIN WATER LEADER
S	SOUTH
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.C.R.	SHOWER CURTAIN ROD
S.D.	STORM DRAIN
S.DIS.	SOAP DISPENSER
SECT.	SECTION
SH(S).	SHELF (SHELVES)
SHR.	SHOWER
SH.S.	SHOWER SEAT
SHT.	SHEET
SIM.	SIMILAR
S.J.	SCORE JOINT
SK.	SINK
SM.	SURFACE-MOUNTED
S.M.S.	SHEET METAL SCREW (SELF-TAPPING)
SM.D.	SMOKE DETECTOR
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.O.V.	SHUT-OFF VALVES
SP.	SPACE
SPEC.	SPECIFICATION
SPL.	SPLASH
SQ.	SQUARE
SR.	SEMI-RECESSED
S/S	SCRUB SINK
S.SK.	SERVICE SINK
S.ST.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
STL.	STEEL
ST.TLT.	STAFF TOILET
STOR.	STORAGE
STRL.	STRUCTURAL
SU.CA.	SUPPLY CART
SURG.	SURGICAL
SUSP.	SUSPENDED
SW.	SWITCH
SWK.	SIDEWALK
SYM.	SYMMETRICAL
T.B.	TOWEL BAR
T.C.	TOP OF CURB/CONCRETE
T.C.S.	TRACK CONVEYOR SYSTEM
TEL.	TELEPHONE
TEMP.	TEMPORARY
TER.	TERRAZZO
T.G.	TOP OF GRATE
T&G	TONGUE AND GROOVE
THER.	THERMOSTAT
THK.	THICK
THRU.	THROUGH
TKBD.	TACKBOARD
T/L	TRASH & LINEN
TLT.	TOILET
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
TRANSF.	TRANSFORMER
TRD. OR T.	TREAD
TR.	TREATMENT
T.S.	TOP OF SLAB
T.S.C.D.	TOILET SEAT COVER DISPENSER
T.ST.	TOP OF STEEL
TV.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
UC.	UNDERCOUNTER
UC. R.	UNDERCOUNTER REFRIGERATOR
UC. FRZ.	UNDERCOUNTER FREEZER
UC. L.F.	UNDERCOUNTER LIGHT FIXTURE
UNAS.S.	UNASSIGNED SPACE
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
VAC.	VACUUM (SUCTION)
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
W	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDO.	WINDOW
W. G.	WIRE GLASS
W.H.	WATER HEATER
W.I.C.	WOODWORK INSTITUTE OF CALIFORNIA
WLCH.	WHEELCHAIR
W/O	WITHOUT
WP.	WATERPROOF
W. R.	WASTE RECEPTACLE
W. S.	WOOD SCREW
WSCT.	WAINSCOT
WT.	WEIGHT
YD.	YARD
Z.V.	ZONE VALVE

DEFERRED APPROVAL

THE FOLLOWING ITEMS ARE DEFFERED APPROVAL ITEMS;

	SPEC.#	DESCRIPTION
1.	08411	WINDOW WALL SYSTEMS, CURTAIN WALL, AND STOREFRONTS WITH SPANS GREATER THAN 10'-0"
2.	12662	TELESCOPING BLEACHERS AT GYMNASIUM
3.	15300	FIRE PROTECTION SPRINKLER SYSTEM (ABOVE GROUND ONLY)
4.	08625	TUBULAR SKYLIGHTS
	08630	METAL FRAMED SKYLIGHTS
	08960	SLOPED GLAZING SYSTEMS
4.	08625	TUBULAR SKYLIGHTS
5.	16700	AUTOMATIC FIRE ALARM SYSTEM
6.	13915	FIRE PROTECTION SPRINKLER SYSTEM (UNDERGROUND FIRE PIPING)
7.		KITCHEN HOOD FIRE SUPPRESSION / EXTINGUISHING SYSTEM

1

ORANGE TERRACE PARK PLAN

APPLICABLE CODES

LIST OF 2001 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

PART 1 - 2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 - 2001 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (1997) UNIFORM BUILDING CODE VOLUMES 103 OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, WITH CALIFORNIA AMENDMENTS)

PART 3 - 2004 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2002 NATIONAL ELECTRICAL CODE AND 2004 CALIFORNIA AMENDMENTS)

PART 4 - 2001 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2000 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 5 - 2001 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2000 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 6 - 2005 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 7 - 2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, TITLE 24 C.C.R.

PART 8 - 2001 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9 - 2001 CALIFORNIA FIRE CODE, TITLE 24 C.C.R (2000 UNIFORM FIRE CODE OF THE WESTERN FIRE CHIEFS ASSOCIATION)

PART 10 - 2001 CALIFORNIA CODE FOR BUILDING CONSERVATION, TITLE 24 C.C.R. (1997) UNIFORM CODE FOR BUILDING CONSERVATION OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, WITH AMENDMENTS)

PART 12 - 2001 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C. 1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS 1999 EDITION
NFPA 14 - STANDPIPE SYSTEMS 2000 EDITION
NFPA 17 - DRY CHEMICAL EXTINGUISHING SYSTEMS 1998 EDITION
NFPA 17A - WET CHEMICAL SYSTEMS 1998 EDITION
NFPA 20 - STATIONARY PUMPS 1999 EDITION
NFPA 24 - PRIVATE FIRE SERVICES MAINS 1995 EDITION
NFPA 72 - NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 1999 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
NFPA 253 - CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2000 EDITION
NFPA 2001 - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2000 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC (SFM) 3504.1

SITE KEY PLAN

AS BUILT

Key Plan

Consultant's Seal

Agency Approval

Project Title

ORANGE TERRACE LIBRARY / COMMUNITY CENTER
PLAN CHECK NO. 07-1397

20010 ORANGE TERRACE PARKWAY
RIVERSIDE, CA 92508

CITY OF RIVERSIDE

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
	Design Development Submittal	12/18/06
	Building Department Submittal	03/29/07
1	Building Department Resubmittal	05/22/07
2	Building Department Resubmittal / QA QC Review	06/22/07

Drawing Title

TITLE SHEET

Architect's Seal

Designed:	SS	Project No.	2340001
Drawn:	XL	Scale:	AS NOTED
Checked:	LP	Drawing No.	
Reviewed:	RS		G1.1
Date:	06-22-07	Sheet 01 of ##	

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT

ORANGE TERRACE LIBRARY & COMMUNITY CENTER

20010 ORANGE TERRACE PARKWAY, RIVERSIDE, CALIFORNIA 92508

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www. hmcarchitects .com

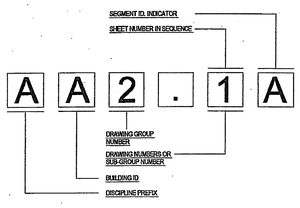
GEOTECHNICAL	ELECTRICAL & PHOTOVOLTAICS	PLUMBING	MECHANICAL	STRUCTURAL	ARCHITECTURAL	LANDSCAPE	CIVIL	GENERAL CONTRACTOR	OWNER
CONVERSE CONSULTANTS 10391 CORPORATE DRIVE REDLANDS, CA 92374 P: (909) 796 - 0544 F: (909) 796 - 7675	A. J. KIRKWOOD 2752 Walnut Avenue Tustin, CA 92780 P: (714) 505 - 1977 F: (714) 505 - 7030 SOLAR DESIGN ASSOCIATES, INC. 231 Ayer Road Harvard, MA 01451 P: (978) 456 - 6855 F: (978) 772 - 9715	PAN PACIFIC PLUMBING 17911 Mitchell South Irvine, CA 92614 P: (949) 474 - 9170 F: (949) 474 - 9936	PACIFIC RIM MECHANICAL 1701 EAST EDINGER AVENUE SANTA ANA, CA 92705 P: (714) 285 - 2600 F: (714) 285 - 2601	KANDA & TSO 511 MISSION STREET SOUTH PASADENA, CA 91030-3035 P: (626) 441 - 1211 F: (626) 441 - 1011	HMC ARCHITECTS 3546 CONCOURS STREET ONTARIO, CA 91764-5563 P: (909) 483 - 5979 F: (909) 483 - 1402	RHA LANDSCAPE ARCHITECTS 6216 BROCKTON AVENUE, SUITE 212 RIVERSIDE, CA 92506 P: (951) 781 - 1920 F: (951) 686 - 8091	EPIC ENGINEERS 101 EAST REDLANDS BOULEVARD, SUITE 146 REDLANDS, CA 92373 P: (909) 792 - 8969 F: (909) 792 - 8869	DIFFENBAUGH CONSTRUCTION 6865 AIRPORT DRIVE RIVERSIDE, CA 92504-1903 P: (951) 351 - 6935 F: (951) 434 - 5263	CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT 3900 MAIN STREET, 5TH FLOOR RIVERSIDE, CA 92522 RIVERSIDE PUBLIC LIBRARY

GENERAL NOTES

DRAWING NUMBERING SYSTEM

DISCIPLINE PREFIX
- G - GENERAL
- C - CIVIL
- L - LANDSCAPE
- A - ARCHITECTURAL
- S - STRUCTURAL
- M - MECHANICAL
- P - PLUMBING
- E - ELECTRICAL
- PV - PHOTOVOLTAIC

BUILDING ID
- A - LIBRARY
- B - COMMUNITY CENTER



ARCHITECTURAL DRAWING GROUP NO.
- 1.1 - OVERALL & PARTIAL SITE PLANS
- 2.1 - FLOOR PLANS
- 3.1 - REFLECTED CEILING PLANS
- 4.1 - ROOF PLANS
- 5.1 - EXTERIOR ELEVATIONS
- 6.1 - BUILDING SECTIONS
- 6.3 - WALL SECTIONS
- 7.1 - ENLARGED PLANS
- 8.1 - INTERIOR ELEVATIONS
- 9.1 - SCHEDULES
- 10.1 - DETAILS

ARCHITECTURAL DETAIL DRAWING GROUP NO.
- 2.1 - SITE CONSTRUCTION
- 3.1 - CONCRETE
- 4.1 - MASONRY
- 5.1 - METALS
- 6.1 - WOOD AND PLASTICS
- 7.1 - THERMAL AND MOISTURE PROTECTION
- 8.1 - DOORS AND WINDOWS
- 9.1 - FINISHES / WALL TYPES
- 10.1 - SPECIALTIES
- 11.1 - EQUIPMENT
- 12.1 - FURNISHINGS
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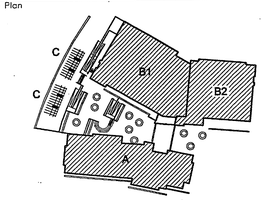
AS BUILT

Key Plan



Consultant's Seal

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER
PLAN CHECK NO. 07-1397

20010 ORANGE TERRACE PARKWAY
RIVERSIDE, CA 92508

SM HMC ARCHITECTS

No.	Revisions/Submissions	Date:
	Design Development Submittal	12/19/06
	Building Department Submittal	03/29/07
1	Building Department Resubmittal	05/22/07
2	Building Department Resubmittal / QA QC Review	06/22/07

Drawing Title

DRAWING INDEX

Architect's Seal

LICENSED ARCHITECT
CHRISTOPHER RICHARD TAYLOR
No. C-19759
REN. 02-24-09
STATE OF CALIFORNIA

Designed: SS	Project No. 2340001
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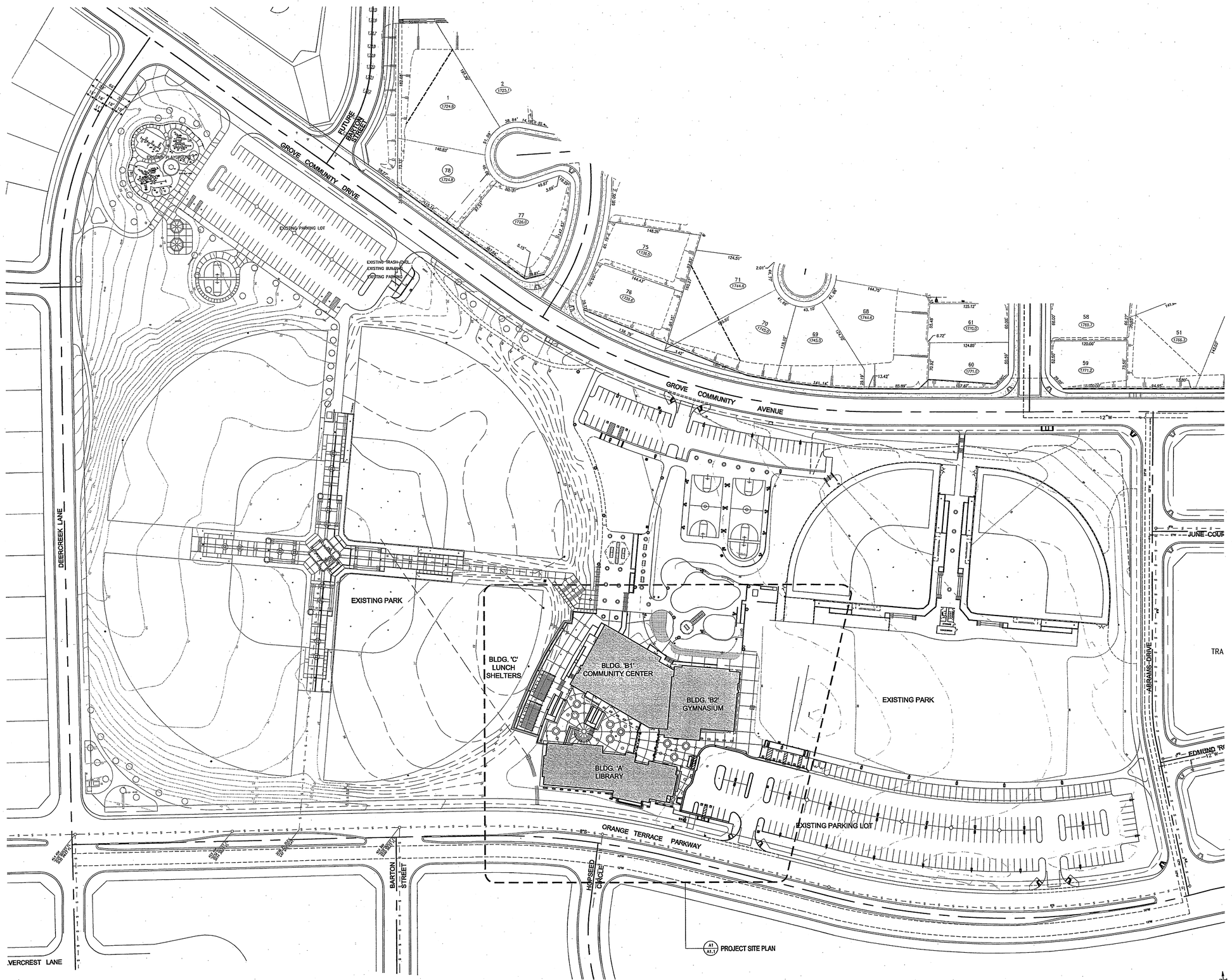
Date: 06-22-07	Sheet 02 of ##



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Key Plan

Consultant's Seal

Agency Approval

Project Title

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ORANGE TERRACE LIBRARY / COMMUNITY CENTER
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Drawing Title

OVERALL PARK PLAN

Architect's Seal

CHRISTOPHER RICHARD TAYLOR
LICENSED ARCHITECT
NO. C-19759
REN. 02-24-09
STATE OF CALIFORNIA

Designed: SS	Project No. 2340001
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OVERALL PARK PLAN | A1 | 1" = 60'-0"

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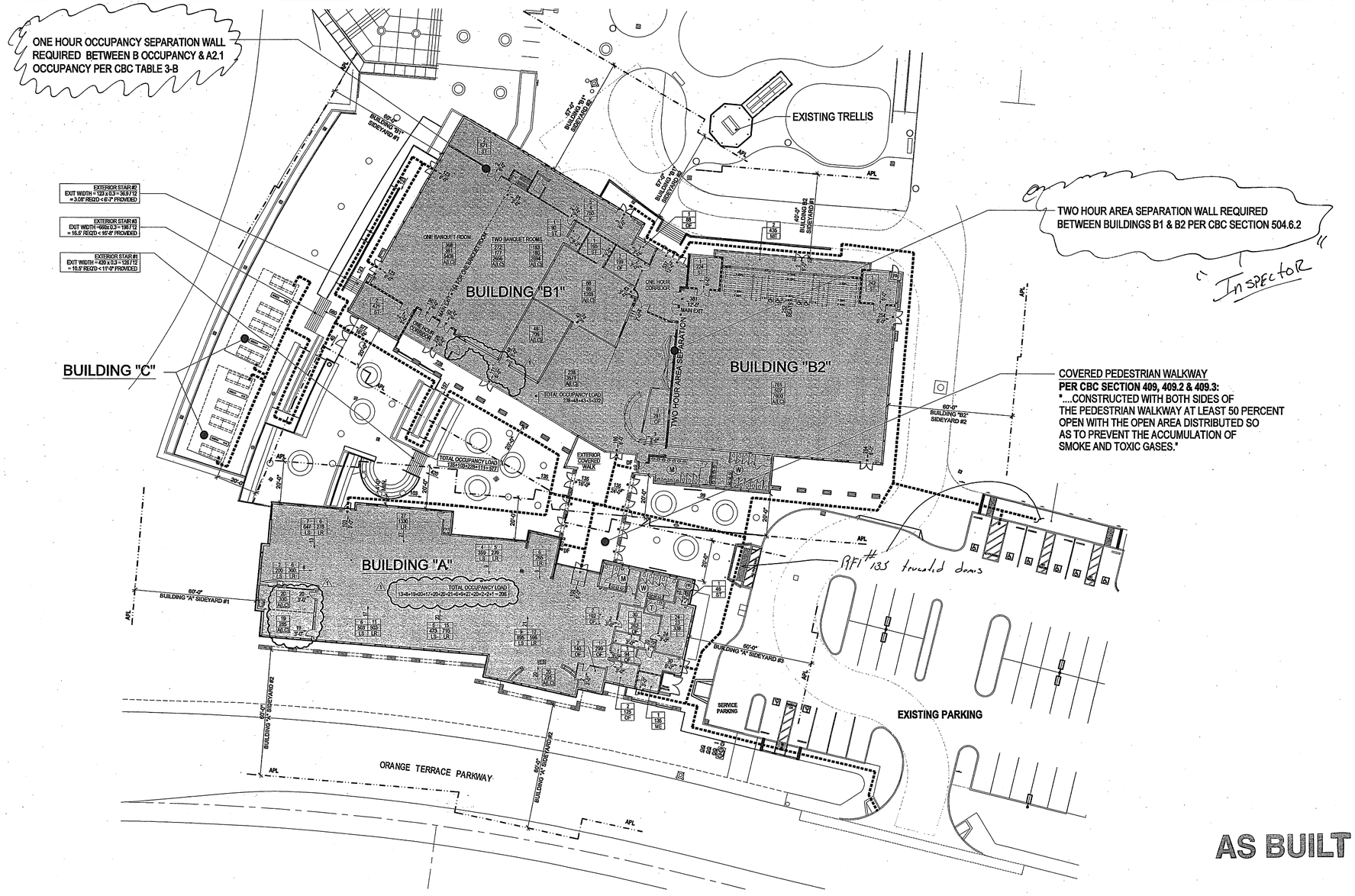

CODE ANALYSIS PLAN E1

1" = 20'-0"

BUILDING DESIGNATION	BUILDING NAME	OCCUPANCY CLASSIFICATION CBC TABLE 3-A	OCCUPANCY SEPARATION CBC TABLE 3-B	ACTUAL BLDG. FLOOR AREA IN SQ. FT. CBC 207	AREA SEPARATION CBC 504.6	AUTOMATIC FIRE SPRINKLER SYSTEM	TYPE OF CONSTRUCTION & ALLOWABLE AREA CALCULATION					ACTUAL BLDG. HEIGHT IN FEET	ALLOWABLE BLDG. HT. IN FEET CBC TABLE 5-B	ACTUAL # OF STORIES	ALLOWABLE # OF STORIES CBC TABLE 5-B	CONSTRUCTION TYPE PROVIDED	1-HR FIRE RESISTIVE SUBSTITUTION CBC 508	REMARKS
A	LIBRARY	A-3		13,026	NONE	YES	TYPE V - N (CBC CHAPTER 6: CONSTRUCTION TYPE)	OCCUPANCY A-3			SUM OF RATIO CBC 504.3	25'-8"	40	1	A-3 = 2	V - N	NO	PER CBC 505 EXCEPTIONS, EVAPORATION TOWER HEIGHT 41'-0" IS OK
	OVERHANG			614			CBC TABLE 5-B: BASIC ALLOWABLE AREA	6,000										
				13,640 TOTAL			CBC 505.1.2: SEPARATION ON 3 SIDES (60'-0" min. - 20'-0") = 40'-0" (2.5%) = 100% INC. X 2	12,000										
							CBC 505.3: SPRINKLER SYSTEM X 3	36,000										
							TOTAL ALLOWABLE AREA	36,000										
							ACTUAL AREA	13,640										
B1	COMMUNITY CENTER				NONE	YES	TYPE V - 1 HR (SPRINKLERS IN LIEU OF 1 HR) (CBC CHAPTER 6: CONSTRUCTION TYPE)	OCCUPANCY A-2.1	B		SUM OF RATIO CBC 504.3	32'-0"	50	1	A-2.1 = 2	V - 1 HR	YES	
	MULTIPURPOSE	A-2.1	1-HOUR SEPARATION BETWEEN A-2.1 & B OCCUPANCY PER CBC TABLE 3-B	13,395			CBC TABLE 5-B: BASIC ALLOWABLE AREA	10,500	14,000									
	KITCHEN / STORAGE	B		1,728			CBC 505.1.1: SEPARATION ON 2 SIDES (57'-0" min. - 20'-0") = 37'-0" (1.25%) = 46.25% INC. X 1.4625	15,356	20,475									
	OVERHANG			523			TOTAL ALLOWABLE AREA	15,356	20,475									
				15,646 TOTAL			ACTUAL AREA	13,918	1,728									
							ACTUAL / TOTAL ALLOWABLE RATIO	0.906	0.084		0.99							
B2	GYMNASIUM	A-2.1		11,005	NONE	YES	TYPE V - 1 HR (SPRINKLERS IN LIEU OF 1 HR) (CBC CHAPTER 6: CONSTRUCTION TYPE)	OCCUPANCY A-2.1			SUM OF RATIO CBC 504.3	44'-2"	50	1	A-2.1 = 2	V - 1 HR	YES	
	OVERHANG			772			CBC TABLE 5-B: BASIC ALLOWABLE AREA	10,500										
				11,777 TOTAL			CBC 505.1.1: SEPARATION ON 2 SIDES (40'-0" min. - 20'-0") = 20'-0" (1.25%) = 50% INC. X 1.25	13,125										
							TOTAL ALLOWABLE AREA	13,125										
							ACTUAL AREA	11,777										
C	LUNCH SHELTER	A-3		1,600 TOTAL	NONE	YES	TYPE V - N (CBC CHAPTER 6: CONSTRUCTION TYPE)	OCCUPANCY A-3			SUM OF RATIO CBC 504.3	25'-8"	40	1	A-3 = 2	V - N	NO	
							CBC TABLE 5-B: BASIC ALLOWABLE AREA	6,000										
							TOTAL ALLOWABLE AREA	6,000										
							ACTUAL AREA	1,600										

BUILDING AREA JUSTIFICATIONS A1

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LEGEND

SYMBOL	DESCRIPTION
39 / 765 / OR	OCCUPANT LOAD FLOOR AREA (IN SQ. FT.) ROOM USE (REFER TO ROOM USE LEGEND)
45 / 39 / 765 / OR	CUMMULATIVE OCCUPANT LOAD WHERE OCCURS OCCUPANT LOAD FLOOR AREA (IN SQ. FT.) ROOM USE (REFER TO ROOM USE LEGEND)
45 / 3'-0"	NUMBER OF OCCUPANTS EXITING PROVIDED EXIT WIDTH
	ASSUMED PROPERTY LINE (APL)
	ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (1133B.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (1133B.8.6) CONTRACTOR TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL, AND THE PATH OF TRAVEL COMPLIES WITH CBC 1133B.
	NON-RATED WALL FRAMING
	1-HOUR RATED WALL / OCCUPANCY SEPARATION WALL
	2-HOUR RATED WALL / AREA SEPARATION WALL
FEC	FIRE EXTINGUISHER & CABINET, SEE
FR	FIRE RISER ROOM
T	ACCESSIBLE TOILET ROOM T= UNISEX, M = MEN, W=WOMEN,
D.F.	ACCESSIBLE DRINKING FOUNTAIN

ROOM USE LEGEND

ROOM USE	2 EXITS REQ'D FOR	OCCUPANT LOAD FACTOR
A(LC) = ASSEMBLY, LESS CONCENTRATED	50	15
K = KITCHEN	30	200
L = LOUNGE	50	15
LR = LIBRARY READING ROOM	50	50
ME = MECH/ELEC EQUIPMENT ROOM	30	300
OF/LS = OFFICE / LIBRARY STACKS	30	100
ST = STORAGE & STOCK ROOMS	30	300
AO = ALL OTHERS	50	100
RT = RETAIL	50	30

PLUMBING FIXTURES CALCULATIONS

BUILDING A: LIBRARY

TOTAL OCCUPANT LOAD = 177
MEN / WOMEN @ 1/2 EACH = 89
MINIMUM PLUMBING FIXTURES REQ'D PER CBC TABLE A-29-A, GROUP A

	WATER CLOSETS			URINALS (1/2 W.C.MAX.)	LAVATORIES		
	MEN'S	WOMEN'S	UNISEX		MEN'S	WOMEN'S	UNISEX
MEN'S	2		–	1	3		–
WOMEN'S		3				3	

PLUMBING FIXTURES PROVIDED

MEN'S	2		1	1	3		1
WOMEN'S		5				3	

BUILDING B: COMMUNITY CENTER

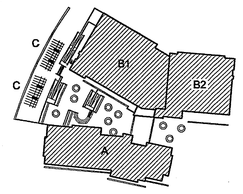
TOTAL OCCUPANT LOAD = 941
MEN / WOMEN @ 1/2 EACH = 470
MINIMUM PLUMBING FIXTURES REQ'D PER CBC TABLE A-29-A, GROUP A

	WATER CLOSETS			URINALS (1/2 W.C.MAX.)	LAVATORIES		
	MEN'S	WOMEN'S	UNISEX		MEN'S	WOMEN'S	UNISEX
MEN'S	4		–	3	6		–
WOMEN'S		7				6	

PLUMBING FIXTURES PROVIDED

MEN'S	4		–	4	7		–
WOMEN'S		11				7	

Key Plan



Consultant's Seal

Agency Approval

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HMC ARCHITECTS

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	Building Department Submittal	03/29/07
1	Building Department Resubmittal	05/22/07
2	Building Department Resubmittal / QA QC Review	06/22/07

Drawing Title

CODE ANALYSIS PLAN

Architect's Seal

LICENSED ARCHITECT CHRISTOPHER RICHARD TAYLOR LIC. NO. C-19759 REN. 02-24-09 STATE OF CALIFORNIA

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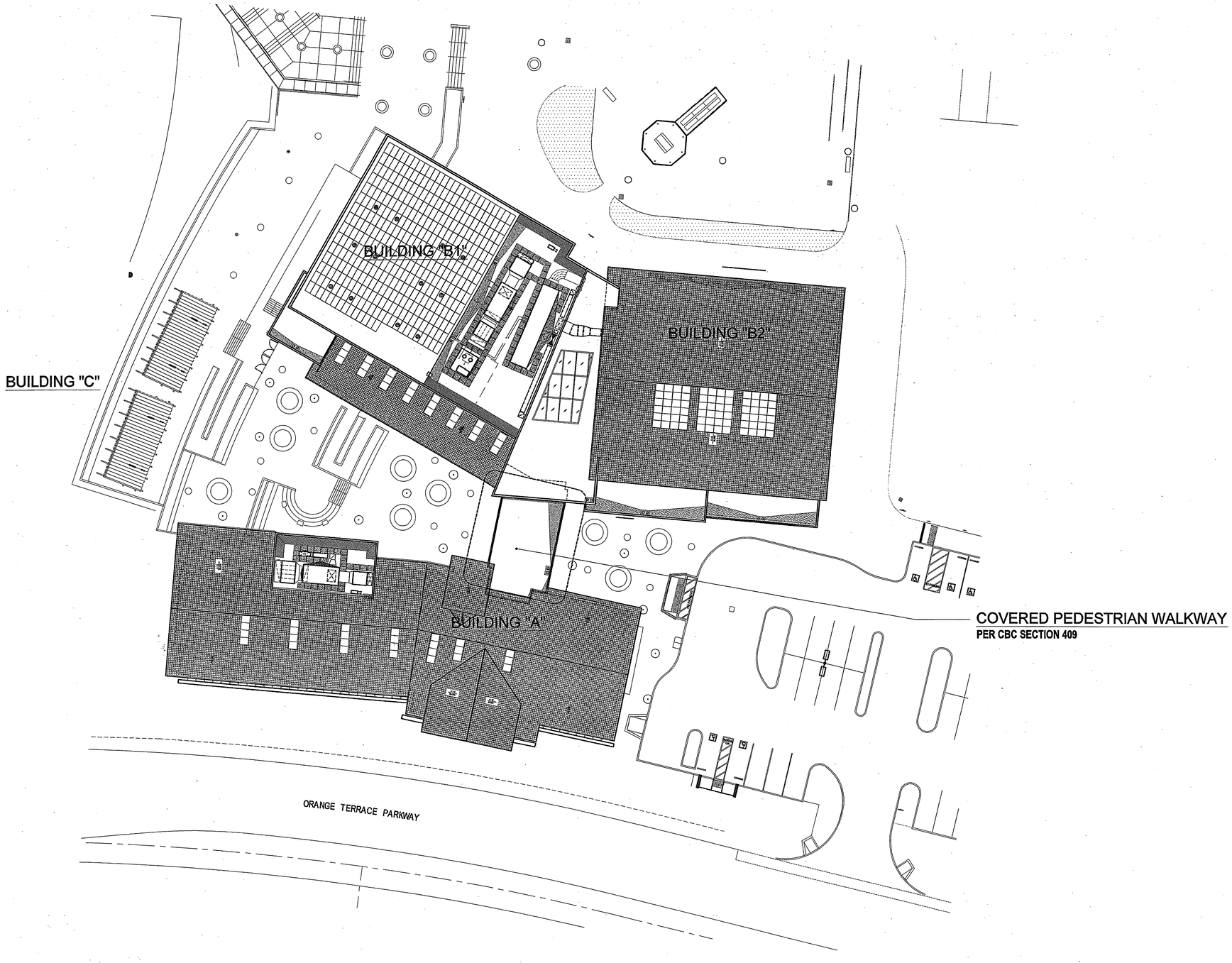

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AS BUILT

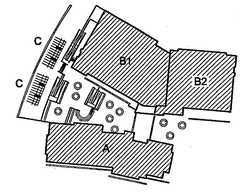
ROOF PLAN LEGEND

- CRICKET
- ROOF TRAFFIC PAD SEE A1/A10.7.3
- PHOTOVOLTAIC PANEL
- CLAY TILE ROOFING
- ROOF & OVERFLOW DRAIN SEE A8/A10.7.4
- ROOF HATCH, SEE E11/A10.7.3

ABBREVATIONS

T.O.CRI	TOP OF CRICKET
T. O. SHTG	TOP OF PLYWOOD SHEATHING
L. P. SHTG	LOW POINT OF PLYWOOD SHEATHING
H. P. SHTG	HIGH POINT OF PLYWOOD SHEATHING
T.O. PAR	TOP OF PARAPET
T. O. CONC.	TOP OF CONCRETE

Key Plan



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2	Building Department Resubmittal / QA QC Review	06/22/07

Drawing Title **CODE ANALYSIS ROOF PLAN**

Architect's Seal

CHRISTOPHER BACHMAN TAYLOR
LICENSED ARCHITECT
NO. C-19789
REN. 02-24-09
STATE OF CALIFORNIA

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CODE ANALYSIS - ROOF PLAN | A1

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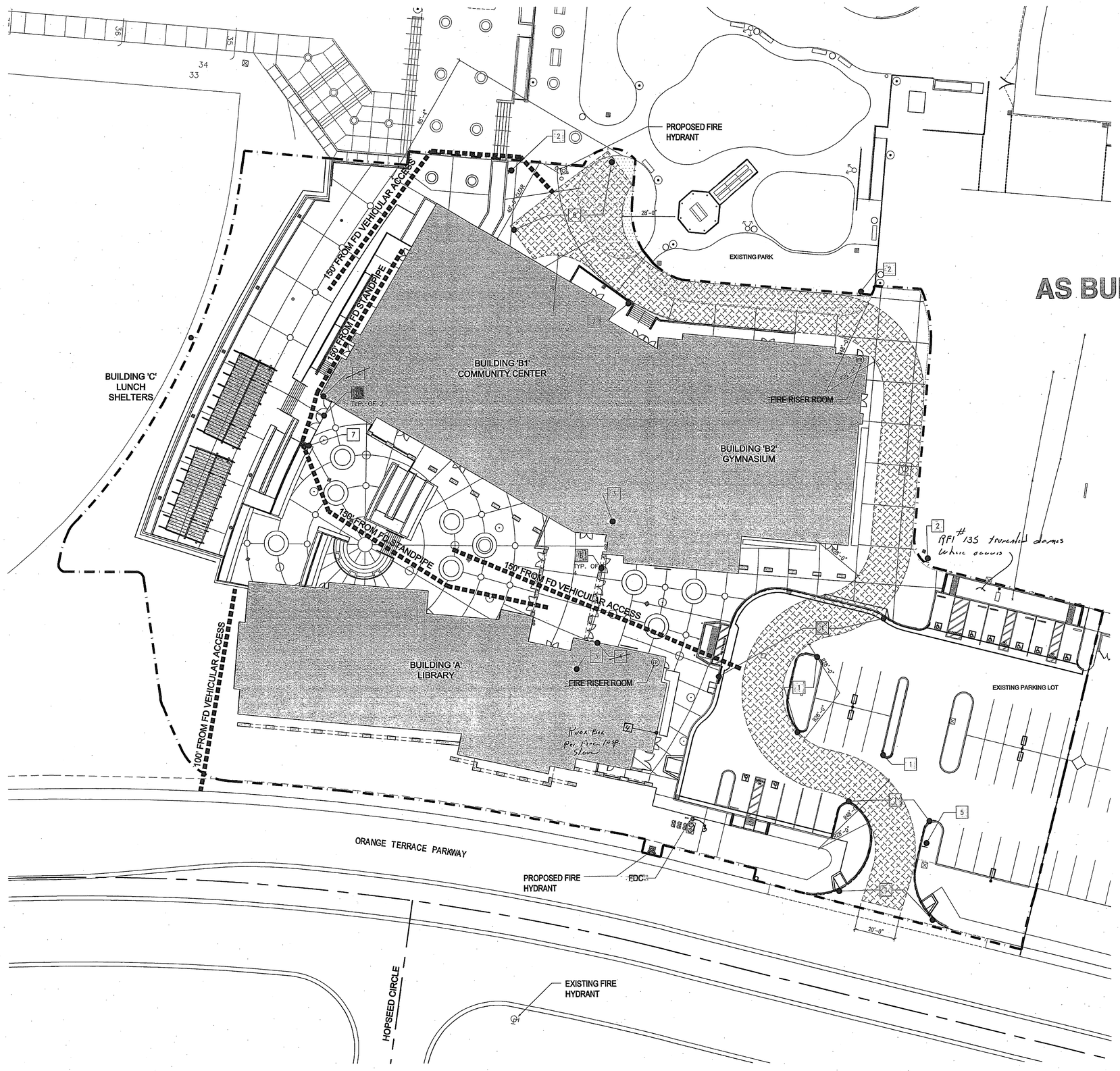
File Name: N:\2005 Jobs\2340 City of Riverside - Diffenbaugh\001-000\18-CAD\Sheets\G2.2.1 CODE ANALYSIS - ROOF PLAN.dwg Jun 21,2007-4:13pm

PLEASE RECYCLE G2.2.1 CODE ANALYSIS - ROOF PLAN.DWG



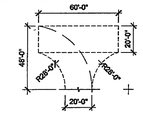
HMC ARCHITECTS
Architecture Interiors Planning
3546 CONCOURS STREET
ONTARIO, CALIFORNIA 91764
Telephone: 909 . 989 . 9979
Fax: 909 . 483 . 1400
www. hmcarchitects .com

FIRE DEPARTMENT LEGEND

- 20'-0" WIDE FIRE LANE
- ASSUMED PROPERTY LINE FOR AREA INCREASE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- FDC: FIRE DEPARTMENT CONNECTION
- FR: FIRE RISER

FIRE DEPARTMENT KEY NOTES

		DETAIL
1	FIRE LANE AND RED CURB ok	N11 / A10.2.1
2	NO PARKING: FIRE LANE SIGNAGE ok	N4 / A10.4.2
3	ANNUNCIATOR PANEL - SEE ARCH. FLOOR PLAN FOR LOCATION ok	PER ELEC.
4	FIRE DEPT. KNOX BOX PER CITY REQUIREMENTS ok	SEE SPECS.
5	FIRE LANE LAW SIGNAGE ok	N14/A10.4.2
6	GATE WITH PANIC HARDWARE, TYP.	SEE A1.1
7	FIRE SPRINKLER STANDPIPE ok	PER CIVIL
8	FIRE DEPARTMENT MINIMUM TURNING AREA AS SHOWN BELOW ok	



FIRE DEPARTMENT GENERAL NOTES

1. PROVIDE A MINIMUM, UNOBSTRUCTED WIDTH OF 20 FEET CLEAR TO SKY, VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF BUILDING EXTRERIOR WALLS, PER FIRE CODE 902.2.1 DURING ALL STAGES OF CONSTRUCTION.
2. CROSS-HATCH INDICATES FIRE DEPARTMENT ACCESS WAYS. (SEE LEGEND ABOVE)
3. ALL REQUIRED PUBLIC HYDRANTS SHALL BE INSTALLED TESTED AND ACCEPTED PRIOR TO CONSTRUCTION.
4. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICABLE THROUGHOUT CONSTRUCTION.
5. THE REQUIRED FIRE FLOW FOR PUBLIC FIRE HYDRANTS AT THIS LOCATION IS 1750 GALLONS PER MINUTE AT 20 PSI FOR A DURATION OF 2 HOURS OVER AND ABOVE THE MAXIMUM DAILY DOMESTIC DEMAND.

LOCAL FIRE AUTHORITY REVIEW

FIRE DEPARTMENT ACCESS, EGGRESS AND GATE ENTRANCES HAVE BEEN REVIEWED FOR COMPLIANCE IN ACCORDANCE WITH SECTION 3.05 AND 3.16, TITLE 19. FIRE FLOW AND FIRE HYDRANTS HAVE BEEN REVIEWED FOR COMPLIANCE WITH STATE APPENDICIES III-AA AND III-BB, TITLE 24.

APPROVAL ISSUED BY:

MARGARET ALBANESE, PLAN CHECK ENGINEER
NAME/TITLE

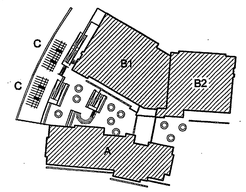
CITY OF RIVERSIDE FIRE DEPARTMENT PREVENTION DIVISION 951.826.5825
AGENCY PHONE

3900 MAIN STREET, RIVERSIDE, CA 92522
ADDRESS

SIGNATURE DATE

SIGNED COPY ON FILE AT FIRE DEPT

Key Plan



Consultant's Seal

Agency Approval

Project Title

ORANGE TERRACE LIBRARY / COMMUNITY CENTER
PLAN CHECK NO. 07-1397

20010 ORANGE TERRACE PARKWAY
RIVERSIDE, CA 92508

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
	Design Development Submittal	12/18/06
	Building Department Submittal	03/29/07
1	Building Department Resubmittal	05/22/07
2	Building Department Resubmittal / QA QC Review	06/22/07

Drawing Title **FIRE DEPARTMENT APPROVAL**

Architect's Seal

LICENSED ARCHITECT CHRISTOPHER RICHARD TAYLOR REN. 02-29-08 STATE OF CALIFORNIA

Designed: SS	Project No. 2340001
Drawn: XL	Scale: AS NOTED
Checked: LP	Drawing No. G2.3
Reviewed: RS	
Date: 06-22-07	Sheet 01 of 01

FIRE DEPARTMENT APPROVAL | A1 | 1" = 20'-0"

File Name: N:\2005 Jobs\2340 City of Riverside – Diffenbaugh\001-000\18-CAD\Sheets\G2.3 FIRE DEPARTMENT APPROVAL.dwg Jun 21,2007-4:13pm

PLEASE RECYCLE G2.3 FIRE DEPARTMENT APPROVAL.DWG

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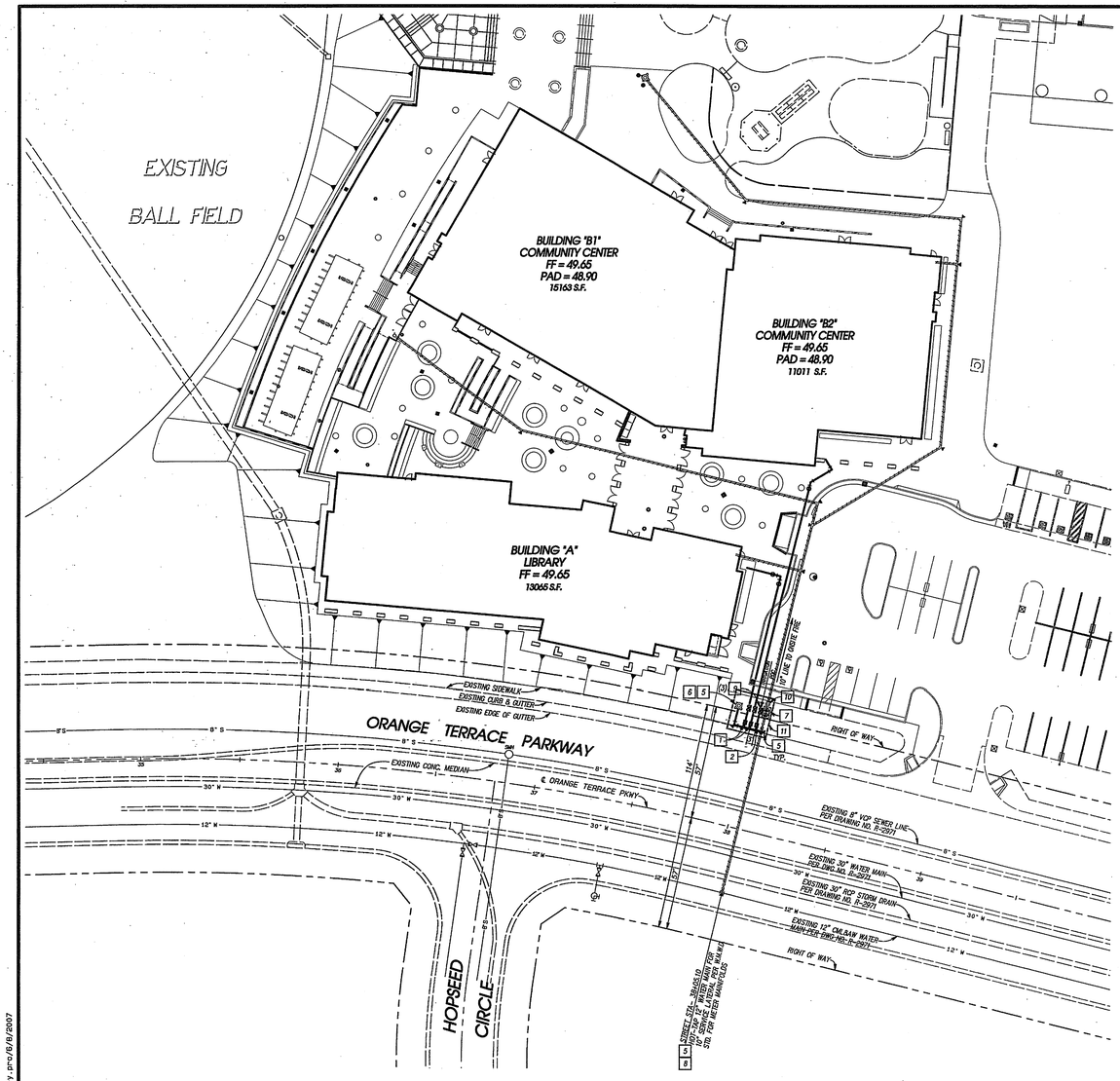
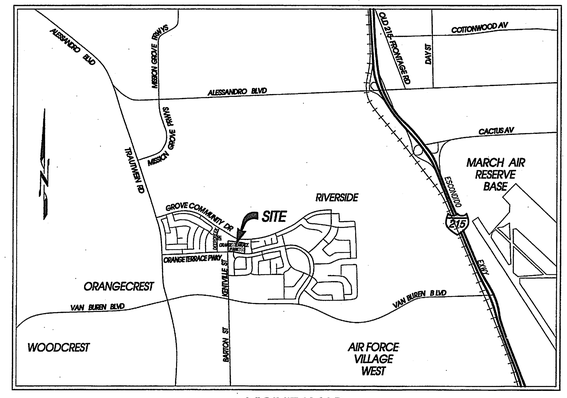


GENERAL NOTES FOR WATER PIPELINES

1. WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED BY THE DEVELOPER FOR DEDICATION TO WESTERN MUNICIPAL WATER DISTRICT. CONSTRUCTION, MATERIALS TESTING, AND INSPECTION SHALL COMPLY WITH WESTERN MUNICIPAL WATER DISTRICT'S STANDARDS. THE INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF ALL PUBLIC AGENCIES HAVING JURISDICTION AND THE AMERICAN WATER WORKS ASSOCIATION (A.W.W.A.) STANDARDS. FAILURE TO MEET THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION.
2. CONSTRUCTION OF THE WATER SYSTEM IMPROVEMENTS SHALL NOT COMMENCE UNTIL A FINAL MAP HAS BEEN RECORDED BY RIVERSIDE COUNTY AND THE DEVELOPER'S ENGINEER HAS CERTIFIED THAT ALL STREETS ARE CONSTRUCTED TO FINAL GRADE. WATER PIPELINES SHALL BE INSTALLED AFTER CONSTRUCTION OF CURB & GUTTER, SEWER, STORM DRAIN, AND PRIOR TO THE PLACEMENT OF CROSS-GUTTERS, SPANDRELS, AND PAVING.
3. PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE OF THE PIPE PRESSURE CLASS (NOT N.M.P. CLASS) SHOWN ON THE PROFILE OF THESE PLANS. (NOTE: CAST IRON FITTINGS ARE NOT ALLOWED).
4. COVER OVER PIPE SHALL BE 36 INCHES FOR PIPELINES LESS THAN 12 INCHES IN DIAMETER AND 48 INCHES FOR PIPLIES 12" AND GREATER IN DIAMETER. WHEN THE WATER PIPELINE ENCOUNTERS AN OBSTRUCTION AND CROSSING OVER THE OBSTRUCTION WILL RESULT IN LESS THAN MINIMUM COVER, THE THE WATER PIPLINE SHALL CROSS UNDER THE OBSTRUCTION (MINIMUM 12" CLEARANCE).
5. CONTRACTOR SHALL PROVIDE TRENCH PROTECTION AND CONDUCT ALL CONSTRUCTION IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS AND SHALL DETERMINE DEPTH AND LOCATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO TRENCHING. OPEN TRENCH AT ANY ONE TIME SHALL BE LIMITED TO 500' ALONG ROAD RIGHT OF WAY AND SHALL BE BACKFILLED AND COMPACTED AT THE CONCLUSION OF EACH DAY. CONTACT UNDERGROUND SERVICE ALERT 1-800-227-2600 PRIOR TO ANY EXCAVATION.
6. PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE AT ALL TIMES AND SHALL BE CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND TO PREVENT UNEVEN SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
7. PIPE JOINTS SHALL NOT BE DEFLECTED AT ANY ANGLE GREATER THAT THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER. ALL WELDED JOINTS SHALL BE DOUBLE PASS MINIMUM.
8. TAPS ON PIPELINE SHALL BE INSTALLED PER DISTRICT STANDARDS AND AS APPROVED IN THE FIELD BY WMWD INSPECTOR. CONNECTIONS TO EXISTING WMWD PIPE LINES SHALL NOT BE ACCOMPLISHED UNLESS WESTERN MUNICIPAL WATER DISTRICT'S INSPECTOR IS PRESENT. WESTERN MAY ELECT TO MAKE THE CONNECTION. CONTRACTOR SHALL FIELD VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING WATER PIPELINES PRIOR TO CONSTRUCTION.
9. BACKFILL SHALL BE COMPACTED TO EITHER 90% RELATIVE DENSITY, EQUIVALENT TO THE SURROUNDING GROUND, OR IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
10. TEST PRESSURE SHALL BE 150% OF PIPE CLASS RATING (EG:CLASS 150=225 PSI TEST). SHALL BE UNDER CONTINUOUS INSPECTION, AND SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD PROCEDURES.
11. SURFACE IMPROVEMENTS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
12. FIRE HYDRANTS AND AIR VALVES SHALL BE LOCATED PER AGENCY HAVING JURISDICTON.
13. WATER METERS SHALL BE LOCATED PER PLAN. ANY RELOCATION SHALL BE APPROVED BY WMWD. A "W" SHALL BE IMPRINTED ON CURB FACE AT EACH SERVICE LATERAL (METER) LOCATION.
14. CONTRACTOR SHALL PLACE 14 GA SOLID COPPER LOCATOR WIRE WITH ALL C-900 PVC PIPE TO ASSIST WITH FUTURE LOCATION.
15. THE DEVELOPER SHALL PROVIDE ONE SET OF PRINTS SHOWING ALL "AS-BUILT" CONDITIONS INCLUDING THE STATIONING OF SERVICE LATERAL CONNECTIONS PAD ELEVATIONS AS A CONDITION OF FINAL APPROVAL.
16. ANY REVISIONS TO THESE DRAWINGS MUST BE APPROVED IN WRITING BY WESTERN MUNICIPAL WATER DISTRICT.
17. THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH "CONFINED AIR SPACE" ARTICLE 108, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE.
18. ALL PIPE LARGER THANT 12" IN DIAMETER SHALL BE INSPECTED BY VIDEO CAMERA PRIOR TO BACTERIOLOGICAL TESTING.
19. ALL FIRE HYDRANTS SHALL BE COLOR CODED ACCORDING TO THE HYDRANT'S FLOW RATE AT A RESIDUAL PRESSURE OF 20 PSI. ALL BARRELS SHALL BE CHROME YELLOW. CAP AND TOP COLORS SHALL BE AS FOLLOWS:

    >1500 GPM=LIGHT BLUE; 1000 TO 1499 GPM=GREEN; 500 TO 999 GPM: ORANGE;<500 GPM=RED

    HYDRANTS WITH PRESSURE OVER 100 PSI SHALL BE LETTERED "HP" ON THE BARREL IN A LOCATION VISIBLE TO THE STREET OR USE SIDE. ALL FIRE HYDRANTS SHALL BE "WET-BARREL".
20. CONTRACTOR SHALL WARRANTY ALL WORK FOR 12 MONTHS AFTER DATE OF FINAL INSPECTION.
21. MODEL HOME LANDSCAPING WILL COMPLY WITH WESTERN'S GUIDELINES. MWD'S PLAN FOR WATER USE GUIDELINES AND THE CITY OR COUNTY'S ORDINANCE GUIDELINES FOR WATER CONSERVATION.



VICINITY MAP

NOT TO SCALE

THOMAS GUIDE MAP
RIVERSIDE COUNTY V. 2006
PG. 746, GRID F-2

SECTION 20, TOWNSHIP 3S, RANGE 4W
PRESSURE ZONE XXXX

LEGEND

- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- WATER SERVICE WITH METER BOX
- PROPOSED FIRE HYDRANT
- THUST BLOCK
- PROPOSED DOUBLE CHECK DETECTOR
- PROPOSED GATE VALVE
- PROPOSED FIRE DEPARTMENT CONNECTION
- EXISTING WATER LINE
- EXISTING GATE VALVE
- EXISTING TEE, FLANGED
- EXISTING FIRE HYDRANT
- WATER LINE WITH VALVE
- EXISTING STORM DRAIN
- EXISTING SEWER LINE
- BOUNDARY LINE

OWNER/DEVELOPER

CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT

3685 MAIN STREET
RIVERSIDE, CA 92501

GEOTECHNICAL ENGINEER

CONVERSE CONSULTANTS

10391 CORPORATE DRIVE
REDLANDS, CA 92374
(909) 796-0544

ENGINEER

EPIC ENGINEERS

101 E. REDLANDS BOULEVARD
SUITE 146
REDLANDS, CA 92374
(909) 792-5969

ASSESSOR'S PARCEL NO.

APN # 284-130-001

NOTICE TO CONTRACTOR:

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

NOTE: THE CONSTRUCTION QUANTITIES SHOWN ON THESE PLANS ARE FOR CITY FEE PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM INDIVIDUAL TAKEOFFS FOR BIDDING PURPOSES.

	CONSTRUCTION NOTES	QUANTITY	UNIT
1	INSTALL 2" SERVICE CONNECTION PER W.M.W.D. STD W-0110 (DOMESTIC)	2	EA
2	INSTALL 2" SERVICE CONNECTION PER W.M.W.D. STD W-0110 (IRRIGATION)	1	EA
3	INSTALL 10" CLASS 150 C900 PVC FIRE LINE	90	LF
4	INSTALL 10" 45 ELBOW WITH RESTRAINED JOINTS	N/A	
5	CONSTRUCT THRUST BLOCK PER W.M.W.D. STD. DWG. NO. W-1570	3	EA
6	INSTALL FIRE HYDRANT ASSEMBLY (SUPER) PER W.M.W.D. STD. DWG. NO. 0610	1	EA
7	INSTALL 10" DOUBLE CHECK DETECTOR ASSEMBLY WITHOUT ATTACHED F.D.C. PER W.M.W.D. STD. DWG. NO. W-0530P1	1	EA
8	10" HOT TAP EXISTING 12" CML& AW WATER LINE PER W.M.W.D. SPECIFICATIONS	1	EA
9	INSTALL 2" REDUCED PRESSURE BACKFLOW DEVICE PER W.M.W.D. STANDARD SHALL BE SIZED IN ACCORDANCE TO UNIFORM PLUMBING CODE	3	EA
10	FURNISH AND INSTALL FIRE DEPARTMENT CONNECTION WITH INTERNAL CHECK VALVE (ORDER 6510 OR CIVIL ENGINEER APPROVED EQUAL)	1	EA
11	W.M.W.D. EASEMENT	1	EA

GRAPHIC SCALE 1"=30'

0 30 60 90

APPROVED BY THE ____ OF RIVERSIDE FIRE DEPARTMENT (FOR ACCESS, HYDRANT LOCATIONS AND FIRE FLOW ONLY)

APPROVED BY: ____ DATE: ____

REQUIRED FIRE FLOW IS ___ G.P.M. FOR ___ HOUR DURATION AT ___ P.S.I. RESIDUAL OPERATING PRESSURE.

REVIEWED BY: ____

FOR NON-INTERFERENCE COMPLIANCE

SHEET ____ THROUGH ____

APPROVED BY: ____ DATE: ____

PROJECT ADDRESS:

ORANGE TERRACE LIBRARY & COMMUNITY CENTER
20010 ORANGE TERRACE PARKWAY
RIVERSIDE, CA 92518

NOTE:
THE DESIGN AND CONSTRUCT ABILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE ADHERENCE OF THE PLANS TO THE DISTRICT'S GENERAL REQUIREMENTS AND POLICIES AS THEY RELATE TO THE SERVICES DEMANDS OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE PIPING PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

SEAL

EPIC ENGINEERS
CIVIL ENGINEERING LAND SURVEYING
PLANNING CONSTRUCTION MANAGEMENT
101 E. REDLANDS BOULEVARD TELE 909 - 792 - 5969
SUITE 146 FAX 909 - 792 - 8869
REDLANDS, CA 92373

WATER CERTIFICATION BLOCK

I certify that the design of the Water System in Tract No.____, is in accordance with the Water System master plans of Western Municipal Water District of Riverside County, and that the water service, storage and distribution system will be adequate to provide water service to such tract. This certification does not constitute a guarantee that it will supply water to such tract at any specific quantities, flows or pressure for fire protection or any other purpose.

CIVIL ENGINEER R.C.E. 46212 DATE

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:

CIVIL ENGINEER R.C.E. 46212 DATE

VOID AFTER ONE YEAR FROM THIS DATE

BENCH MARK:
P.K. NAIL AND TAG ON TIP OF 36" X 36" X 20" GRANITE BOULDER, 100' WESTERLY OF TRAUTMAN ROAD AND 0.3 MILE NORTHERLY OF WOOD ROAD. ELEV 735.74

WESTERN MUNICIPAL WATER DISTRICT
P.O. BOX 5286
RIVERSIDE, CA. 92517-5286
450 ALESSANDRO BLVD
RIVERSIDE, CA. 92508
(951) 789-5000 (BUS) (951) 789-5012 (FAX)

WATER IMPROVEMENT PLAN

POTABLE WATER AND FIRE SYSTEM CONNECTIONS FOR ORANGE TERRACE LIBRARY AND COMMUNITY CENTER

SCALE: HORIZ: 1"=30' VERT: N/A

DRAWING NO. XXXX

SHEET 1 OF 1 SHEETS

J:\20.40 Orange Terrace Library\20.40 Orange Terrace Library.pro/6/6/2007

GRADING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE, CHAPTER 31, AND THE SOILS REPORT OF PRELIMINARY GEOTECHNICAL INVESTIGATION PREPARED BY CONVERSE CONSULTANTS, DATED 11-24, 2003 ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS WORKS CONSTRUCTIONS (APWA GREEN BOOK), LATEST EDITION AND AMENDMENTS.

   WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER, THE PUBLIC WORKS ENGINEER AND OR HIS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENT AND/OR CODE WILL GOVERN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA.
3. DUST SHALL BE CONTROLLED BY WATERING AND/OR OTHER APPROVED METHODS IN ACCORDANCE WITH CITY, COUNTY, STATE ORDINANCES, STATUTES, AND AS APROVED BY THE PUBLIC WORKS ENGINEER.
4. NO FILL SHALL BE PLACED ON THE EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARIFIED PER THE PROJECT SPECIFICATIONS.
5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
6. FILLS SHALL BE COMPACTED THROUGHOUT TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557-91 MODIFIED CERTIFIED BY THE GEOTECHNICAL ENGINEER.
7. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE PRIOR TO PLACING OF FILL.
8. FILLS SHALL BE BENCHED WITH APPROVED MATERIAL AS PER DETAIL ON PLAN.
9. ALL EXISTING FILLS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND CITY REPRESENTATIVE BEFORE ANY ADDITIONAL FILLS ARE ADDED.
10. THE EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER.
11. SLOPES EXCEEDING FIVE FEET IN HEIGHT MUST BE PLANTED WITH AN APPROVED IRRIGATION SYSTEM.
12. THE STOCKPILING OF EXCESS MATERIAL SHALL BE APPROVED BY THE CITY GRADING ENGINEER PRIOR TO EXCAVATION.
13. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER PER THE GRADING AND EXCAVATION CODE.
14. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE PROJECT ARCHITECT FOR APPROVAL.
15. WHEN CUT PADS ARE BROUGHT TO NEAR GRADE, THE ENGINEERING GEOLOGIST SHALL DETERMINE IF THE BEDROCK IS EXTENSIVELY FRACTURED OR FAULTED AND WILL READILY TRANSMIT WATER. IF CONSIDERED NECESSARY BY THE ENGINEERING GEOLOGIST AND GEOTECHNICAL ENGINEER, A COMPACTED FILL BLANKET WILL BE PLACED.
16. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GUAGE, OR DRIVE RING SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
17. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
18. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
19. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT. IN ALL CASES, THE CONTRACTOR AND/OR DEVELOPER SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERS.
20. ALL WATER WELLS SHALL BE ABANDONED IN COMPLIANCE WITH THE COUNTY STANDARDS AND IN ACCORDANCE WITH THE STATE DEPARTMENT OF WATER RESOURCES.
21. ALL EXISTING SEWERS, CESSPOOLS, AND SEPTIC TANKS OR OTHER SEWAGE DISPOSAL FACILITIES SHALL BE ABANDONED IN COMPLIANCE WITH THE UNIFORM PLUMBING CODE AND TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER AND GRADING INSPECTOR.
22. WHENEVER THERE IS AN EXISTING CATCH BASIN ALONG OR ADJACENT TO THE CONSTRUCTION SITE FRONTAGE, AN ON-SITE STORM DRAIN OR SWALE SHALL BE CONSTRUCTED TO CONVEY WATER DIRECTLY TO THE BASIN. EXCEPTIONS SHALL REQUIRE APPROVAL BY THE CIVIL ENGINEER.
23. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER AREA TO A MINIMUM OF 12" TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUB-GRADE SOILS.
24. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION.
25. PERMISSION IS REQUIRED FROM THE ADJACENT PROPERTY OWNER WHENEVER WORK IS PROPOSED ACROSS THE PROPERTY LINE.
26. PROVIDE WEAKENED PLANE JOINTS IN CONCRETE CURBS 10' ON CENTERS.
27. ALL WALKWAYS, LANDINGS, AND OTHER FINISHED SURFACES AT DOORWAYS SHALL BE FINISHED TO WITHIN 0" (0 INCH) OF THE THRESHOLD.
28. ANY DIRT, ROCK OR CONSTRUCTION MATERIAL THAT MAY BE TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT-OF-WAY DURING THE TRANSPORTATION OF SAID MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY AND AS DEEMED NECESSARY BY THE GRADING INSPECTOR.
29. DIRT ACCESS RAMPS OVER CURB AND GUTTER TO CONSTRUCTION SITE ARE NOT ALLOWED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, ASPHALT RAMPS WITH A MINIMUM 3" DIAMETER PIPE WILL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE. ALL BASE, GRAVEL, SOIL OR OTHER MATERIAL CARRIED INTO THE ROADWAY BY CONTRACTORS PERSONNEL OR EQUIPMENT WILL BE CLEANED AS NECESSARY AND NO LESS THAN ONCE A DAY. TRUCKS HAULING BASE, GRAVEL, FILL OR EXPORT MATERIALS WITHIN CITY LIMITS WILL BE TARPED AS NECESSARY TO PREVENT MATERIAL FROM SPILLING INTO THE ROADWAY.
30. PRIOR TO ANY CONSTRUCTION WHICH INVOLVES HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL FIRST OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH).
31. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BLUELINES OF THE APPROVED PLAN. THESE BLUELINES ARE THEN TO BE SUBMITTED TO THE OWNERS REPRESENTATIVES FOR REVIEW AND APPROVAL. ONLY AFTER THE BLUELINE APPROVAL IS GIVEN SHOULD THE ORIGINALS BE AS-BUILT BY THE ENGINEER OR ARCHITECT.
32. A MINIMUM OF 6" AGGREGATE BASE WILL BE REQUIRED UNDER CONCRETE VALLEY GUTTERS. ALL VALLEY GUTTERS SHALL BE A MINIMUM 4'-0" WIDE.
33. RULE 403, AIR QUALITY CONTROL MANAGEMENT DISTRICT, MUST BE IMPLEMENTED DURING CONSTRUCTION.
    A. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES).
    B. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING, EXCAVATION, GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.
    C. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE MATTER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWN WIND SAMPLES COLLECTED ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS.
    D. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE MATTER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED.
    E. SUBSECTIONS (A) AND (B) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 24 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DETERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY WIND INSTRUMENT LOCATED AT THE SITE BEING CHECKED.
34. CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN THE HOURS OF 9:00 A.M. AND 6:00 P.M. SATURDAYS. NO CONSTRUCTION ACTIVITIES SHALL BE PERMITTED OUTSIDE OF THESE PERMITTED HOURS OR ON SUNDAY AND FEDERAL HOLIDAYS.
35. CONSTRUCTION CONTRACTORS SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.
36. CONSTRUCTION CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
37. CONSTRUCTION CONTRACTORS SHALL USE LOW SULFUR FUEL FOR ALL STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
38. CONSTRUCTION PARKING SHALL BE ONSITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH CITY CONSTRUCTION REQUIREMENTS.
39. THE SPEED OF TRUCKS ONSITE SHALL BE LIMITED TO 15 MPH.
40. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE CITY AND/OR COUNTY.
41. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-ROAD PARKING, MATERIALS LAYDOWN OR THOSE AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKOUT TO THE PUBLIC RIGHT OF WAY.
42. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
    A. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 1-800-242-4022 FOR THE DAILY SMOG FORECAST.
    B. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE MANAGER OF BUILDING AND SAFETY.
    C. WHERE FEASIBLE, ON-ROAD VEHICLES AND OFF-ROAD EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE (5) MINUTES.
43. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL WHEN WIND GUST EXCEED 25 MPH:
    A. TERMINATION/MODIFICATION OF OPERATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE.
    B. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT OPERATIONS.
    C. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE.
44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW-SULFER FUEL AS REQUIRED BY SCAQMD REGULATIONS.
45. THE CONTRACTOR SHALL UTILIZE MEASURES TO PREVENT DIRT FROM BEING TRACKED, WASHED, BLOWN OR OTHERWISE CONVEYED ONTO PAVED ROADWAYS, AND WILL WASH OR SWEEP CONSTRUCTION ACCESS POINTS ON A ROUTINE BASIS OR AS FREQUENTLY SPECIFIED BY THE CITY AT A PREGRADE MEETING AS WELL AS WHENEVER DIRT IS VISIBLE MORE THAN 50 FEET FROM THE ACCESS POINT INDEPENDENT OF THE ROUTINE CLEAN UP SCHEDULE.
46. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY HAULED MATERIAL AND THE TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS DURING TRANSPORTATION.

UTILITY GENERAL NOTES

1. ALL WATER LINES 3" AND SMALLER SHALL BE SCHEDULE 80 PVC, PER ASTM D-1784 WITH SOLVENT WELD FITTINGS. ALL WATER LINES 4" AND GREATER SHALL BE CLASS 150 C900 PVC.
2. WATER MAIN AND SEWER MAIN CROSSINGS SHALL COMPLY WITH STATE AND COUNTY HEALTH DEPARTMENT REGULATIONS. WATER SERVICE LINES AND SEWER LATERALS SHALL NOT BE IN THE SAME TRENCH. TEN FOOT MINIMUM HORIZONTAL CLEARANCE REQUIRED. WATER MAINS SHALL CLEAR ABOVE ALL SEWER LATERALS BY A MINIMUM OF ONE FOOT VERTICAL CLEARANCE OR UNDER BY 3' MINIMUM. WHEN WATER LINE CROSSES UNDER SEWER, SEWER SHALL BE ENCASED IN CONCRETE 10' EACH SIDE OF CROSSING.
3. MINIMUM WATER LINE COVER SHALL BE 30" FOR 3" DIAMETER AND SMALLER, 36" OF COVER FOR 4" DIAMETER AND LARGER.
4. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TESTS OF ALL TRENCH BACKFILL AND SUBMIT THEM TO THE CONSTRUCTION MANAGER FOR APPROVAL. ALL BACKFILL SHALL HAVE A SAND EQUIVALENT OF 30 OR BETTER.
5. WATER SERVICE CONNECTION TO THE BUILDINGS SHALL BE BY THE BUILDING PLUMBING CONTRACTOR.
6. MINIMUM BEARING AREA FOR THRUST BLOCKS SHALL BE ACCORDING TO THE THRUST BLOCK SCHEDULE SHOWN PER DETAIL ON THESE PLANS.
7. A PIPE "DEFLECTOR' OR "REROUNDER" SHALL NOT BE USED TO REROUND OVERDEFLECTED PIPES.
8. ALL VALVE AND CLEANOUT COVERS TO HAVE TRAFFIC RATED VANDAL PROOF COVERS AND ADJUSTED BY CONTRACTOR TO FINISH GRADE AFTER PAVING. ALL COVERS SHALL INDICATE "S" FOR SEWER, "W" FOR WATER, AND "SD" FOR STORM DRAIN.
10. UNDERGROUND STEEL UTILITIES SHOULD BE PROTECTED FROM CORROSION WITH 40 MIL EXTRUDED POLYETHYLENE, 20 MIL PLASTIC TAPE OVER PRIMER PER AWWA STANDARD C209, OR HOT APPLIED COAL TAR ENAMEL OR TAPE PER AWWA STANDARD C203.
11. BARE STEEL APPURTENANCES SUCH AS BOLTS, JOINT HARNESSES OR FLEXIBLE COUPLINGS SHOULD BE COATED WITH A COAL TAR OR RUBBER-BASED MASTIC AFTER ASSEMBLY.
12. SEWER PIPE SHOWN ON PLAN SHALL COMPLY WITH SECTION 207-16 "ABS COMPOSITE PIPE", 207-17 "POLYVINYL CHLORIDE PLASTIC PIPE", 207-15 "ABS SOLID WALL PIPE" OR 207-8 "VITRIFIED CLAY PIPE" OF THE STANDARD SPECIFICATIONS. "PVC" AND "ABS SOLID WALL PIPE" TO HAVE A STANDARD DIMENSION RATIO (SDR) OF 26 OR LESS. A PIPE "DEFLECTOR" OR "REROUNDER" SHALL NOT BE USED TO REROUND OVERDEFLECTED PIPES.
13. CONTRACTOR SHALL EXPOSE ALL EXISTING WATER & SEWER PIPELINES AT PROPOSED CONNECTION POINTS TO CONFIRM MATERIAL TYPES AND LOCATION PRIOR TO BEGINNING CONSTRUCTION.
14. ALL WATERLINES SHALL HAVE UNDERGROUND WARNING TAPE PLACED 12" ABOVE THE LINES IN THE TRENCH. NON-METALLIC LINES SHALL HAVE METALLIC LINED TAPE.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR AND COORDINATE THE RELOCATION OF ANY EXISTING UTILITIES DEEMED NECESSARY BY THE PROPOSED IMPROVEMENT.
16. WHENEVER IT BECOMES NECESSARY TO TUNNEL UNDER EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL SUPPORT THOSE IMPROVEMENTS IN A MANNER APPROVED BY THE PROJECT ENGINEER OR THE CONTRACTOR SHALL SAWCUT, REMOVE AND REPLACE THOSE IMPROVEMENTS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. PRIOR TO PLACING OF UNDERGROUND UTILITIES, THE LOCATION OF ALL UNDERGROUND FACILITIES (ELECTRICAL, TELEPHONE, CABLE TV, GAS, ETC.) SHALL BE MARKED.
18. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES (BY POTHOLING OR OTHER MEANS), CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) 800/227-2600 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO LOCATE EXISTING UTILITIES.
19. CONTRACTOR SHALL OBTAIN ANY REQUIRED O.S.H.A. PERMITS PRIOR TO ANY EXCAVATIONS.
20. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
21. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL PAY A REGISTERED OR LICENSED LAND SURVEYOR OR ENGINEER TO RESET SUCH MONUMENTS, UNLESS OTHERWISE SPECIFIED OR DESIGNATED.
22. ALL SEWER PIPES SHALL BE INSTALLED AT STRAIGHT GRADES BETWEEN INVERT ELEVATIONS INDICATED. IN NO CASE SHALL SEWERS BE INSTALLED AT SLOPES LESS THAN THE FOLLOWING:
    8" SEWER / S=0.0039 6" SEWER / S=0.0050 4" SEWER / S=0.0200
23. ALL CHANGES IN HORIZONTAL ALIGNMENT OF SEWER AND STORM DRAIN PIPE SHALL BE ACCOMPLISHED BY USE OF MANUFACTURED FITTINGS AND ELBOWS. ALL BRANCH CONNECTIONS SHALL BE ACCOMPLISHED USING WYES. CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE U.P.C. CLEANOUTS ARE REQUIRED AT ALL HORIZONTAL ANGLE POINTS AND AT INTERVALS NOT TO EXCEED THE U.P.C. WETHER INDICATED GRAPHICALLY ON THE PLANS OR NOT.
24. THRUST BLOCKS TO BE CONSTRUCTED AS NECESSARY PER UPC. SEE THRUST BLOCK SCHEDULE ON UTILITY DETAIL SHEET FOR SPECIFICATIONS.
25. CLEANOUTS AND VALVES TO BE PLACED AT INTERVALS AS SPECIFIED IN THE UPC, REGARDLES OF WHETTHER OR NOT SHOWN ON THESE PLANS.

DEMOLITION GENERAL NOTES

1. THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES OR WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF THE SITE AND SHALL REMOVE AND DISPOSE OF ALL STRUCTURES ABOVE AND OR BELOW GROUND. ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE HANDLED AND REMOVED AS REQUIRED BY LOCAL AND OR STATE LAWS AT NO COST TO THE OWNER.
3. EXISTING WATER LATERALS AND IRRIGATION LINES SHALL BE CUT AND CAPPED AT THE LIMIT OF THE DEMO AREA SHOWN. ALL CAPPED ENDS FOR IRRIGATION SHALL BE BROUGHT TO THE SURFACE FOR POSSIBLE FUTURE CONNECTIONS. ALL WATER SERVICES SHALL BE TERMINATED IN A FLUSH UTILITY BOX FOR FUTURE ACCESS.
4. EXISTING SEWER LATERALS SHALL BE CUT AND PLUGGED AT THE LIMIT OF THE DEMO AREA SHOWN. ALL PLUGGED ENDS FOR LATERALS WILL BE BROUGHT TO GRADE WITH A STANDARD SEWER CLEAN OUT.
5. EXISTING ELECTRICAL LINES SHALL BE TEMPORARILY REROUTED AROUND THE LIMITS OF THE DEMO AREA. ALL TEMPORARY WIRING CONNECTIONS SHALL BE TERMINATED IN AN ABOVE GROUND RISER.
6. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DAMAGE TO ALL EXISTING HARDSCAPE IMPROVEMENTS , UTILITY FACILITIES, AND LANDSCAPING FEATURES ARE NOT TO BE REMOVED.
7. ALL JOIN LINES SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO JOINING.
8. ALL EXISTING OBJECTIONABLE MATERIALS THAT CONFLICT WITH PROPOSED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BUILDING FOUNDATIONS, UTILITIES AND APPURTENANCES, TREES, SIGNS, AND STRUCTURES, ETC. SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE INDICATED HEREIN, OR AS DIRECTED BY THE ARCHITECT.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING CURB FROM DAMAGES CAUSED BY HIS OPERATIONS. ANY CURBS DAMAGED DURING HIS OPERATIONS SHALL BE SAWCUT AND REPLACED AT NO COST TO THE OWNER. ANY EXISTING CURB IDENTIFIED AS POTENTIALLY NEEDING TO BE REPLACED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR THE OWNERS REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
10. THE CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR ALL CLEARING AND GRUBBING OPERATIONS AS NECESSARY TO COMPLETE THE WORK, INCLUDING TRANSPORTATION AND DISPOSAL OF ALL REMOVED MATERIALS, AND ALL ASSOCIATED COSTS.

AMERICANS WITH DISABILITIES NOTES

1. ALL SLOPES IN THE DIRECTION OF TRAVEL SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW THE MAXIMUM ALLOWED GRADES BY THE AMERICANS WITH DISABILITIES ACT ACCESS GUIDE (CBC ADAAG) IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH THE ADAAG AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE DESIGN ENGINEER SHALL BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
2. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO (CBC ADA AG)ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY ADAAG ARE SUBJECT TO REJECTION BY THE INSPECTOR AND MAY BE REQUIRED TO BE REMOVED AND REPLACED.
3. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUB-CONTRACTORS DURING THE GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER OR SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF ADAAG RELATED ITEMS OF THIS PROJECT BY THE INSPECTING AUTHORITY OR OTHER AFFECTED PARTIES.
4. COMPLIANCE WITH THE(CBC ADAAG)CONSTRUCTION REQUIREMENTS WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

PRIVATE ENGINEERS NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

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

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

EROSION CONTROL NOTES

1. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIAL SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.
2. DEVICES SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKSENGINEER OR HIS REPRESENTATIVE. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY, WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT.
3. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS. ALL GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED.
4. THE FACES OF CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION. EROSION PROTECTION SHALL CONSIST OF EFFECTIVE PLANTING OF ALL SLOPES IN EXCESS OF FIVE (5) FEET HIGH UNLESS OTHERWISE APPROVED BY THE OWNER. SLOPES EXCEEDING FIFTEEN (15) FEET HIGH MAY REQUIRE AN ADEQUATE SPRINKLER SYSTEM, AS DETERMINED BY THE ARCHITECT. THE SLOPE PROTECTION SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL INSPECTION.
5. A 24 HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET.
6. NOTICE TO PROCEED WILL NOT BE ISSUED WITHOUT AN APPROVED EROSION CONTROL PLAN. EROSION CONTROL SHALL BE IMPLEMENTED DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15).

PAVING GENERAL NOTES

1. A PRE-PAVING MEETING IS REQUIRED 48 HOURS PRIOR TO PAVING. THE PROJECT CIVIL ENGINEER AND THE PROJECT INSPECTOR SHALL BE IN ATTENDANCE.
2. THE AGGREGATE BASE SECTION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY. MAXIMUM AND FIELD DENSITY TO BE DETERMINED IN ACCORDANCE WITH ASTM D1557-91 MODIFIED.
3. A "TACK COAT" (PAINT BINDER) SHALL BE APPLIED BETWEEN PAVEMENT LAYERS AND ON EXISTING PAVEMENT TO BE RESURFACED AT A RATE OF 0.10 GAL./SQ.YD. THE TACK COAT SHALL BE A TYPE SSI ASPHALT EMULSION.
4. THE ASPHALT CONCRETE FOR PARKING LOTS SHALL BE TYPE III, AS SPECIFIED IN SECTION 400-4.3, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST APPROVED EDITION. THE PAVING ASPHALT TO BE MIXED WITH AGGREGATE SHALL CONFORM TO THE PROVISIONS OF SECTION 203.1 AND SHALL BE STEAMED REFINED ASPHALT WITH A VISCOSITY GRADE OF AR-4000 MINIMUM OR AR-8000 MAXIMUM TO THE SATISFACTION OF THE PUBLIC WORKS ENGINEER. ASPHAULT MIX DESIGN SHALL BE AVAILABLE FOR SUBMITTAL FOR APROVAL.
5. ASPHALT CONCRETE PAVEMENT SHALL BE DISTRIBUTED AND SPREAD IN ACCORDANCE WITH SECTION 302-5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. THE MAXIMUM LIFT DURING SPREADING SHALL BE 3" COMPACTED THICKNESS. FIRST LIFTS TO BE CLASS B, FINAL PASSES TO BE CLASS C2.
6. A QUALIFIED PAVING INSPECTOR IS REQUIRED DURING PAVING OPERATIONS AT THE JOB SITE AND AT THE ASPHALT PLANT. ASPHALT TICKETS SHALL BE PROVIDED TO THE INSPECTOR FOR ALL LOADS.
7. ALL ASPHALT AREAS SHALL BE PAVED AT A MINIMUM GRADIENT OF 1.25%.

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GRADING CONSTRUCTION NOTES

(1) CONSTRUCT 4" PCC (520-C-2500) OVER 2" SAND WITH THICKENED EDGE PER DETAIL "A" ON SHEET C3.2
(2) CONSTRUCT 6" PCC CURB ONLY PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE II
(3) CONSTRUCT CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE I
(4) CONSTRUCT 0" CURB PER DETAIL "B" ON SHEET C3.2
(5) CONSTRUCT 0" TO 6" CURB TRANSITION PER DETAIL "C" ON SHEET C3.2
(6) CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STANDARD NO. 302 TYPE
(7) CONSTRUCT "U" GUTTER PER DETAIL "D" ON SHEET C3.2
(8) CONSTRUCT FIRE HYDRANT BOLLARDS PER ARCHITECTS PLANS AND SPECIFICATIONS, REF. DETAIL J11 ON SHEET A10.2.3
(9) CONSTRUCT 5' x 20' LOADING AREA PER DETAIL "E" ON SHEET C3.2
(10) CONSTRUCT MOW STRIP PER ARCHITECTS PLANS AND SPECIFICATIONS
(11) CONSTRUCT DRAIN/INLET PER ONSITE UTILITY PLANS, SEE COMPOSITE UTILITY PLAN FOR CONTINUATION
(12) CONSTRUCT RETAINING WALL PER STRUCTURAL ENGINEERS PLANS AND SPECIFICATIONS
(13) CONSTRUCT TREE WELL/ PLANTER WALL PER ARCHITECTS PLANS AND SPECIFICATIONS
(14) CONSTRUCT DEEPENED FOOTING DEPTH PER PLAN
(15) CONSTRUCT FREESTANDING TRASH ENCLOSURE WALL PER ARCHITECTS PLANS AND SPECIFICATIONS
(16) CONSTRUCT HANDRAIL PER ARCHITECTS PLANS AND SPECIFICATIONS
(17) CONSTRUCT FENCING/GATES PER ARCHITECTS PLANS AND SPECIFICATIONS
(18) FURNISH AND INSTALL DRINKING FOUNTAIN PER ARCHITECTS PLANS AND SPECIFICATIONS REF. DETAIL J7 ON SHEET A10.13
(19) CONSTRUCT STEPS PER ARCHITECTS PLANS AND SPECIFICATIONS
(20) ADJUST EXISTING MANHOLE TO PROPOSED FINISH GRADE
(21) CONSTRUCT 6" PCC (520-C-2500) OVER 2" SAND WITH THICKENED EDGE PER DETAIL "A" ON SHEET C3.2
(22) JOIN PROPOSED FINISHED SURFACE TO EXIST. FINISHED SURFACE & MATCH GRADE
(23) PROTECT IN PLACE

DOMESTIC WATER CONSTRUCTION NOTES

[1] HOT-TAP EXISTING 12" CML&AW WATER MAIN PER W.M.W.D. SPECIFICATIONS
[2] FURNISH AND INSTALL 2" DOMESTIC WATER SERVICE WITH BACKFLOW ASSEMBLY PER W.M.W.D. STD. DWG. NO. W-0110a (METER SUPPLIED AND INSTALLED BY W.M.W.D.
[3] FURNISH AND INSTALL 2" REDUCED PRESSURE BACKFLOW ASSEMBLY (FEBCO 880 OR CIVIL ENGINEER APPROVED EQUAL). TO BE SUPPLIED AND INSTALLED BY CONTRACTOR
[4] FURNISH AND INSTALL 2" PVC SCHEDULE 80 WATER LINE
[5] FURNISH AND INSTALL RESILIENT SEAT GATE VALVE SIZE TO MATCH PIPE DIAMETER PER W.M.W.D. STD. DWG. NO. W-0150
[6] FURNISH AND INSTALL THRUST BLOCK PER SCHEDULE ON SHEET C4.2
[7] FURNISH AND INSTALL 2 1/2" SCHEDULE 80 PVC WATERLINE.

FIRE CONSTRUCTION NOTES

[10] FURNISH AND INSTALL 8" DOUBLE DETECTOR CHECK ASSEMBLY WITH ATTACHED F.D.C. PER W.M.W.D. STD. DWG. NO. W-0530P1
[11] FURNISH AND INSTALL 8" PVC C900 FIRE LINE
[12] FURNISH AND INSTALL 6" PVC C900 FIRE LINE
[13] FURNISH AND INSTALL POST INDICATOR VALVE (MUELLER A-20811 OR CIVIL ENGINEER APPROVED EQUAL).
[14] CONSTRUCT THRUST BLOCK PER THRUST BLOCK SCHEDULE ON SHEET C4.2
[15] INSTALL FIRE HYDRANT ASSEMBLY (SUPER) PER W.M.W.D. STD. DWG. NO. W-0610
[16] FURNISH AND INSTALL 6" RESILIENT SEAT GATE VALVE
[17] FURNISH AND INSTALL WHARF HYDRANT VALVES (CROCKER FIGURE NO. 5235-5245)

SEWER CONSTRUCTION NOTES

[20] FURNISH AND INSTALL 4" PVC SDR 35 SEWER PIPE
[21] FURNISH AND INSTALL 6" PVC SDR 35 SEWER PIPE
[22] FURNISH AND INSTALL CLEANOUT PER DETAIL "M" ON SHEET C4.2
[23] FURNISH AND INSTALL SEWER LATERAL PER CITY OF RIVERSIDE STANDARD DWG. NO. 562
[24] CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DWG NO. 500
[25] PROTECT EXISTING SEWER MAIN IN PLACE

STORM DRAIN CONSTRUCTION NOTES

[30] FURNISH AND INSTALL 4" PVC SDR 35 STORM DRAIN PIPE
[31] FURNISH AND INSTALL 6" PVC SDR 35 STORM DRAIN PIPE
[32] FURNISH AND INSTALL 8" PVC SDR 35 STORM DRAIN PIPE
[33] FURNISH AND INSTALL 10" PVC SDR 35 STORM DRAIN PIPE
[34] FURNISH AND INSTALL 12" PVC SDR 35 STORM DRAIN PIPE
[35] FURNISH AND INSTALL PVC CLEANOUT PER DETAIL "M" ON SHEET C4.2
[36] FURNISH AND INSTALL 12" PRECAST BASIN (BROOKS 1212) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL
[37] FURNISH AND INSTALL 18" PRECAST BASIN (BROOKS 1818) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL
[38] FURNISH AND INSTALL PLANTER DRAIN (SMITH 2673-U) WITH VANDAL PROOF DOME OR CIVIL ENGINEER APPROVED)
[39] CONNECT TO STORM DRAIN LINE PER DETAIL "P" ON SHEET C4.2
[40] NOTE NOT USE

GAS CONSTRUCTION NOTES

[50] FURNISH AND INSTALL GAS LINE PER PLUMBING ENGINEER'S PLANS AND SPECIFICATIONS.

T. 3S., R. 4W. SECTION 20.

VICINITY MAP

NOT TO SCALE

LEGEND

AB	CRUSHED AGGREGATE BASE	MVC	MIDDLE OF VERTICAL CURVE
AC	ASPHALTIC CONCRETE	(N)	NORTHERLY
BS	BOTTOM OF STEP	OC	ON CENTER
BVC	BEGIN VERTICAL CURVE	P/A	PLANTER AREA
CB	CATCH BASIN	PCC	PORTLAND CEMENT CONCRETE
CF	CURB FACE	PI	POINT OF VERTICAL INTERSECTION
C/L	CENTERLINE	P/L	PROPERTY LINE
DF	DEEPENED FOOTING	POC	POINT OF CONNECTION
(E)	EASTLERY	PP	POWER POLE
EP	EDGE OF PAVEMENT	PT	POINT
EVC	END VERTICAL CURVE	RAD	RADIUS
EX	EXISTING	RL	RIDGE LINE
FF	FINISHED FLOOR	R/W	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	(S)	SOUTHERLY
FS	FINISHED SURFACE	TC	TOP OF CURB
GB	GRADE BREAK	TF	TOP OF FOOTING
HP	HIGH POINT	TG	TOP OF GRATE
IE	INVERT ELEVATION	TRW	TOP OF RETAINING WALL
INV	INVERT ELEVATION	TS	TOP OF STEP
L/A	LANDSCAPE AREA	TW	TOP OF WALL
LF	LINEAR FEET	VC	VERTICAL CURVE
MH	MANHOLE	(W)	WESTERLY

INDICATES DOUBLE DETECTOR CHECK (DDC)
INDICATES MANHOLE (MH)
INDICATES BACKFLOW DEVICE (BFD)
INDICATES FIRE DEPARTMENT CONNECTION (FDC)
INDICATES WATER METER (WM)
INDICATES SUPER FIRE HYDRANT (FH)
INDICATES CLEANOUT (CO)
INDICATES DRAIN BOX
(#) INDICATES CONSTRUCTION NOTE
INDICATES HORIZONTAL CONTROL POINT
INDICATES PROPOSED CONTOUR
99 INDICATES EXISTING CONTOUR
INDICATES EDGE OF PAVEMENT
INDICATES GRADED SWALE
INDICATES PROPOSED WALL
INDICATES PROPOSED STORM DRAIN LINE
INDICATES PROPOSED SEWER LINE
INDICATES PROPOSED FIRE LINE
INDICATES PROPOSED WATER LINE
INDICATES AC PAVEMENT
INDICATES PCC SURFACING
INDICATES PCC (CROSS SECTION)

SHEET INDEX		
SHEET No.	SHEET TITLE	No.
C1.1	CIVIL TITLE SHEET	1
C2.1	TOPO SHEET	2
C3.1	PRECISE GRADING PLAN	3
C3.2	GRADING DETAIL SHEET	4
C4.1	COMPOSITE UTILITY PLAN	5
C4.2	UTILITY DETAIL SHEET	6
C5.1	HORIZONTAL CONTROL PLAN	7

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LAND SURVEYING
CONSTRUCTION MANAGEMENT
101 E. REDLANDS BOULEVARD
SUITE 148
REDLANDS, CA 92373
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FAX 909 - 792 - 8869

AS BUILT

KEY MAP

Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER
ERICK D POTTER
No. 53554
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

(SM) HMC ARCHITECTS

No.	Revisions/Submissions	Date:
△	Design Development Submittal	12/18/06
△	Building Department Submittal	03/29/07
△	Building Department Resubmittal	05/17/07
△		

Drawing Title

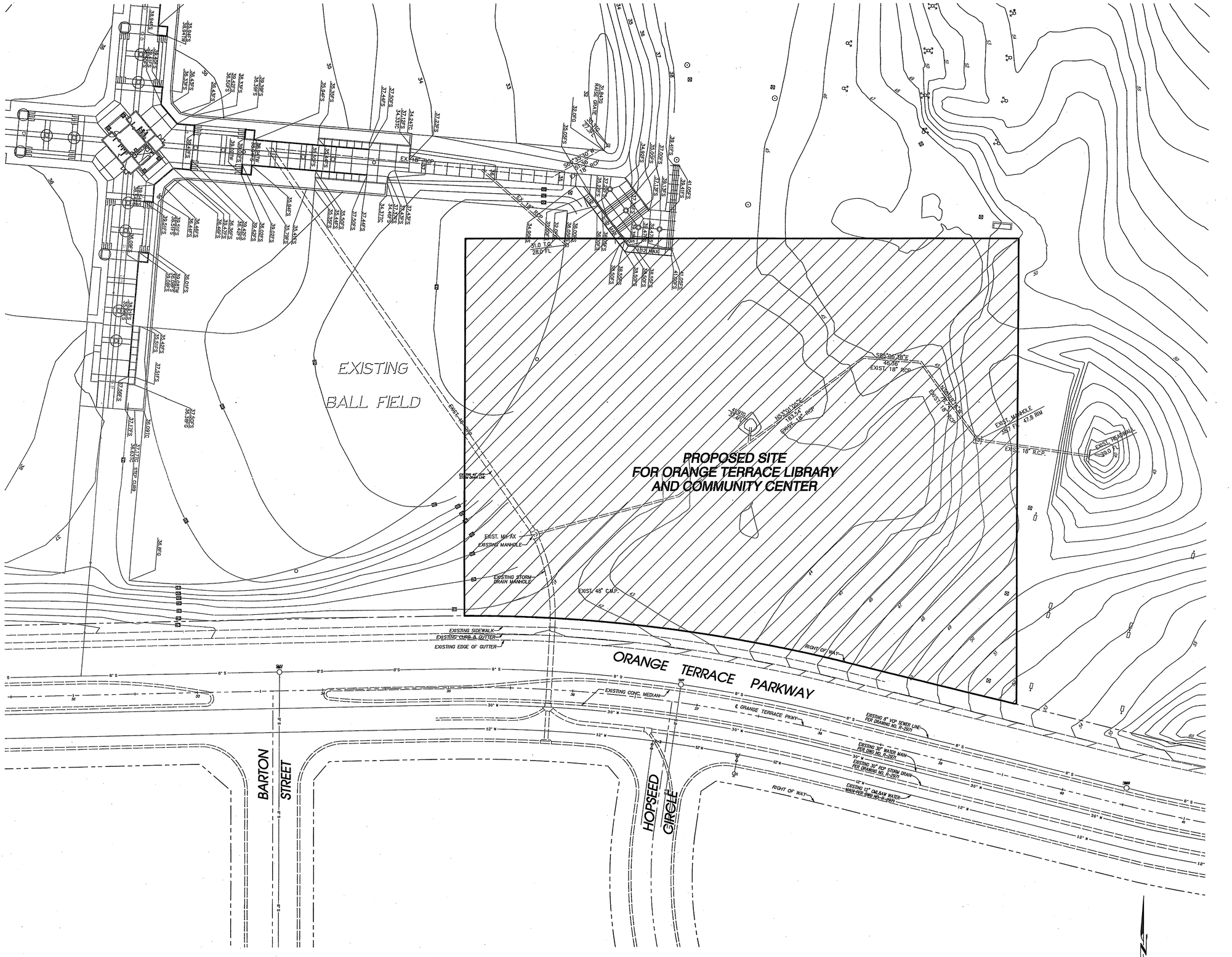
CIVIL TITLE SHEET

Architect Seal

LICENSED ARCHITECT
CHRISTOPHER RICHARD TAYLOR
NO. C-19759
REN. 2-24-09
STATE OF CALIFORNIA

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: AS SHOWN
Checked: EDP	Drawing No.
Reviewed: EDP	C1.1
Date: 05-17-07	Sheet 1 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/16/2007



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ARMSTRONG & BROOKS
CONSULTING ENGINEERS, INC.

BENCHMARK

P.K. NAIL AND TAG ON TOP OF 35' X 50' X 20' GRANITE BOULDER, 100' WESTERLY OF TRAUTWEIN ROAD AND 0.3 MILE NORTHERLY OF WOOD ROAD. FB 735/74

ASSESSOR'S PARCEL NO.

284-130-001 & PORTIONS OF 294-020-022 & 294-020-027

LEGAL DESCRIPTION

PORTION OF LOT 6 PER MB 251/26-28 TRACT 24641 & PORTION OF LOT 2 BLOCK 37 PER MB 6/13 ALESSANDRO TRACT OFFICIAL RECORDS OF RIVERSIDE COUNTY.

SOILS ENGINEER

CONVERSE CONSULTANTS
10391 CORPORATE DRIVE
REDLANDS, CA 92374
PH. (909) 796-0544 FAX (909) 796-7675

ARMSTRONG & BROOKS CONSULTING ENGINEERS

BENCHMARK ELEV:=XXX.XX

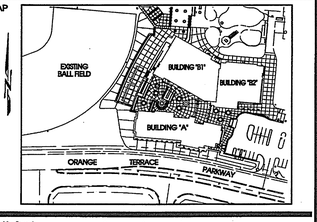
P.K. NAIL AND TAG ON TOP OF 35' X 50' X 20' GRANITE BOULDER, 100' WESTERLY OF TRAUTWEIN ROAD AND 0.3 MILE NORTHERLY OF WOOD ROAD. FB 735/74

TOPO LEGEND

- MANHOLE AS NOTED
- BRUSH/TREE LINE
- TREE
- EXISTING WALL
- EXISTING CHAIN LINK FENCE
- EXISTING EDGE OF PAVEMENT
- INDICATES LIMITS OF AREA IMPACTED BY PROJECT

AS BUILT

KEY MAP



Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER
ERIC D POPE
No. 53054
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
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RIVERSIDE, CA 92522

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1	Design Development Submittal	12/18/06
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4		

Drawing Title

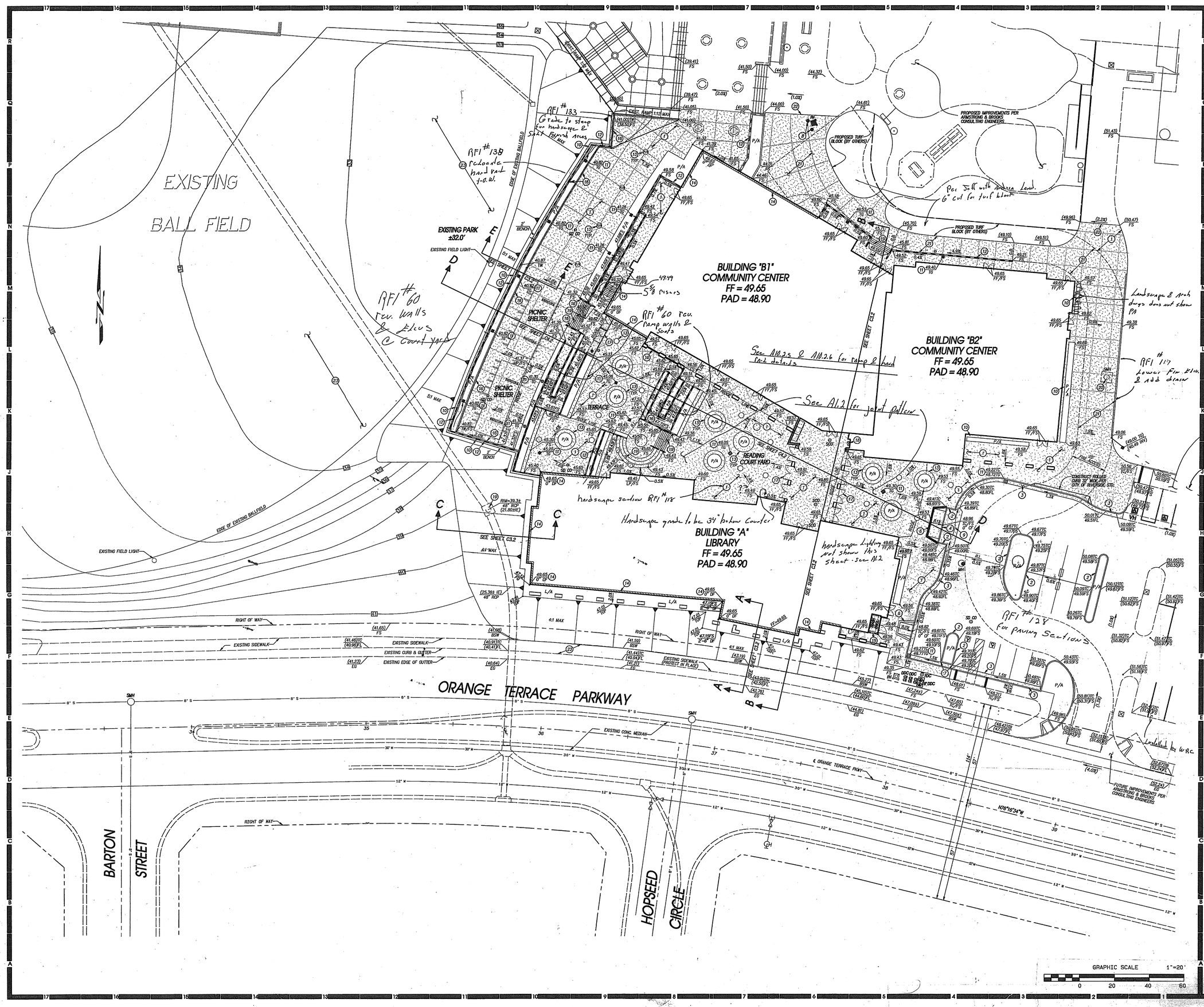
TOPOGRAPHY PLAN

Architect Seal

LICENSED ARCHITECT
CHRISTOPHER RICHARD TAYLOR
NO. C-19759
REN. 2-24-09
STATE OF CALIFORNIA

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: 1" = 30'
Checked: EDP	Drawing No. C2.1
Reviewed: EDP	
Date: 05-17-07	Sheet 2 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/16/2007



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GRADING CONSTRUCTION NOTES

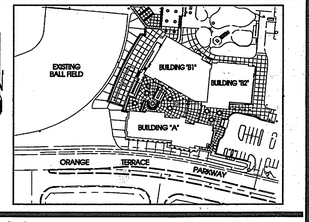
RFI #118

1. CONSTRUCT 4" PCC (520-C-2500) OVER 2" SAND WITH THICKENED EDGE PER DETAIL "A" ON SHEET C3.2
2. CONSTRUCT 6" PCC CURB ONLY PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE II
3. CONSTRUCT CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE I
4. CONSTRUCT 0" CURB PER DETAIL "B" ON SHEET C3.2
5. CONSTRUCT 0" TO 6" CURB TRANSITION PER DETAIL "C" ON SHEET C3.2
6. CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STANDARD NO. 302 TYPE
7. CONSTRUCT "U" GUTTER PER DETAIL "D" ON SHEET C3.2
8. CONSTRUCT FIRE HYDRANT BOLLARDS PER ARCHITECTS PLANS AND SPECIFICATIONS, REF. DETAIL J11 ON SHEET A10.2.3
9. CONSTRUCT 5' x 20' LOADING AREA PER DETAIL "E" ON SHEET C3.2
10. CONSTRUCT MOW STRIP PER ARCHITECTS PLANS AND SPECIFICATIONS
11. CONSTRUCT DRAIN/INLET PER ONSITE UTILITY PLANS, SEE COMPOSITE UTILITY PLAN FOR CONTINUATION
12. CONSTRUCT RETAINING WALL PER STRUCTURAL ENGINEERS PLANS AND SPECIFICATIONS
13. CONSTRUCT TREE WELL/ PLANTER WALL PER ARCHITECTS PLANS AND SPECIFICATIONS
14. CONSTRUCT DEEPENED FOOTING DEPTH PER PLAN
15. CONSTRUCT FREESTANDING TRASH ENCLOSURE WALL PER ARCHITECTS PLANS AND SPECIFICATIONS
16. CONSTRUCT HANDRAIL PER ARCHITECTS PLANS AND SPECIFICATIONS
17. CONSTRUCT FENCING/GATES PER ARCHITECTS PLANS AND SPECIFICATIONS
18. FURNISH AND INSTALL DRINKING FOUNTAIN PER ARCHITECTS PLANS AND SPECIFICATIONS REF. DETAIL J7 ON SHEET A10.13
19. CONSTRUCT STEPS PER ARCHITECTS PLANS AND SPECIFICATIONS
20. ADJUST EXISTING MANHOLE TO PROPOSED FINISH GRADE
21. CONSTRUCT 6" PCC (520-C-2500) OVER 2" SAND WITH THICKENED EDGE PER DETAIL "A" ON SHEET C3.2
22. JOIN PROPOSED FINISHED SURFACE TO EXIST. FINISHED SURFACE & MATCH GRADE
23. PROTECT IN PLACE

RFI #118

AS BUILT

KEY MAP



Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER RICHARD TAYLOR
No. 63554
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

Agency Approval

Project Title

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△		

Drawing Title

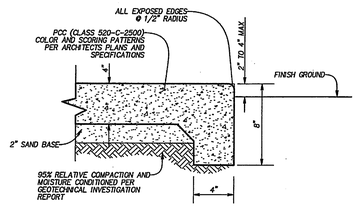
PRECISE GRADING PLAN

Architect Seal

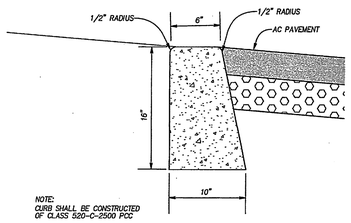
LICENSED ARCHITECT
CHRISTOPHER RICHARD TAYLOR
NO. C-19759
REN. 2-24-09
STATE OF CALIFORNIA

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: 1" = 20'
Checked: EDP	Drawing No. C3.1
Reviewed: EDP	
Date: 05-17-07	Sheet 3 of 7

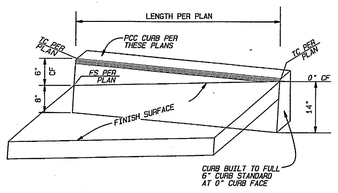
FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/18/2007



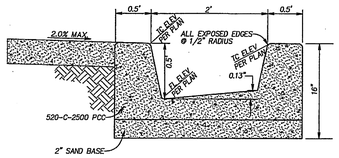
① **DETAIL 'A'**
THICKENED PCC EDGE
N.T.S.



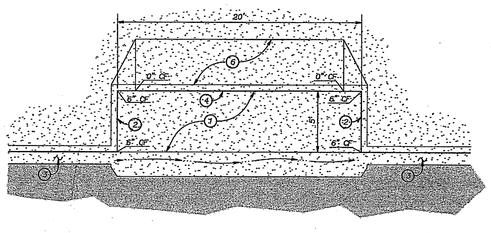
④ **DETAIL 'B'**
6" CURB
N.T.S.



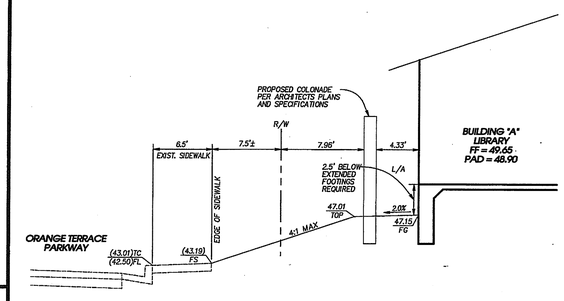
③ **DETAIL 'C'**
0" TO 6" CURB TRANSITION
NOT TO SCALE



⑦ **DETAIL 'D'**
CONCRETE "U" GUTTER
NOT TO SCALE



⑨ **DETAIL 'E'**
5' x 20' LOADING AREA
NOT TO SCALE



SECTION A-A
VIEW ORANGE TERRACE PARKWAY
NOT TO SCALE

GRADING CONSTRUCTION NOTES

1. CONSTRUCT 4" PCC (520-C-2500) OVER 2" SAND WITH THICKENED EDGE PER DETAIL "A" ON SHEET C3.2
2. CONSTRUCT 6" PCC CURB ONLY PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE II
3. CONSTRUCT CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD NO. 200 TYPE I
4. CONSTRUCT 0" CURB PER DETAIL "B" ON SHEET C3.2
5. CONSTRUCT 0" TO 6" CURB TRANSITION PER DETAIL "C" ON SHEET C3.2
6. CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STANDARD NO. 302 TYPE
7. CONSTRUCT "U" GUTTER PER DETAIL "D" ON SHEET C3.2
8. CONSTRUCT FIRE HYDRANT BOLLARDS PER ARCHITECTS PLANS AND SPECIFICATIONS, REF: DETAIL J7/1 ON SHEET A10.2.3
9. CONSTRUCT 5' x 20' LOADING AREA PER DETAIL "E" ON SHEET C3.2
10. CONSTRUCT MOW STRIP PER ARCHITECTS PLANS AND SPECIFICATIONS
11. CONSTRUCT GRADIN/INLET PER ONSITE UTILITY PLANS, SEE COMPOSITE UTILITY PLAN FOR CONTINUATION
12. CONSTRUCT RETAINING WALL PER STRUCTURAL ENGINEERS PLANS AND SPECIFICATIONS
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14. CONSTRUCT DEEPENED FOOTING DEPTH PER PLAN
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16. CONSTRUCT HANDRAIL PER ARCHITECTS PLANS AND SPECIFICATIONS
17. CONSTRUCT FENCING/GATES PER ARCHITECTS PLANS AND SPECIFICATIONS
18. FURNISH AND INSTALL DRINKING FOUNTAIN PER ARCHITECTS PLANS AND SPECIFICATIONS REF: DETAIL J7 ON SHEET A10.13
19. CONSTRUCT STEPS PER ARCHITECTS PLANS AND SPECIFICATIONS
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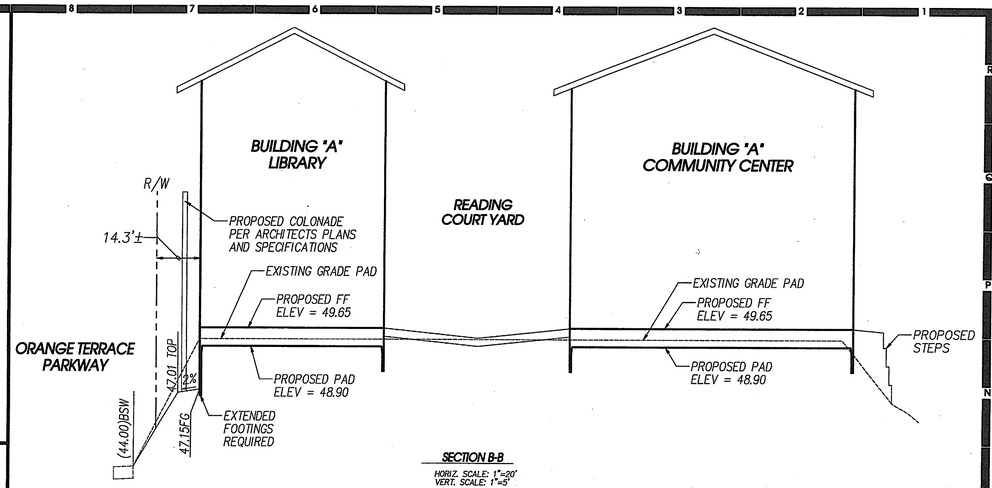
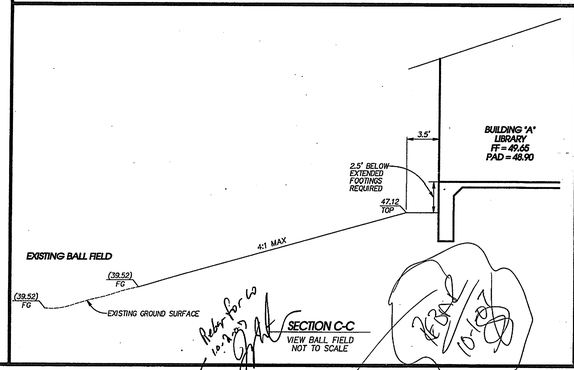
22. JOIN PROPOSED FINISHED SURFACE TO EXIST. FINISHED SURFACE & MATCH GRADE
23. PROTECT IN PLACE

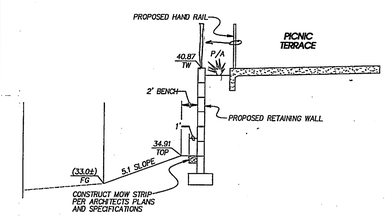


SECTION B-B
HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=5'

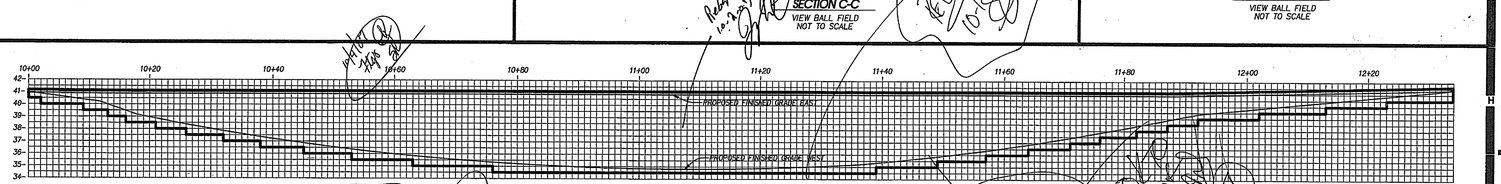


SECTION C-C
VIEW BALL FIELD
NOT TO SCALE

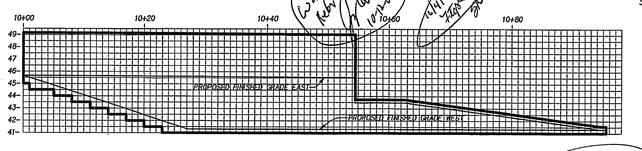
RFI #138 relocate hand rail



SECTION E-E
VIEW BALL FIELD
NOT TO SCALE



WALL 'A'
SCALE: HORIZ 1"=10' VERT 1"=5"



WALL 'B'
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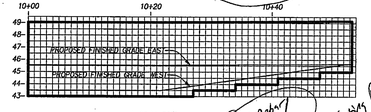

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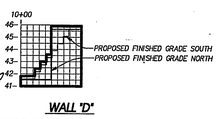

WALL 'D'
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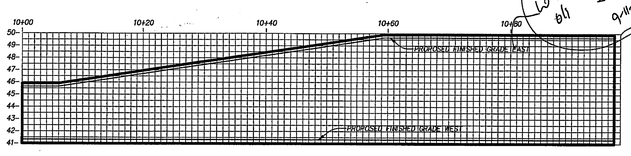

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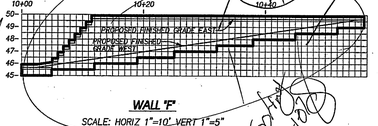

WALL 'F'
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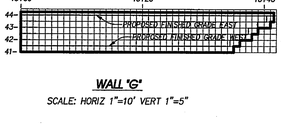

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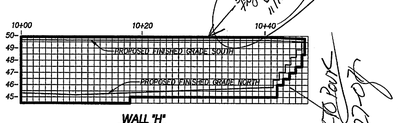

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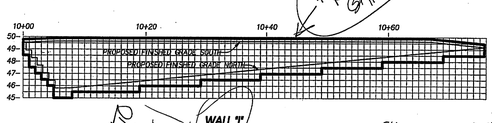

WALL 'I'
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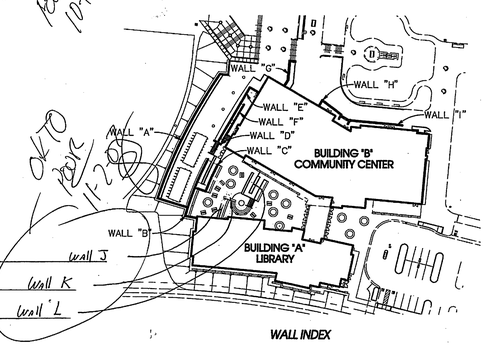

WALL INDEX

F16 Wall Wall J
Wall Wall K
F16 Wall Wall L

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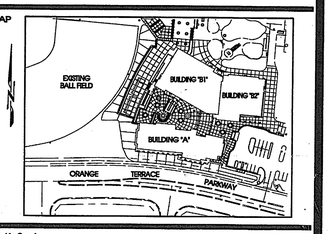
CIVIL ENGINEERING · LAND SURVEYING
PLANNING · CONSTRUCTION MANAGEMENT
101 E. REDLANDS BOULEVARD
SUITE 146
REDLANDS, CA 92373
TELE 909 - 792 - 5969
FAX 909 - 792 - 8869

AS BUILT

KEY MAP



Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER EDP No. 53004 Exp. 6-30-07 CIVIL STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
1	Design Development Submittal	12/18/06
2	Building Department Submittal	03/29/07
3	Building Department Resubmittal	05/17/07
4		

Drawing Title

GRADING DETAIL SHEET

Architect Seal

REGISTERED ARCHITECT CHRISTOPHER RICHARD TAYLOR NO. C-19769 REN 2-24-08 STATE OF CALIFORNIA

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: AS SHOWN
Checked: EDP	Drawing No. C3.2
Reviewed: EDP	
Date: 05-17-07	Sheet 4 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/16/2007

DOMESTIC WATER		
PIPE	BEARING	DISTANCE
DW1	N13°43'26"E	74.19'
DW2	N13°43'26"E	123.34'
DW3	S76°16'34"E	17.32'
DW4	N58°43'26"E	12.40'
DW5	N31°16'34"W	6.06'

SEWER DATA		
PIPE	BEARING	DISTANCE
SW1	N13°43'26"E	117.33'
SW2	S31°16'34"E	17.96'
SW3	S76°16'34"E	76.28'
SW4	N31°16'34"W	5.24'
SW5	S13°43'26"W	33.87'
SW6	N58°43'26"E	6.91'
SW7	N58°43'26"E	5.24'
SW8	N13°43'26"E	6.06'
SW9	S58°43'26"W	2.84'
SW10	S76°16'34"E	10.10'

FIRE DATA		
PIPE	BEARING	DISTANCE
FR1	N13°43'26"E	96.26'
FR2	N13°43'26"E	104.50'
FR3	S76°16'34"E	33.32'
FR4	N58°43'26"E	75.98'
FR5	N05°00'00"E	115.53'
FR6	N85°00'00"W	11.00'
FR7	N85°00'00"W	108.96'
FR8	N40°00'00"W	79.74'
FR9	N76°16'34"W	153.74'
FR10	S53°26'34"E	60.10'

STORM DRAIN DATA		
PIPE	BEARING	DISTANCE
SD1	S72°24'15"E	66.96'
SD2	S75°58'20"E	90.16'
SD3	N35°58'20"E	2.83'
SD4	S14°01'40"E	6.32'
SD5	S59°01'40"E	6.39'
SD6	N14°01'40"E	11.25'
SD7	N59°01'40"E	2.83'
SD8	S30°00'00"E	17.53'
SD9	N27°31'15"E	5.66'
SD10	S17°28'45"E	12.61'
SD11	N17°28'45"E	28.84'
SD12	S85°00'00"E	64.02'
SD13	N40°00'00"E	31.05'
SD14	N05°00'00"E	3.83'
SD15	N50°00'00"E	6.42'
SD16	N85°00'00"E	71.19'
SD17	S40°00'00"E	2.92'
SD18	N17°36'00"E	7.35'
SD19	N27°24'00"E	160.30'
SD20	N62°36'00"E	12.76'
SD21	S62°36'00"E	15.31'
SD22	S62°36'00"E	15.99'
SD23	S62°36'00"E	23.69'
SD24	S62°36'00"E	24.98'
SD25	S62°36'00"E	14.75'
SD26	S72°24'00"E	15.32'
SD27	N17°36'00"E	4.24'
SD28	S62°36'00"E	13.98'
SD29	N17°36'00"E	9.45'
SD30	S27°24'00"E	24.18'
SD31	N72°24'00"E	4.51'
SD32	S62°36'00"E	20.64'
SD33	N17°36'00"E	9.48'
SD34	N17°36'00"E	5.66'
SD35	N62°36'00"W	41.91'
SD36	S17°36'00"E	4.24'
SD37	S72°24'00"E	22.28'
SD38	S62°36'00"E	12.59'
SD39	S27°24'00"E	17.23'
SD40	N17°36'00"E	13.47'
SD41	S62°36'00"E	22.91'
SD42	S72°24'00"E	3.41'
SD43	S72°24'00"E	4.01'
SD44	S62°36'00"E	13.94'
SD45	N27°24'00"E	13.44'
SD46	N27°24'00"E	34.43'
SD47	S72°24'00"E	4.24'
SD48	S62°36'00"E	14.16'
SD49	N73°45'51"E	69.39'
SD50	N13°53'15"E	70.85'
SD51	S88°53'15"W	42.41'

FIRE SPECIAL DISTRIBUTION NOTES:

1. ALL PIPING FOR FIRE DISTRIBUTION TO BE 36" MINIMUM COVER.
2. ALL PIPING FOR FIRE DISTRIBUTION TO BE HYDROSTATIC TESTED AT 200 PSI FOR 2 HOURS. PIPING TO BE FLUSHED PRIOR TO CONNECTING TO THE OVERHEAD SYSTEM.

EXISTING BALL FIELD

EXISTING PARK ±32.0'

BUILDING "B1" COMMUNITY CENTER FF = 49.65 PAD = 48.90

BUILDING "B2" COMMUNITY CENTER FF = 49.65 PAD = 48.90

BUILDING "A" LIBRARY FF = 49.65 PAD = 48.90

ORANGE TERRACE PARKWAY

BARTON STREET

HOPSEED CIRCLE

EXISTING 18" RCP STORM DRAIN LINE

EXISTING 48" CIPP STORM DRAIN LINE

EXISTING 48" RCP STORM DRAIN PER DWG NO. R-2971

EXISTING 8" VCP SEWER LINE PER DRAWING NO. R-2971

EXISTING 48" STORM DRAIN PIPE PER DWG NO. 2971

(25.36A IE) 48" RCP

EXISTING 12" ADS N-12 STORM DRAIN PIPE

EXISTING SIDEWALK

EXISTING CURB & GUTTER

EXISTING EDGE OF GUTTER

RIGHT OF WAY

** CAUTION** EXISTING STORM DRAIN LINE PER ORANGE TERRACE COMMUNITY PARK (TO BE REMOVED FROM UNDERNEATH THE PROPOSED BUILDING BY ORANGE TERRACE COMMUNITY PARK CONTRACTOR.) removed

** CAUTION** EXISTING STORM DRAIN LINE PER ORANGE TERRACE COMMUNITY PARK (TO BE REMOVED FROM UNDERNEATH THE PROPOSED BUILDING BY ORANGE TERRACE COMMUNITY PARK CONTRACTOR.) removed

PROPOSED STORM DRAIN ALIGNMENT TO RELOCATE EXISTING STORM DRAIN

See Approved U.G. Plan For Fire Service

due to boulder raised invert to 42.18

RFI #55 rev. catch basin ⚠ C4.1

this portion not needed Only 1 roof drain @ A

Fire Line Capped 90 under F165

Gasline by So. Cal. Gas

boulder raised S.D. line

by Universal Fire

by Western T

RFI #55 CONTRACTOR TO VERIFY EXISTING LOCATION AND ELEVATION PRIOR TO COMMENCEMENT AND INSTALLATION AND CONNECTION OF SEWER LINE.

SAWCUT REMOVE AND REPLACE EXISTING ASPHALT AS REQUIRED.

EXISTING FIRE HYDRANT

STREET 12A - 36+05.10 HOT-TAP 8" WATER MAIN OR #4 MJ STUB 8" WATER MAIN PER CITY STD. SW METER MANIFOLD

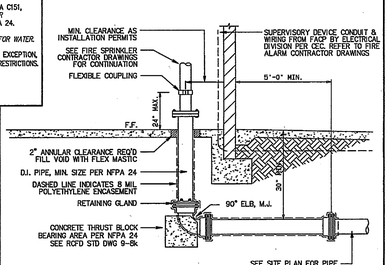
STREET 12A - 36+42.00 CONNECT 8" C-900 DR18 PVC PER CITY STD W-0100 STANDARD DWG W-0102

SMH (42.64 RIM) (33.60 INLET FL) (33.60 OUTLET FL)

SMH (44.04 RIM) (35.20 OUTLET FL) (35.30 INLET FL)

FIRE SYSTEM NOTES:

1. UNDERGROUND PIPE INSTALLED BELOW BUILDING FOOTINGS SHALL COMPLY WITH AWWA C151, *DUCTILE IRONPIPE CENTRIFUGALLY CAST FOR WATER* AND AWWA C600, *STANDARD FOR INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES* AND NFPA 24.
2. UNDERGROUND FITTINGS TO COMPLY WITH AWWA C110, *DUCTILE IRON FITTINGS FOR WATER*.
3. MINIMUM PIPE SIZE FOR FIRE SERVICE STUB-INS SHALL NOT BE LESS THAN 6 INCH. EXCEPTION: SIZES SMALLER THAN 6" SHALL BE PERMITTED TO BE USED SUBJECT TO THE FOLLOWING RESTRICTIONS.
   A) THE FIRE SERVICE SHALL SUPPLY ONLY THE TYPES OF SYSTEMS:
      (1) AUTOMATIC SPRINKLER SYSTEMS
      (2) OPEN SPRINKLER SYSTEMS
      (3) FIXED WATER SPRAY SYSTEMS
      (4) FIXED FOAM SYSTEMS
      (5) CLASS II STANDPIPE SYSTEMS
   B) HYDRAULIC CALCULATIONS SHALL SHOW THAT THE MAIN IS ABLE TO SUPPLY THE TOTAL SYSTEM DEMAND AT THE APPROPRIATE PRESSURE.
   C) SYSTEMS THAT ARE NOT HYDRAULICALLY CALCULATED SHALL HAVE A MAIN AT LEAST AS LARGE AS THE RISER.
4. PROTECTION BOLLARDS REQUIRED PER RCFD STD DWG 9-81 FOR RISERS SUBJECT TO MECHANICAL DAMAGE.



Interior Fire Sprinkler System Stub-In

AS BUILT

GRAPHIC SCALE 1"=20'

0 20 40 60

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PLANS PREPARED BY:
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DOMESTIC WATER CONSTRUCTION NOTES

1. HOT-TAP EXISTING 12" CML&AW WATER MAIN PER W.M.W.D. SPECIFICATIONS
2. FURNISH AND INSTALL 2" DOMESTIC WATER SERVICE WITH BACKFLOW ASSEMBLY PER W.M.W.D. STD. DWG. NO. W-0110a (METER SUPPLIED AND INSTALLED BY W.M.W.D.
3. FURNISH AND INSTALL 2" REDUCED PRESSURE BACKFLOW ASSEMBLY (FEBCO 880 OR CIVIL ENGINEER APPROVED EQUAL). TO BE SUPPLIED AND INSTALLED BY CONTRACTOR
4. FURNISH AND INSTALL 2" PVC SCHEDULE 80 WATER LINE.
5. FURNISH AND INSTALL RESILIENT SEAT GATE VALVE SIZE TO MATCH PIPE DIAMETER PER W.M.W.D. STD. DWG. NO. W-0150
6. FURNISH AND INSTALL THRUST BLOCK PER SCHEDULE ON SHEET C4.2
7. FURNISH AND INSTALL 2 1/2" SCHEDULE 80 PVC WATERLINE.

FIRE CONSTRUCTION NOTES

10. FURNISH AND INSTALL 10" DOUBLE DETECTOR CHECK ASSEMBLY WITHOUT ATTACHED F.D.C. PER W.M.W.D. STD. DWG. NO. W-0530P1
11. FURNISH AND INSTALL 10" PVC C900 FIRE LINE
12. FURNISH AND INSTALL 8" PVC C900 FIRE LINE
13. FURNISH AND INSTALL POST INDICATOR VALVE (MUELLER A-20811 OR CIVIL ENGINEER APPROVED EQUAL)
14. CONSTRUCT THRUST BLOCK PER THRUST BLOCK SCHEDULE ON SHEET C4.2
15. INSTALL FIRE HYDRANT ASSEMBLY (SUPER) PER W.M.W.D. STD. DWG. NO. W-0610
16. FURNISH AND INSTALL 10" RESILIENT SEAT GATE VALVE
17. FURNISH AND INSTALL WHARF HYDRANT VALVES (CROCKER FIGURE NO. 5235-5245)
18. FURNISH AND INSTALL 6" PVC C900 FIRE LINE
19. FURNISH AND INSTALL FIRE DEPATMENT CONNECTION WITH INTERNAL CHECK VALVE (CROKER 6510 OR CIVIL ENGINEER APPROVED EQUAL)

SEWER CONSTRUCTION NOTES

20. FURNISH AND INSTALL 4" PVC SDR 35 SEWER PIPE
21. FURNISH AND INSTALL 6" PVC SDR 35 SEWER PIPE
22. FURNISH AND INSTALL CLEANOUT PER DETAIL "M" ON SHEET C4.2
23. FURNISH AND INSTALL SEWER LATERAL PER QTY OF RIVERSIDE STANDARD DWG. NO. 562
24. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DWG NO. 500
25. PROTECT EXISTING SEWER MAIN IN PLACE

STORM DRAIN CONSTRUCTION NOTES

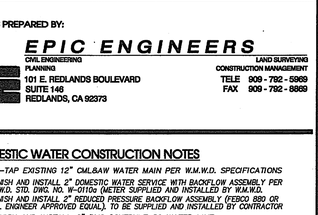
30. FURNISH AND INSTALL 4" PVC SDR 35 STORM DRAIN PIPE
31. FURNISH AND INSTALL 6" PVC SDR 35 STORM DRAIN PIPE
32. FURNISH AND INSTALL 8" PVC SDR 35 STORM DRAIN PIPE
33. FURNISH AND INSTALL 10" PVC SDR 35 STORM DRAIN PIPE
34. FURNISH AND INSTALL 12" PVC SDR 35 STORM DRAIN PIPE
35. FURNISH AND INSTALL PVC CLEANOUT PER DETAIL "M" ON SHEET C4.2
36. FURNISH AND INSTALL 12" PRECAST BASIN (BROOKS 1212) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL
37. FURNISH AND INSTALL 18" PRECAST BASIN (BROOKS 1818) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL
38. FURNISH AND INSTALL PLANTER DRAIN (SMITH 2673-U) WITH VANDAL PROOF DOME OR CIVIL ENGINEER APPROVED)
39. CONNECT TO STORM DRAIN LINE PER DETAIL "P" ON SHEET C4.2
40. NOT NOT USE

GAS CONSTRUCTION NOTES

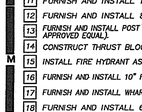
50. FURNISH AND INSTALL GAS LINE PER PLUMBING ENGINEER'S PLANS AND SPECIFICATIONS.

PROJECT ADDRESS: ORANGE TERRACE LIBRARY & COMMUNITY CENTER
20010 ORANGE TERRACE PARKWAY
RIVERSIDE, CA 92518

KEY MAP



Consultant's Seal



Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
1	Design Development Submittal	12/18/06
2	Building Department Submittal	03/29/07
3	Building Department Resubmittal	05/17/07
4		

Drawing Title

COMPOSITE UTILITY PLAN

Architect Seal

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: 1" = 20'
Checked: EDP	Drawing No. C4.1
Reviewed: EDP	
Date: 05-8-07	Sheet 5 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 6/

RFI #55

Ledge

From: Villanueva, Jorge [JVillanueva@riversideca.gov]
Sent: Tuesday, October 30, 2007 1:39 PM
To: ledge@Diffenbaugh.com; Gene Smith; Dennis Pope
Cc: Carey, Carl
Subject: FW: Sewer lateral for OT Project

O.K. 2nd try, FYI.

Jorge

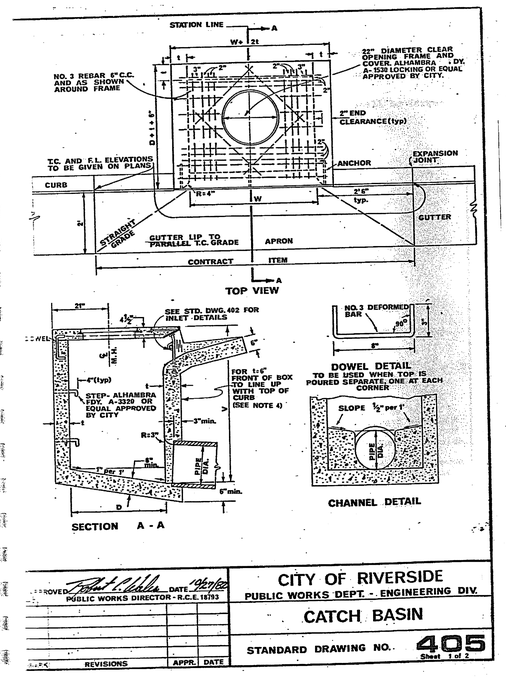
From: Villanueva, Jorge
Sent: Friday, October 26, 2007 8:16 AM
To: 'ledge@Diffenbaugh.com'
Cc: Gene Smith; Carey, Carl
Subject: Sewer lateral for OT Project

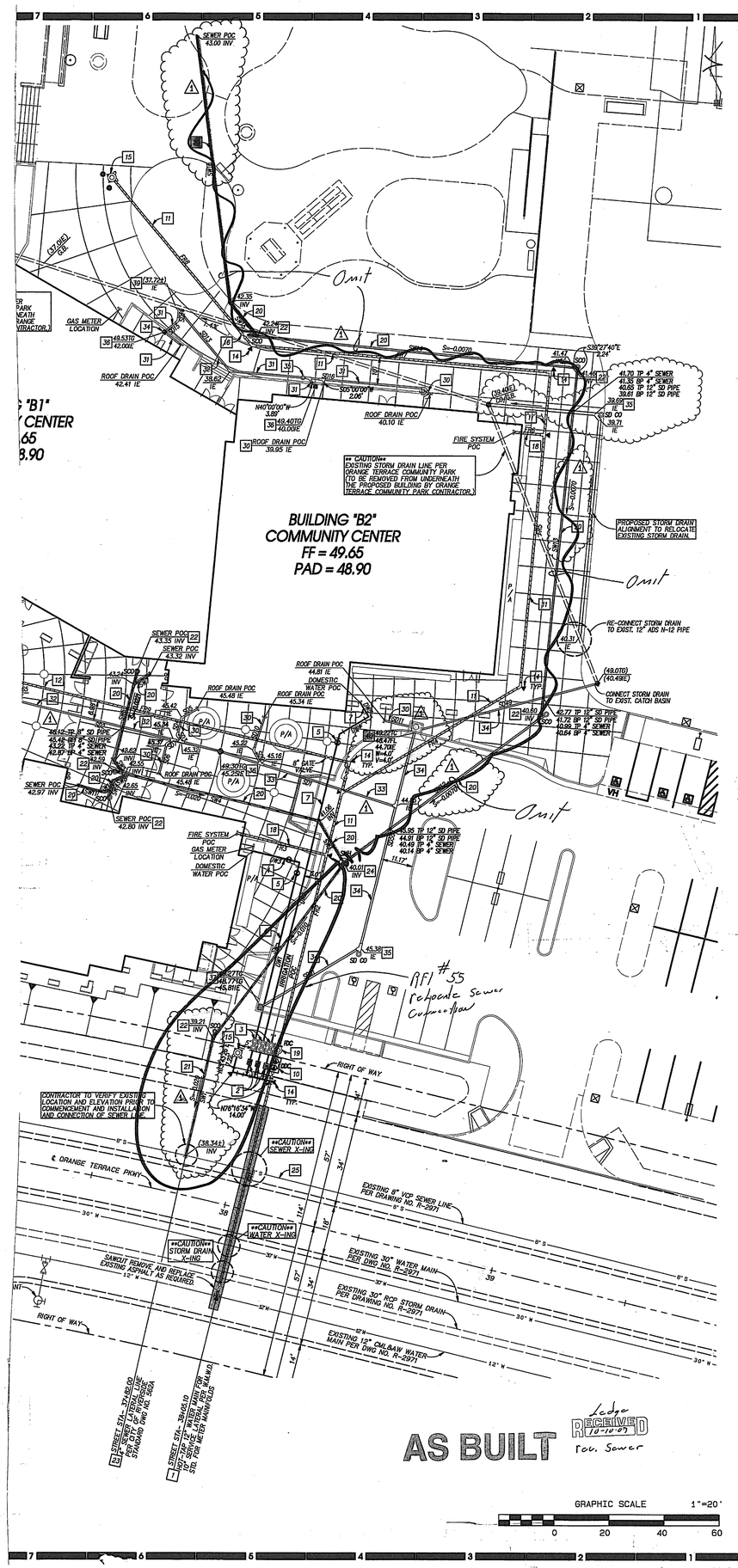
Good morning Ledge,
Please proceed with the installation of the sewer lateral for the Orange Terrace Project (OT) per previously approved plans. The sewer lateral connection has been moved northward to avoid the huge boulder, a field modification that will be shown on the as-built drawings. In addition, the sewer line has been reduced from 6" to 4" as requested by City officials to achieve a more efficient/effective drainage flow. The Parks and Recreation water feature drainage line will not be connected to the OT sewer line under our contract.

Let me know if you have any questions regarding this matter by calling me at (951) 826-2426.

Jorge

10/31/2007





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DOMESTIC WATER CONSTRUCTION NOTES

1. HOT-TAP EXISTING 12" CML&AW WATER MAIN PER W.M.W.D. SPECIFICATIONS
2. FURNISH AND INSTALL 2" DOMESTIC WATER SERVICE WITH BACKFLOW ASSEMBLY PER W.M.W.D. STD. DWG. NO. W-0110a (METER SUPPLIED AND INSTALLED BY W.M.W.D.
3. FURNISH AND INSTALL 2" REDUCED PRESSURE BACKFLOW ASSEMBLY (FEBCO 880 OR CIVIL ENGINEER APPROVED EQUAL), TO BE SUPPLIED AND INSTALLED BY CONTRACTOR
4. FURNISH AND INSTALL 2" PVC SCHEDULE 80 WATER LINE
5. FURNISH AND INSTALL RESILIENT SEAT GATE VALVE SIZE TO MATCH PIPE DIAMETER PER W.M.W.D. STD. DWG. NO. W-0150
6. FURNISH AND INSTALL THRUST BLOCK PER SCHEDULE ON SHEET C4.2
7. FURNISH AND INSTALL 2 1/2" SCHEDULE 80 PVC WATERLINE.

FIRE CONSTRUCTION NOTES

10. FURNISH AND INSTALL 10" DOUBLE DETECTOR CHECK ASSEMBLY WITHOUT ATTACHED F.D.C. PER W.M.W.D. STD. DWG. NO. W-0530P1
11. FURNISH AND INSTALL 10" PVC C900 FIRE LINE
12. FURNISH AND INSTALL 8" PVC C900 FIRE LINE
13. FURNISH AND INSTALL POST INDICATOR VALVE (MUELLER A-20811 OR CIVIL ENGINEER APPROVED EQUAL).
14. CONSTRUCT THRUST BLOCK PER THRUST BLOCK SCHEDULE ON SHEET C4.2
15. INSTALL FIRE HYDRANT ASSEMBLY (SUPER) PER W.M.W.D. STD. DWG. NO. W-0610
16. FURNISH AND INSTALL 10" RESILIENT SEAT GATE VALVE
17. FURNISH AND INSTALL WHARF HYDRANT VALVES (CROCKER FIGURE NO. 5235-5245)
18. FURNISH AND INSTALL 6" PVC C900 FIRE LINE
19. FURNISH AND INSTALL FIRE DEPATMENT CONNECTION WITH INTERNAL CHECK VALVE (CROKER 6510 OR CIVIL ENGINEER APPROVED EQUAL)

SEWER CONSTRUCTION NOTES

20. FURNISH AND INSTALL 4" PVC SDR 35 SEWER PIPE
21. FURNISH AND INSTALL 4" V.C.P. (EXTRA STRENGTH) SEWER PIPE
22. FURNISH AND INSTALL CLEANOUT PER DETAIL "M" ON SHEET C4.2
23. FURNISH AND INSTALL SEWER LATERAL PER CITY OF RIVERSIDE STANDARD DWG. NO. 562A
24. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DWG NO. 500
25. PROTECT EXISTING SEWER MAIN IN PLACE

STORM DRAIN CONSTRUCTION NOTES

30. FURNISH AND INSTALL 4" PVC SDR 35 STORM DRAIN PIPE
31. FURNISH AND INSTALL 6" PVC SDR 35 STORM DRAIN PIPE
32. FURNISH AND INSTALL 8" PVC SDR 35 STORM DRAIN PIPE
33. FURNISH AND INSTALL 10" PVC SDR 35 STORM DRAIN PIPE
34. FURNISH AND INSTALL 12" PVC SDR 35 STORM DRAIN PIPE
35. FURNISH AND INSTALL PVC CLEANOUT PER DETAIL "M" ON SHEET C4.2
36. FURNISH AND INSTALL 12" PRECAST BASIN (BROOKS 1212) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL.
37. FURNISH AND INSTALL 18" PRECAST BASIN (BROOKS 1818) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL.
38. FURNISH AND INSTALL PLANTER DRAIN (SMITH 2673-U) WITH VANDAL PROOF DOME OR CIVIL ENGINEER APPROVED)
39. CONNECT TO STORM DRAIN LINE PER DETAIL "P" ON SHEET C4.2
40. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STANDARD DWG NO. 405

GAS CONSTRUCTION NOTES

50. FURNISH AND INSTALL GAS LINE PER PLUMBING ENGINEER'S PLANS AND SPECIFICATIONS.

PROJECT ADDRESS: ORANGE TERRACE LIBRARY & COMMUNITY CENTER
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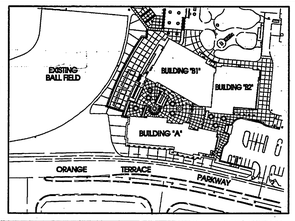
KEY MAP



Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER D. PORTER — No. 53554 Exp. 6-30-09 — CIVIL — STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

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HMC ARCHITECTS

No.	Revisions/Submissions	Date:
1	Design Development Submittal	12/18/06
2	Building Department Resubmittal	05/17/07
3	Revised location of sewer lateral at street, revised sewer material, added sewer to extend to Park, revised drain box to City Catch Basin, and reroute storm drain around proposed building.	09/05/07

Drawing Title

COMPOSITE UTILITY PLAN

Architect Seal

LICENSED ARCHITECT — CHRISTOPHER RICHARD TAYLOR — NO. C-19789 — REN 2-24-09 — STATE OF CALIFORNIA

Designed:	TW/CAC	Project No.	29.40
Drawn:	TW/CAC	Scale:	1" = 20'
Checked:	EDP	Drawing No.	C4.1
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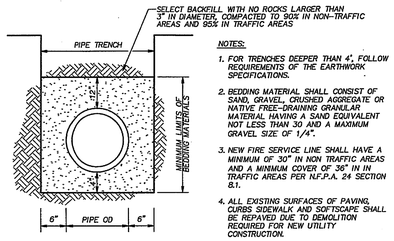
Date:	05-22-07		

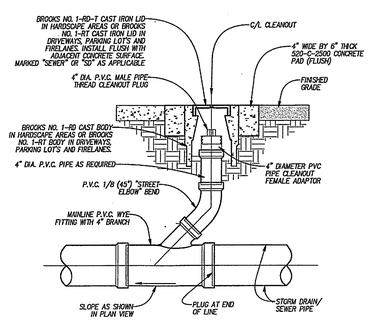


NOTES:

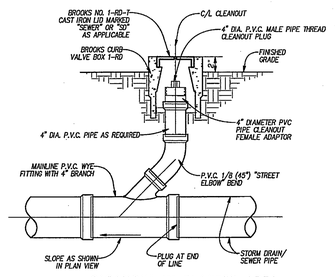
1. FOR TRENCHES DEEPER THAN 4', FOLLOW REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONSIST OF SAND, GRAVEL, CRUSHED AGGREGATE OR NATIVE FREE-DRAINING GRANULAR MATERIAL HAVING A SAND EQUIVALENT NOT LESS THAN 30 AND A MAXIMUM GRAVEL SIZE OF 1/4".
3. NEW FIRE SERVICE LINE SHALL HAVE A MINIMUM OF 30" IN NON TRAFFIC AREAS AND A MINIMUM COVER OF 36" IN IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1.
4. ALL EXISTING SURFACES OF PAVING, CURBS SIDEWALK AND SOFTSCAPE SHALL BE REPAVED DUE TO DEMOLITION REQUIRED FOR NEW UTILITY CONSTRUCTION.
5. PIPE BEDDING FOR CLAY SEWER PIPES SHALL BE PER W.M.W.D STD. DWG. NO. W-1010.

TYPICAL UTILITY TRENCH DETAIL

NOT TO SCALE



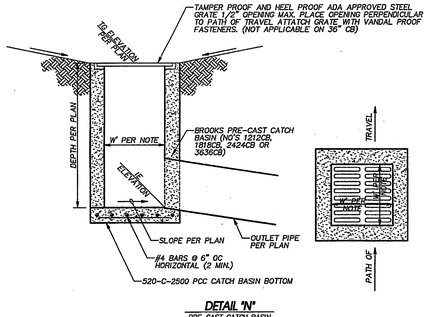
CLEANOUT IN HARDSCAPE



CLEANOUT IN PLANTER AREA

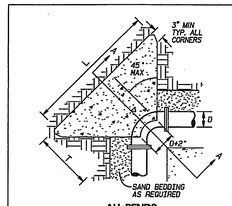
DETAIL "M" [21] [35]

PVC PIPE CLEANOUT
NOT TO SCALE

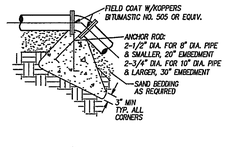


DETAIL "N"

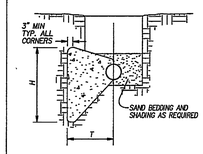
PRE-CAST CATCH BASIN
N.T.S.



ALL BENDS

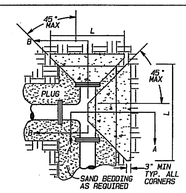


VERTICAL ANCHOR BLOCK

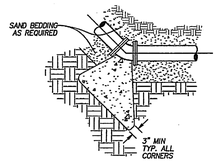


SECTION A - A

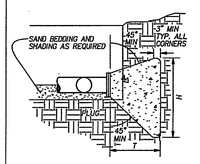
ISOMETRIC VIEW



TEE/PLUG FITTINGS



VERTICAL BEARER BLOCK



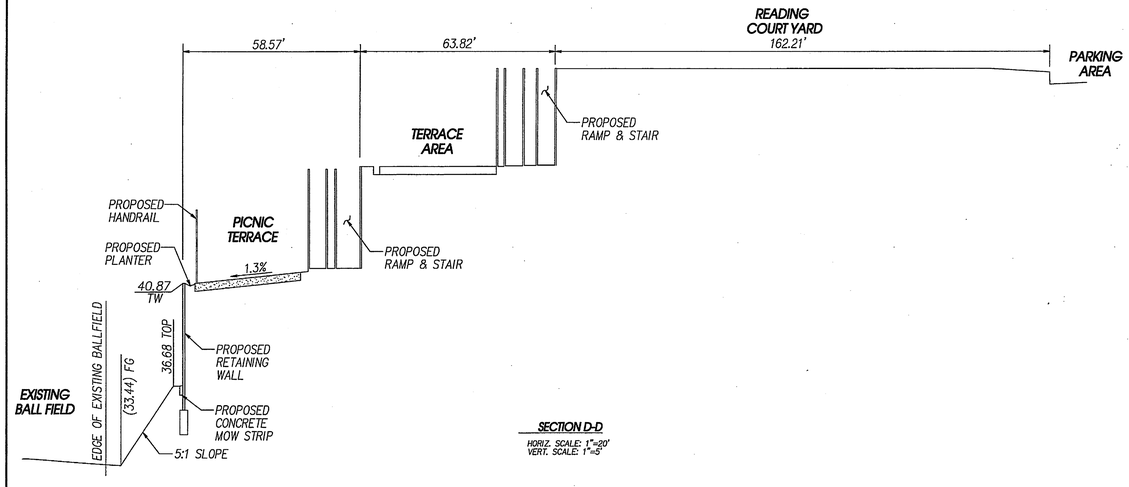
SECTION B - B

PIPE SIZE	DEGREE OF BEND	HORIZONTAL BENDS (FEET) BLOCK DIMENSIONS			VOL. C.F.	TEE AND PLUGS (FEET) BLOCK DIMENSIONS			VOL. C.F.	VERT. ANCHOR BLOCK MINIMUM CUBIC FEET		
		L	H	T		L	H	T		11.25	22.50	45.00
6"	90	2.50	2.42	1.60	5.19	2.25	2.00	1.50	3.71	9	17	30
	45	1.82	1.82	1.25	2.35							
	22 1/2	1.33	1.33	1.00	1.11							
	11 1/4	1.00	1.00	0.82	0.83							
8"	90	3.50	3.00	2.17	11.17	2.75	2.75	1.82	7.50	14	29	52
	45	2.50	2.33	1.70	5.52							
	22 1/2	2.00	1.42	1.42	2.49							
	11 1/4	1.25	1.25	1.08	1.12							
10"	90	4.50	3.75	2.75	24.58	3.42	3.33	2.25	13.94	23	46	91
	45	3.25	2.82	2.17	11.02							
	22 1/2	2.25	2.08	1.67	4.74							
	11 1/4	1.75	1.33	1.42	2.36							

NOTES:

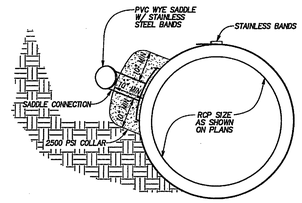
1. PROVIDE CONCRETE THRUST BLOCK AT ALL PRESSURE PIPE FITTINGS THAT ARE 3" DIAMETER AND LARGER.
2. USE CLASS 420-C-2000 CONCRETE PER SSPWC,LATEST EDITION.
3. VERTICAL BEARER BLOCK SIZE MAY BE 1/2 THE AREA SHOWN FOR HORIZONTAL BEARER BLOCKS.
4. BLOCK SIZES BASED UPON 1500 psf ALLOWABLE HORIZONTAL AND VERTICAL BEARING RESPECTIVELY.
5. FULLY RESTRAINED JOINTS PER PIPE MANUFACTURER'S RECOMMENDATIONS MAY BE USED IN LIEU OF THRUST BLOCKS ON DUCTILE IRON PIPE ONLY.
6. NO CONCRETE SHALL BE POURED ON ANY PART OF THE JOINT.
7. WIDEN TRENCH TO ACCOMODATE BLOCKS AS NECESSARY.
8. THRUST BLOCKS SHOWN HEREON ARE NOT TO SCALE.

THUST BLOCK SCHEDULE [6] [14] [21]



SECTION D-D

HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=5'



DETAIL "P" [39]

SADDLE CONNECTION DETAIL

DOMESTIC WATER CONSTRUCTION NOTES

1. HOT-TAP EXISTING 12" CML&AW WATER MAIN PER W.M.W.D. SPECIFICATIONS
2. FURNISH AND INSTALL 2" DOMESTIC WATER SERVICE WITH BACKFLOW ASSEMBLY PER W.M.W.D. STD. DWG. NO. W-0110a (METER SUPPLIED AND INSTALLED BY W.M.W.D.
3. FURNISH AND INSTALL 2" REDUCED PRESSURE BACKFLOW ASSEMBLY (FEBCO 880 OR CIVIL ENGINEER APPROVED EQUAL) TO BE SUPPLIED AND INSTALLED BY CONTRACTOR
4. FURNISH AND INSTALL 2" PVC SCHEDULE 80 WATER LINE
5. FURNISH AND INSTALL RESILIENT SEAT GATE VALVE SIZE TO MATCH PIPE DIAMETER PER W.M.W.D. STD. DWG. NO. W-0150
6. FURNISH AND INSTALL THRUST BLOCK PER SCHEDULE ON SHEET C4.2
7. FURNISH AND INSTALL 2 1/2" SCHEDULE 80 PVC WATERLINE.

FIRE CONSTRUCTION NOTES

10. FURNISH AND INSTALL 8" DOUBLE DETECTOR CHECK ASSEMBLY WITH ATTACHED F.D.C. PER W.M.W.D. STD. DWG. NO. W-0530P1
11. FURNISH AND INSTALL 8" PVC C900 FIRE LINE
12. FURNISH AND INSTALL 6" PVC C900 FIRE LINE
13. FURNISH AND INSTALL POST INDICATOR VALVE (MUELLER A-20811 OR CIVIL ENGINEER APPROVED EQUAL).
14. CONSTRUCT THRUST BLOCK PER THRUST BLOCK SCHEDULE ON SHEET C4.2
15. INSTALL FIRE HYDRANT ASSEMBLY (SUPER) PER W.M.W.D. STD. DWG. NO. W-0610
16. FURNISH AND INSTALL 6" RESILIENT SEAT GATE VALVE
17. FURNISH AND INSTALL WHARF HYDRANT VALVES (CROCKER FIGURE NO. 5235-5245)

SEWER CONSTRUCTION NOTES

20. FURNISH AND INSTALL 4" PVC SDR 35 SEWER PIPE
21. FURNISH AND INSTALL 6" PVC SDR 35 SEWER PIPE
22. FURNISH AND INSTALL CLEANOUT PER DETAIL "M" ON SHEET C4.2
23. FURNISH AND INSTALL SEWER LATERAL PER CITY OF RIVERSIDE STANDARD DWG. NO. 562
24. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DWG NO. 500
25. PROTECT EXISTING SEWER MAIN IN PLACE

STORM DRAIN CONSTRUCTION NOTES

30. FURNISH AND INSTALL 4" PVC SDR 35 STORM DRAIN PIPE
31. FURNISH AND INSTALL 6" PVC SDR 35 STORM DRAIN PIPE
32. FURNISH AND INSTALL 8" PVC SDR 35 STORM DRAIN PIPE
33. FURNISH AND INSTALL 10" PVC SDR 35 STORM DRAIN PIPE
34. FURNISH AND INSTALL 12" PVC SDR 35 STORM DRAIN PIPE
35. FURNISH AND INSTALL PVC CLEANOUT PER DETAIL "M" ON SHEET C4.2
36. FURNISH AND INSTALL 12" PRECAST BASIN (BROOKS 1212) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL.
37. FURNISH AND INSTALL 18" PRECAST BASIN (BROOKS 1818) OR APPROVED EQUAL WITH ADA APPROVED, HEEL PROOF GRATE AND VANDAL PROOF FASTENERS. PLACE GRATE PERPENDICULAR TO PATH OF TRAVEL.
38. FURNISH AND INSTALL PLANTER DRAIN (SMITH 2673-U) WITH VANDAL PROOF DOME OR CIVIL ENGINEER APPROVED)
39. CONNECT TO STORM DRAIN LINE PER DETAIL "P" ON SHEET C4.2
40. NOTE NOT USE

GAS CONSTRUCTION NOTES

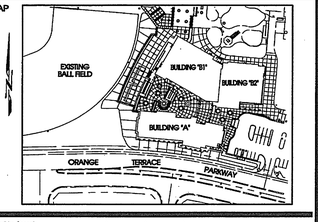
50. FURNISH AND INSTALL GAS LINE PER PLUMBING ENGINEER'S PLANS AND SPECIFICATIONS.

AS BUILT

HMC ARCHITECTS
3546 CONCOURS STREET
ONTARIO, CALIFORNIA 91764
Telephone: 909 . 989 . 9979
Fax: 909 . 483 . 1400
WWW.HMCARCHITECTS.COM
Architecture · Interiors · Planning

PLANS PREPARED BY:
EPIC ENGINEERS
CIVIL ENGINEERING PLANNING
LAND SURVEYING CONSTRUCTION MANAGEMENT
101 E. REDLANDS BOULEVARD SUITE 148 REDLANDS, CA 92373
TELE 909 - 792 - 5969
FAX 909 - 792 - 8869

KEY MAP



Consultant's Seal

Agency Approval

Project Title

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

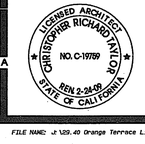
HMC ARCHITECTS

No.	Revisions/Submissions	Date:
1	Design Development Submittal	12/18/06
2	Building Department Submittal	03/29/07
3	Building Department Resubmittal	05/17/07
4		

Drawing Title

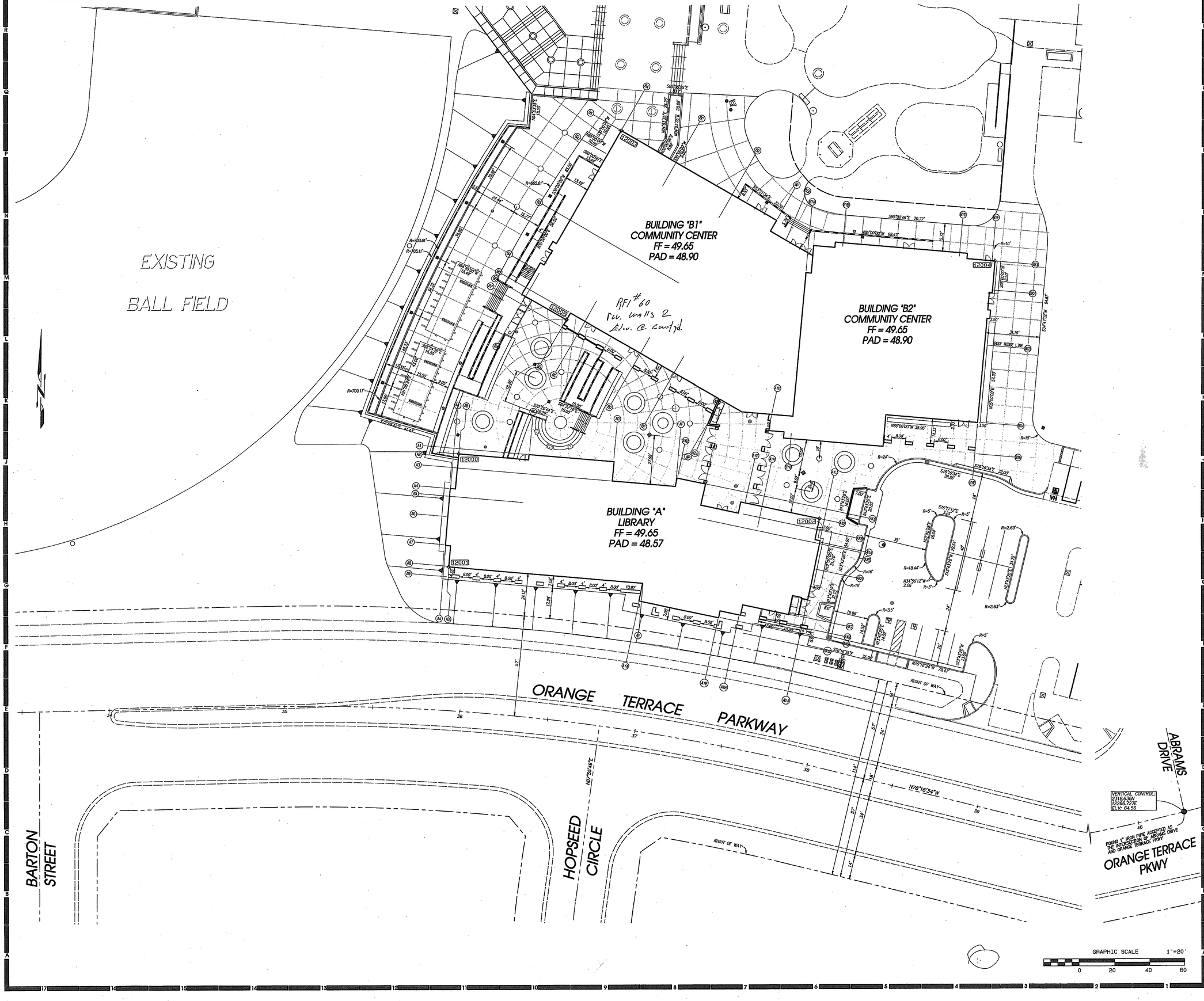
UTILITY DETAIL SHEET

Architect Seal



Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: AS SHOWN
Checked: EDP	Drawing No. C4.2
Reviewed: EDP	
Date: 05-17-07	Sheet 6 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/16/2007



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PLANS PREPARED BY:

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SUITE 146
REDLANDS, CA 92373
LAND SURVEYING
CONSTRUCTION MANAGEMENT
TELE 909 - 792 - 5969
FAX 909 - 792 - 8869

Coordinate Table

Pt #	Northing	Easting	Descriptor
12000	2555.1593	11254.7123	BLDG A GRID AB-A2
12001	2491.0853	11248.9393	BLDG A GRID AB-A8
12002	2517.8819	11459.6213	BLDG A GRID AX2
12003	2738.2596	11346.5599	BLDG A GRID AX2
12004	2663.8827	11559.4634	BLDG B GRID BX1
12005	2631.2512	11315.5705	BLDG B GRID BB

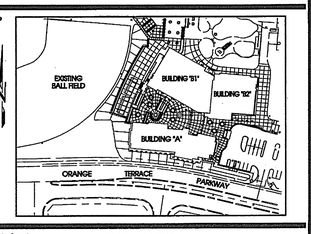
LEGEND

INDICATES HORIZONTAL CONTROL POINT

FOUND IRON PIPE

AS BUILT

KEY MAP



Consultant's Seal

REGISTERED PROFESSIONAL ENGINEER
ERICK D POTTER
No. 53654
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
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△	Design Development Submittal	12/18/06
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△	Building Department Resubmittal	05/17/07
△		

Drawing Title

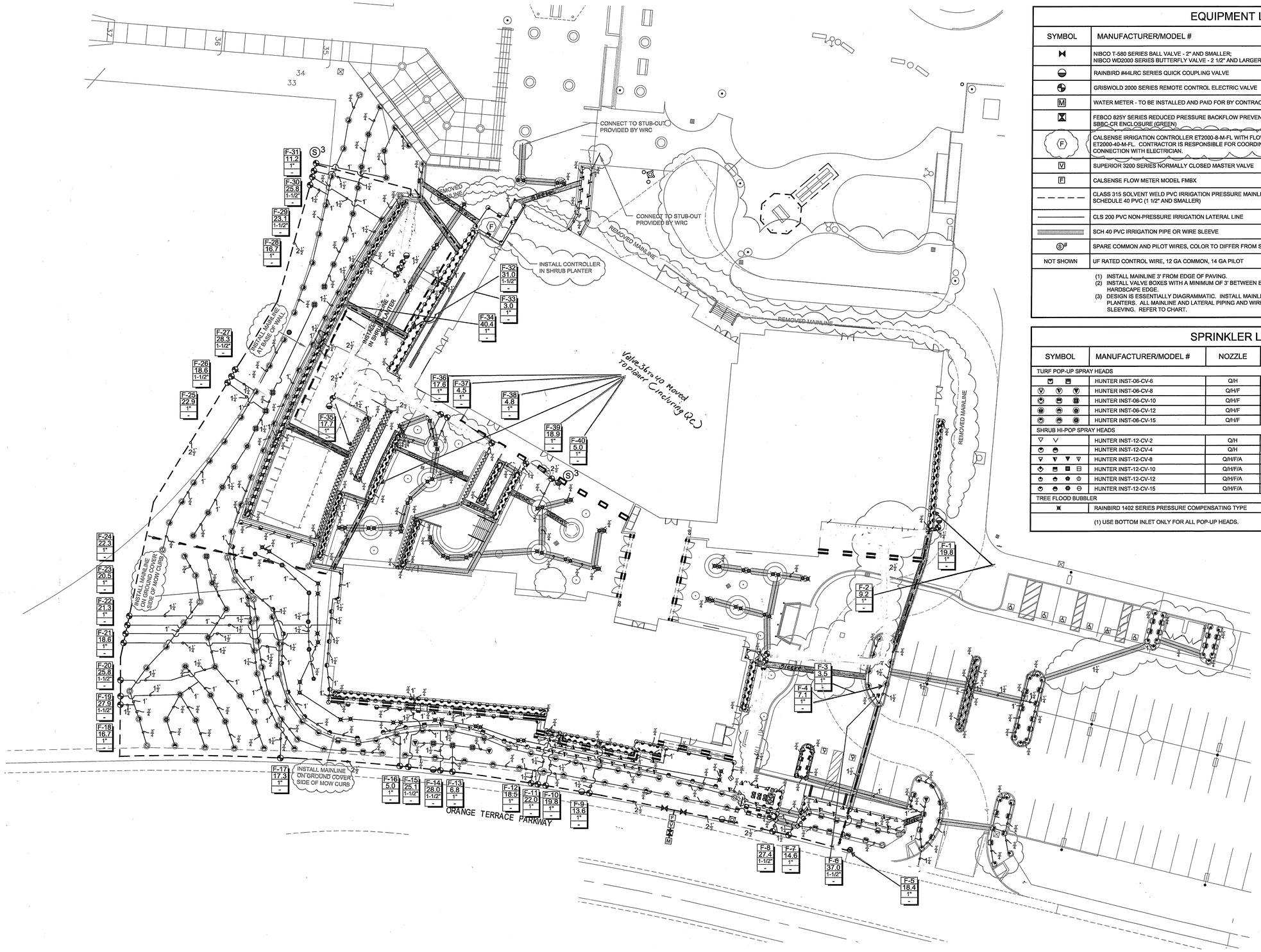
HORIZONTAL CONTROL PLAN

Architect Seal

LICENSED ARCHITECT
CHRISTOPHER RICHARD TAYLOR
NO. C-19759
REN. 2-24-09
STATE OF CALIFORNIA

Designed: TW/CAC	Project No. 29.40
Drawn: TW/CAC	Scale: 1" = 20'
Checked: EDP	Drawing No. C5.1
Reviewed: EDP	
Date: 05-17-07	Sheet 7 of 7

FILE NAME: J:\29.40 Orange Terrace Library\29.40 Orange Terrace Library.pro PLOT DATE: 5/16/2007



EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	NIBCO T-580 SERIES BALL VALVE - 2" AND SMALLER; NIBCO WD2000 SERIES BUTTERFLY VALVE - 2 1/2" AND LARGER	LINE SIZE	'B', L2.2	(1)
	RAINBIRD #44LRC SERIES QUICK COUPLING VALVE	1"	'C', L2.2	-
	GRISWOLD 2000 SERIES REMOTE CONTROL ELECTRIC VALVE	PLAN SIZE	'D', L2.2	(3)
M	WATER METER - TO BE INSTALLED AND PAID FOR BY CONTRACTOR	1"	WMWD	-
	FEBCO 825Y SERIES REDUCED PRESSURE BACKFLOW PREVENTER IN STRONGBOX SBBC-CR ENCLOSURE (GREEN)	1 1/2"	'K', L2.2	(3)
F	CALSENSE IRRIGATION CONTROLLER ET2000-8-M-FL WITH FLOW SENSOR (BELOW) AND ET2000-40-M-FL. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ELECTRICAL CONNECTION WITH ELECTRICIAN.	40 STA.	'J', L2.2	(3)
V	SUPERIOR 3200 SERIES NORMALLY CLOSED MASTER VALVE	2 1/2"	'J', L2.2	(3)
F	CALSENSE FLOW METER MODEL FMBX	-	'J', L2.2	(3)
	CLASS 315 SOLVENT WELD PVC IRRIGATION PRESSURE MAINLINE (2" AND LARGER) SCHEDULE 40 PVC (1 1/2" AND SMALLER)	PLAN SIZE	'G', L2.2	(1), (2)
	CLS 200 PVC NON-PRESSURE IRRIGATION LATERAL LINE	PLAN SIZE	'G', L2.2	-
	SCH 40 PVC IRRIGATION PIPE OR WIRE SLEEVE	REFER TO CHART	'G', L2.2	-
S#	SPARE COMMON AND PILOT WIRES, COLOR TO DIFFER FROM SITE WIRING	-	-	-
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	N/A	-

(1) INSTALL MAINLINE 3' FROM EDGE OF PAVING.
(2) INSTALL VALVE BOXES WITH A MINIMUM OF 3' BETWEEN EACH BOX. BOXES SET PERPENDICULAR TO HARDSCAPE EDGE.
(3) DESIGN IS ESSENTIALLY DIAGRAMMATIC. INSTALL MAINLINE, VALVES, AND EQUIPMENT IN SHRUB PLANTERS. ALL MAINLINE AND LATERAL PIPING AND WIRES RUNNING UNDER HARDSCAPE TO BE IN SLEEVING. REFER TO CHART.

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM) Q	T	H	TT	F	DETAIL	NOTES
TURF POP-UP SPRAY HEADS											
	HUNTER INST-06-CV-6	Q/H	6'	30	.51	-	.98	-	-	'H', L2.2	
	HUNTER INST-06-CV-8	Q/H/F	8'	30	.24	-	.48	-	.95	'H', L2.2	
	HUNTER INST-06-CV-10	Q/H/F	10'	30	.39	-	.82	-	1.62	'H', L2.2	
	HUNTER INST-06-CV-12	Q/H/F	12'	30	.71	-	1.42	-	2.85	'H', L2.2	
	HUNTER INST-06-CV-15	Q/H/F	15'	30	.93	-	1.86	-	3.71	'H', L2.2	
SHRUB HI-POP SPRAY HEADS											
	HUNTER INST-12-CV-2	Q/H	2'	30	.11	-	.16	-	-	'F', 'I', L2.2	
	HUNTER INST-12-CV-4	Q/H	4'	30	.22	-	.44	-	-	'F', 'I', L2.2	
	HUNTER INST-12-CV-8	Q/H/F/A	8'	30	.24	-	.48	-	.95	'F', 'I', L2.2	
	HUNTER INST-12-CV-10	Q/H/F/A	10'	30	.39	-	.82	-	1.62	'F', 'I', L2.2	
	HUNTER INST-12-CV-12	Q/H/F/A	12'	30	.71	-	1.42	-	2.85	'F', 'I', L2.2	
	HUNTER INST-12-CV-15	Q/H/F/A	15'	30	.93	-	1.86	-	3.71	'F', 'I', L2.2	
TREE FLOOD BUBBLER											
	RAINBIRD 1402 SERIES PRESSURE COMPENSATING TYPE			30	0.5 PER BUBBLER					'E', L2.2	

(1) USE BOTTOM INLET ONLY FOR ALL POP-UP HEADS.

SCH 40 PVC SLEEVING CHART

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

STATION # / FLOW (GPM) — A-1 / 0.0 / 2" / - — VALVE SIZE

NOTE: * CONTRACTOR TO RESTORE ALL PLANT MATERIAL AND IRRIGATION OUTSIDE SCOPE OF WORK THAT IS DAMAGED DURING CONSTRUCTION, WHETHER BY LANDSCAPE CREWS OR OTHER DISCIPLINES.

PRESSURE LOSS CALCULATIONS (VALVE C-31 @ 31.0 GPM)	
LOSS THRU 1" WATER METER	5.5 PSI
LOSS THRU 1½" R/P DEVICE	11.0 PSI
LOSS THRU 2½" MAINLINE	0.9 PSI
LOSS THRU GATE VALVE	1.0 PSI
LOSS THRU MASTER VALVE	0.5 PSI
LOSS THRU 1½" VALVE	1.3 PSI
LOSS THRU LATERAL LINES	2.3 PSI
ELEVATION LOSS	2.0 PSI
MISC. LOSS THRU FITTINGS	2.5 PSI
TOTAL SYSTEM LOSSES	27.0 PSI
PRESSURE REQUIRED AT HEAD	30 PSI
STATIC PRESSURE @ METER	60 PSI
RESIDUAL PRESSURE	3.0 PSI

STATIC PRESSURE INFORMATION CONFIRMED ON 03/12/07 BY BILL AT WESTERN MUNICIPAL WATER DISTRICT. (951) 789-5000

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

AS BUILT

REVISIONS MADE ON 10-23-07

ORANGE TERRACE LIBRARY & COMMUNITY CENTER

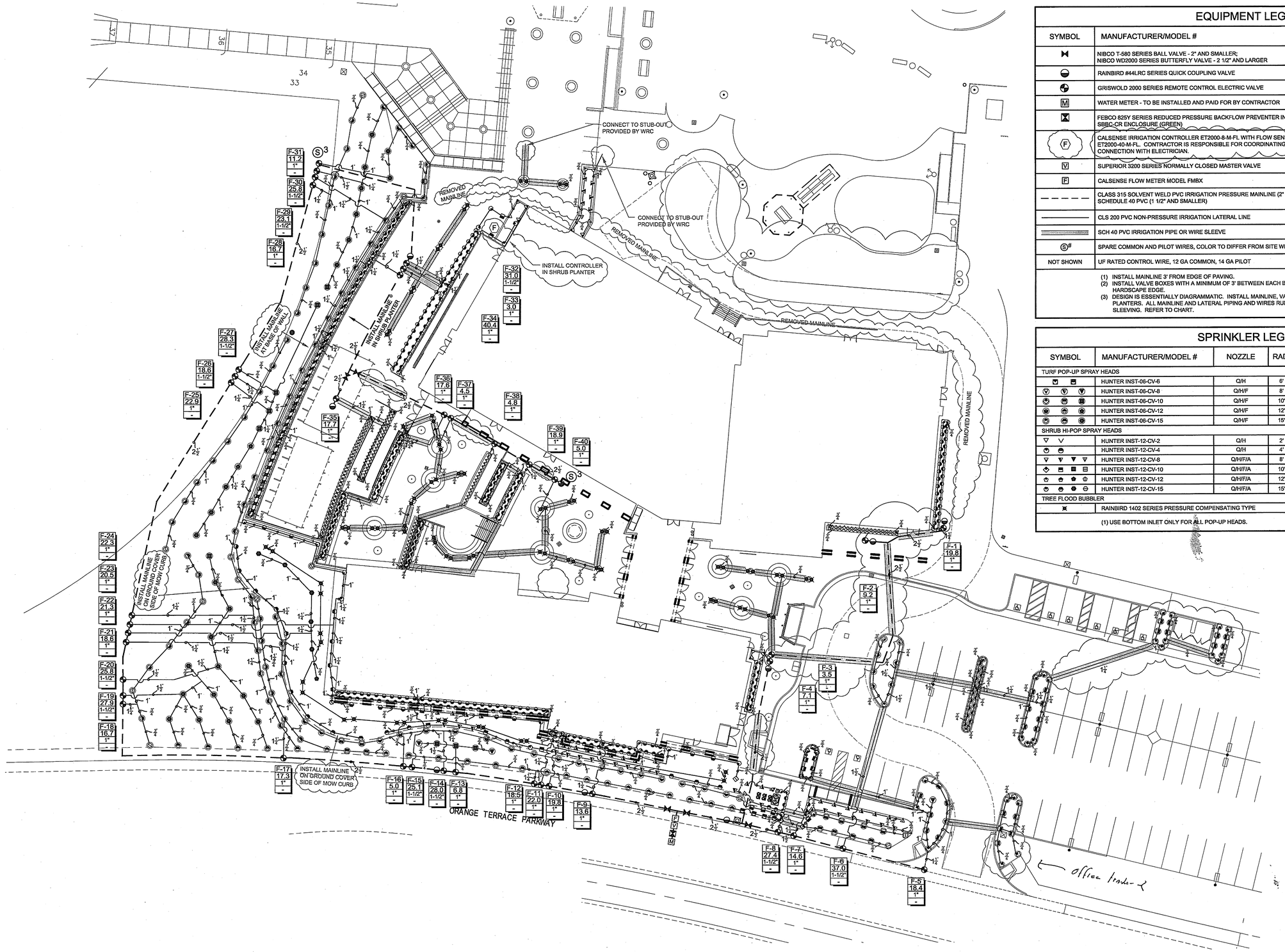
REVISED IRRIGATION PLAN

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.

0' 20' 40' 60'

SHEET 1 of 2
10/23/07

SHEET L-2.1



EQUIPMENT LEGEND

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M	WATER METER - TO BE INSTALLED AND PAID FOR BY CONTRACTOR	1"	WMWD	-
	FEBCO 825Y SERIES REDUCED PRESSURE BACKFLOW PREVENTER IN STRONGBOX SBBC-CR ENCLOSURE (GREEN)	1 1/2"	'K', L2.2	(3)
F	CALSENSE IRRIGATION CONTROLLER ET2000-8-M-FL WITH FLOW SENSOR (BELOW) AND ET2000-40-M-FL. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ELECTRICAL CONNECTION WITH ELECTRICIAN.	40 STA.	'J', L2.2	(3)
V	SUPERIOR 3200 SERIES NORMALLY CLOSED MASTER VALVE	2 1/2"	'J', L2.2	(3)
F	CALSENSE FLOW METER MODEL FMBX	-	'J', L2.2	(3)
	CLASS 315 SOLVENT WELD PVC IRRIGATION PRESSURE MAINLINE (2" AND LARGER) SCHEDULE 40 PVC (1 1/2" AND SMALLER)	PLAN SIZE	'G', L2.2	(1), (2)
	CLS 200 PVC NON-PRESSURE IRRIGATION LATERAL LINE	PLAN SIZE	'G', L2.2	-
	SCH 40 PVC IRRIGATION PIPE OR WIRE SLEEVE	REFER TO CHART	'G', L2.2	-
S#	SPARE COMMON AND PILOT WIRES, COLOR TO DIFFER FROM SITE WIRING	-	-	-
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	N/A	-

(1) INSTALL MAINLINE 3' FROM EDGE OF PAVING.
(2) INSTALL VALVE BOXES WITH A MINIMUM OF 3' BETWEEN EACH BOX. BOXES SET PERPENDICULAR TO HARDSCAPE EDGE.
(3) DESIGN IS ESSENTIALLY DIAGRAMMATIC. INSTALL MAINLINE, VALVES, AND EQUIPMENT IN SHRUB PLANTERS. ALL MAINLINE AND LATERAL PIPING AND WIRES RUNNING UNDER HARDSCAPE TO BE IN SLEEVING. REFER TO CHART.

SPRINKLER LEGEND

SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM) Q	T	H	TT	F	DETAIL	NOTES
TURF POP-UP SPRAY HEADS											
	HUNTER INST-06-CV-6	Q/H	6'	30	.51	-	.98	-	-	'H', L2.2	
	HUNTER INST-06-CV-8	Q/H/F	8'	30	.24	-	.48	-	.95	'H', L2.2	
	HUNTER INST-06-CV-10	Q/H/F	10'	30	.39	-	.82	-	1.62	'H', L2.2	
	HUNTER INST-06-CV-12	Q/H/F	12'	30	.71	-	1.42	-	2.85	'H', L2.2	
	HUNTER INST-06-CV-15	Q/H/F	15'	30	.93	-	1.86	-	3.71	'H', L2.2	
SHRUB HI-POP SPRAY HEADS											
	HUNTER INST-12-CV-2	Q/H	2'	30	.11	-	.16	-	-	'F', 'I', L2.2	
	HUNTER INST-12-CV-4	Q/H	4'	30	.22	-	.44	-	-	'F', 'I', L2.2	
	HUNTER INST-12-CV-8	Q/H/F/A	8'	30	.24	-	.48	-	.95	'F', 'I', L2.2	
	HUNTER INST-12-CV-10	Q/H/F/A	10'	30	.39	-	.82	-	1.62	'F', 'I', L2.2	
	HUNTER INST-12-CV-12	Q/H/F/A	12'	30	.71	-	1.42	-	2.85	'F', 'I', L2.2	
	HUNTER INST-12-CV-15	Q/H/F/A	15'	30	.93	-	1.86	-	3.71	'F', 'I', L2.2	
TREE FLOOD BUBBLER											
	RAINBIRD 1402 SERIES PRESSURE COMPENSATING TYPE			30	0.5 PER BUBBLER					'E', L2.2	

(1) USE BOTTOM INLET ONLY FOR ALL POP-UP HEADS.

SCH 40 PVC SLEEVING CHART

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

STATION # — A-1
FLOW (GPM) — 0.0
VALVE SIZE — 2"

NOTE: * CONTRACTOR TO RESTORE ALL PLANT MATERIAL AND IRRIGATION OUTSIDE SCOPE OF WORK THAT IS DAMAGED DURING CONSTRUCTION, WHETHER BY LANDSCAPE CREWS OR OTHER DISCIPLINES.

PRESSURE LOSS CALCULATIONS (VALVE C-31 @ 31.0 GPM)	
LOSS THRU 1" WATER METER	5.5 PSI
LOSS THRU 1½" R/P DEVICE	11.0 PSI
LOSS THRU 2½" MAINLINE	0.9 PSI
LOSS THRU GATE VALVE	1.0 PSI
LOSS THRU MASTER VALVE	0.5 PSI
LOSS THRU 1½" VALVE	1.3 PSI
LOSS THRU LATERAL LINES	2.3 PSI
ELEVATION LOSS	-2.0 PSI
MISC. LOSS THRU FITTINGS	2.5 PSI
TOTAL SYSTEM LOSSES	27.0 PSI
PRESSURE REQUIRED AT HEAD	30 PSI
STATIC PRESSURE @ METER	60 PSI
RESIDUAL PRESSURE	3.0 PSI

STATIC PRESSURE INFORMATION CONFIRMED ON 03/12/07 BY BILL AT WESTERN MUNICIPAL WATER DISTRICT. (951) 789-5000

RECEIVED 11-17-08 From Gene/Dennis

Underground Service Alert
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

AS BUILT

REVISIONS MADE ON 10-23-07

ORANGE TERRACE LIBRARY & COMMUNITY CENTER

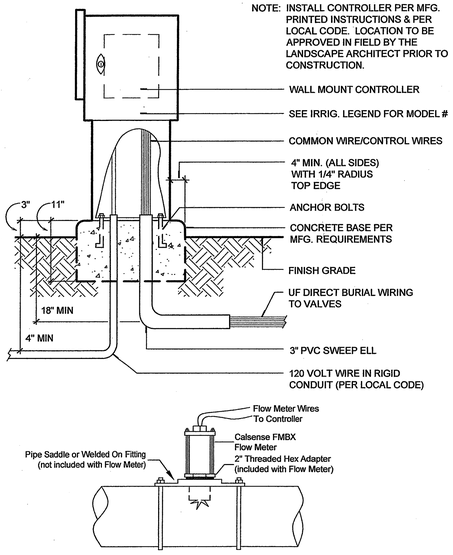
REVISED IRRIGATION PLAN

RHA LANDSCAPE ARCHITECTS PLANNERS, INC

0' 20' 40' 60'

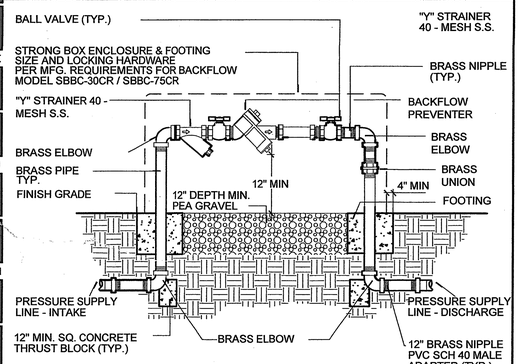
SHEET 1 of 2
10/23/07

SHEET L-2.1



FLOW METER INSTALLATION

J | PEDESTAL CONTROLLER

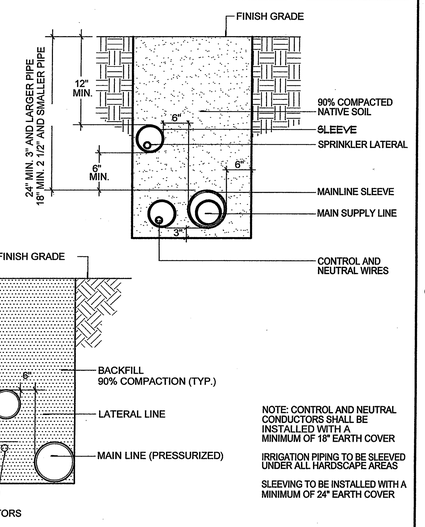


NOTE: IF 4" AND LARGER SEE THRUST BLOCK DETAIL.

NOTE:
1. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 12" FROM WALLS, BUILDINGS, ETC. INSTALL IN PLANTING AREA.
2. ALL ABOVE GROUND ASSEMBLY SHALL RECEIVE ONE (1) COAT RED LEAD PRIMER AND ONE (1) COAT PAINT
3. WHEN UNIT IS NEXT TO BUILDING, WALL, ETC., TEST COCKS TO BE ON OUTSIDE.
4. PAINT DARK GREEN OR TAN (PER L.A. AT TIME OF INSTALLATION)
5. VERTICAL BRASS RISERS AND UNION MAY BE CHANGED TO GALV. / SCH 40 PIPE WITH WRITTEN PERMISSION OF WATER PERVEYOR.

K | BACKFLOW PREVENTER

L | NOT USED

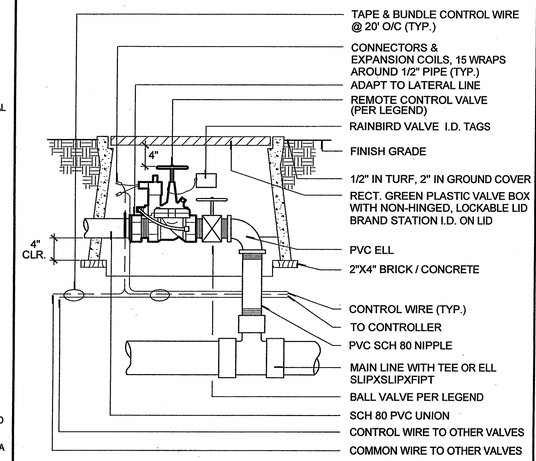


NOTE: CONTROL AND NEUTRAL CONDUCTORS SHALL BE INSTALLED WITH A MINIMUM OF 18" EARTH COVER

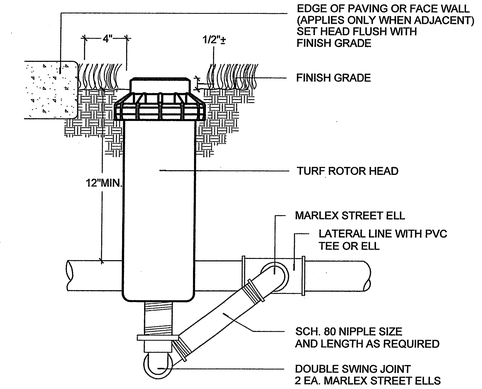
IRRIGATION PIPING TO BE SLEEVED UNDER ALL HARDSCAPE AREAS

SLEEVING TO BE INSTALLED WITH A MINIMUM OF 24" EARTH COVER

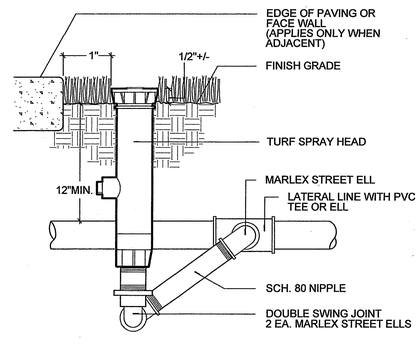
G | SLEEVING & TRENCHING



D | ELECTRIC CONTROL VALVE

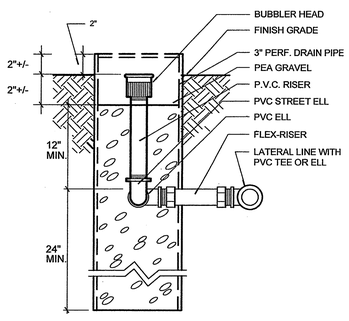


A | TURF POP ROTOR

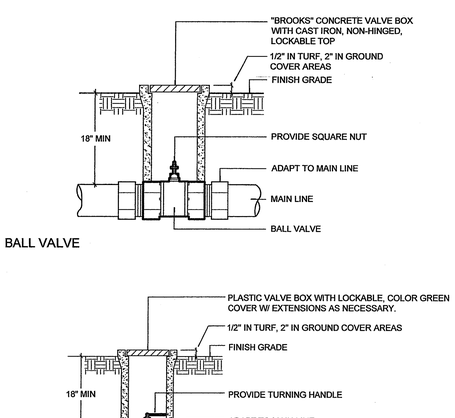


SWING JOINT ASSEMBLY AND LATERAL LINE FITTING OUTLET TO BE SAME SIZE AS INLET ON BOTTOM OF HEAD.

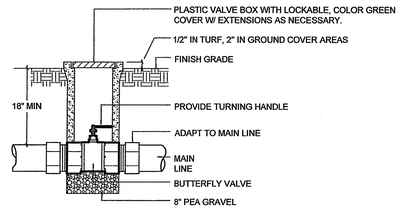
H | TURF POP-UP HEAD



E | TREE PLANTER BUBBLER

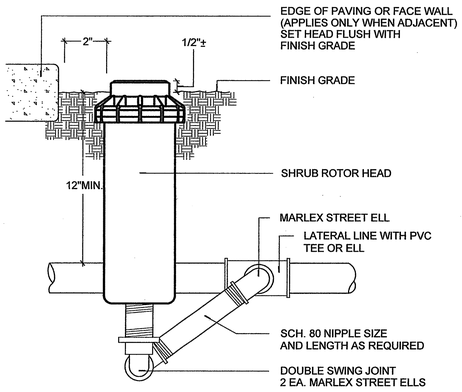


BALL VALVE

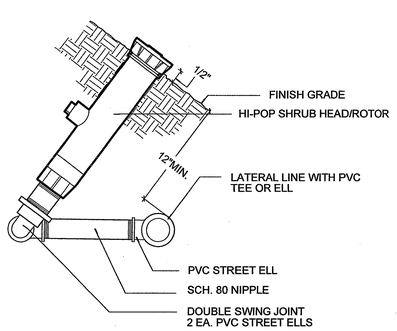


BUTTERFLY VALVE

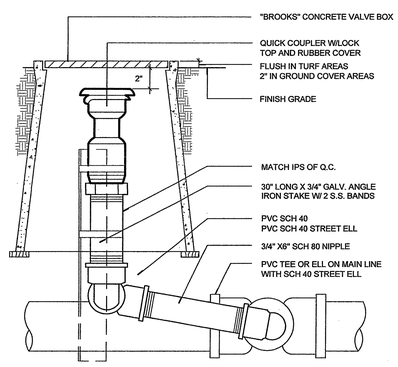
B | ISOLATION VALVE



I | SHRUB POP



F | SHRUB POP ON SLOPE



C | QUICK COUPLER

HMC ARCHITECTS
Architecture Interiors Planning
3546 CONCOURS STREET
ONTARIO, CALIFORNIA 91764
Telephone: 909 . 989 . 9979
Fax: 909 . 483 . 1400
www. hmcarchitects .com

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RIVERSIDE, CALIFORNIA
92506
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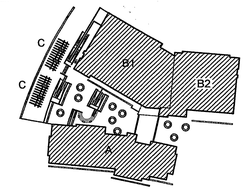
PH. (951) 781-1930
FAX (951) 686-8091
rha@rhala.com
06166

AS BUILT

Key Plan



N.T.S.

Consultant's Seal

LICENSED LANDSCAPE ARCHITECT — CHRISTOPHER RICHARD TAYLOR — LIC. NO. C-19759 — REN. 02-24-08 — STATE OF CALIFORNIA

Agency Approval

Project Title

CITY OF RIVERSIDE

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
	Design Development Submittal	12/18/06
	Building Department Submittal	03/29/07
	Building Department Resubmittal	05/17/07

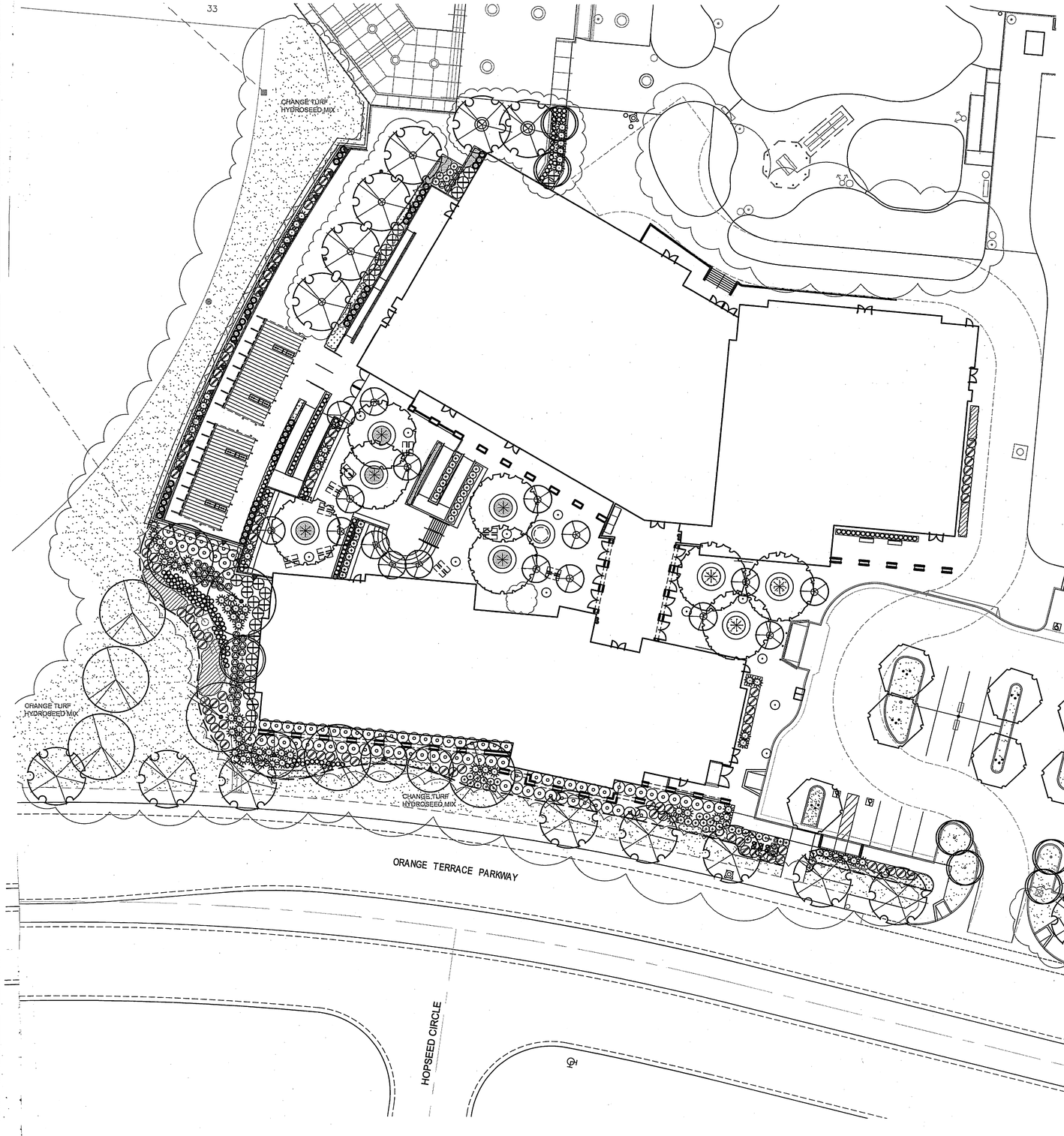
Drawing Title

IRRIGATION DETAILS

Architect's Seal

LICENSED ARCHITECT — CHRISTOPHER RICHARD TAYLOR — LIC NO. C-19759 — REN. 02-24-08 — STATE OF CALIFORNIA

Designed: D.G.	Project No. 2340001
Drawn: S.R.	Scale: AS NOTED
Checked:	Drawing No. L2.2
Reviewed:	
Date: 05-17-07	Sheet 01 of



SYMBOL	EVERGREEN / DECIDUOUS	BOTANICAL NAME COMMON NAME	SIZE	SPACING	REMARKS	REFERENCE
TREES						
	D	CERCIS OCCIDENTALIS WESTERN REDBUD	24" BOX	PER PLAN	STANDARD	DETAIL 'A', 'B', & 'H' SHEET L3.2
	D	CHITALPA T. 'PINK DAWN' PINK CHITALPA	24" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	D	LAGERSTROEMIA H. 'TUSCARORA' RED-FLOWERING CRAPE MYRTLE	36" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	D	PISTACIA CHINENSIS CHINESE PISTACHE	24" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	D	PLATANUS A. 'BLOODGOOD' LONDON PLANE	24" BOX	SEE NOTE BELOW	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	D	PLATANUS RACEMOSA CALIFORNIA SYCAMORE	24" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	E	QUERCUS AGRIFOLIA COAST LIVE OAK	24" BOX	PER PLAN	STANDARD	DETAIL 'A', 'B', & 'H' SHEET L3.2
	D	QUERCUS LOBATA VALLEY OAK	24" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2
	E	UMBELLULARIA CALIFORNICA CALIFORNIA LAUREL	24" BOX	PER PLAN	STANDARD	DETAIL 'A' & B-' SHEET L3.2

NOTES: * ALL TREES WITHIN 5' OF ANY HARDSCAPE FEATURE TO RECEIVE PANEL-STYLE 24" DEEPROOT BARRIER. REFER TO PLANTING DETAILS.
* PLATANUS A. 'BLOODGOOD' STREET TREES ALONG ORANGE TERRACE PARKWAY TO BE LOCATED IN FIELD BY PLANNING DEPARTMENT REPRESENTATIVE. CALL (951) 351-6168 FOR SPOTTING OF TREES. QUANTITY OF TREES WILL BE DETERMINED AT THE TIME OF SPOTTING.

SHRUBS				
	ARCTOSTAPHYLOS 'EMERALD CARPET' DWARF MANZANITA	1 GAL	3' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	ARCTOSTAPHYLOS 'HOWARD McMINN' MANZANITA	5 GAL	5' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	LEYMUS C. 'CANYON PRINCE' WILD RYE	1 GAL	3' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	MUHLENBERGIA RIGENS DEER GRASS	5 GAL	4' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	RHAMNUS C. 'EVE CASE' DWARF COFFEEBERRY	5 GAL	5' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	ROSA WOODSII INTERIOR ROSE	5 GAL	3' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	SALVIA CLEVELANDII CLEVELAND SAGE	5 GAL	4' O.C.	DETAIL 'E' & 'F' SHEET L3.2
	ZAUSCHNERIA CALIFORNICA CALIFORNIA FUCHSIA	1 GAL	2' O.C.	DETAIL 'E' & 'F' SHEET L3.2
VINES				
	VITIS GIRDIANA SOUTHERN CALIFORNIA GRAPE	1 GAL	12' O.C.	DETAIL 'I' SHEET L3.2

GROUND COVERS

HYDROSEEDED TURF

HYDROSEED MIXTURE:	PROPORTION BY WEIGHT	PURITY	GERMINATION
PERENNIAL RYE (50% 'CALIENTE FINE', 50% 'PRELUDE')	60%	95%	90%
PJ BLUEGRASS (50% 'RUGBY', 50% 'PARADE')	10%	98%	80%
UN-HULLED BERMUDA (CERTIFIED ARIZONA COMMON)*	30%	98%	85%

SEEDING RATE: 436 LBS/ACRE (10 LBS/ACRE)

NOTE: FOR APPLICATIONS IN MAY THROUGH SEPTEMBER, USE HULLED BERMUDA.

ACHILLEA MILLEFOLIUM COMMON YARROW	4" POT	18" O.C.	TRIANGULAR SPACING	DETAIL 'C' SHEET L3.2
ERIGERON G. 'WAYNE RODERICK' SEASIDE DAISY	4" POT	12" O.C.	TRIANGULAR SPACING	DETAIL 'C' SHEET L3.2
HEUCHERA 'OPAL' HYBRID ALUM ROOT	4" POT	18" O.C.	TRIANGULAR SPACING	DETAIL 'C' SHEET L3.2

NOTE: INSTALL MINIMUM 3" THICK LAYER OF MEDIUM GRIND SHREDDED CEDAR MULCH IN ALL SHRUB PLANTERS.

MISCELLANEOUS

6" CONCRETE MOWCURB - REFER TO DETAIL ON SHEET L3.2

NOTE: * CONTRACTOR TO RESTORE ALL PLANT MATERIAL AND IRRIGATION OUTSIDE SCOPE OF WORK THAT IS DAMAGED DURING CONSTRUCTION, WHETHER BY LANDSCAPE CREWS OR OTHER DISCIPLINES.

Ledge
RECEIVED
10-19-07
From Gary Downs

REVISIONS MADE ON 10-23-07

AS BUILT

RANGE TERRACE LIBRARY & COMMUNITY CENTER

REVISED PLANTING PLAN

RLA LANDSCAPE ARCHITECTS PLANNERS, INC

0' 20' 40' 60'

SHEET 2 of 2
10/23/07

SHEET L-3.1

File Name:

J NOT USED

G CONCRETE MOWCURB

Linear Style Planting with DeepRoot Barriers

Determine the correct number of panels to be used. Depending upon the actual planting plan and the number of trees involved the length of linear barrier will vary, but as a general rule of thumb take the anticipated mature canopy diameter of the tree and add 2 feet (61cm). This will be the number of feet necessary for a Linear style planting application. (See chart below.)

A. Choose the barrier that best suits the application. Generally if a sidewalk, patio or driveway is to be protected, 18" (46cm) (LB 18–2) is sufficient depth with 12" (30cm) (LB 12–2) as an alternate choice for non–aggressive, deeper rooting trees. However for curb and gutter protection or more agressive roots 24" (61cm) (UB 24–2) is generally the better choice.

B. Dig the trench to the depth based upon the particular barrier chosen.

C. Install the barrier. When using DeepRoot Linear Barriers simply pull the appropriate number of panels out of the box (they come preassembled) and separate the joiner at the correct length. When installing DeepRoot Universal Barriers in a linear fashion you will need to join the appropriate number of panels together.

D. Next place the barrier in the trench with the vertical ribs facing toward the tree and align in a straight fashion. It is helpful to place the barrier against the hardscape. Use the hardscape as a guide and backfill against the barriers to promote a clean smooth fit to the hardscape. Be sure to keep the barrier's double top edge at least 1/2" (13mm) above grade to ensure roots do not grow over the top.

E. Plant the tree(s). The Linear style offers a more expansive rooting growth area, however adverse soil and drainage conditions may exist in the actual planting area. Take steps to ensure healthy growth of the tree at planting. Consult with a local Arborist for planting tips and recommendations.

F. If the tree(s) will be subject to maintenance work such as lawn mowing or weed trimming we strongly recommend the installation of ArborGard+ Tree Trunk Protectors which is placed around the base of young trees to protect them from damage by weed trimmers, lawn mowers and small rodents.

For additional information please consult the 16 page DeepRoot Product Selection and Installation Guidelines.

For information regarding distributors please call: 1 800 ILV ROOT (458.7668). For help with difficult drainage or other difficult installation questions please call DeepRoot Technical Support at: 1 800 ROOT TEK (766.8835).

For a simple formula to determine the quantity of panels required for a Linear application use:
Estimated Diameter of the Tree Canopy at Maturity + 2' (61cm) = Length of Barrier per Side.

As little as one side of the tree may need barrier for root direction as there may be no hardscape elsewhere requiring protection.

Note: Linear Barriers (LB 12–2 and LB 18–2) are packaged in 2' (61cm) long panels with pre–attached flexible joiners ready to pull out of the carton and install in one continuous line of up to:

LB 12–2 80' (24 m) per Carton
LB 18–2 52' (16 m) per Carton

Line can be separated at any two foot interval.

For One Side of Tree: Expected Tree Canopy at Maturity	Number of Feet of Linear Barrier (LB 12 or LB 18)	Optional Universal Barrier (UB) in number of Panels
12' (3.6m) Diameter +2' (61cm) =	14' (4.2m)	7 Panels
18' (5.5m) Diameter +2' (61cm) =	20' (6.1m)	10 Panels
24' (7.3m) Diameter +2' (61cm) =	26' (7.9m)	13 Panels

DeepRoot LB 12–2, LB 18–2 or UB 24–2

TO BE 24" DEEP ON ALL SIDES

D DEEPROOT BARRIER

GENERAL PLANTING NOTES

1) Contact the Park Projects Inspector at 351-6254 two working days (48 hours) prior to installing any plant material.
2) Trees planted in turf areas shall be maintained with a minimum 12" radius around the tree free of turf throughout the maintenance period.
3) Watering basins may be removed after the maintenance period.
4) For staking information as applicable, refer to Standard Detail 1002.
5) For guying information as applicable, refer to Standard Detail 1003.
6) For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications, Section 02480 Planting.
7) Provide Fertilizer Tablets as follows:

1 gallon plant 2 tablets
5 gallon plant 3 tablets
15 gallon plant 5 tablets
24" box plant 8 tablets

A PLANTING DETAIL

K NOT USED

H TREE GRATE

E SHRUB PLANTING

B DOUBLE STAKING

L NOT USED

I VINE INSTALLATION

F SHRUB ON SLOPE

C SHRUB / GROUNDCOVER SPACING

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rha@rhala.com

AS BUILT

Key Plan

Consultant's Seal

Agency Approval

Project Title

ORANGE TERRACE LIBRARY / COMMUNITY CENTER

CITY OF RIVERSIDE DEVELOPMENT DEPARTMENT
3900 MAIN STREET, 5TH FLOOR
RIVERSIDE, CA 92522

HMC ARCHITECTS

No.	Revisions/Submissions	Date:
	Design Development Submittal	12/18/06
	Building Department Submittal	03/29/07
	Building Department Resubmittal	05/17/07

Drawing Title

PLANTING DETAILS

Architect's Seal

Designed: D.G.	Project No. 2340001
Drawn: S.R.	Scale: AS NOTED
Checked:	Drawing No.
Reviewed:	L3.2
Date: 05-17-07	Sheet 01 of

File Name: N:\Projects\06prj\06166 OTCP Library–Comm Center\AutoCAD\RHA\CD'S\OTLCC_Planting Details_RHA.dwg May 15,2007–10:43am

PLEASE RECYCLE OTLCC_PLANTING DETAILS_RHA.DWG