County of Riverside - Facilities Management

GRINDER ADDITION

Located at

30755-D Auld Road, Suite 3220
Murrieta, CA 92563

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PROJECT TEAM

OWNER:

COUNTY OF RIVERSIDE
3133 MISSION IN AVENUE
RIVERSIDE, CALIFORNIA 92507

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CONTACT: JOHN O'DOHERTY

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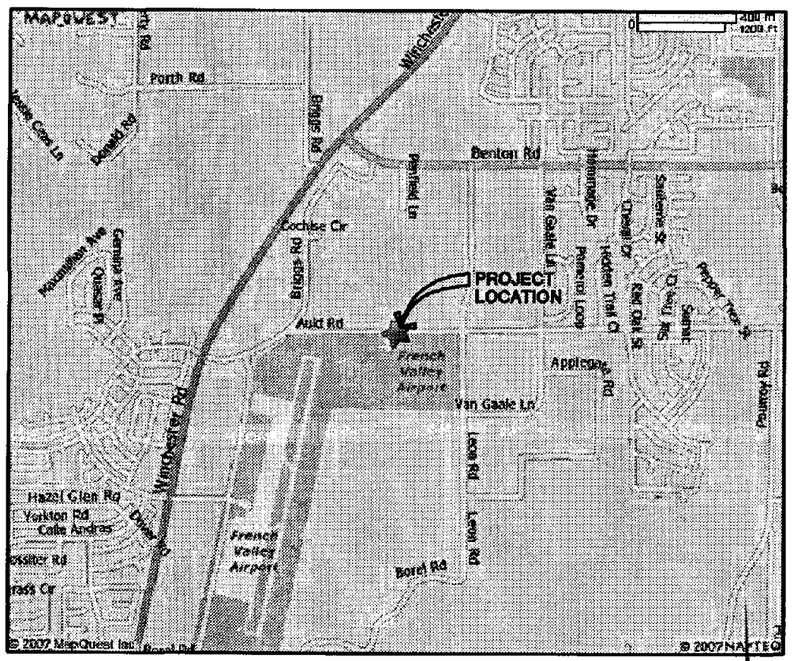
Telephone (951) 277-9109
CONTACT: DANNY IRANI



VICINITY MAP
N.T.S.

REVISIONS | DRAWN | CHKD | DATE

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STATE OF CALIFORNIA

OWNER/CLIENT
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FACILITIES MANAGEMENT
3133 MISSION INN AVE.
RIVERSIDE, CA 92507

PROJECT TITLE
SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 3220
MURRIETA, CA 92562

SHEET TITLE
TITLE SHEET & VICINITY MAP

DATE 8/23/07
DRAWN RC
CHECKED
JOB NO. 7015
SCALE AS SHOWN
DRAWING No.
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REV. 00

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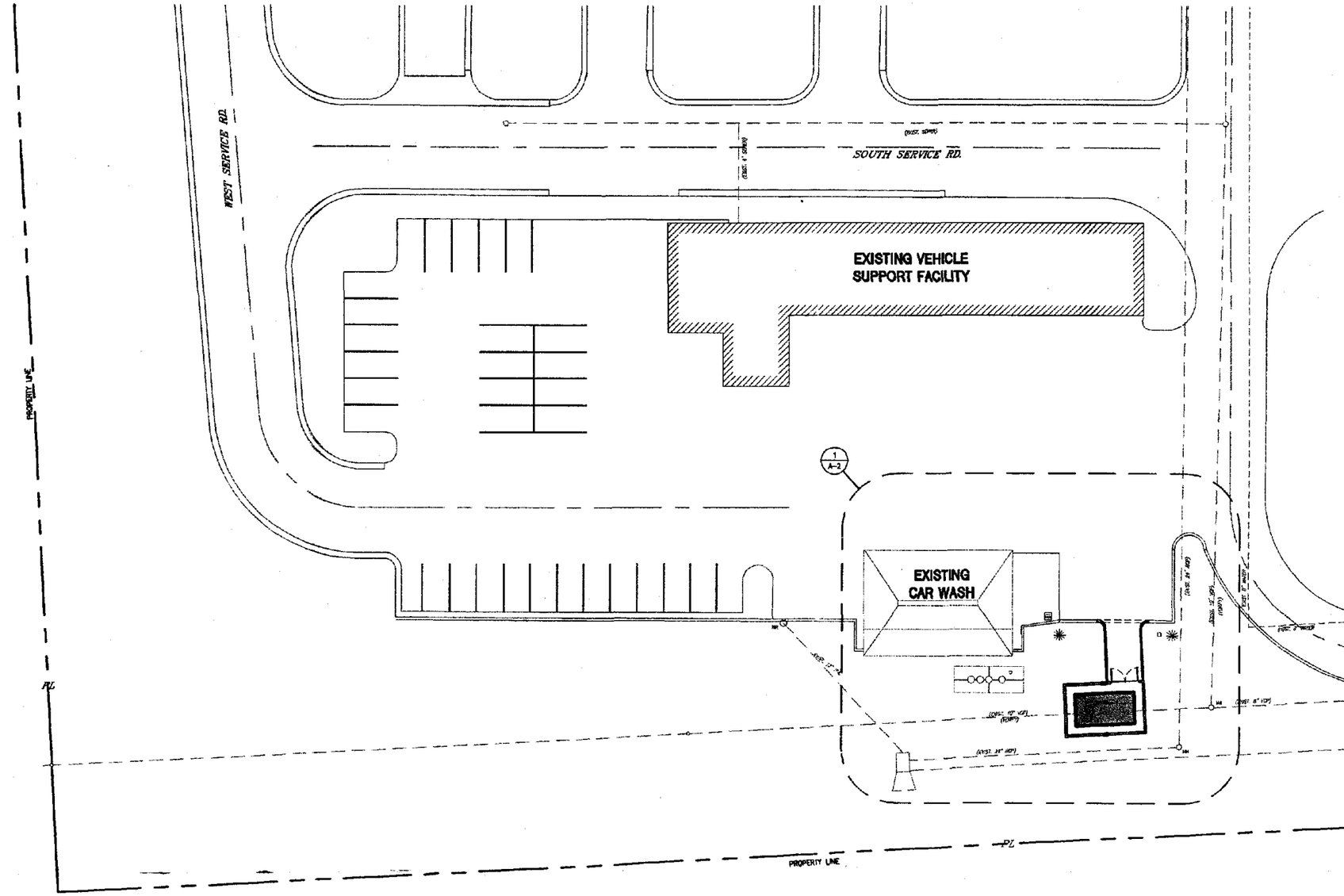

PARTIAL SITE PLAN
1/16"=1'-0"

REVISIONS	DRAWN	CHKD	DATE

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PROJECT TITLE
SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 322
MURRIETA, CA 92562

SHEET TITLE
PARTIAL SITE PLAN

DATE	11/1/07
DRAWN	MTR, RC
CHECKED	
JOB NO.	6087
SCALE	AS SHOWN
DRAWING No.	07-109
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REV.	00

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EXIST. 12" PVC

EXISTING CAR WASH

EXIST AC PAVING TYP

EXIST CURB

10'-0" NEW ACCESS

9'-8 1/2"

2'-6"

EXIST CURB TO BE REMOVED

2'-6"

6'-11 1/2"

R21'-6"

R19'-6"

NEW 6" CURB TYP

NEW AC PAVING

EXIST LANDSCAPING TYP

NEW GATE

NEW CMU BLOCK WALL TYP

11'-7"

8'-11 1/2"

EXIST 10" VCP AT NEW VAULT LOCATION TO BE REMOVED

NEW VAULT

NEW CONC WALKWAY

24'-0"

(EXIST. 24" RCP)

(EXIST. 10" VCP) (VERIFY)

MH

(EXIST. 8" VCP)

STA. 62+88.85-EX. MANHOLE INV. 1334.74/10P EL. 1345.60

(EXIST. 10" VCP) (VERIFY)

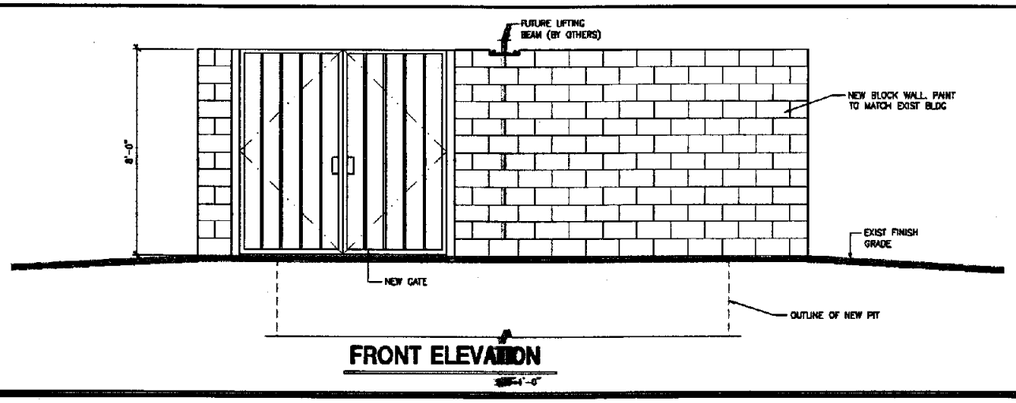
EXIST. 8" WATER

EXIST. 8" WATER

ENLARGED SITE PLAN

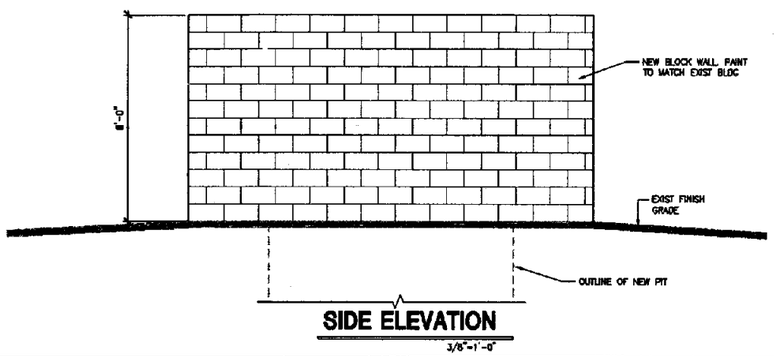
1

3/16"=1'-0"



FRONT ELEVATION

3/8"=1'-0"



SIDE ELEVATION

3/8"=1'-0"

REVISIONS	DRAWN	CHKD	DATE

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OWNER/CLIENT
COUNTY OF RIVERSIDE FACILITIES MANAGEMENT 3133 MISSIONS INN AVE. RIVERSIDE, CA 92507

PROJECT TITLE
SW JUSTICE CENTER GRINDER ADDITION 30755-D AULD RD., STE 322 MURRIETA, CA 92562

SHEET TITLE
ENLARGED SITE PLAN & WALL ELEVATIONS

DATE	11/2/07
DRAWN	MR, RC
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No. 07-188	
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REV.	00

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GENERAL

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND TO CROSSCHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. FLOOR AND WALL OPENINGS, SLEEVES, AND OTHER ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION. COORDINATE WORK WITH DRAWINGS FROM ALL DISCIPLINES.

2. DESIGN LOADS:
   PIT COVER LIVE LOAD 150 PSF
   ACTIVE LATERAL SOIL PRESSURE 35 PCF EFP

3. DESIGN WIND LOADS ARE CALCULATED PER CHAPTER 16, DIVISION III OF THE 2001 CALIFORNIA BUILDING CODE (CBC) FOR A WIND SPEED OF 90 MPH EXPOSURE "C".

4. DESIGN SEISMIC LOADS ARE CALCULATED PER CHAPTER 16, DIVISION IV OF THE 2001 CBC (STATIC FORCE PROCEDURE). R=2.9 Ω=2.0, NON-BUILDING STRUCTURE

   Z = 0.4 (ZONE 4) SOIL PROFILE TYPE = Sd I = 1.0
   N_a = 1.0 N_v = 1.16
   C_a = 0.44 C_v = 0.74
   DISTANCE TO TYPE "B" FAULT (ELSINORE GLEN IVY) = 8.0 KM

5. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS NOTED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.

6. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND / OR GENERAL NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

7. ALL WORKMANSHIP, MATERIAL, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2001 CBC AS AMENDED.

8. ALL WORK SHALL COMPLY WITH COUNTY OF RIVERSIDE STANDARDS, AND WITH ALL LOCAL CODES AND ORDINANCES. REQUIRED CONFORMANCE WITH STATED CODES AND / OR STANDARDS SHALL BE WITH THE PROVISIONS OF THE LATEST PUBLISHED REVISIONS.

9. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT EXISTING CONSTRUCTION DURING NEW CONSTRUCTION, AND COMPLIANCE WITH LOCAL REGULATIONS REGARDING SAFETY IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.

10. LOCATE ALL PITS, TRENCHES, WALLS, THICKENED SLABS, RECESSED FLOORS, AND OTHER FEATURES PER RELEVANT PLANS AND DETAILS.

11. ALL SHEETING, SHORING, AND BRACING OF TRENCHES, PITS AND EXCAVATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL CURRENT AND APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES, REGULATIONS AND PRACTICES, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

FOUNDATIONS

1. *FOOTINGS SHALL BE FOUNDED UPON WELL-GRADED, COMPACTED AND* UNDISTURBED SOILS, ASSUMED TO BE COMPOSED PREDOMINATELY OF SANDY-SILTS WITH A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSF AT 12" BELOW ADJACENT GRADE, IN ACCORDANCE WITH CBC TABLE 18-I-A. BEARING CAPACITY IS ASSUMED TO INCREASE 20% FOR ADDITIONAL FOOT OF EMBEDMENT.

2. EXISTING SOILS BELOW NEW CONSTRUCTION BE SHALL BE TESTED & COMPACTED AS NEEDED TO ATTAIN AT LEAST 95% RELATIVE COMPACTION UNDER NEW SLAB-ON-GRADE AND 90% UNDER NEW PADS AND WALL FOOTINGS.

3. CONTACT ENGINEER SHOULD ANY CONDITIONS BE ENCOUNTERED THAT ARE *UNUSUAL OR DO NOT GIVE ADEQUATE BEARING, THE OWNER SHALL BE NOTIFIED* AND WORK SHALL CEASE. WORK SHALL NOT RESUME UNTIL THE ENGINEER EVALUATES THE EXCAVATION AND GIVES WRITTEN NOTICE TO RESUME FOUNDATION WORK.

4. GRADING AND FOUNDATIONS SHALL BE INSPECTED AND CERTIFIED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE

1. CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (f'c) AT *28 DAYS OF 2500 PSI.*

2. LIMIT THE WATER-TO-CEMENT RATIO IN THE MIX DESIGN TO A MAXIMUM OF 0.50. SLUMP SHALL NOT EXCEED 5".

3. THE MIX DESIGN SHALL BE PROPORTIONED ON THE BASIS OF FIELD EXPERIENCE AND TRIAL MIXTURES IN CONFORMING TO SECTION 1905.3 OF THE CBC, AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER BY THE GENERAL CONTRACTOR. AGGREGATE SHALL CONFORM TO ASTM C-33, 1" MAXIMUM SIZE. CONCRETE SHALL USE TYPE I OR II PORTLAND CEMENT.

4. *ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19* OF THE CBC AND TO ALL REQUIREMENTS OF ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

5. DRY PACK MIX SHALL BE ONE PART CEMENT AND ONE-AND-ONE-HALF PARTS FINE AGGREGATE WITH A MINIMUM OF WATER.

6. CAST IN PLACE CONCRETE SHALL BE POURED CONTINUOUSLY, WITH A MINIMUM OF COLD JOINTS. CONCRETE SHALL BE VIBRATED TO MINIMIZE AIR POCKETS AND HONEYCOMBS. PATCH AND REPAIR SURFACE FLAWS AFTER STRIPPING EXPOSED CONCRETE WORK.

7. CONCRETE SLABS-ON-GRADE SHALL BE POURED ON COMPACTED SUB GRADE. ALL EXPOSED INTERIOR CONCRETE SLABS SHALL HAVE STEEL-TROWELED FINISH. PROVIDE SAWED OR SOF-CUT CONTROL JOINTS TO A DEPTH OF 1/4™ OF SLAB THICKNESS, AT LOCATIONS INDICATED, BUT AT SPACINGS NOT MORE THAN 36 TIMES THE SLAB THICKNESS.

8. SLAB SURFACES SHALL BE SMOOTH AND LEVEL, OR SHALL HAVE SMOOTH EVEN SLOPE TOWARDS FLOOR DRAINS WHERE SO INDICATED. PROVIDE SLIP-RESISTANT, BROOMED CONCRETE FINISH FOR EXTERIOR WALKS, RAMPS, AND LANDINGS.

9. *DEPRESS CONCRETE SURFACES AS REQUIRED TO ESTABLISH TILE AND/OR OTHER* FINISH MATERIALS AT SPECIFIED FINISH FLOOR LEVEL.

10. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR SLAB SEALER AND/OR COATINGS. INTERIOR SLABS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.

11. ALL HORIZONTAL BARS IN CONCRETE PADS AND WALL FOOTINGS SHALL BE CONTINUOUS AND BENT INTO ALL CORNERS AND INTERSECTIONS.

12. ALL REINFORCING STEEL, WIRE MESH, ANCHOR BOLTS, HOLDOWN ANCHORS, AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING *OFFICIAL PRIOR TO PLACING CONCRETE.*

13. PROVIDE ¾" CHAMFER OR ½" RADIUS EDGES AT ALL EXPOSED CONCRETE EDGES UNO. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER MOLDINGS, GROOVES, ORNAMENTS, OR ACCESSORIES REQUIRED TO BE CAST IN CONCRETE, AND FOR FLOOR FINISHES AND LOCATIONS OF SLAB DEPRESSIONS.

14. ALL HORIZONTAL AND VERTICAL COLD JOINTS IN BELOW-GRADE WALLS AND FLOORS SHALL BE SEALED WATER-TIGHT WITH AN APPROVED CONTINUOUS WATERSTOP.

15. AFTER FORM REMOVAL AND CURING, AND BEFORE BACKFILLING OF BELOW-GRADE WALLS, COAT THE EXTERIOR FACE WITH AN APPROVED DAMPPROOFING SYSTEM.

CONCRETE ANCHORS

1. EXPANSION ANCHORS SHALL BE HILTI KB-II INSTALLED IN CONFORMANCE WITH ICBO #ER-4627 OR REDHEAD TRUBOLT WEDGE ANCHORS INSTALLED IN CONFORMANCE WITH ICBO #ER-1372. SPECIAL INSPECTION NOT REQUIRED U.N.O.

2. ADHESIVE ANCHORS SHALL BE SIMPSON STRONG-TIE "ACRYLIC-TIE" INSTALLED IN CONFORMANCE WITH ICBO #ER-5791, OR AN APPROVED EQUAL. SPECIAL INSPECTION IS REQUIRED FOR DRILLING, CLEANING AND FILLING OF ANCHOR HOLES WITH ADHESIVE.

MASONRY:

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MORE STRINGENT PROVISIONS OF ACI 530.1 OR CHAPTER 21 OF THE 2001 CBC.

2. BLOCK SHALL BE PRECISION LIGHT WEIGHT BLOCK CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C-90 TYPE 1. THE MASONRY ASSEMBLY SHALL HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH (f'm) OF 1500 PSI. GROUT ALL CELLS SOLID.

3. GROUT SHALL CONFORM TO THE PROPORTION REQUIREMENTS OF ASTM C-476. AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C-404. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL BE 2000 PSI. UNITS SHALL BE LAID TO THE FULL HEIGHT OF THE GROUT POUR AND GROUT SHALL BE PLACED IN CONTINUOUS POURS IN EACH GROUT LIFT. GROUT LIFTS SHALL BE LIMITED TO 6 FEET MAXIMUM FOR 8" CMU AND 16 FEET MAXIMUM FOR 12" CMU. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED 1-1/2" BELOW MORTAR JOINTS, EXCEPT THAT WHERE BOND BEAMS OCCUR, THE CONSTRUCTION JOINT SHALL OCCUR ½" BELOW THE TOP OF MASONRY.

4. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5 FEET IN HEIGHT. WHEN REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR BUT SHALL NOT BE SPACED MORE THAN 32 INCHES ON CENTER. REMOVE LOOSE MORTAR AND DEBRIS FROM GROUT SPACES, AND SEAL CLEANOUTS AFTER INSPECTION AND BEFORE GROUTING.

5. GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT WITHOUT SEGREGATION OF THE CONSTITUENTS, AND SHALL BE MIXED THOROUGHLY. GROUTING SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL ALL GROUT SPACES.

6. REINFORCEMENT SHALL BE PLACED AND INSPECTED PRIOR TO GROUTING. BOLTS AND ANCHORS SHALL BE ACCURATELY SET WITH TEMPLATES AND HELD IN PLACE TO PREVENT DISLOCATION DURING GROUTING.

7. MORTAR SHALL BE TYPE "S", CONSISTING OF ONE PART PORTLAND CEMENT, ¼ TO ½ PART HYDRATED LIME OR LIME PUTTY, 2 ¼ TO 3 PARTS SAND AND SHALL CONFORM TO ASTM C-270. MASONRY CEMENT AND PLASTIC CEMENT SHALL NOT BE PERMITTED PER CBC SEC 2106.1.12.3.5. SAND SHALL BE IN A DAMP, LOOSE CONDITION.

8. ALL MASONRY WORK SHALL BE LAID RUNNING BOND UNLESS NOTED OTHERWISE. MORTAR JOINTS SHALL BE TOOLED CONCAVE.

7. ALL WALLS SHALL HAVE A MINIMUM OF 2 #5 CONTINUOUS REINFORCING BAR AT EACH SIDE OF ALL OPENINGS AND 1 #5 VERTICAL BAR AT ALL CORNERS, UNO.

8. "HALF ALLOWABLE STRESSES" HAVE BEEN USED IN THE MASONRY DESIGN FOR THIS PROJECT, USING "WORKING STRESS DESIGN", IN LIEU OF SPECIAL INSPECTION AND TESTING, AND IN ACCORDANCE WITH CBC SECTION 2105.3.2, A LETTER OF CERTIFICATION FROM THE MANUFACTURER OF THE MASONRY UNITS SHALL BE PROVIDED PRIOR TO DELIVERY OF THE UNITS TO THE JOBSITE TO ASSURE THE UNITS ACHIEVE A UNIT COMPRESSIVE STRENGTH OF 1900 PSI. A LETTER OF CERTIFICATION FROM THE SUPPLIER OF THE GROUT SHALL ALSO BE PROVIDED PRIOR TO DELIVERY OF THE GROUT TO THE JOBSITE TO ASSURE THE GROUT MIX ACHIEVES ITS SPECIFIED COMPRESSIVE STRENGTH.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 40 FOR #5 AND SMALLER BARS, AND GRADE 60 FOR LARGER BARS. REINFORCING STEEL TO BE FIELD OR SHOP WELDED SHALL CONFORM TO ASTM A-706 LOW ALLOY STEEL.

2. ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE SPLICED WITH A LAP OF THE LENGTH SPECIFIED IN THE REBAR LAP SCHEDULE. PRE-BENT CORNER BARS MAY BE USED FOR CONTINUITY, PROVIDED THAT THEY MAINTAIN THE SPECIFIED SPACING AND ARE OF SUFFICIENT LENGTH TO PROVIDE THE MINIMUM LAP LENGTH. REFER TO "STD REBAR TIES, HOOK, BENDS, LAPS" DETAIL ON THIS SHEET FOR MINIMUM REINFORCING DIMENSIONS.

3. ALL CONCRETE REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION", LATEST EDITION, PUBLISHED BY CRSI.

4. ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, (UNO):

   - CONCRETE PLACED AGAINST EARTH = 3"
   - *FORMED CONCRETE IN CONTACT WITH EARTH* = 2"
   - CONCRETE EXPOSED TO WEATHER = 2"
   - SLABS AND WALLS NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH = 3/4"

STRUCTURAL STEEL

1. ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, NINTH EDITION ASD. "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." THE CONTRACTOR IS RESPONSIBLE FOR THE FIT OF ALL STRUCTURAL STEEL AND SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

2. ELEMENTS INDICATED AS STAINLESS STEEL SHALL BE AISI TYPE 304 MATERIAL UNO. WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM A992 (Fy = 50KSI). TUBULAR STEEL MEMBERS SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI). STEEL PIPE MEMBERS SHALL CONFORM TO ASTM A53, GRADE B, TYPE E OR S. ALL OTHER STEEL MEMBERS SHALL CONFORM TO ASTM A36 (Fy = 36 KSI) UNO.

3. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE D1.1" USING E70 ELECTRODES. ALL STRUCTURAL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS PRE-APPROVED BY THE *BUILDING DEPARTMENT. A REGISTERED DEPUTY INSPECTOR SHALL INSPECT ALL* FIELD WELDING.

4. ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE ASTM A307 USING HOT-DIP GALVANIZED AMERICAN STANDARD REGULAR BOLTS.

5. NO CUTTING, BURNING, OR HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS WITHOUT PRIOR CONSENT OF THE ENGINEER. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATIONS, AND SHALL BE STANDARD HOLES UNO.

6. STRUCTURAL STEEL FABRICATION AND ERECTION DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION. PROVIDE CERTIFIED ANCHOR BOLT LAYOUT PLANS TO THE CONCRETE SUBCONTRACTOR IN ADVANCE OF THE STEEL FABRICATION.

7. BEARING PLATES SHALL BE GROUTED WITH A HIGH-STRENGTH NON-SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI. ALL SURFACES SHALL BE CLEANED OF FOREIGN MATERIAL PRIOR TO THE GROUTING OPERATION.

8. ALL FABRICATED MATERIALS SHALL BE GALVANIZED AFTER FABRICATION. ALL WELDS, ABRASIONS, AND OTHER SURFACE DEFECTS IN THE GALVANIZING SHALL RECEIVE ONE FIELD APPLIED COAT OF ZINC-RICH PRIMER PRIOR TO ENCLOSURE OR FINAL ACCEPTANCE.

9. THE USE OF ROLLED STEEL SECTIONS AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM A-36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY RIVERSIDE COUNTY BUILDING AND SAFETY PRIOR TO THEIR USE.

GRATING:

1. GRATING SHALL BE STANDARD WELDED BAR GRATING WITH 1-1/4"X1/8" BEARING BARS, GRATING PACIFIC INC. W-19-4 (TEL. 800-321-4314) OR EQUAL.

2. GRATING SHALL BE UNPAINTED, WITH A GALVANIZED FINISH AFTER FABRICATION. DESIGN, FABRICATION, STORAGE, HANDING, AND ERECTION OF GRATING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE METAL BAR GRATING MANUAL, ANSI MBG-531.

3. ALL PANEL EDGES SHALL BE BANDED. INSTALL GRATING WITH BEARING BARS PERPENDICULAR TO SUPPORT FRAMING. PROVIDE 1" MINIMUM BEARING AT SUPPORTS.

4. GRATING SUPPLIER SHALL PROVIDE MATCHING GALVANIZED L-SHAPED STEEL EDGE FRAME FOR GRATING SUPPORT AT PIT PERIMETER. EDGE FRAME SHALL BE FLUSH WITH , AND HAVE INTEGRAL ANCHORS FOR ENCASEMENT IN, THE CONCRETE PERIMETER SLAB.

5. FASTEN GRATING TO SUPPORT FRAMING WITH STANDARD MANUFACTURER'S STEEL SADDLE CLIPS OR WELDED BOLT-DOWN LUGS WITH ½" DIAMETER FASTENERS. INDIVIDUAL PANELS SHALL BE FASTENED 8 INCHES FROM EACH EDGE AT PANEL ENDS AND AT MID-WIDTH AT ALL INTERIOR SUPPORTS.

STRUCTURAL OBSERVATION PROGRAM:

1. THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATIONS.

2. THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL OBSERVATION, THE CONTRACTOR AND APPROPRIATE SUBCONTRACTORS SHALL HOLD A PRE-CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEM.

3. STRUCTURAL OBSERVATIONS SHALL INCLUDE THE FOLLOWING:

   a. FOUNDATION AND SLAB PREPARATION TO OBSERVE THE STEEL PLACEMENT AND FOOTING SIZES AND DEPTHS;
   b. STEEL FRAMING, PRIOR TO INSTALLING FINISH MATERIALS AND CLOSING OFF OF INTERIOR FRAMING.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS:

1. ALL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER PER CBC SECTION 1704.3.5. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. COPIES OF REPORTS AND TEST RESULTS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ENGINEER, THE CONTRACTOR, AND THE OWNER. SPECIAL INSPECTOR MUST SUBMIT FINAL REPORTS, IF PRELIMINARY REPORTS ARE ISSUED.

2. NAMES OF INSPECTION CONSULTANTS TO BE USED ON THIS PROJECT SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO ISSUANCE OF BUILDING PERMIT.

3. CONTINUOUS SPECIAL INSPECTION, EXCEPT WHERE PERIODIC SPECIAL INSPECTION IS ALLOWED IN THE NOTES BELOW, IS REQUIRED FOR:

   a. CONCRETE, DURING TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE (EXCEPT NOT REQUIRED FOR FOUNDATION CONCRETE IF f'c DESIGN STRENGTH IS NOT MORE THAN 2500 PSI, FOR NON-STRUCTURAL SLABS ON GRADE, AND FOR SITE WORK CONCRETE FULLY SUPPORTED ON EARTH)
   b. EXPANSION / EPOXY / ADHESIVE ANCHORS IN CONCRETE AND MASONRY
   c. FIELD WELDING OF LOAD-SUPPORTING STEEL MEMBERS AND REINFORCING
   d. SHOP WELDING IF NOT PERFORMED IN AN APPROVED FABRICATION SHOP PER CBC SECTION 1701.7

4. THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE, PROVIDED THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES, AND WELDER QUALIFICATIONS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.

5. SHOP DRAWING REVIEWS:

   a. THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS WITH RESPECT TO THE ABILITY OF THE DETAILS TO PERFORM AS INTENDED WHEN COMPLETE, AND TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DESIGNED BY THE ENGINEER.

   b. SHOP DRAWINGS AND RELATED MATERIALS CALLED FOR SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. ALLOW FIVE (5) WORKING DAYS FOR THE ENGINEER TO PERFORM THE REVIEW. SUBMIT THE FOLLOWING:
      i. CONCRETE MIX DESIGN
      ii. ADMIXTURES, CURING COMPOUNDS, SEALERS
      iii. WATERSTOPS
      iv. DAMPPROOFING SYSTEM
      v. STRUCTURAL STEEL FABRICATION DRAWINGS

6. REQUIRED TESTING:

   a. CONCRETE CYLINDERS FOR 28 DAY STRENGTH (2 CYLINDER AVERAGE) FOR EACH CLASS OF CONCRETE, NOT LESS THAN ONCE A DAY, NOT LESS THAN ONCE FOR EACH 150 CU YDS, NOT LESS THAN ONCE FOR EACH 5000 SF OF SLABS.

BAR SIZE	"D" BEND	MINIMUM END HOOKS FOR ALL REINFORCING BRICK, CONCRETE AND CMU					
		180° HOOKS		90° HOOKS	135° SEISMIC HOOK		
		A or C	J	A or C	A or C	H	
#3	2-1/4"	5"	3"	6"	5"	3 1/2"	
#4	3"	6"	4"	8"	7"	4 1/2"	
#5	3-3/4"	7"	5"	10"	9"	5 1/2"	
#6	4-1/2"	8"	6"	1'-0"	11"	6 1/2"	
#7	5-1/4"	10"	7"	1'-2"	1'-1"	8"	
#8	6"	11"	8"	1'-4"	1'-3"	9"	
#9	9"	1'-3"	1'-0"	1'-7"	NA	NA	
#10	10"	1'-5"	1'-3"	1'-10"	NA	NA	

MIN. LAP LENGTH, CB 40 & 60 REBAR

BAR SIZE	REBAR GRADE	2500 PSI		3000 PSI		4000 PSI		CMU*	
		STD	TOP	STD	TOP	STD	TOP	WSD	USD
#3	40	13"	16"	12"	15"	12"	13"	15"	20"
#4		17"	22"	15"	20"	13"	17"	20"	27"
#5		21"	27"	19"	25"	17"	21"	25"	33"
#6	60	37"	48"	34"	44"	30"	38"	36"	47"
#7		58"	89"	52"	81"	54"	70"	42"	55"
#8		78"	101"	71"	93"	62"	80"	48"	63"
#9		98"	114"	90"	104"	69"	90"	54"	109"
#10		98"	127"	89"	116"	77"	100"	86"	NA

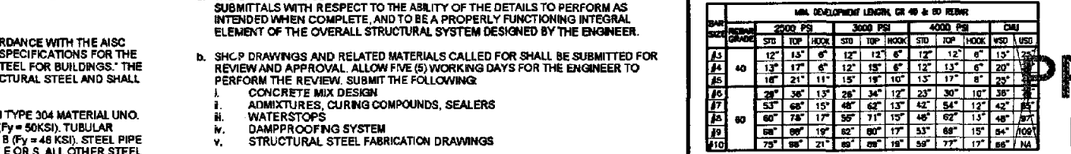
* LAP LENGTHS FOR CMU ARE SHOWN FOR WORKING STRESS DESIGN (WSD) AND ULTIMATE STRENGTH DESIGN (USD) METHODS. REFER TO MASONRY SPEC FOR THE APPLICABLE DESIGN METHOD FOR THIS PROJECT.

NOTE: USE "TOP" VALUE WHEN 12" OR MORE OF CONCRETE IS PLACED BELOW THE REINFORCING BAR BEING LAPPED

MIN. DEVELOPMENT LENGTH, CB 40 & 60 REBAR

BAR SIZE	REBAR GRADE	2500 PSI			3000 PSI			4000 PSI			CMU	
		STD	TOP	HOOK	STD	TOP	HOOK	STD	TOP	HOOK	WSD	USD
#3	40	12"	15"	6"	12"	12"	6"	12"	12"	6"	15"	20"
#4		13"	17"	6"	12"	15"	6"	12"	13"	6"	20"	27"
#5		16"	21"	11"	15"	19"	10"	13"	17"	8"	25"	33"
#6	60	28"	36"	13"	26"	34"	12"	23"	30"	10"	36"	47"
#7		53"	68"	15"	48"	62"	13"	42"	54"	12"	42"	55"
#8		60"	78"	17"	55"	71"	15"	48"	62"	13"	48"	63"
#9		86"	96"	19"	82"	86"	17"	53"	68"	15"	54"	109"
#10		75"	98"	21"	69"	89"	19"	59"	77"	17"	86"	NA

NOTE: "D/B" IS THE EMBEDMENT LENGTH ON BOTH SIDES OF A CONSTRUCTION JOINT FOR A STRAIGHT REINFORCING BAR. USE "TOP" VALUE WHEN 12" OR MORE CONC. IS PLACED BELOW BAR. USE TABULATED "HOOK" VALUE FOR REINFORCING WITH A 90° OR 180° END HOOK.



STD REBAR TIES, HOOKS, BENDS, LAPS

PRELIMINARY

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REVISIONS	DRAWN	CHKD	DATE

REGISTERED PROFESSIONAL ENGINEER JOHN H. CRIDDEN No. 46044 Exp. 12/31/08 CIVIL STATE OF CALIFORNIA

OWNER/CLIENT
COUNTY OF RIVERSIDE FACILITIES MANAGEMENT
3133 MISSIONS INN AVE.
RIVERSIDE, CA 92507

PROJECT TITLE
SW JUSTICE CENTER GRINDER ADDITION
30755-D AULD RD., STE 322
MURRIETA, CA 92562

SHEET TITLE
STRUCTURAL NOTES & REBAR SCHEDULE

DATE	8/2/07
DRAWN	JPC
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No.	07-096
	S-1
REV.	00

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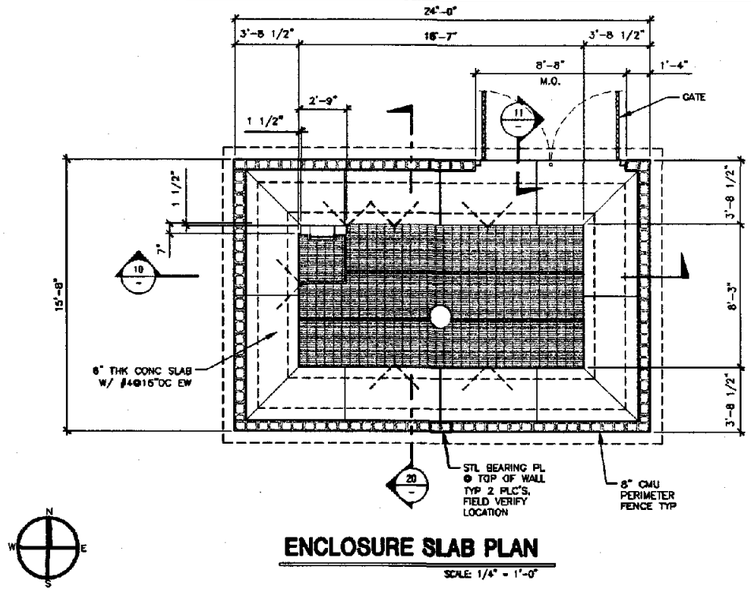
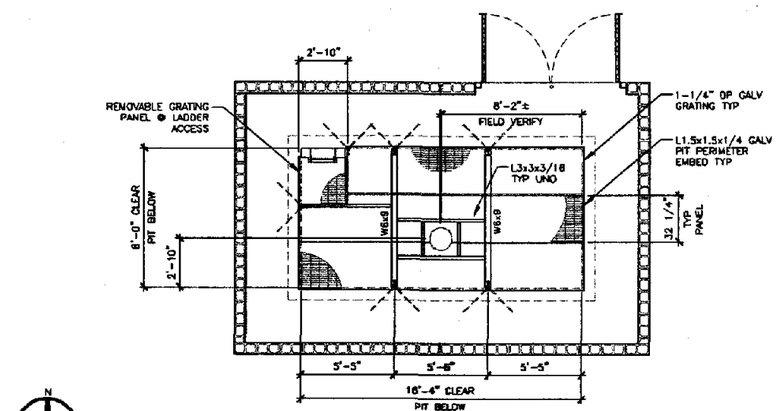


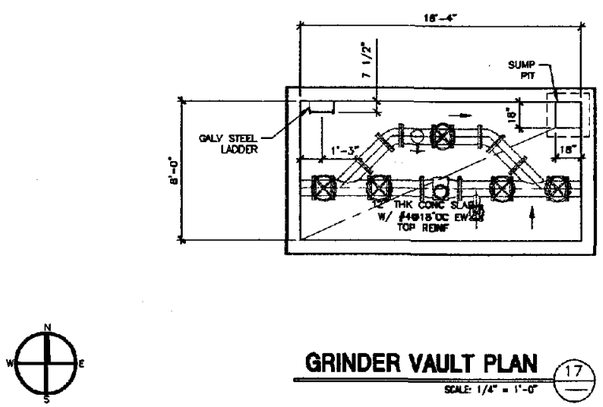
ENCLOSURE SLAB PLAN

SCALE: 1/4" = 1'-0"



PIT COVER FRAMING PLAN

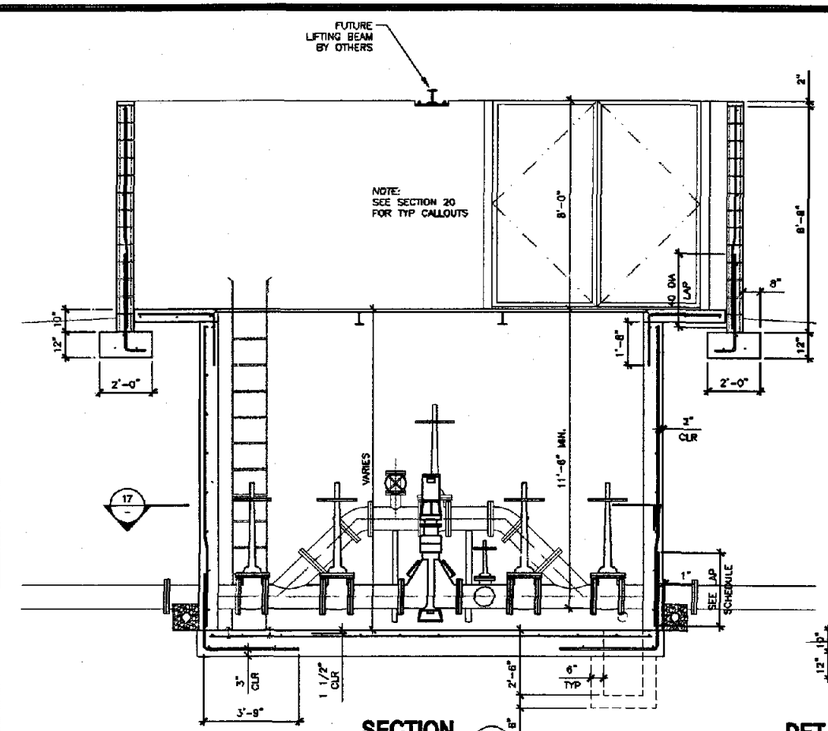
SCALE: 1/4" = 1'-0"



GRINDER VAULT PLAN

SCALE: 1/4" = 1'-0"

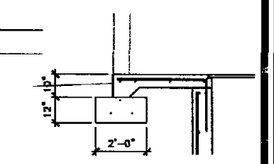
17



SECTION

SCALE: 3/8" = 1'-0"

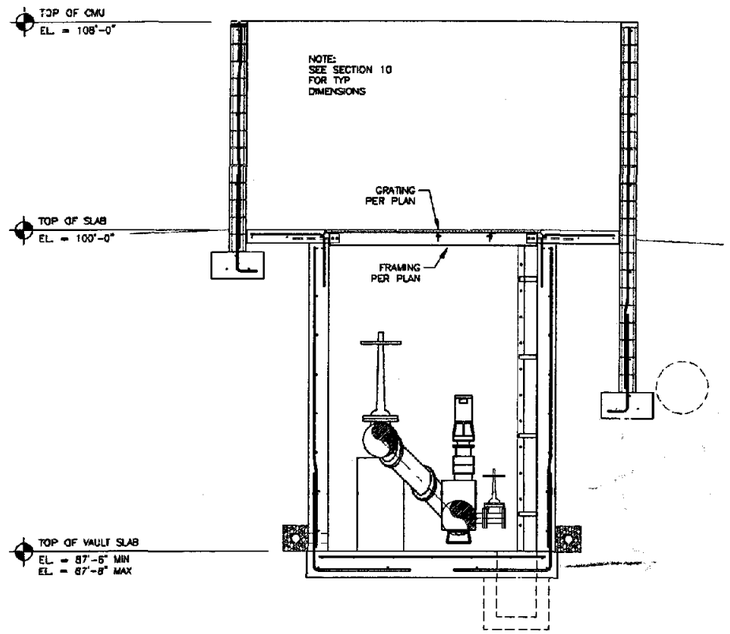
10



DETAIL @ GATE

SCALE: 3/8" = 1'-0"

11



SECTION

SCALE: 3/8" = 1'-0"

20

PRELIMINARY

REVISIONS	DRAWN	CHKD	DATE

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PROJECT TITLE

SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 3220
MURRIETA, CA 92562

SHEET TITLE

GRINDER VAULT PLAN
ENCLOSURE SLAB PLAN
PIT COVER

DATE	8/23/07
DRAWN	JPC
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No.	07-097

S-2

REV. 00

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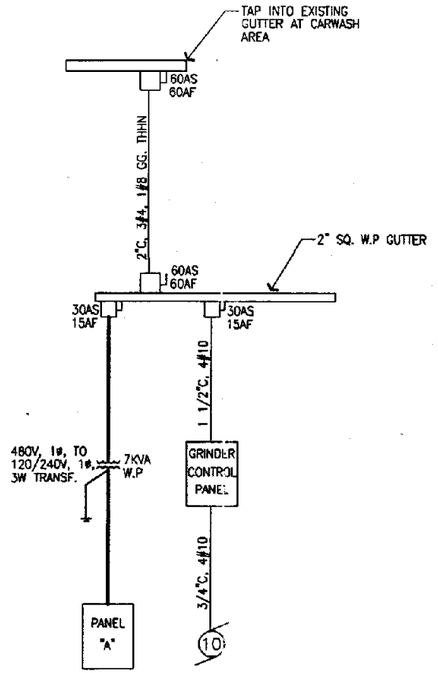
ELECTRICAL NOTES

1. THE WORDS: PROVIDE, FURNISH, INSTALL, CONNECT AND INCLUDE, SHALL BE UNDERSTOOD TO FURNISH, INSTALL AND CONNECT BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2002 EDITION, AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES AND OSHA REQUIREMENTS APPLYING TO THE PROPOSED CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN THE ABOVE AND THESE PLANS AND SPECIFICATIONS, THE MOST RESTRICTIVE SHALL GOVERN.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, INSTALLATION, ETC., FOR A COMPLETE AND PROPERLY OPERATING SYSTEM, ENERGISED THROUGHOUT.
4. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED, AND SHALL BE OF THE HIGHEST GRADE AND OF THE SAME MANUFACTURE FOR EACH CLASS OR GROUP OF EQUIPMENT, AND SHALL BE INSTALLED IN MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED. MATERIAL AND EQUIPMENT SHALL BE U.L. LISTED.
5. VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS, AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES ELECTRICAL CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
6. CONTRACTOR SHALL MAINTAIN ONE SET OF THESE PLANS MARKED IN RED SHOWING EVERY CHANGE, ADDITION, DELETION, OR MODIFICATION. THIS "AS-BUILT" SET SHALL BE RETURNED TO THE OWNER BEFORE FINAL ACCEPTANCE OF THE WORK.
7. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE DATE BY THE OWNER.
8. ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND SERVING UTILITIES. ELECTRICAL CONTRACTOR SHALL PERFORM ALL REQUIRED TESTS.
9. CONDUCTORS SHALL BE TYPE THHN/THWN INSULATION 600 VOLT, COPPER, MINIMUM #12 AWG, EXCEPT FOR CONTROLS. #6 AWG AND LARGER SHALL BE STRANDED.
10. FURNISH AND INSTALL ALL LINE VOLTAGE WIRING, CONDUITS AND OUTLETS TO RENDER MECHANICAL, PLUMBING AND KITCHEN SYSTEMS COMPLETE AND OPERATIVE. VERIFY VOLTAGE AND POWER REQUIREMENTS TO EACH PIECE OF EQUIPMENT WITH RESPECTIVE CONTRACTOR PERIOR TO ROUGH-IN.
11. REFER TO MECHANICAL, PLUMBING AND KITCHEN PLANS FOR EXACT EQUIPMENT LOCATIONS AND CONTROL REQUIREMENTS.
12. INCLUDE CODE SIZED GROUND CONDUCTOR FOR ALL NON-METALLIC AND FLEXIBLE CONDUIT RUNS. ALL CONDUIT SHALL BE CONCEALED, EXCEPT WHERE NOTED. ALL EXPOSED CONDUIT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALLS. ALL CONDUIT ONLY (C.O.) SHALL HAVE NYLON PULLROPE.
13. ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH, WELD OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER OR ARCHITECT.
14. ALL EQUIPMENT IN DAMP LOCATIONS AND ALL EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
15. MOUNTING HEIGHT OF ALL DEVICES SHALL CONFORM TO ADA REQUIREMENTS AND CALIFORNIA STATE ACCESSIBILITY STANDARDS.
16. ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES SHALL BE BRACED OR ANCHORED. SEISMIC ANCHORAGE SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2336(b) AND TABLE 23-4.
17. MAIN SWITCHBOARD & PANELBOARDS SHALL BE BY "RSE-SIERRA" OR EQUAL
18. PROVIDE TYPEWRITTEN DIRECTORY CARD IN ALL PANELBOARDS.
19. ALL CIRCUIT BREAKERS, SWITCHES, STARTERS, ETC. SHALL BE 3-POLE UNLESS OTHERWISE NOTED.



SINGLE LINE DIAGRAM

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REVISIONS | DRAWN | CHKD | DATE

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PROJECT TITLE
SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 322
MURRIETA, CA 92562

SHEET TITLE
NOTES, SITE PLAN
SINGLE LINE

DATE	8/8/07
DRAWN	DMB
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No.	E-1
REV.	00

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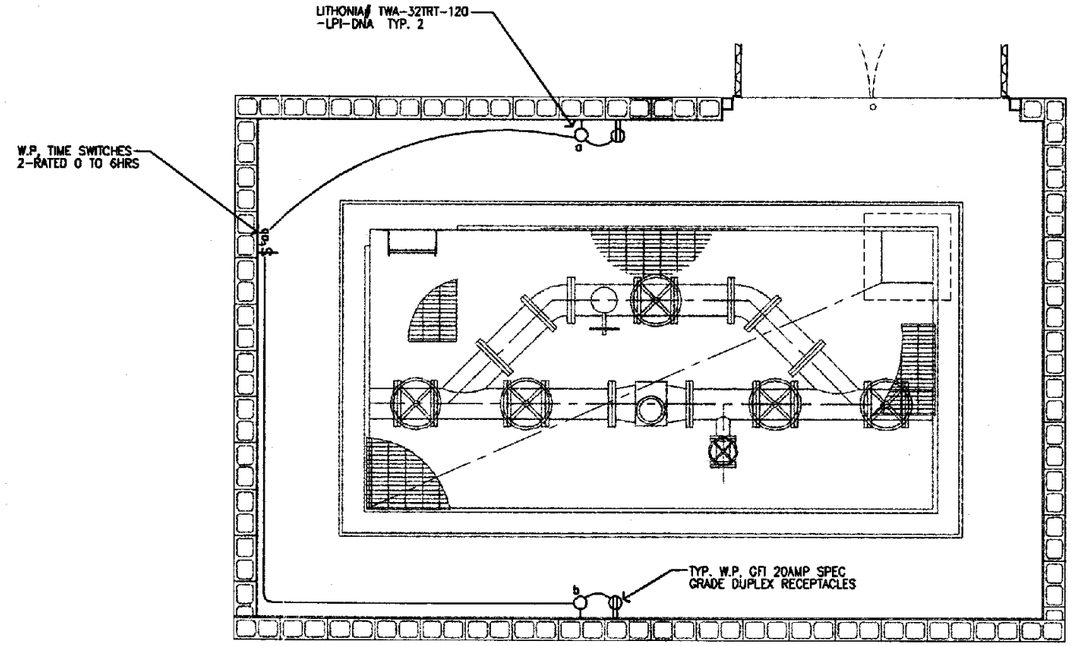
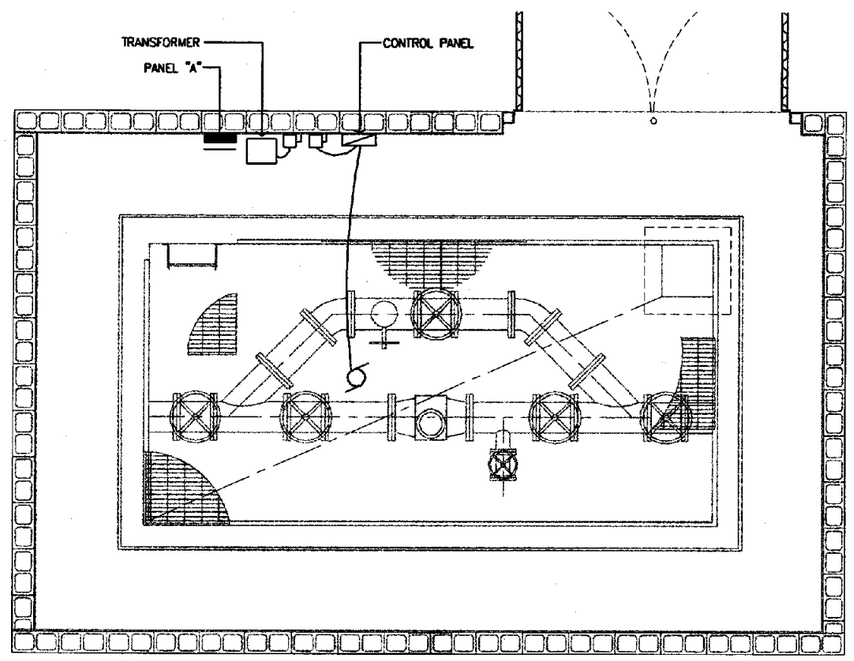


LIGHTING PLAN

1/2"=1'-0"



POWER PLAN

1/2"=1'-0"

REVISIONS	DRAWN	CHKD	DATE

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PROJECT TITLE
SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 3220
MURRIETA, CA 92562

SHEET TITLE
LIGHTING & POWER PLANS

DATE	8/6/07
DRAWN	DML
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No.	E-2
REV.	00

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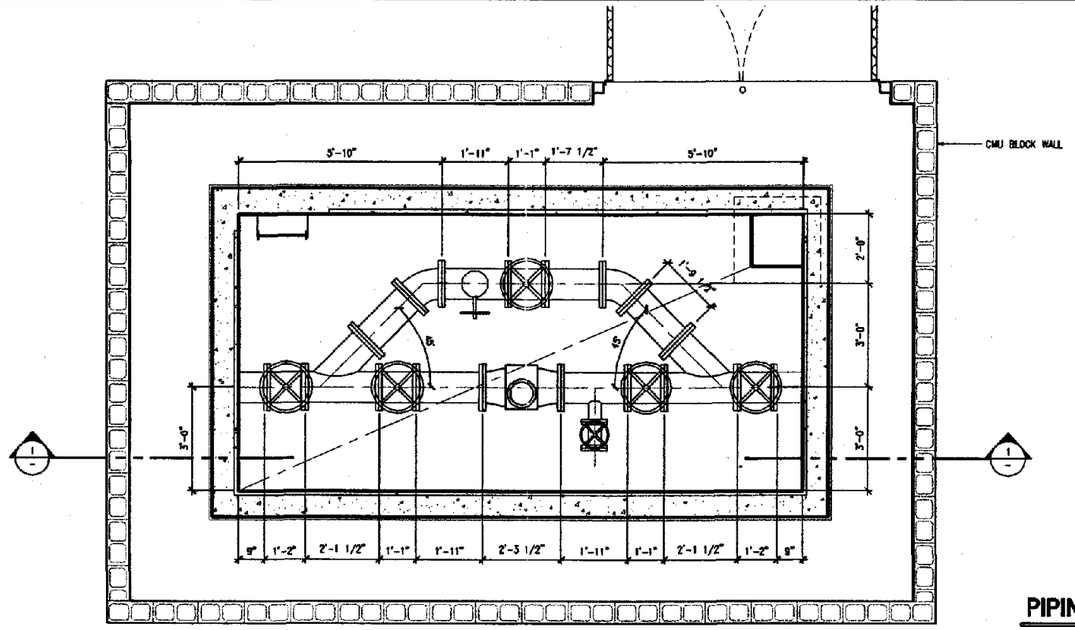
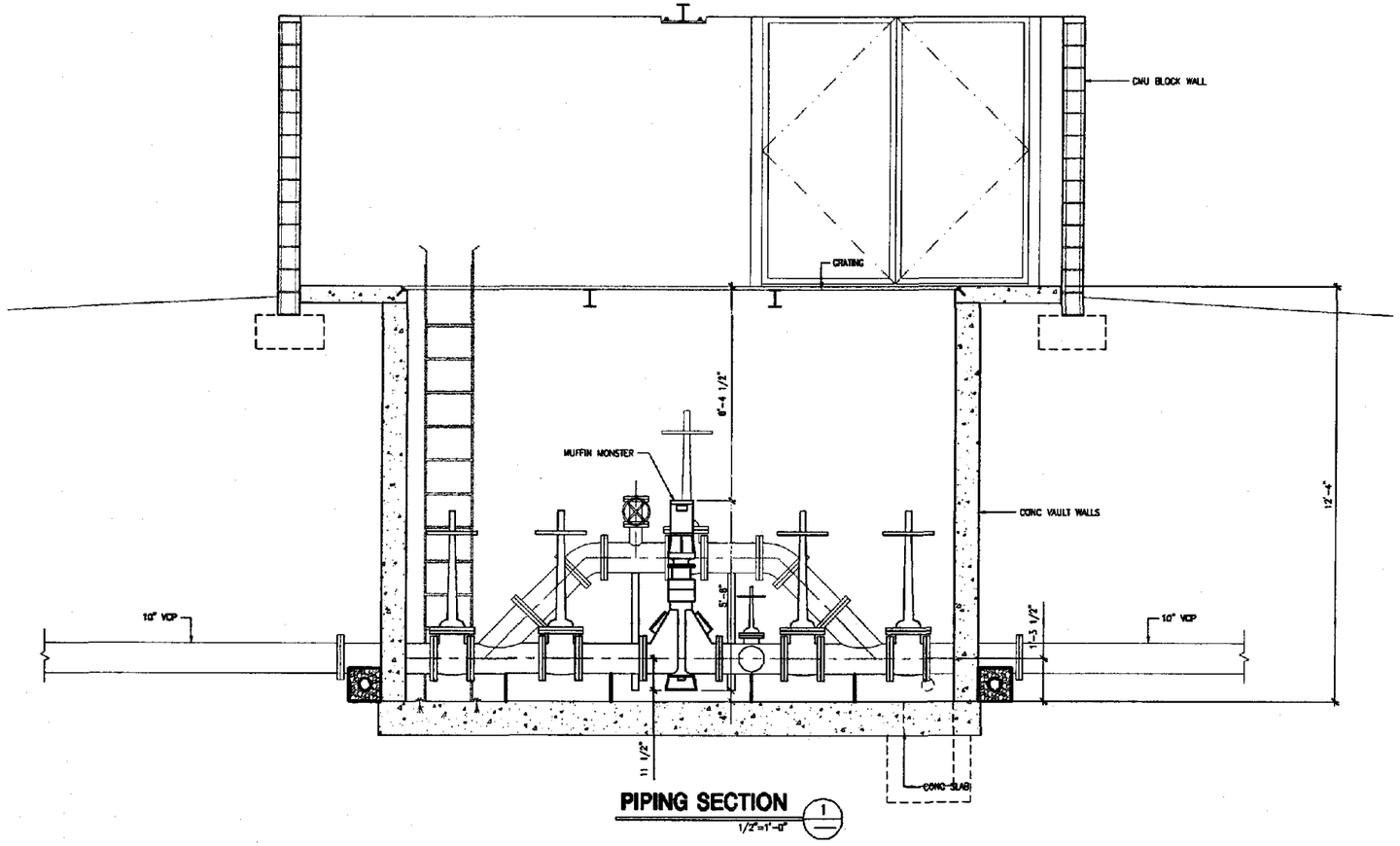


PIPING PLAN

1/2"=1'-0"



PIPING SECTION 1/1

1/2"=1'-0"

REVISIONS	DRAWN	CHKD	DATE

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PROJECT TITLE
SW JUSTICE CENTER
GRINDER ADDITION
30755-D AULD RD., STE 322
MURRIETA, CA 92562

SHEET TITLE
PIPING PLAN & SECTION

DATE	11/5/07
DRAWN	RC
CHECKED	
JOB NO.	7015
SCALE	AS SHOWN
DRAWING No.	07-114

PR-1

REV. 00

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