

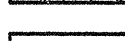
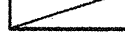
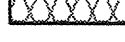
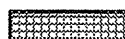
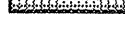
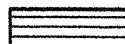
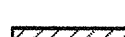
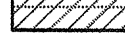
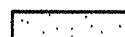
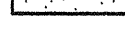
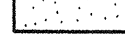
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MATERIAL DESIGNATIONS

<u>SECTION</u>		<u>ELEVATION</u>	
	EARTH		METAL (SMALL SCALE)
	POROUS FILL		WOOD - FINISH
	STRUCTURAL CONCRETE		WOOD - ROUGH (BLOCKING)
	CONCRETE		WOOD - ROUGH (CONTINUOUS)
	BRICK, MASONRY		WOOD - STRUCTURAL
	FIRE BRICK		INSULATION (LOOSE OR BATT)
	MARBLE		INSULATION (RIGID)
	ASPHALTIC CONCRETE		GLASS
	ROCK		ACOUSTIC TILE
	TERRAZZO		CERAMIC TILE
	METAL (LARGE SCALE)		GYPSUM WALL BOARD (LARGE SCALE)
			GYPSUM SHEATHING, SAND LEVELING BED
			RESILIENT FLOORING
			PLYWOOD
			PLASTER, SAND, CEMENT, GROUT
			PARTICLE BOARD
			CONCRETE, PLASTER, STUCCO
			MARBLE
			SHEET METAL
			FINISH WOOD
			SPANISH TILE ROOF

SHEET SCHEDULE



REQUIREMENTS FOR ALL SIGNS
NON-GLARE FINISH
CHARACTERS TO CONTRAST W/ BACKGROUND
REQUIREMENTS FOR PERMANENT ROOM SIGNS ONLY
CHARACTERS RANGED 1/32"
UPPER CASE GANG SERIF OR SIMPLE SERIF
TEXT ACCOMPANIED BY GRADE 2 BRAILLE
TEXT HEIGHT - 3/8" MIN AND 2" MAX
MOUNTED ON WALL ADJACENT TO LATCH SIDE OF DOOR AT +60° TO 0° OF SIGN

ADDRESS: 1940 E. GETTYSBURG AVE.
FRESNO, CA 93726-0244

OWNER: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT
1940 E. GETTYSBURG AVE.
FRESNO, CA 93726-0244

ATT: ROGER MC GOY
DIRECTOR OF ADMINISTRATIVE SERVICES
PH (559) 230-6020 FAX (559) 230-6063

AREAS: EXISTING BUILDING - 60,800 SF
REMODEL - 3,160 SF
NEW BUILDING - 3,380 SF

OCCUPANCY GROUP/BUILDING TYPE

EXISTING BUILDING - B/SN SPRINKLERED
REMODEL - B/OB SPRINKLERED
NEW BUILDING - S-2/SB SPRINKLERED

THE FOLLOWING NOTES ARE GENERAL IN NATURE; SEE ELSEWHERE FOR SPECIFICS.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE

2007 CBC (2006 IBC WITH CALIFORNIA AMENDMENTS)
2007 CFC (2006 IFC WITH CALIFORNIA AMENDMENTS)
2007 CUPC (2006 UPC WITH CALIFORNIA AMENDMENTS)
2007 CHG (2006 UMC WITH CALIFORNIA AMENDMENTS)
2007 CGS (2006 CGC WITH CALIFORNIA AMENDMENTS)
TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE (AS IT
APPLIES TO THE NON-RESIDENTIAL 2005 CALIF. ENERGY
CODE AND HANDICAP ACCESSIBILITY STANDARDS)
2. THE MAXIMUM FLAME SPREAD CLASSIFICATION OF FINISH
MATERIALS USED ON INTERIOR WALLS AND CEILING
SHALL NOT EXCEED III.
3. PER THE NATIONAL ELECTRIC CODE SECTION NO. 410-66,
INSULATION SHALL NOT BE INSTALLED WITHIN 3' OF
RECESSED LIGHT FIXTURE ENCLOSURE, WIRING
OR EQUIPMENT ENCLOSURE. IF THE LIGHT FIXTURE IS
SO INSTALLED ABOVE THE FIXTURE AS TO ENTRAP
HEAT AND PREVENT THE FREE CIRCULATION OF AIR.
4. DESIGN & INSTALL FIRE SPRINKLER SYSTEM AS REQUIRED
FOR FLOOR LAYOUT AND CEILING CONFIGURATION.
SUBMIT PLANS TO THE LOCAL FIRE PREVENTION BUREAU
PRIOR TO INSTALLATION. SEPARATE PERMIT
REQUIRED FOR FIRE SPRINKLER SYSTEM.
5. APPROVED CENTRAL STATION MONITORING OF THE SPRINKLER
SYSTEM IS REQUIRED - TO BE UL LISTED OR IF LOCAL
APPROVED BY THE LOCAL FIRE DEPARTMENT - OBTAIN A
PERMIT FROM THE FIRE PREVENTION BUREAU (OVER THE
COUNTER) FOR FIRE SPRINKLER ALARM SUPERVISION
6. THIS PERMIT DOES NOT INCLUDE ANY HIGH PILE STORAGE (PER
UFCI RACK STORAGE OVER 8 FEET HIGH, ANY SUCH
PROPOSED STORAGE MUST BE SUBMITTED FOR
REVIEW AND APPROVAL AND ISSUANCE OF PERMITS
7. ALL PERMANENT INTERIOR ROOM/DOOR IDENTIFICATION SIGNS
ARE N.I.C. THEY SHALL BE PROVIDED WITH BRAILLE - SEE A3.
8. INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH
CBC SECTION 803 AND TABLE 803.5 AS APPLICABLE FOR B
AND 5-2 OCCUPANCIES - IMMEDIATELY NOTIFY THE ARCHITECT
WHENEVER THERE IS A CONFLICT WITH THE CONSTRUCTION
DOCUMENTS.

1. INSULATION SHALL BE CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE FOLLOWING QUALITY STANDARDS FOR INSULATION MATERIAL.
2. INSULATION SHALL HAVE A FLAME SPREAD RATINGS NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450.
3. DOORS AND WINDOWS WHEN CONDITIONED AND UN-CONDITIONED SPACES SHALL BE WEATHERSTRIPPED.
4. MANUFACTURED DOORS AND WINDOWS SHALL HAVE AIR-LEAKAGE RATES CERTIFIED BY THE MANUFACTURER AS NOT EXCEEDING THE FOLLOWING AS TESTED IN ACCORDANCE CAEC 116 (a)
 - a. WINDOWS: 0.3 CFM/FT OF WINDOW AREA.
 - b. DOORS:
 - i. SINGLE: 0.3 CFM/SQ FT OF DOOR AREA
 - ii. DOUBLE: 1.0 CFM/SQ FT OF DOOR AREA
5. SITE-CONSTRUCTED DOORS AND WINDOWS, EXTERIOR JOINTS AND OPENINGS IN A BUILDING ENVELOPE THAT ARE OBSERVABLE FROM THE OUTSIDE LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED, EXCEPT FIRE-RATED DOORS AND UN-FRAMED GLASS DOORS,

THESE WINDOWS SHALL MEET THE FOLLOWING REQUIREMENTS OF CAEC TABLES 116-A (U-FACTOR) AND 116-B (SOLAR HEAT GAIN COEFFICIENT). NOT MEET SCHEDULE FOR WINDOW ELEMENTS.



**PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6626

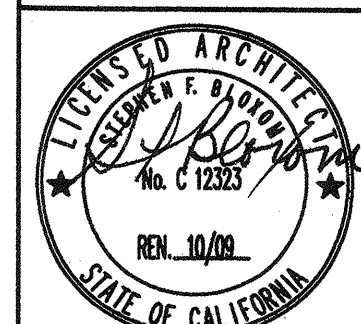
1	01/04/04	SITE WORK
2	01/14/04	NEW GATE
3	07/20/04	REMOVE WAREHOUSE

REVISIONS

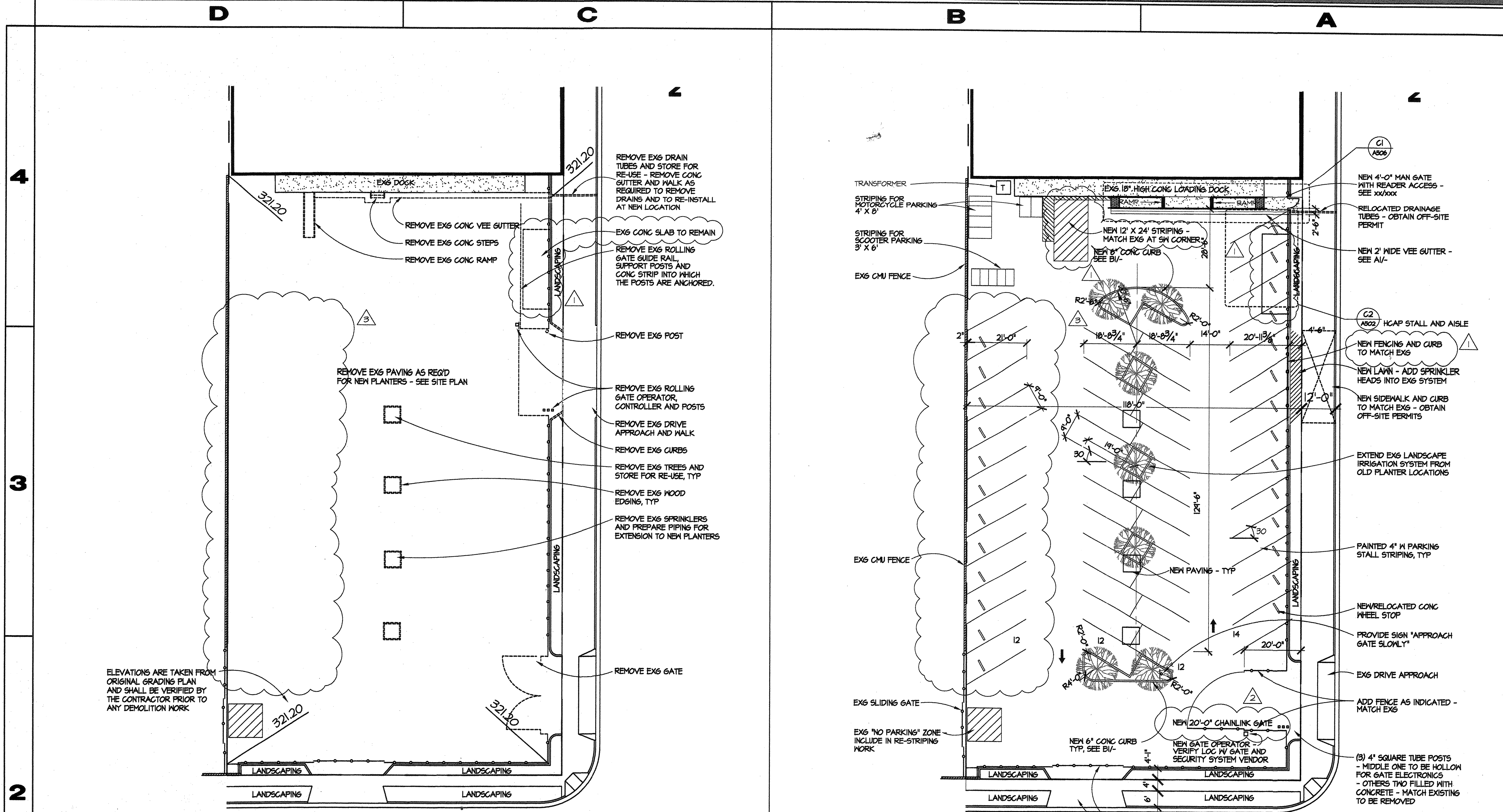
JOB NUMBER: 08107.00
DATE: 09/08/08

G-100

CON DOGS

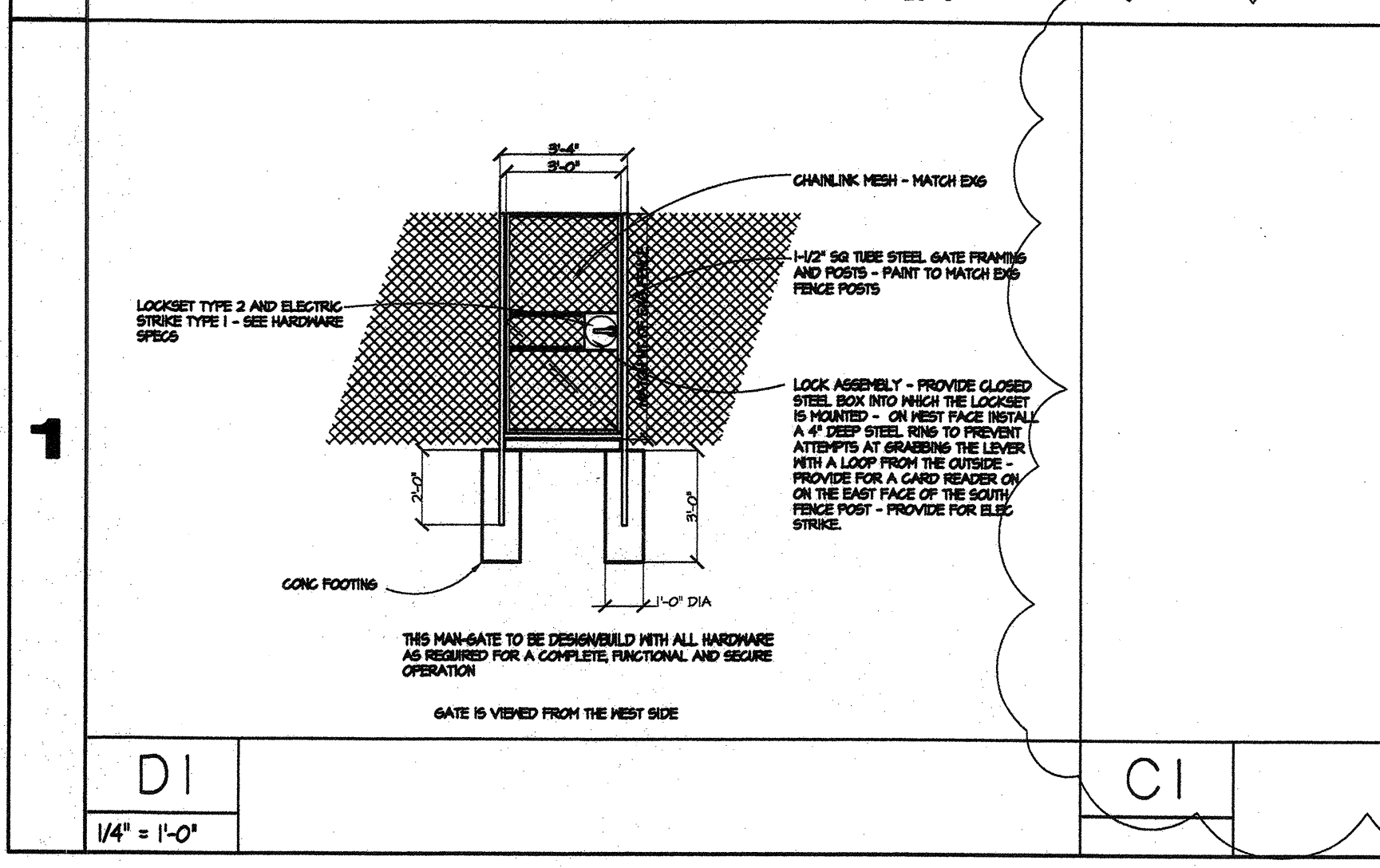


COVER SHEET



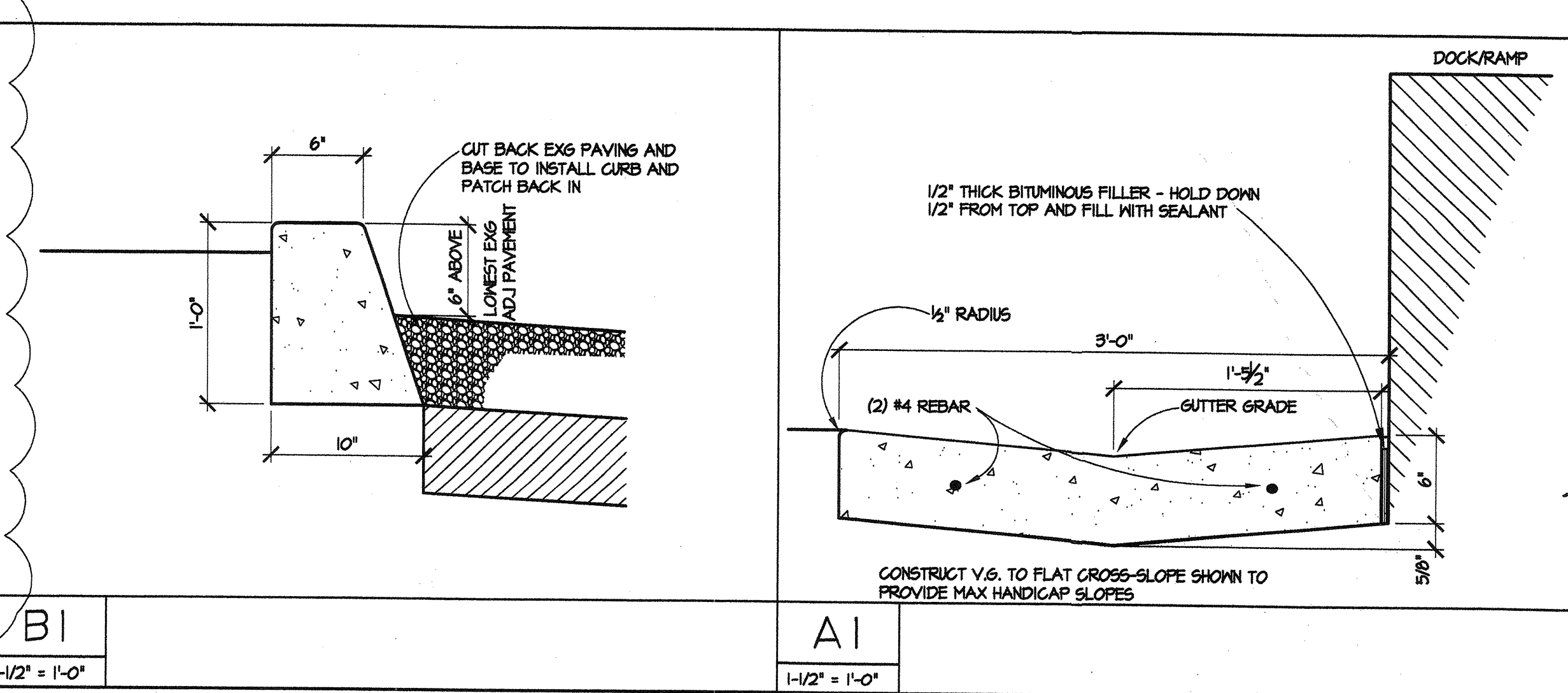
- ### GENERAL NOTES
1. REMOVE EXISTING CONC. CURB STOPS AND STORE FOR REUSE. (PROVIDE ADDITIONAL WHEEL STOPS AS NEEDED)
 2. RE-USE EXISTING REMOVED TREES AT THE NORTH AND SOUTH PLANTERS AND PROVIDE NEW TREES AT THE THREE MIDDLE PLANTERS - MATCH EXISTING IN 5 GALLON SIZE

DEMOLITION SITE PLAN
1" = 20'-0"

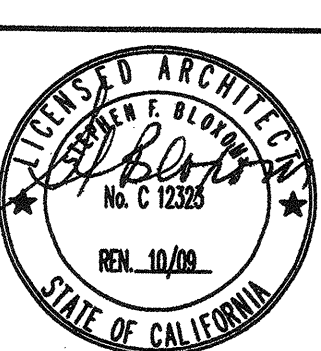


DI 1/4" = 1'-0"

SITE PLAN
1" = 20'-0"



BI 1/2" = 1'-0"

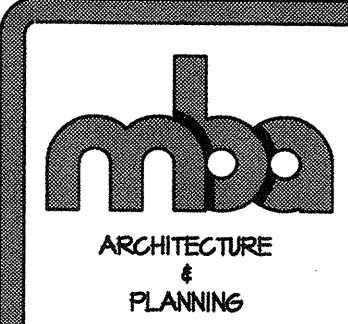


SITE PLAN
SCALE AS INDICATED

**PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

NO.	DATE	REVISIONS
01/04/01	01/04/01	NEW GATE
01/04/01	01/04/01	REMOVE WAREHOUSE

JOB NUMBER: 08101.00
DATE: 9/8/08
A-100
CON DOCS



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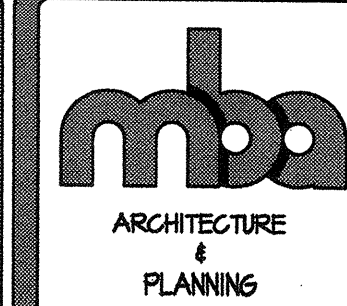
B

A

KEYNOTES

- ① HATCHING INDICATES EXISTING 1-HR. FR. CORRIDOR - ONLY THAT PORTION THAT PROVIDES THE TWO REQUIRED EXITS FOR THE AREA OF THE WORK IS HATCHED.
- ② PROVIDE APPROVED TACTILE "EXIT" SIGN AT 460" AAF.

PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA

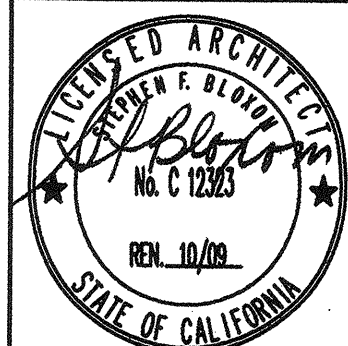


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REVISIONS

JOB NUMBER: 08101.00
DATE: 9/8/08

A-200
CON DOCS



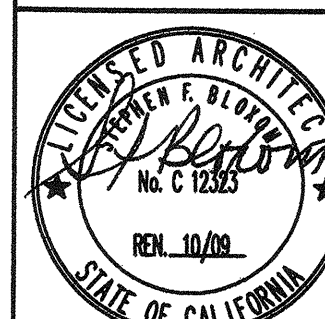
**TI OVERALL
FLOOR PLAN**
1/8" = 1'-0"

AREA OF INTERIOR WORK



KEYNOTES

- 1 HATCHING INDICATES EXISTING 1-HR FR CORRIDOR - SEE SHEET A-200 FOR CONTINUATION TO THE FIRST SECOND EXIT FROM THIS AREA
- 2 EXISTING CHAINLINK FENCE PARTITIONS TO BE REMOVED AND STORED FOR FUTURE USE OWNER. CONTRACTOR TO BURN OFF POST ANCHOR BOLTS TO FLUSH WITH TOP OF SLAB.
- 3 REMOVE EXISTING WALL FOR NEW DOOR
- 4 EXISTING COLUMN
- 5 REMOVE EXISTING OVERHEAD DOORS AND OPERATING MECHANISM
- 6 REMOVE EXISTING WALL FOR WINDOW
- 7 REMOVE EXISTING DOOR AND WALL FOR NEW DOOR



TI DEMOLITION PLAN
1/4"=1'-0"

PROPOSED REMODEL AND WAREHOUSE ADDITION SAN JOAQUIN VALLEY POLLUTION CONTROL DISTRICT FRESNO, CALIFORNIA

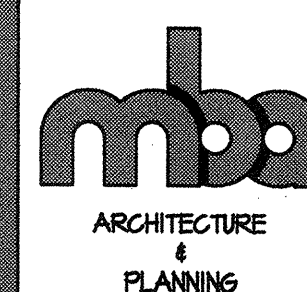
01/20/04 REMOVE WAREHOUSE

REVISIONS

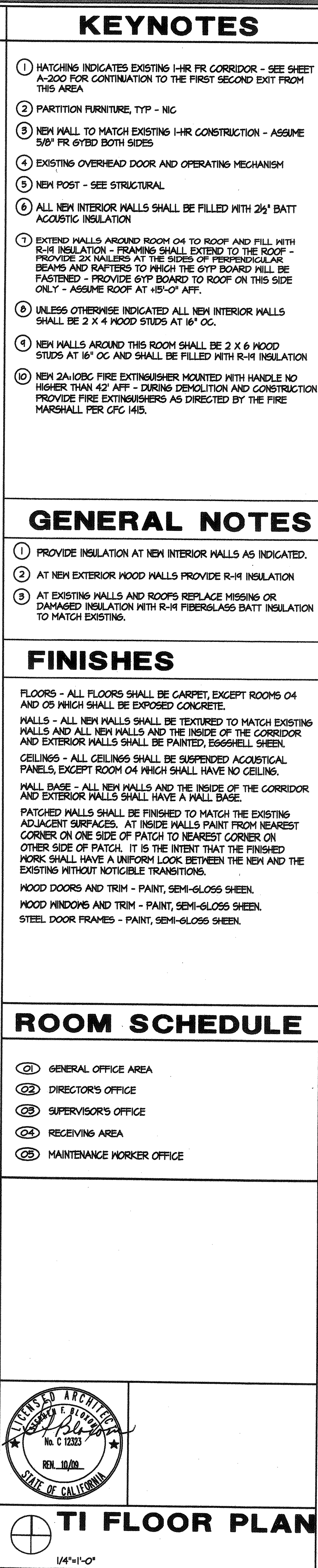
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DATE: 4/6/08

A-201

CON DOCS



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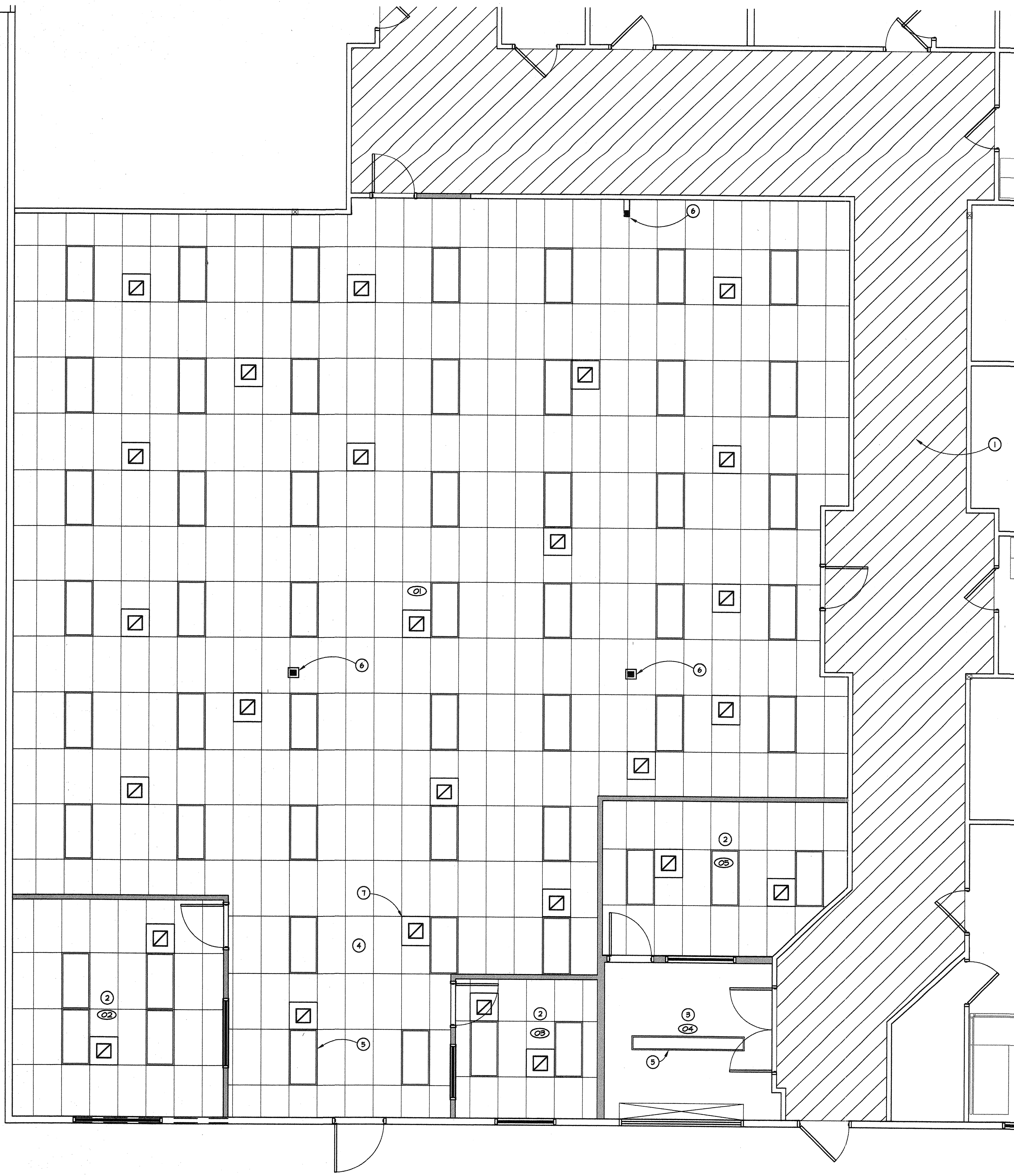
1

D

C

B

A

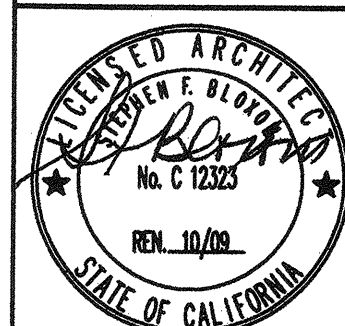


KEYNOTES

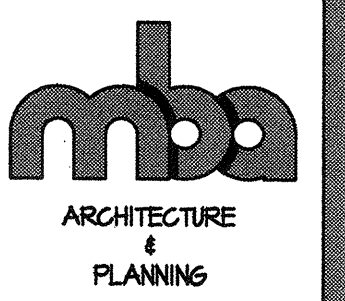
- 1 HATCHING INDICATES EXISTING 1-HR FR CORRIDOR - SEE SHEET A-200 FOR CONTINUATION TO THE FIRST SECOND EXIT FROM THIS AREA
- 2 FOR SOUND CONTROL PLACE R-11 UN-FACED BATT INSULATION ON TOP OF THIS CEILING - PROVIDE 6"X6" BOARD HATS OVER LIGHT FIXTURES AND INSTALL INSULATION ON TOP
- 3 ROOM 4 IS TO BE EXPOSED TO THE ROOF
- 4 TYPICAL SUSPENDED CEILING, PLACE AT 10'-0" LOWEST EXISTING OBSTACLE ABOVE CEILING IS AT 11'-0" V. COORDINATE ALL WORK ABOVE CEILING TO THE GREATEST EXTENT POSSIBLE SO THAT THE CEILING HEIGHT IS NOT COMPROMISED.
- 5 LIGHT FIXTURE - SEE ELECTRICAL
- 6 COLUMN
- 7 HVAC REGISTER - SEE MECHANICAL

ROOM SCHEDULE

- 01 GENERAL OFFICE AREA
- 02 DIRECTOR'S OFFICE
- 03 SUPERVISOR'S OFFICE
- 04 RECEIVING AREA
- 05 MAINTENANCE WORKER OFFICE



TI REFLECTED CEILING PLAN
1/4"=1'-0"



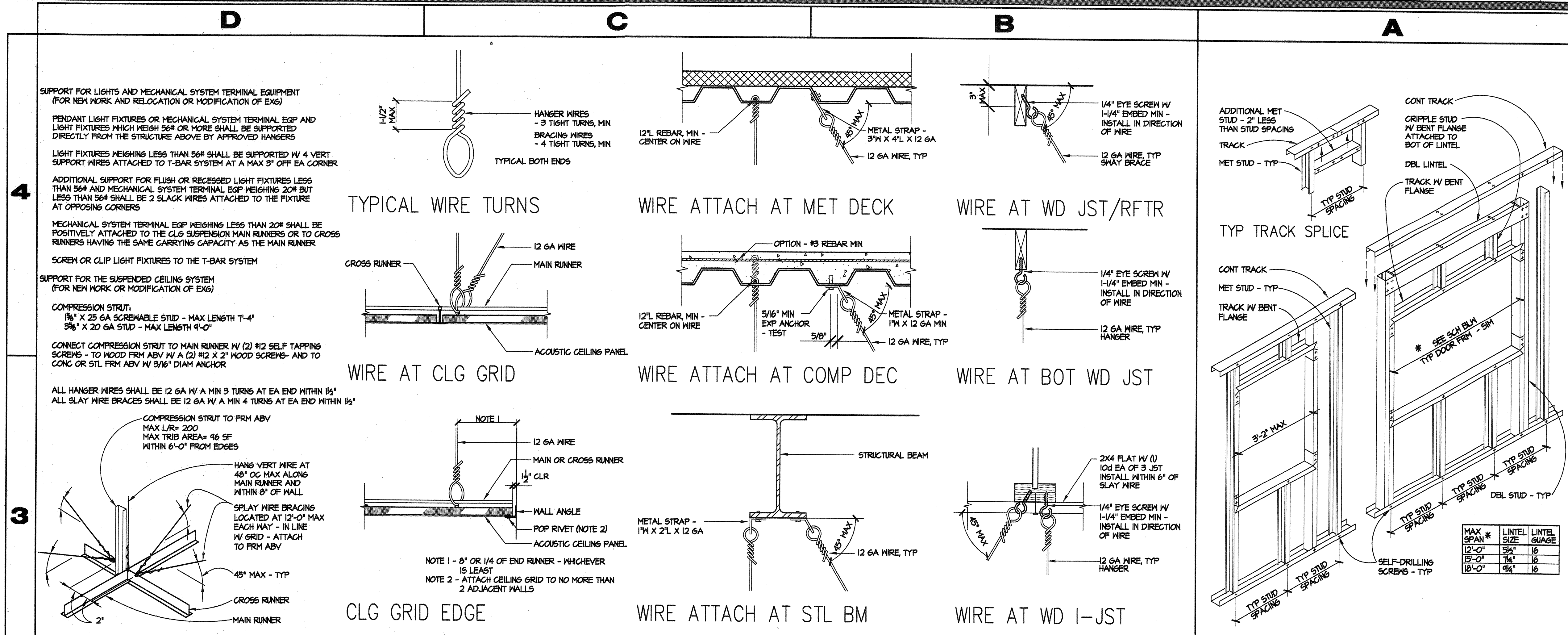
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**PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

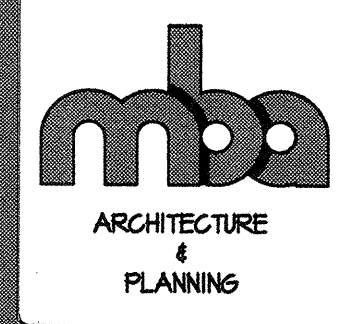
NO.	REVISIONS

JOB NUMBER: 08107.00
DATE: 9/9/08

A-203
CON DOCS



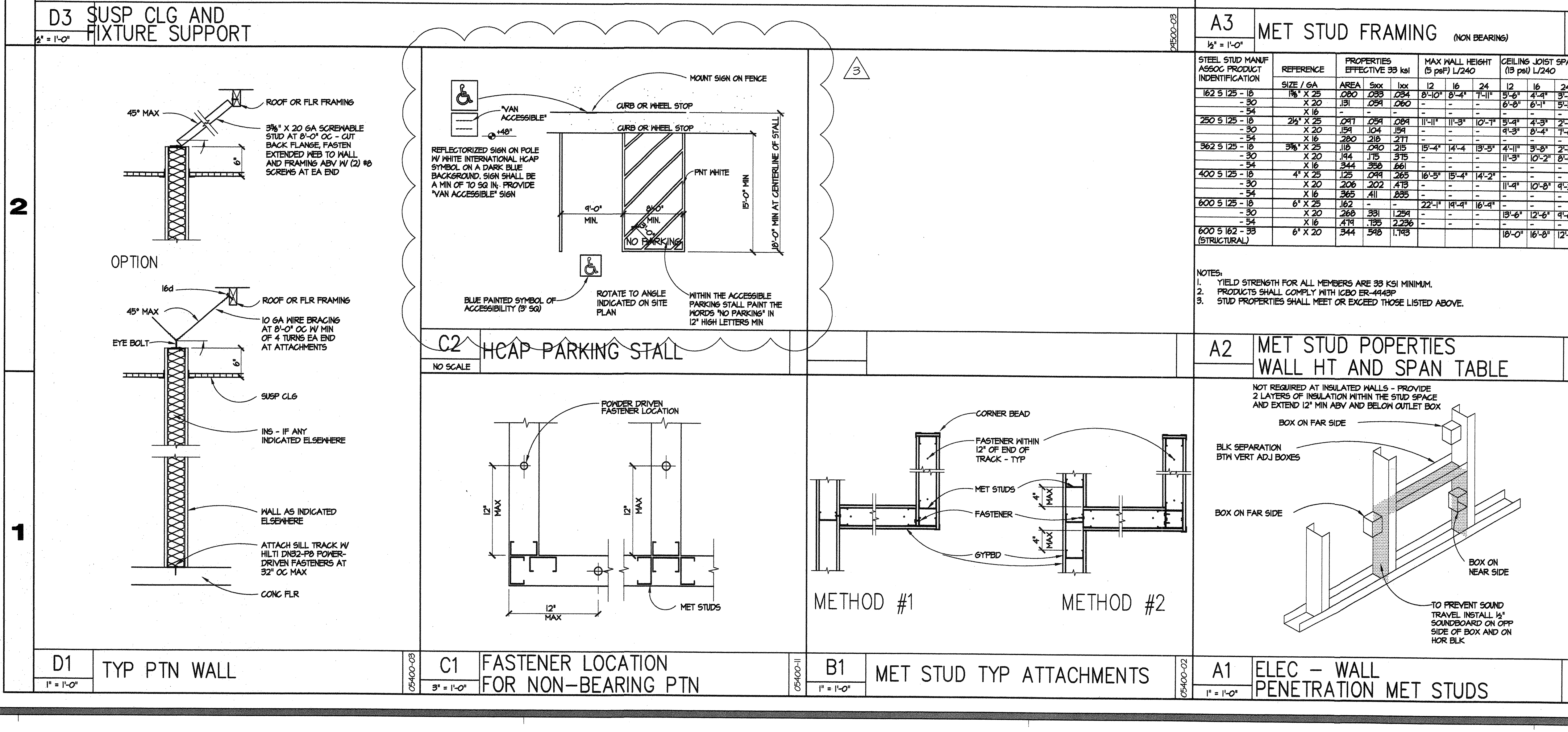
KEYNOTES



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**PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658



GENERAL NOTES

DETAILS

REVISIONS
1. 07/20/04 REMOVE WAREHOUSE

JOB NUMBER: 08107.00
DATE: 9/9/08

A-502
CON DOCS

4

3

2

1

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C

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A

KEYNOTES

- 1 GYPBD
- 2 SNT
- 3 PRE-FINISHED SHEET METAL FLASHING
- 4 EXT PLASTER
- 5 STOREFRONT WINDOW
- 6 SHIM
- 7 J-MOLD
- 8 EXG WD POST
- 9 FRAMING AROUND COLUMN - SEE STRUCT
- 10 WOOD CASING TO MATCH EXG - SEE C2/- FOR EXISTING
- 11 IX WOOD TRIM
- 12 IX2 WOOD STOPS
- 13 NEW WD STUD AGAINST EXG WALL - ATTACH TO TOP AND BOTTOM PLATES - ATTACH TO EXG STUD OR NEW STUD.
- 14 STOREFRONT DOOR

D4

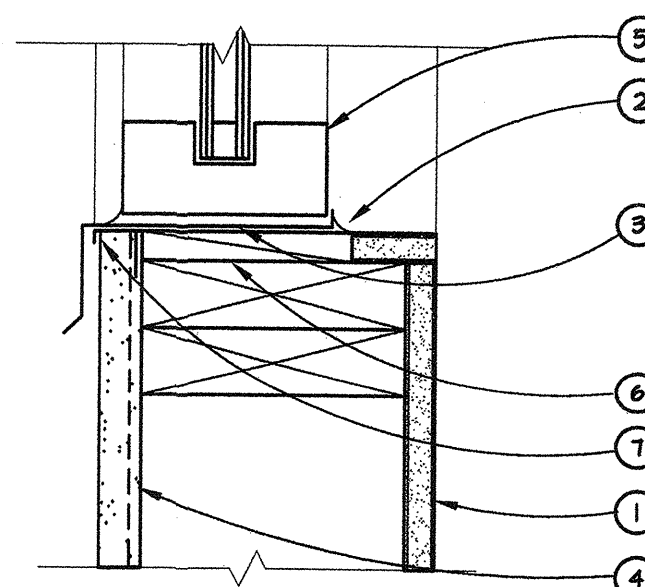
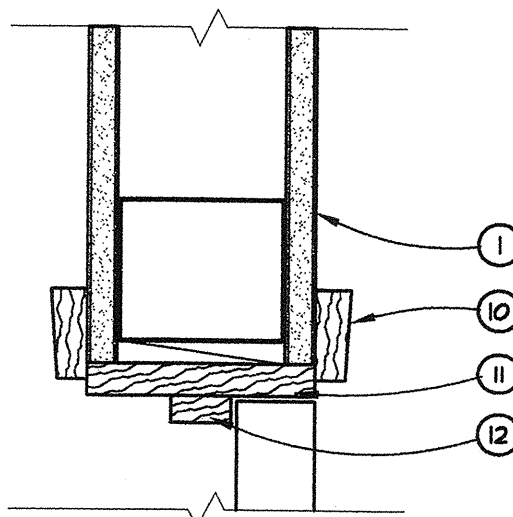
C4

B4

INT DOOR JAMB (HEAD SIM)

A4

EXT WINDOW SILL



D3

C3

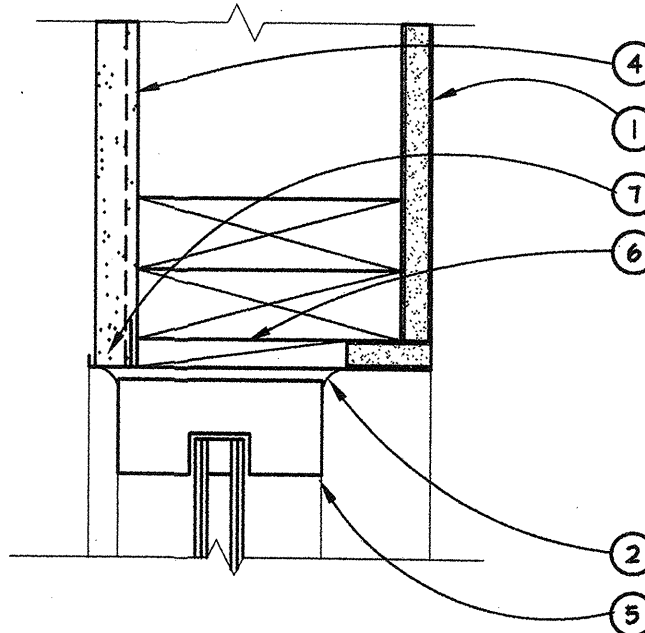
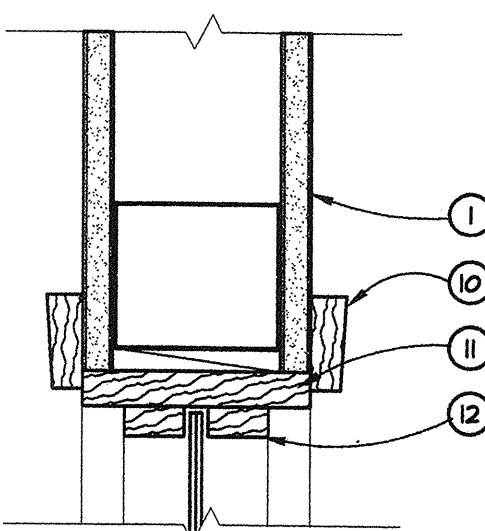
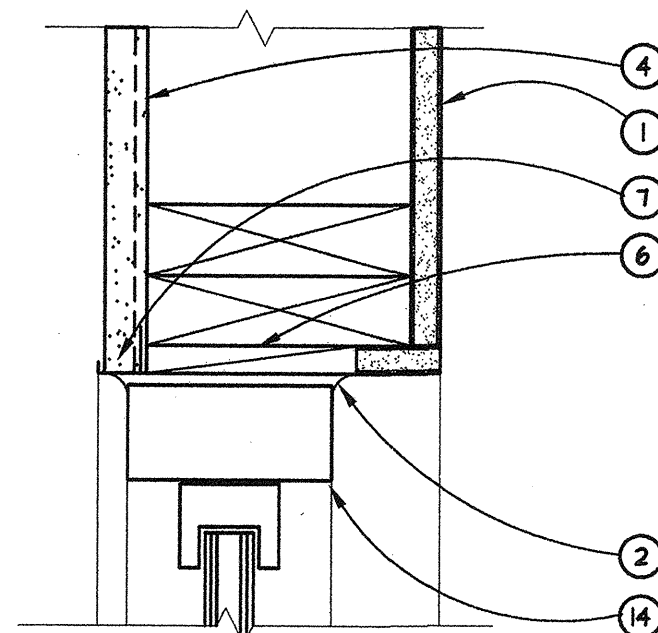
EXT DOOR JAMB (HEAD SIM)

B3

INT WINDOW JAMB (HEAD SIM)

A3

EXT WINDOW JAMB (HEAD SIM)



D3

C3

EXT DOOR JAMB (HEAD SIM)

B3

INT WINDOW JAMB (HEAD SIM)

A3

EXT WINDOW JAMB (HEAD SIM)

D2

C2

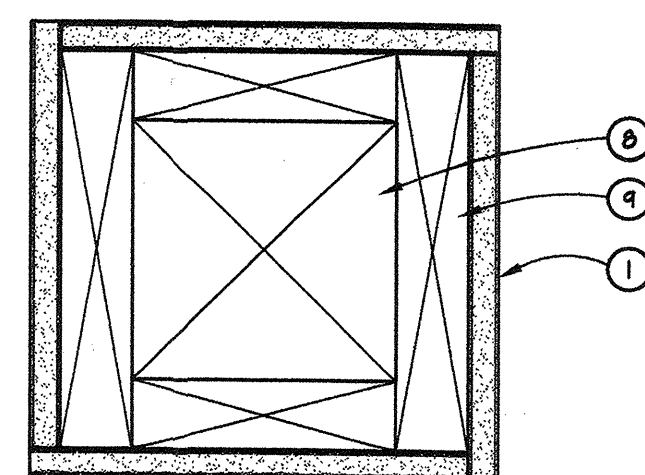
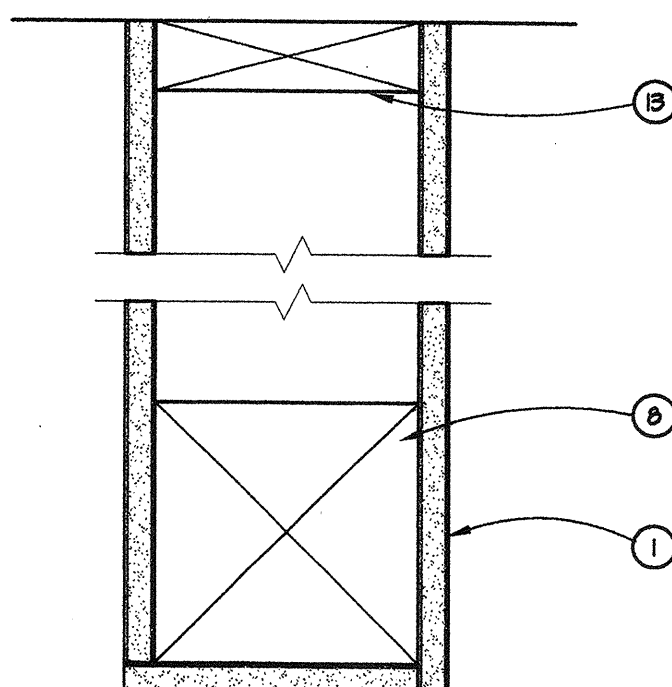
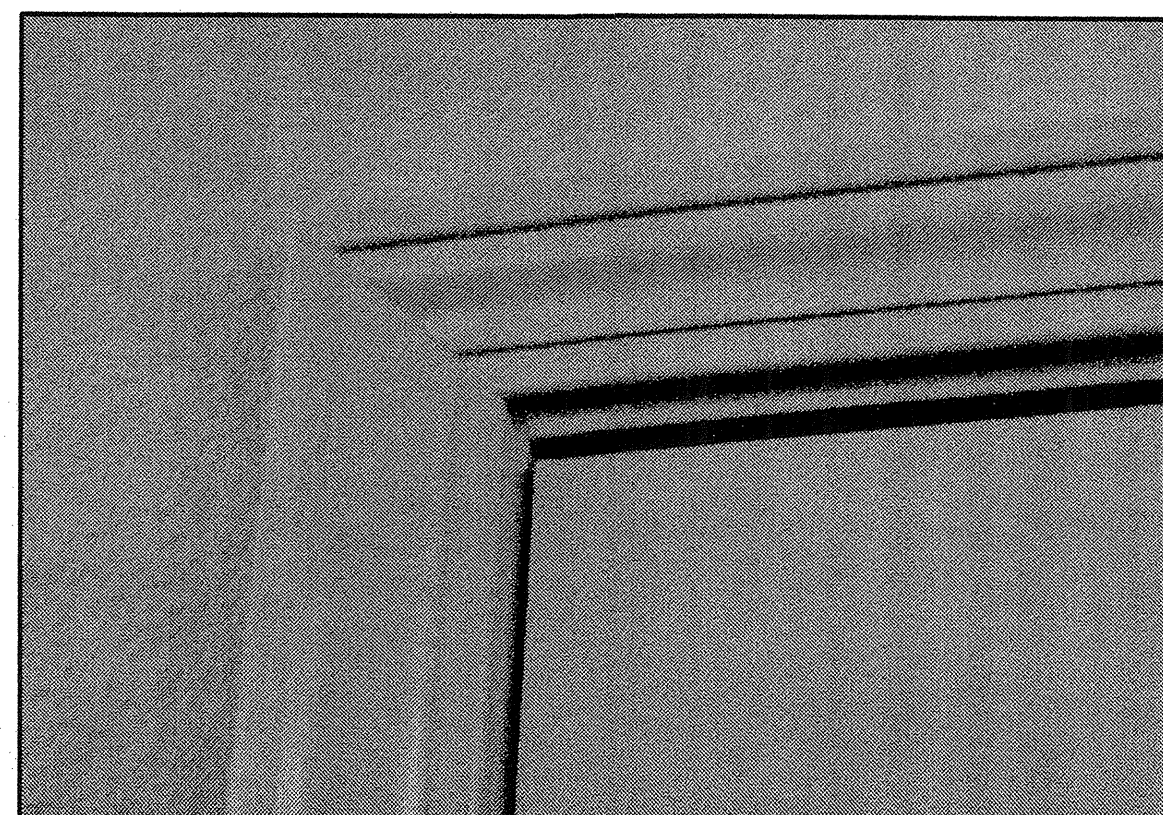
EXISTING DOOR/WINDOW TRIM

B2

POST WRAP

A2

POST WRAP



D2

C2

EXISTING DOOR/WINDOW TRIM

B2

POST WRAP

A2

POST WRAP

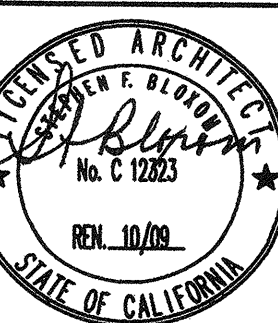
D1

C1

B1

A1

GENERAL NOTES



DETAILS

SCALE AS INDICATED

PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA

JOB NUMBER: 08107.00
DATE: 4/8/08

A-504
CON DOCS



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4

D4

C4

B4

A4

3

D3

C3

B3

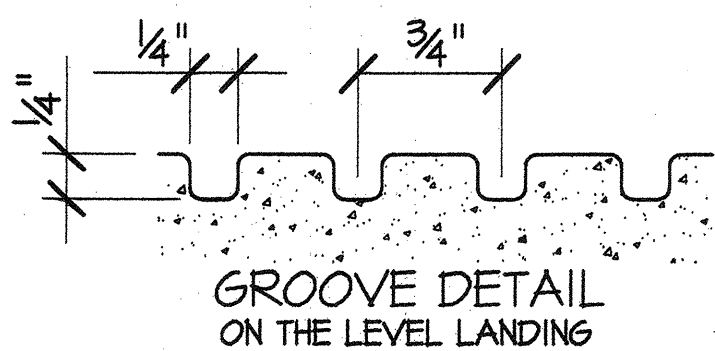
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2

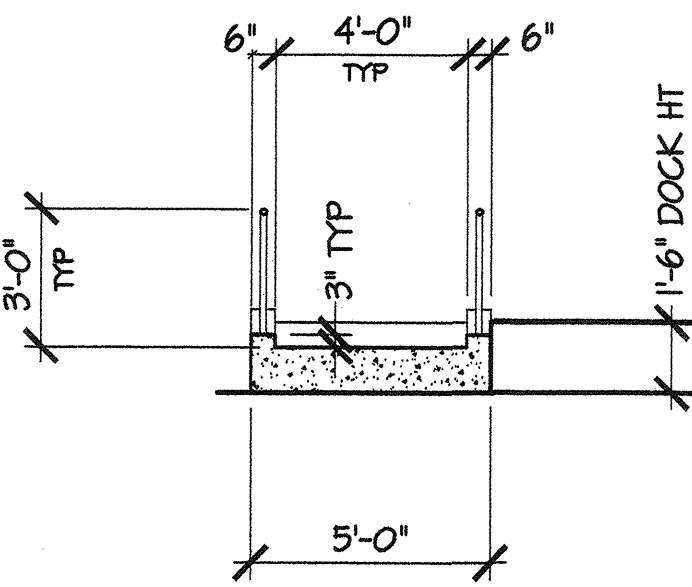
D2

BOLLARD

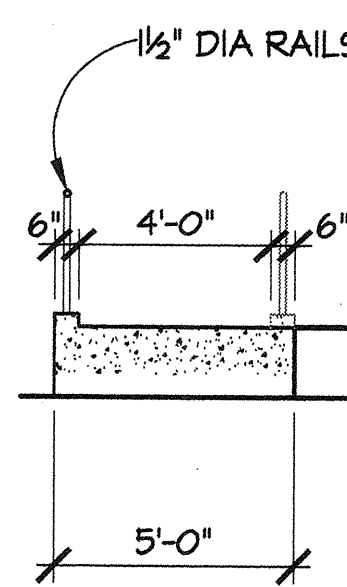
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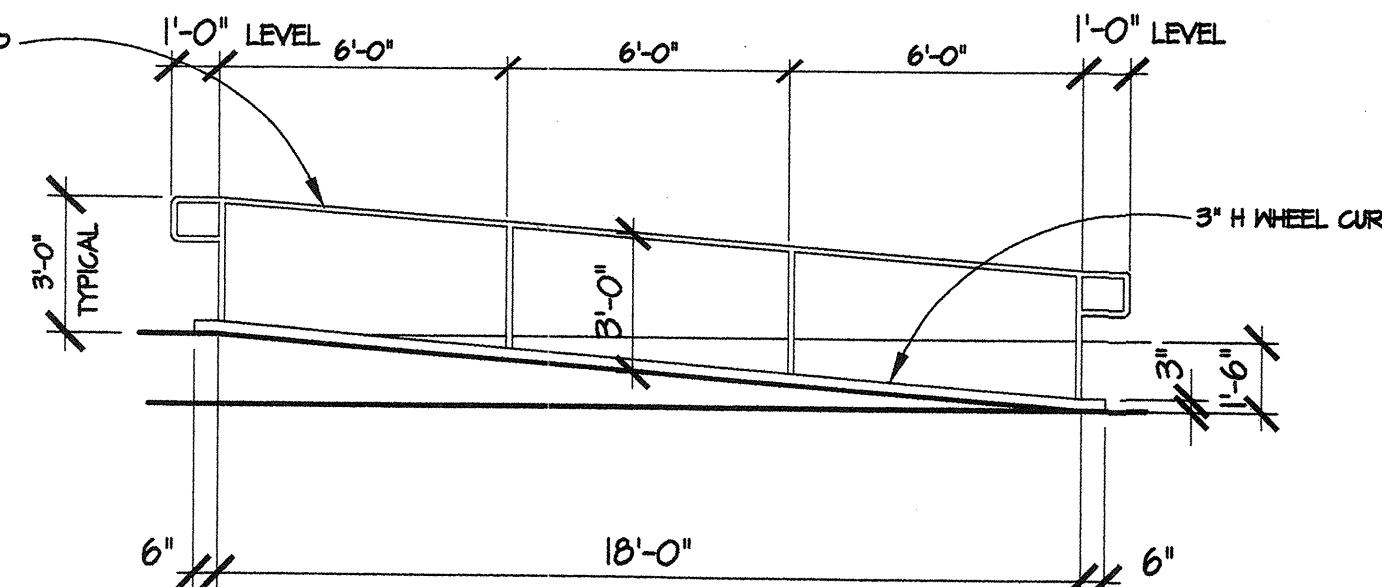
GROOVE DETAIL
ON THE LEVEL LANDING



SECTION A



SECTION B



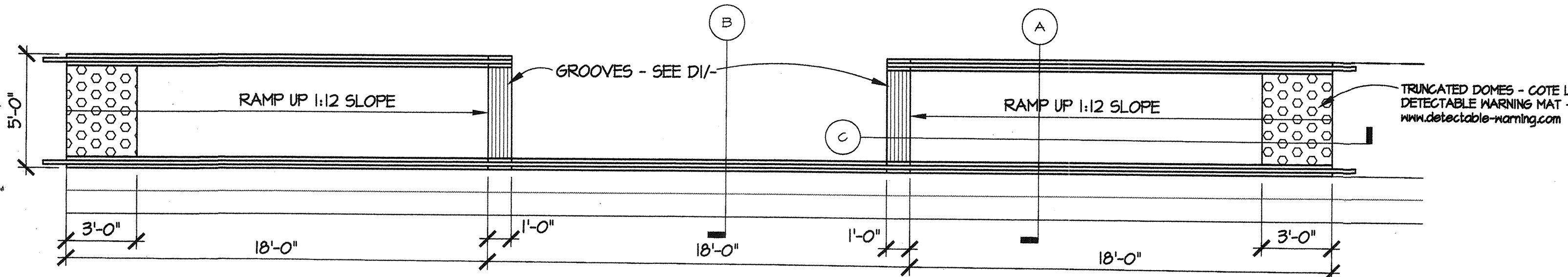
SECTION C

D1

12" WIDE GROOVED BORDER

C1

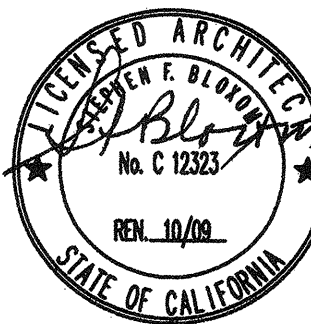
RAMPS



PLAN

KEYNOTES

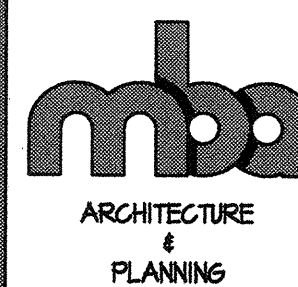
GENERAL NOTES



DETAILS
SCALE AS INDICATED

PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA

JOB NUMBER: 08/01.00
DATE: 1/8/08
A-506
CON DOCS



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4

3

2

1

03	
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REMARKS

1. APPROX WINDOW SIZE IS AS INDICATED - MATCH EXISTING
2. GLASS TYPE 'C'

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OUTSIDE LK BEL
ARMOR PLATE
ASTRAGAL
AUTO DR HOLDER
AUTO DOOR BOT
CLOSER
COORDINATOR
CYLINDER
CYLINDER GUARD
DEADLOCK
DR BOTTOM
DR EDGINS
ELECTRIC STRIKE
FLOOR CLOSER
FLOOR STOP
FLUSH BOLT
HEADER BOLT
KICK PLATE
LATCHSET
LOCK SET
MAG HOLDOPEN
OH DR HOLDER
OVERHEAD STOP
EXIT DEVICE
PIVOT
RIGHTRAIL
SURF BOLT - BOT
SURF BOLT - TOP
THRESHOLD
WEATHERSTRIP'S
WALL BUMPER

1. NO THUMB LATCHES OR KEYPED CYLINDER DEAD BOLTS ALLOWED ON ANY DOORS UNLESS OPERATED BY A SINGLE ACTION WITH A LEVER FROM THE INSIDE OF THE AREA SERVED.
2. ALL GLASS IN HAZARDOUS LOCATIONS, 18" OFF THE FLOOR OR WITHIN 24" FROM DOOR JAMB OF THE ACTIVE LEAF OR THE DOOR OR SUBJECT TO HUMAN IMPACT SHALL BE SAFETY GLASS
3. ALL EXITS TO BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. PROVIDE SELF-RELEASING LOCKING DEVICES ON EXIT DOORS
4. MANUALLY-OPERATED EDGE OR SURFACE-MOUNTED FLUSH BOLTS AND SURFACE BOLTS OR ANY TYPE OF DEVICE MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN THE OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED AND ARE PROHIBITED.
5. PROVIDE MIN 10" HIGH SOLID PANEL BOTTOM OF ALL DOORS.
6. ALL HARDWARE TO MEET FUNCTION SPECIFICATION AND TITLE 24 HANDICAP REQUIREMENTS.
7. ALL DOOR HARDWARE FOR RATED ASSEMBLIES SHALL HAVE AN APPROVED LISTING NUMBER IN ACCORDANCE WITH THE REQUIRED RATING.

The image displays a variety of door styles and their components, organized into three rows. Each drawing includes dimensions and labels for hardware.

Top Row:

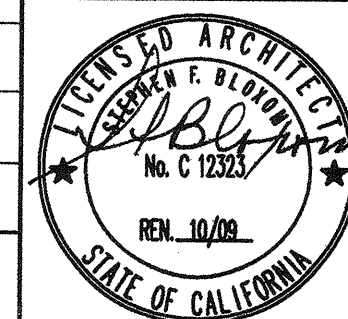
- ALUMINUM AND GLASS ALGL:** A solid door with a small rectangular glass insert.
- FLUSH W/ HALF GLAZED PANEL FLHG:** A door with a large rectangular glass panel. Dimensions include 36" for the panel height and 48" for the door height. Hardware labels include Hinges (H), Lock (L), and Handle (H).
- FLUSH W/ VISION PANEL FLVP:** A door with a vertical glass panel. Dimensions include 36" for the panel height and 48" for the door height. Hardware labels include Hinges (H), Lock (L), and Handle (H). A label "TYPE D GLASS" points to the glass panel.
- FLUSH FL:** A solid door.

Middle Row:

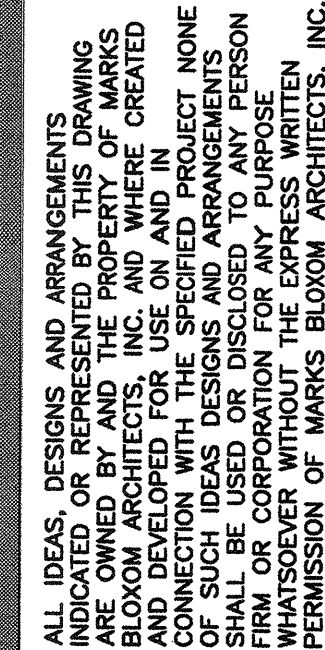
- LOUVER:** A door with horizontal louvers. Hardware labels include Hinges (H), Lock (L), and Handle (H).
- FLUSH LOUVER:** A door with horizontal louvers. Hardware labels include Hinges (H), Lock (L), and Handle (H).
- SLIDING GLASS:** A door with two glass panels. Hardware labels include Hinges (H), Lock (L), and Handle (H).

Bottom Row:

- CASED OPENING CO:** A door with a small rectangular glass insert.
- ROLL-UP:** A door with horizontal louvers.
- BI-FOLDING:** A door with two glass panels. Hardware labels include Hinges (H), Lock (L), and Handle (H).



DOOR/WINDOW SCHEDULES



**PROPOSED REMODEL AND WAREHOUSE ADDITION
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

[illegible]

JOB NUMBER:08107.00
DATE: 9/8/08

A-601
CON DOCS

MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658

COMMON ABBREVIATIONS

A.B.	ANCHOR BOLT	E.N.	EDGE NAILING	PL.	PLATE
ADJ.	ADJUSTABLE	ELEV.	ELEVATION	PLYWD.	PLYWOOD
ABV.	ABOVE	ENGR.	ENGINEER	P.S.F.	POUNDS PER
A.C.I.	AMERICAN CONCRETE INSTITUTE	E.Q.	EQUAL EQUIPMENT	P.S.I.	POUNDS PER
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXP.	EXPANSION	PRESS.	PRESSURE
A.S.T.M.	AMERICAN SOCIETY FOR TESTING & MATERIALS	F.N.	FINISH NAILING	R.	RADIUS
ARCH.	ARCHITECT (URAL)	FLR.	FLOOR	REINF.	REINFORCING
BM.	BEAM	FTG.	FOOTING	REQD.	REQUIRED
BD.	BOARD	FDN.	FOUNDATION	RM.	ROOM
BLK.	BLOCK	FRMG.	FRAMING	SCHED.	SCHEDULE
BLKG.	BLOCKING	GA.	GAUGE	SHTG.	SHEATHING
BOT.	BOTTOM	GALV.	GALVANIZED	SHT.	SHEET
BLDG.	BUILDING	G.L.B.	GLUE LAM BEAM	SH.	SIMILAR
CLR.	CEILING	GRD.	GRADE	SPEC.	SPECIFICATION
CLR.	CLEAR	H.D.	HOLDOWN	STAGGR.	STAGGER
COL.	COLUMN	HGR.	HANGER	STD.	STANDARD
C.M.U.	CONCRETE MASONRY UNIT	HDR.	HEADER	STL.	STEEL
C.J.	CONSTRUCTION JOINT	HT.	HEIGHT	STIFF.	STIFFENER
CONC.	CONCRETE	HORIZ.	HORIZONTAL	STRUCT.	STRUCTURAL
CONN.	CONNECTION	IN.	INCH	SY.	SYMMETRICAL
CONSTR.	CONSTRUCTION	I.D.	INSIDE DIAMETER	THK.	THICK
CONT.	CONTINUOUS	INT.	INTERIOR	U.B.C.	UNIFORM BUILDING CODE
DEMO.	DEMOLISH	JST.	JOIST	U.N.O.	UNLESS NOTED OTHERWISE
DET.	DETAIL	LAM.	LAMINATED	VERT.	VERTICAL
DIAG.	DIAGONAL	LT. WT.	LIGHT WEIGHT	WT.	WEIGHT
DIA. (Ø)	DIAMETER	M.B.	MACHINE BOLT	W.W.F.	WELDED WIRE FABRIC
DIM.	DIMENSION	M.A.	MASONRY	W.W.M.	WELDED WIRE MESH
DBL.	DOUBLE	MAX.	MAXIMUM	W.	WIDE FLANGE
DWG.	DRAWING	MTL.	METAL	WITH	WITH
EA.	EACH	MIN.	MINIMUM		
		N.O.	NOT TO SCALE		
		NO. OF #	NUMBER		
		O.C.	ON CENTER		
		OPNG.	OPENING		
		OPP.	OPPOSITE		
		O.D.	OUTSIDE DIA.		

Division 4.0 - Masonry

- 4.0.1 Design F'm = 1500 psi for this project. F'm shall be verified in accordance with Section 2105.2 of the 2007 California Building Code using either the unit strength method or prism test method as required.
- 4.0.2 Concrete masonry units shall conform to ASTM C-90 Type I units. Net Area Compressive strength of units shall be 1900 psi as tested in accordance with ASTM C 140.
- 4.0.3 Mortar shall be Type S and be proportioned in accordance with ASTM C 270 to attain a 28 day compressive strength of 1800 psi as tested using two-inch cubes in accordance with ASTM C 109.
- 4.0.4 Grout shall be proportioned to attain a 28-day compressive strength of 2000 psi as tested in accordance with ASTM C 1019. Use a minimum of 1 part Portland cement to 3 parts sand. Add 1 pound of Sikagrout Aids Type II, or equal per 100 lbs. of cementitious material. One to two parts of pea gravel shall be used where the least clear dimension exceeds 2 inches. Not more than 5% of the pea gravel shall pass the No. 8 sieve and 100% shall pass the 3/8 inch sieve.
- 4.0.5 Reinforcing steel shall conform to ASTM A-615, Grade 60.
- 4.0.6 Lap all bars 48-bar diameters minimum unless noted otherwise.
- 4.0.7 Minimum reinforcement clearance to face shall be one bar diameter or 1/4 inch, whichever is greater.
- 4.0.8 Before block is placed on concrete, thoroughly clean concrete of all lumps and loose material. Roughen as in a concrete construction joint.
- 4.0.9 Concrete block masonry shall be built to preserve unobstructed vertical continuity of cells. All head and end joints shall be solidly filled with mortar for a distance from the face of the wall (or unit) inward not less than the thickness of the face shell. Bond shall be provided by lapping successive courses or by equivalent mechanical anchorage.
- 4.0.10 Both low-lift and/or high-lift grouted construction shall conform to CBC Section 2104A.6.1. Cleanout openings shall be provided at the bottom of all reinforced cells where grout lift exceeds 4'-0". Any overhanging mortar or other obstruction or debris shall be removed from the inside of such cells. The cleanouts shall be sealed after inspection and before grouting. Mechanically vibrate all grout pours.
- 4.0.11 Vertical reinforcing shall be held in position at top and bottom and at intervals not exceeding 192-bar diameters.
- 4.0.12 All cells shall be filled solidly with grout. All grouting shall be done under the continuous observation of a qualified inspector as indicated on plans.
- 4.0.13 When grouting is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the pour of grout 1/4 inch below the top of the uppermost unit.
- 4.0.14 Every vertical bar in walls shall lap 48-bar diameters with a dowel of the same size and spacing extending from the foundation. Locals vertical reinforcing at centerline of wall unless shown or noted otherwise. Carry each dowel to within 3-inches of the bottom of the foundation and terminate with a standard hook. Alternate orientation of dowels. Dowels shall be straight and plumb.
- 4.0.15 Place all horizontal bars in bond beam units. When two bars are used, stagger lugs a minimum of 5'-0".
- 4.0.16 Provide (2) #5 bars with matching footing dowels (full-height of the wall at jamb and extending a minimum of 2'-0" past edges of openings at head and sill) each side of all openings and each end of all walls, unless noted otherwise on plans.
- 4.0.17 All embedded items (bolts, straps, etc.) shall be secured in place prior to grouting. Cut a hole in the face shell to attain a minimum of one-inch grout around all embedded items.
- 4.0.18 All bolts in masonry shall be ASTM A307 headed (or bent) anchor bolts.
- 4.0.19 Use open-end block for all stock bond construction.

Division 5.0 - Structural Steel

- 5.0.1 All structural steel fabrication and erection shall conform to the AISC "Load Factor and Resistance Design Specification for Structural Steel Buildings", dated, December 1993.
- 5.0.2 Structural steel shall conform to ASTM specifications as follows:
- | Member | Specification |
|------------------------------|-----------------------|
| Hollow Structural Section | ASTM A500, Grade B |
| Wide Flange Shape | ASTM A992 |
| Angles, Plates and Bars | ASTM A36 |
| Threaded Rods & Anchor Bolts | ASTM A36 F1554 Gr. 36 |
- 5.0.3 All bolts shall be high-strength bolts conforming to ASTM A325 and to the AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts", dated, June 30, 2004. Nuts for high-strength bolts shall be grade C, Heavy Hex nuts conforming to ASTM A563.
- 5.0.4 Bolts shall be tensioned as required for slip-critical joints.
- 5.0.5 All bolt holes in steel shall be 1/16 inch larger than the nominal bolt diameter, unless noted otherwise. Holes for anchor bolts in column base plates may be standard oversize holes, as defined by AISC.
- 5.0.6 Welding shall conform to the latest edition of AWS D1.1. Minimum electrode tensile strength and toughness shall be per specifications. Welding shall be performed by Welders certified for the specific procedures to be performed.
- 5.0.7 All steel not embedded in concrete, either specified to receive sprayed-on cementitious fireproofing or as indicated in specifications, shall be primed prior to painting, with a minimum 2-mil dry-film thickness. Primer shall conform to SSPC Paint 25 and California VOC regulations. Steel shall be cleaned of rust and loose mill scale prior to priming, in accordance with primer Manufacturers' recommendations and applicable SSPC specifications.
- 5.0.8 All exposed steel members and connectors shall be painted with a finish coat of paint, as indicated in project specifications. Level and plumb individual members of structure within specified AISC tolerances.

Division 6.0 - WOOD FRAMING

- 6.0.1 Unless specifically shown otherwise, bolts where called for on the drawings shall be machine made A307 type.
- 6.0.2 All bolts and lag screws shall be provided with standard steel washers under both the head and end nut which bear on wood.
- 6.0.3 Bolts and screws shall be tightened at time of erection and re-tightened before closing in or at completion of job.
- 6.0.4 Sill plates of interior walls that are covered with structural plywood (shear panel) and exterior walls, shall be foundation grade redwood or pressure treated Douglas-Fir of same width and thickness as studs. All pressure treated Douglas-Fir shall bear the AWPS quality mark and all cuts or holes shall be re-treated prior to installation.
- 6.0.5 No sill plate piece shall end within the length of shear panel unless specifically shown and detailed on the plans.
- 6.0.6 Bearing walls and partitions shall have double top plates, provide metal framing anchor at each side of top plate at intersecting wall partitions.
- 6.0.7 PLYWOOD NOTES:
- In horizontal plywood diaphragms, no panel less than 24" wide shall be used. In vertical plywood diaphragms, no panel less than 16" wide shall be used.
 - Any piece of plywood spanning across fewer than 3 supports shall be blocked at all panel edges.
 - Shear wall plywood shall be blocked at all panel edges.
- 6.0.8 Anchor and/or sill bolts with upset threads are not permitted.
- 6.0.9 Bolt holes in wood shall be oversized by not more than 1/32". Standard washers shall be used under all heads and nuts bearing on wood unless otherwise shown.
- 6.0.10 All bolts in wood shall be spaced four diameters minimum edge distance and seven diameters minimum end distance, unless otherwise noted.
- 6.0.11 Predrill holes where wood tends to split.
- 6.0.12 All structural wood shall conform with the following specifications:
- | Species | Specification |
|----------------------------|--|
| Douglas Fir - Coast Region | West coast lumber inspection bureau grading rules #17. |
| Structural Plywood | U.S. product standard PS1-95 for softwood plywood. |

Minimum Grades shall be as follows U.N.O. on drawings:

2x Structural framing	D.F. No. 2 or better unless noted otherwise.
4x and larger beams & posts	D.F. No. 1 or better
Structural Plywood	CDX plywood or OSB rated sheathing, Group 1, Exp. 1, U.N.O.

Division 2.0 - Foundations

- 2.0.1 All foundation work shall be done in accordance with these structural drawings unless superseded by the recommendations of a project specific Geotechnical Investigation Report.
- 2.0.2 Foundations shall bear a minimum of 12" below lowest adjacent grade. See sheet S401 for more info.
- 2.0.3 All filling, backfilling, and compaction shall be done per the recommendations of these structural drawings unless superseded by a project specific Geotechnical Investigation Report and must be compacted to a minimum density of 90% in accordance with ASTM D 1557-02.
- 2.0.4 Prior to placement of fill beneath foundations, a soils engineer shall inspect the subgrade to confirm that suitable native soils have been exposed to substantiate the bearing capacity provided above in Division 1. A soils engineer shall also inspect prepared grades for footings and foundations, prior to placement of reinforcing or forms.
- 2.0.5 Building pad construction shall conform to the requirements of these structural drawings unless superseded by the recommendations of a project specific soils report. Final depth and extent of excavation and fill shall be determined at time of construction by a Soils Engineer.
- 2.0.6 Tops and bottoms of all foundations shall be level. Changes in bottom of foundation elevation shall be made according to the stepped footing detail on sheet S101.
- 2.0.7 All grade beams, tie beams and other footings shall be formed unless specifically approved the structural engineer. Foundations shall be cast in neat excavations. Use 2x12 plank or other suitable form at edge to protect against sloughing, as required.
- 2.0.8 Notify the Structural Engineer 48 hours before pouring foundations.
- 2.0.9 A Soils Engineer shall advise the Building Official in writing that:
- The building pad was prepared in accordance with the soils engineers recommendations.
 - The utility trenches were properly backfilled and compacted.

Division 3.1 - Cast-In-Place Concrete

- 3.1.1 All concrete construction shall conform to ACI 318-05, "Building Code Requirements for Reinforced Concrete".
- 3.1.2 Cement shall conform to ASTM C-150, Type II.
- 3.1.3 Aggregates for normal-weight concrete shall be hard rock and shall conform to ASTM-C33. Maximum aggregate size shall be 3/4" for elements that are 12 inches or smaller in the least direction and 1-1/2 inches for all other elements.
- 3.1.4 Ready-mix concrete shall be delivered and mixed in accordance with ASTM C-94. Maximum slump for all concrete at the point of placement shall be 4 inches, or the design placement (as submitted with the trial design) plus one inch, except where superplasticizing agents are used, as approved by the Engineer.
- 3.1.5 All concrete shall conform to one of the following classes, as required:
- | Class | Application | 28-Day Strength | Weight |
|-------|--|-----------------|--------|
| A | Foundations | 2500 psi | Normal |
| B | Slabs-on-Grade | 3000 psi | Normal |
| C | Concrete over Metal Deck, Equipment Pads | 3000 psi | Normal |

- 3.1.6 Concrete mixes shall be designed by a qualified Testing Laboratory and reviewed by the Engineer prior to use. The Contractor may propose mixes successfully incorporated on past projects. Submit certified test data and batch proportions for such mixes.
- 3.1.7 Air-entraining and water-reducing admixtures may be used with prior approval of the Engineer. Admixtures containing calcium chloride will not be approved.
- 3.1.8 All reinforcing steel, anchor bolts, dowels and other inserts shall be well secured in position prior to placement of concrete.
- 3.1.9 Exposed corners of all beams, columns, walls, etc. shall be provided with a 3/4 inch chamfer, U.N.O.
- 3.1.10 Slab forms for concrete elements, shall not be removed sooner than three days after concrete placement, except as approved by the Engineer. Approval will not be given unless the concrete has attained a compressive strength of at least 2000 psi, as demonstrated by test cylinders.
- 3.1.11 Bottom forms of concrete elements, including forms for slabs and beam soffits, shall not be removed until the concrete has attained at least 75% of its specified concrete strength, as demonstrated by test cylinders.
- 3.1.12 Upper surfaces on concrete elements and all surfaces with forms stripped sooner than 7 days following placement of concrete shall be coated with a liquid membrane curing compound. Other curing methods may be used, if approved by the Engineer prior to application.
- 3.1.13 Refer to architectural, mechanical and electrical drawings for the sizes and locations of openings in concrete slabs. All penetrations larger than 12 inches shall be formed.
- 3.1.14 Concrete volumes may vary from those implied by these drawings or due to overexcavation or form flexibility. The Contractor shall include costs for overfill of concrete volume as appropriate.
- 3.1.15 Non-shrink grout shall be Sikagrout 212, manufactured by Sikka Corporation, or approved equal.

Division 3.2 - Reinforcement for Concrete and Masonry

- 3.2.1 Reinforcement shall be deformed bars conforming to ASTM A-615, Grade 60, or ASTM A-706, Grade 60, for reinforcing bars to be welded.
- 3.2.2 Detailing, bending, and lacing of reinforcing shall conform to the Concrete Reinforcing Steel Institute "Manual of Standard Practice" and ACI Detailing manual 315.
- 3.2.3 Suitable devices shall be used to hold all reinforcing and embeddings in their proper positions during concrete placement.
- 3.2.4 Reinforcing steel shall be provided with the following amounts of concrete cover:
- | Concrete Description | Cover |
|---|--------|
| Concrete Deposited Against Earth | 3" |
| Concrete Exposed to Earth or Weather | 2" |
| #5 Bar and Larger | 1 1/2" |
| #5 Bar and Smaller | 1 1/2" |
| Concrete Not Exposed to Earth or Weather | 3/4" |
| Slabs, Walls and Joists - | 1 1/2" |
| #11 Bar and Smaller | 1 1/2" |
| Column Verticals, Ties, Stirrups, Spirals | 1 1/2" |
- 3.2.5 Any reinforcing bars may be spliced with mechanical couplers. Couplers shall conform to the requirements for type 2 per ACI 1921.2.5.1.b. Couplers shall be of uni-axial type. See specifications for detail and approval requirements.
- 3.2.6 The minimum lap length for contact lap splices in cast-in-place concrete shall be per detail B1/S101.
- 3.2.7 A minimum clearance of 2-bar diameters shall be maintained between adjacent bars, except at contact lap splices.

Division 3.6 - Anchors to Concrete and Masonry

- 3.6.1 Any Expansion anchors to be used on project shall have an ICC evaluation report for use in cracked concrete and shall be submitted to Engineer of Record with specified application, diameter, embedment and spacing proposed to be used for review and approval prior to installation.
- 3.6.2 Any adhesive anchors to be in concrete or masonry shall have an ICC evaluation report for use in cracked concrete, grouted masonry or hollow masonry as applies and shall be submitted to Engineer of Record with specified application, diameter, embedment, and spacing proposed to be used for review and approval prior to installation.
- 3.6.3 Locate all existing reinforcing bars within 12 inches of proposed anchor locations prior to drilling for concrete/masonry anchors.
- 3.6.4 All concrete and masonry anchors shall be installed with proper tools and procedures in strict accordance with Manufacturers recommendations.
- 3.6.5 One fourth of each application of adhesive and/or expansion anchors shall be randomly tested in tension to 180% of ICBO allowable tensile capacity (based on concrete strength of 2500 psi, as applicable). If any anchor fails, it shall be replaced and retested. If any anchor fails, 100% of the anchors installed by the same crew shall be retested.
- 3.6.6 Welded deformed bar anchors shall be Nelson Type "D2L", as manufactured by TRV, or approved equal. Welded headed-rod anchors shall be Nelson Type "H4L" or "S3L" or approved equal conforming to ASTM A-108. All welded anchors shall be installed in accordance with the Manufacturers' recommendations. Installation and testing shall be in conformance with AWS D1.1.

General Notes:

Division 1.0 - General

- 1.0.1 All construction shall conform to the requirements of the 2007 California Building Code (CBC).
- 1.0.2 The design is based on the following load information:
Roof Loads:
DL = 10psf, LL = 20psf (reducible)
K₂ = 1.0, I = 1.0
- 1.0.3 The foundation design is based on Allowable Foundation Pressure Table 1804.2 provided in the 2007 CBC for Silty Sand soil as follows:
DL + LL = 2000psf
DL + W or E = 2850 psf
- 1.0.4 Wind Design is based on the following criteria in accordance with the 2007 CBC:
Basic wind speed = 85 mph (3 sec. gust), Exposure = C
For Latitude = 36.8012, Longitude = -118.68, Soil Site Class = D
S_s = 0.469g, F_a = 1.425, S_{ms} = 0.668, S_{ds} = 0.445
S₁ = 0.214g, F_v = 1.972, S_{m1} = 0.422, S_{d1} = 0.282
Occupancy = II, Seismic Design Category = C I = 1.0
R_{vs} = 3.25 Ordinary Steel Concentrically Braced Frames
R_e/w = 3.5 Ordinary Steel Moment Resisting Frames
- 1.0.6 All omissions and conflicts between the various elements of the drawings and/or specifications shall be brought to the attention of the Engineer before proceeding with any work so involved.
- 1.0.7 The Contractor shall verify all dimensions and conditions prior to the start of any construction or fabrication. Any discrepancies between conditions found and those shown on the plans shall be brought to the attention of the Engineer for clarification before work proceeds.
- 1.0.8 Where a construction detail is not shown or noted, the detail shall be the same as for similar work.
- 1.0.9 Details labeled as "typical" along with notes and details on the structural drawings indicate the method of work, and are to be used where they apply. Unless the condition is specifically detailed or reinforced, use typical details whether or not they are cross-referenced elsewhere.
- 1.0.10 All structural members and elements shown on the drawings are new, unless noted "(E)" for existing work.
- 1.0.11 Dimensions, unless noted otherwise, are to centerline of steel framing, to the face of concrete surfaces, to the face of masonry surfaces, to the face of wood framing, or to the top of slab.
- 1.0.12 The structure is designed to be self-supporting when complete. Temporary bracing of structural members may be required during construction when support of such members in the final configuration will be provided by elements that are to be constructed later in the project schedule. It is the Contractor's sole responsibility to design and provide adequate shoring, bracing and formwork, etc., as required for the protection of life and property during construction.

Division 1.4 - Quality Control, Inspections, Tests, and Reports

Special Inspections

- 1.4.1 All required inspections shall be performed by ICBO approved inspectors and tests shall be performed by a Testing Agency. Names and qualifications of special inspector(s) to be assigned to the project shall be submitted to the presiding building department for approval.
- 1.4.2 Special inspections in accordance with 2007 California Building Code Section 1704 are required for the following, unless specifically noted otherwise:
- Steel Construction - Section 1704.3**
- High-Strength Bolted - Periodic Inspection
 - Field welding:
 - Complete and Partial Penetration Groove Welds - Continuous Inspection
 - Multi-pass fillet welds greater than 3/8" - Continuous Inspection
 - Single-pass fillet welds less than or equal to 3/8" - Periodic Inspection
 - Shop welding: Same as Field Welding unless fabricator is approved in accordance with section 1704.2
- Concrete Construction - Section 1704.4**
- Formwork: shape, location & dimensions - Periodic Inspection
 - Reinforcing steel placement - Periodic Inspection
 - Verify Use of Approved Mix Design - Periodic Inspection
 - Preparation of concrete strength specimens & testing of slump for fc=3000psi or greater - Continuous Insp.
- Masonry Construction - Section 1704.5 (Level 1)**
- Proportion of site-prepared mortar, placement of units & construction of Mortar Joints - Periodic Inspection
 - Reinforcing steel placement, size and grade - Periodic Inspection
 - Type, size & placement of all anchor bolts and embedded anchors - Periodic Inspection
 - Verify grout spaces are clean prior to grouting - Periodic Inspection
 - Verify use of approved grout mix design - Periodic Inspection
 - Placement of Grout - Continuous Inspection
 - Preparation grout specimens, mortar specimens and/or prisms for testing - Continuous Inspection
- Soils - Section 1704.6**
- Verify excavation depth & exposed material complies w/ grading requirements, Division 2.0 - Periodic Insp.
 - Perform classification & testing of engineered fill materials during placement - Continuous Insp.
 - Verify material, compaction & lift thickness of engineered fill during placement - Periodic Insp.
- 1.4.3 Copies of all inspection and test reports shall be furnished to the Engineer and the presiding building department.
- 1.4.4 Contractor shall be responsible for removing and replacing all work that is determined by testing and inspection not to comply with specified standards, at no cost to the Owner.

Structural Observation

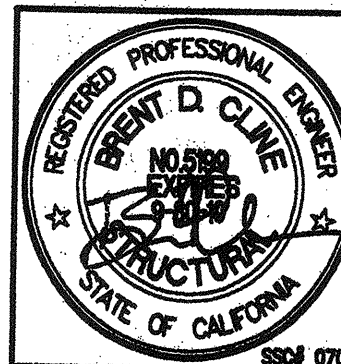
- 1.4.5 The contractor shall schedule a site visit with the Engineer of Record at the following stages of construction for general conformance review of the following items:
- Placement of reinforcing steel for all concrete footings and wall dowels prior to pouring concrete.
 - Rough wood framing prior to drywall or finish installation.
- 1.4.6 A site visit report will be issued to the Architect and Contractor following each site visit identifying any field corrections required from field work observed.
- 1.4.7 This review is not part of the special inspection requirements to be performed by an independent qualified inspector as outlined in section 1.4.1.

Structural Testing

- 1.4.8 All concrete with a specified compressive strength of 3000 psi or greater shall be tested in accordance with the 2007 California Building Code, Section 1905.6 as follows:
- Testing agency shall prepare a set of three test cylinders for each class of concrete placed each day for each 150 cubic yards of concrete placed or portion thereof, or, not less than one set for each 5000 sq. ft. of wall or slab surface area.
 - From each set, test one cylinder at seven days & two cylinders at twenty-eight days.
- 1.4.9 All masonry materials shall be tested in accordance with the 2007 California Building Code, Section 2105.2 as follows:
- Testing agency shall prepare a set of three test specimens for grout placed each day, for each 50 cubic yards of grout placed or portion thereof, or, not less than one set for each 1500 sq. ft. of wall grouted.
 - Testing agency shall prepare a set of three test specimens of mortar placed each day or for each 1500 sq. ft. of wall constructed.
 - From each set of grout and mortar specimens, test three specimens at twenty-eight days.
- 1.4.10 Test reports shall be submitted to the Engineer of Record and the presiding Building Department for review. All deficiencies in work indicated by the test reports to not comply with the contract documents shall be corrected at the contractor's expense.

Material Submittals

- 1.4.11 Prior to proceeding with the work, the Contractor shall submit the following to the Engineer for review:
- Mix designs for all grades of concrete including certified test data on all components.
 - Mix design for masonry grout, material submittal for masonry mortar and masonry units including compressive strength test data for material being provided.
 - Erection and shop drawings for all structural steel.
 - Placement and shop drawings for all concrete and masonry steel reinforcing.
 - Manufacturers' catalog data and ICC - certified test data for any proprietary product proposed as a substitute for specified materials.
- 1.4.11 Review of submittals by the Engineer is only for general compliance with design intent. Review of the drawings does not relieve the Contractor of responsibility for completing work in accordance with the drawings and specifications. Contractor will allow a minimum of 10 working days for review of all submittals, following receipt by the Engineer.



SKYLINE
Structural Consulting, Inc.
755 N. Peach Ave., Suite A10 Clovis, CA 93811
Phone: 559-298-8588 Fax: 559-298-8588

GENERAL NOTES

N.T.S.

PROPOSED STORAGE FACILITY FOR:
**SAN JOAQUIN AIR POLLUTION
CONTROL DISTRICT**
FRESNO, CALIFORNIA



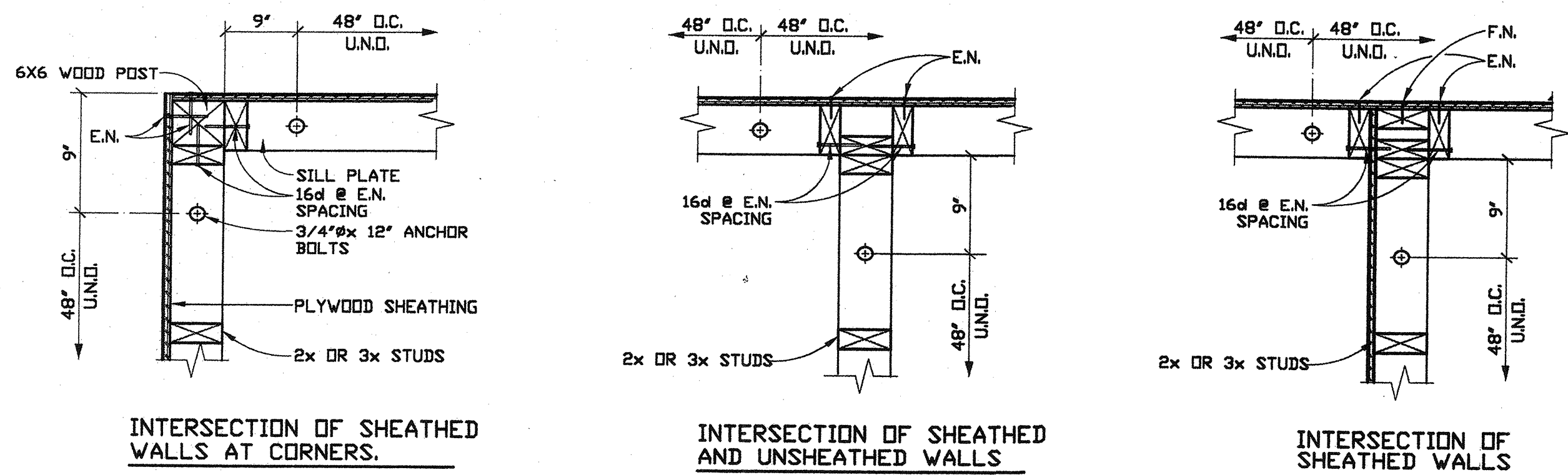
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JOB NUMBER: 080100

DATE: 4-06-2006

S-100

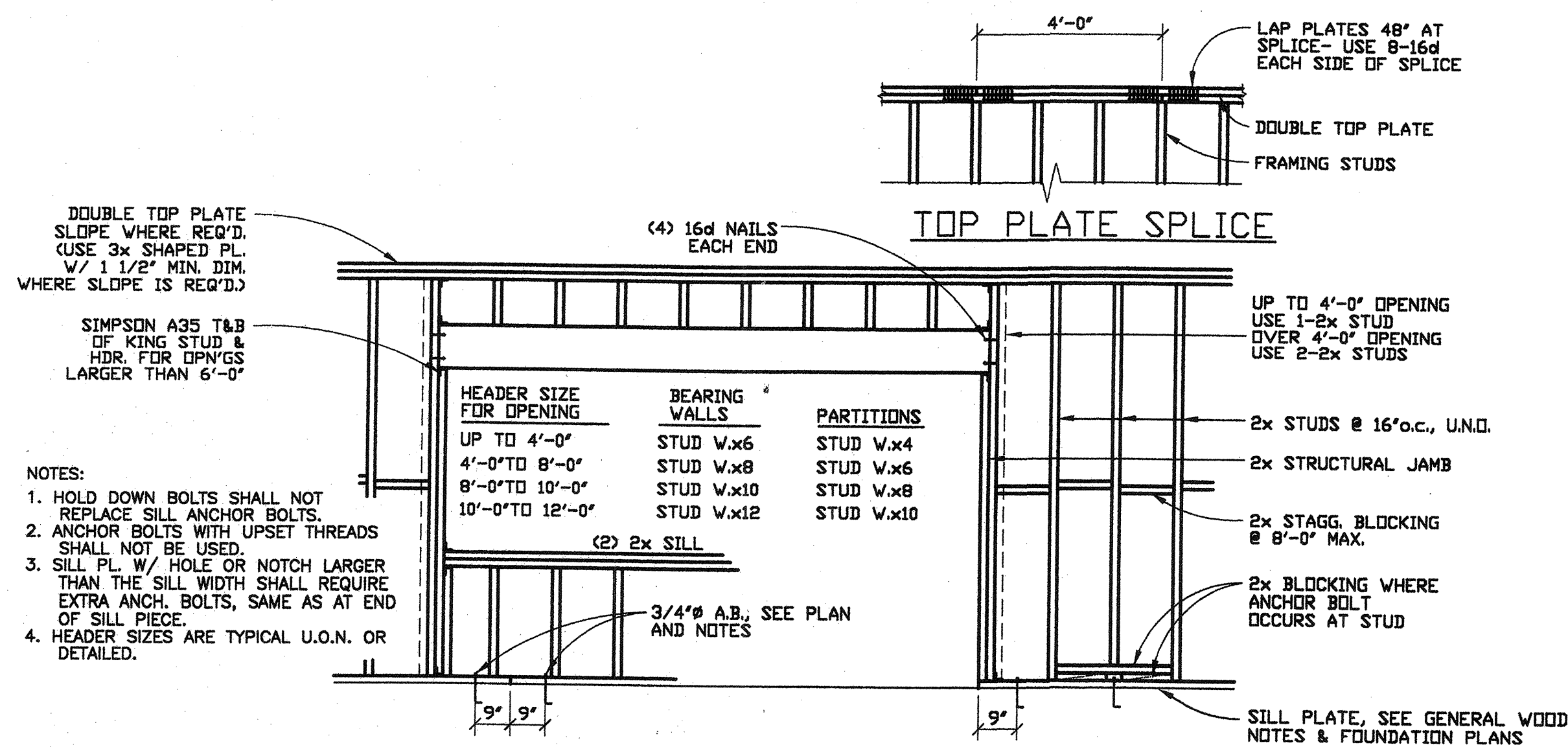


INTERSECTION OF SHEATHED WALLS AT CORNERS.

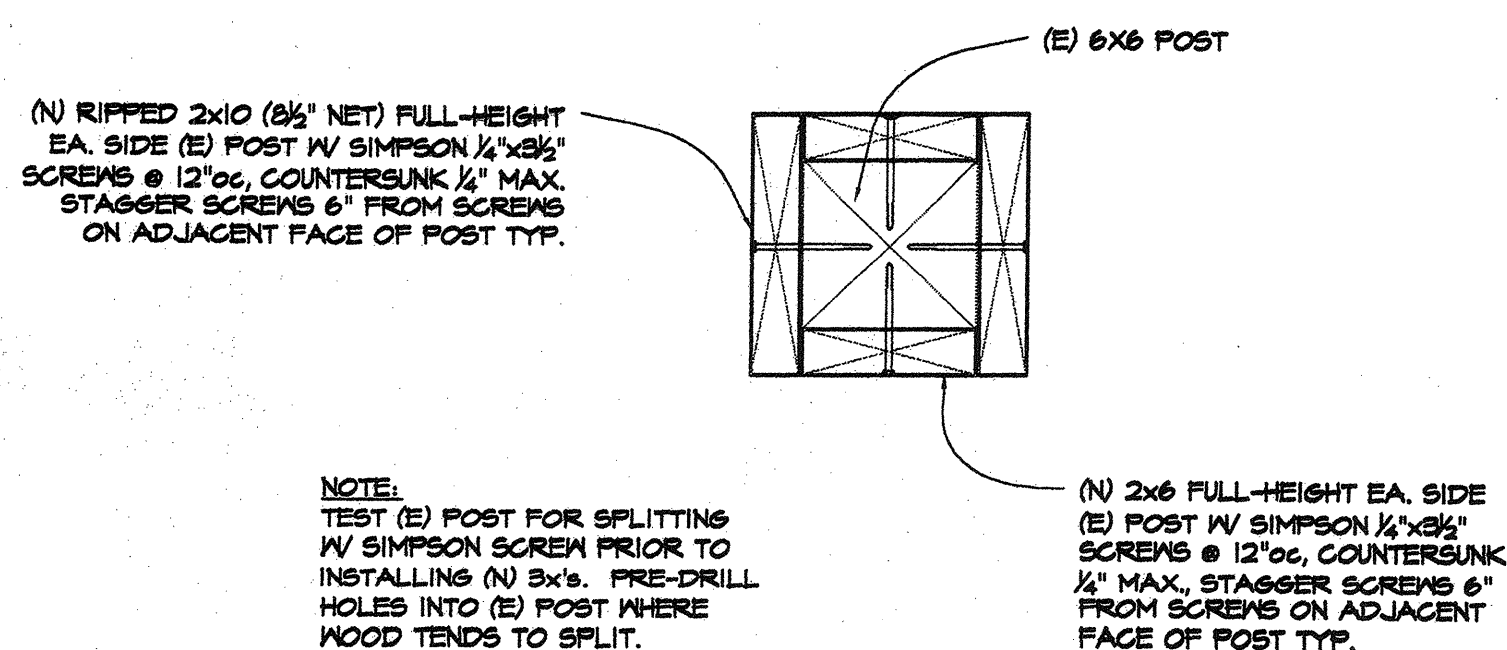
INTERSECTION OF SHEATHED AND UNSHEATHED WALLS

INTERSECTION OF SHEATHED WALLS

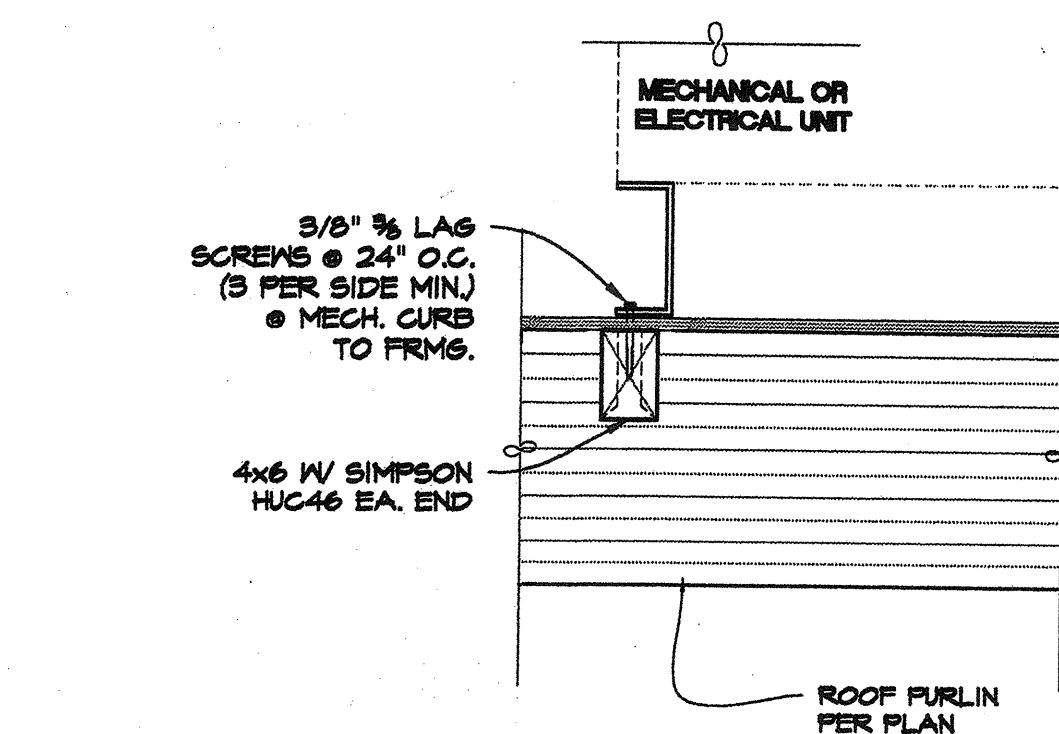
C1 STUD WALL CORNERS & INTERSECTIONS



C2 TYPICAL WALL FRAMING @ OPENINGS



D1 (E) POST REINFORCEMENT DETAIL



C3 MECHANICAL UNIT ANCHORAGE

UNLESS SPECIFICALLY NOTED OTHERWISE, NAILING SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, USING ONLY COMMON WIRE NAILS. NAILING NOT NOTED BELOW OR ON PLANS SHALL HAVE A MINIMUM OF 2 NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.

NAILS SHALL ACHIEVE THE MINIMUM PENETRATION SPECIFIED IN THE TABLE BELOW. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN THE MINIMUM SPACING NOR CLOSER TO THE MEMBERS END OR EDGE THAN 1/2 THE MINIMUM SPACING. HOLES SHALL BE BORED WHERE NECESSARY TO PREVENT SPLITTING.

SIZE	WIRE GAGE	MINIMUM PENETRATION AND SPACING
6d	11 1/2	1.35"
8d	10 1/4	1.57"
10d	9	1.78"
16d	8	1.94"
20d	6	2.30"

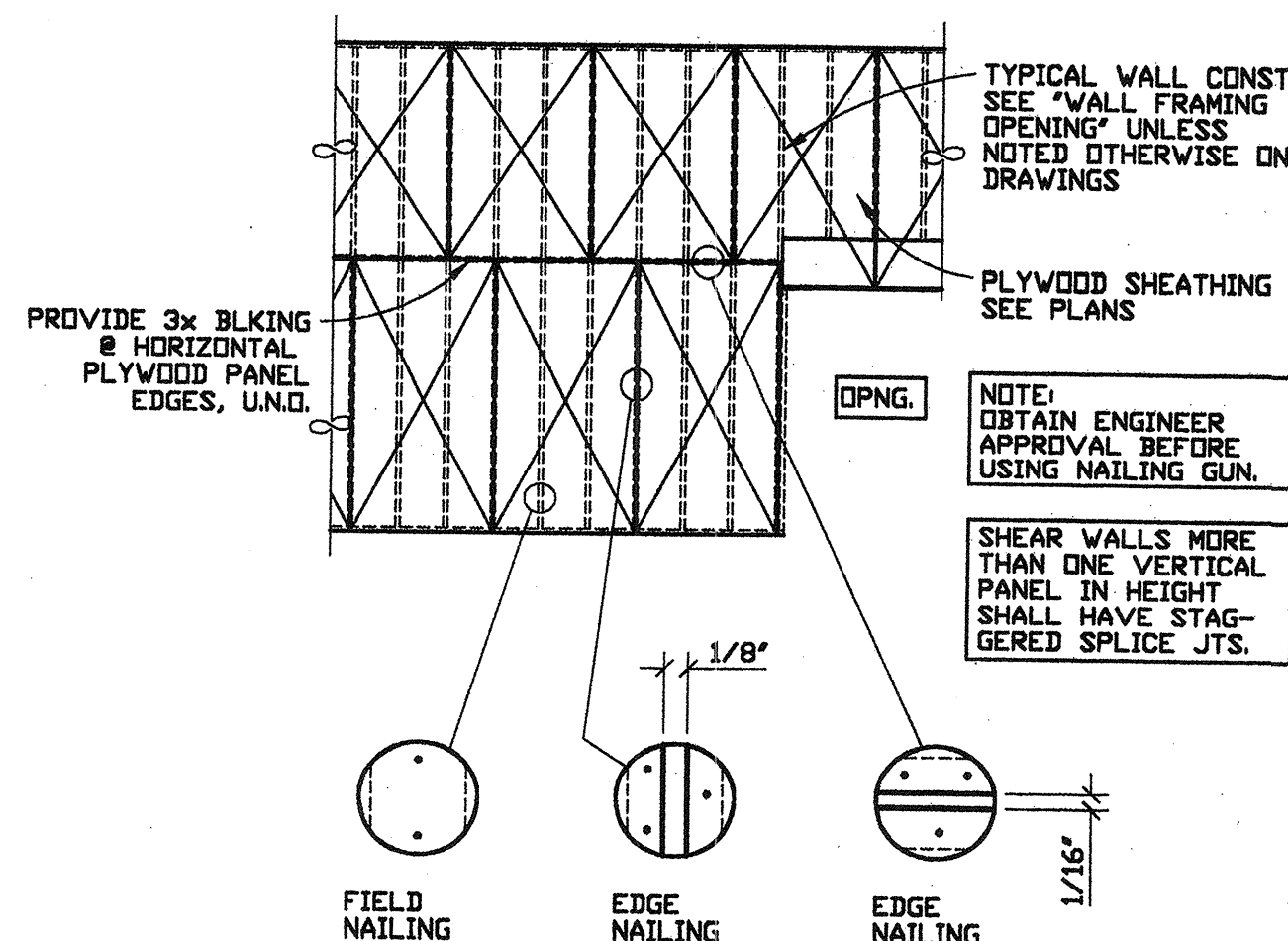
*PENETRATION INTO THE PIECE RECEIVING THE POINT

WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

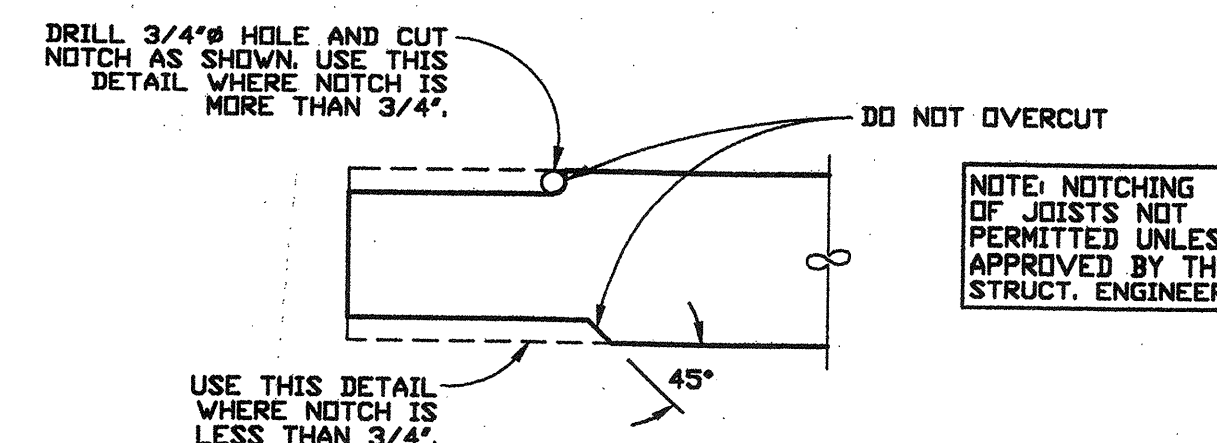
FOR CONDITIONS NOT LISTED, REFER TO TABLE 23A-II-B-1 OF THE C.B.C., 1998 EDITION.

- JOISTS OR RAFTERS AT BEARING, TOENAIL EACH SIDE 2-10d
- BRIDGING TO JOIST, TOENAIL EACH END 2-8d
- SOLE PLATE TO JOIST OR BLOCKING, BLOCKING, FACE NAIL 16d @ 16" O.C.
- TOP PLATE TO STUD, END NAIL (NOT REQUIRED WHERE A35 ANCHORS ARE USED) 2-16d FOR 2x4, 3-16d FOR 2x6, 4-16d FOR 2x8
- STUD TO SOLE PLATE, 2x4 USE ONE HALF OF REQUIRED TOE NAILS ON ONE SIDE WHERE A35 ANCHORS ARE USED. 4-8d TOENAILS OR 2-16d ENDNAILS
- DOUBLE STUDS, FACE NAILS 16d @ 24" O.C.
- DOUBLE TOP PLATES, FACE NAILS 16d @ 16" O.C.
- TOP PLATES, LAPS AT INTERSECTIONS, FACE NAILS 2-16d
- CEILING JOIST TO PLATE, TOENAIL 3-8d
- CONTINUOUS HEADER TO STUD, TOENAIL 4-8d
- CEILING JOIST, LAPS OVER PARTITIONS, FACE NAILS 3-16d
- CEILING JOIST TO PARALLEL RAFTERS, FACE NAILS 3-16d
- 1" BRACE TO EACH STUD AND PLATE, FACE NAILS 2-8d
- DOUBLE RAFTERS, FACE NAIL 16d @ 12" O.C.
- BUILT UP STUDS 16d @ 24" O.C.
- BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTERS TOENAILS, EACH SIDE, EACH END TO JOIST OR RAFTER BEARINGS TOENAILS EACH END 2-10d
- BLOCKING BETWEEN STUDS 2-16d OR 2-10d TOENAILS
- 1x8, OR LESS, SHEATHING EACH BEARING 2-8d
- BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 3-8d TOENAILS
- CEILING JOISTS TO TOP PLATE 3-8d TOENAILS

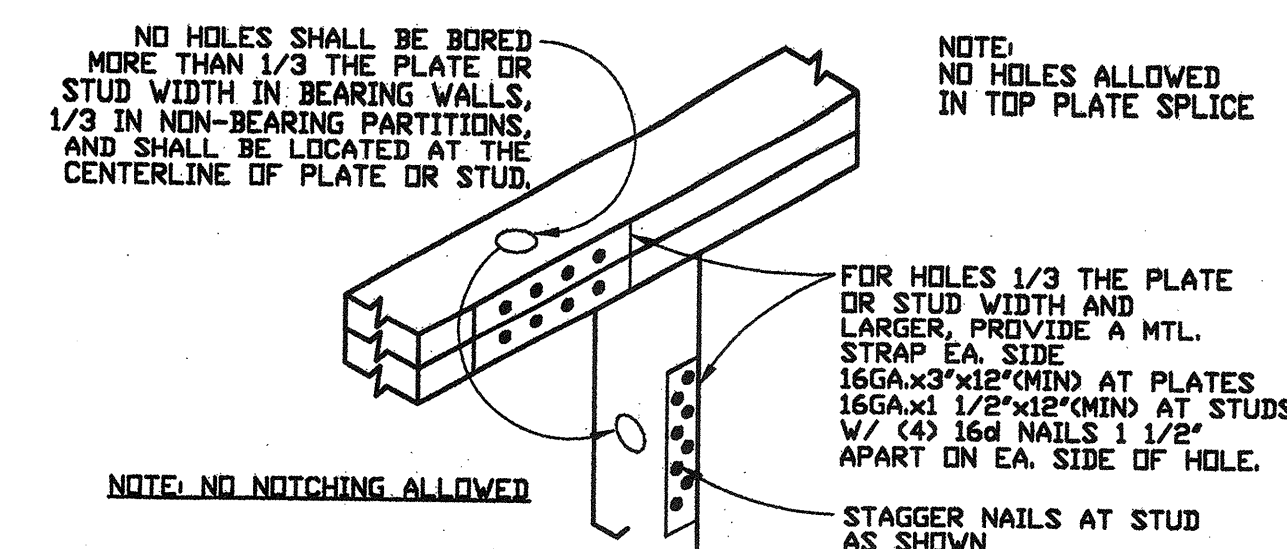
B1 NAILING SCHEDULE



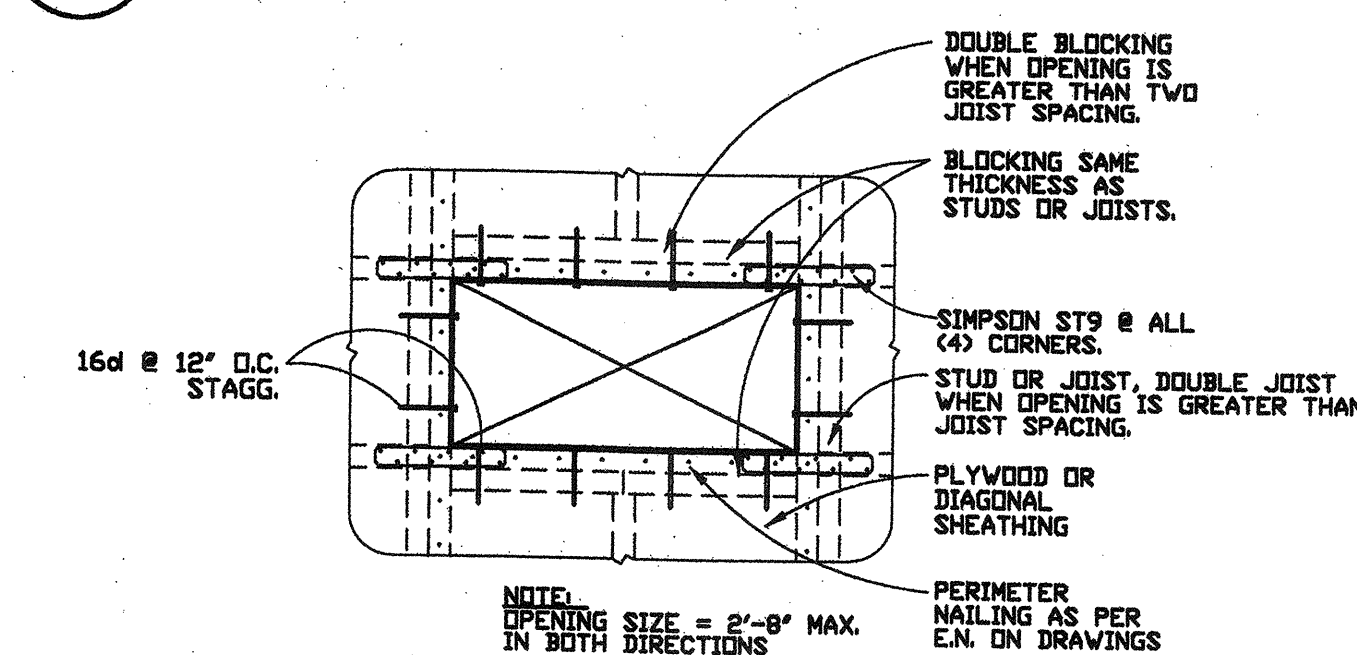
B2 SHEAR WALL DIAPHRAGM



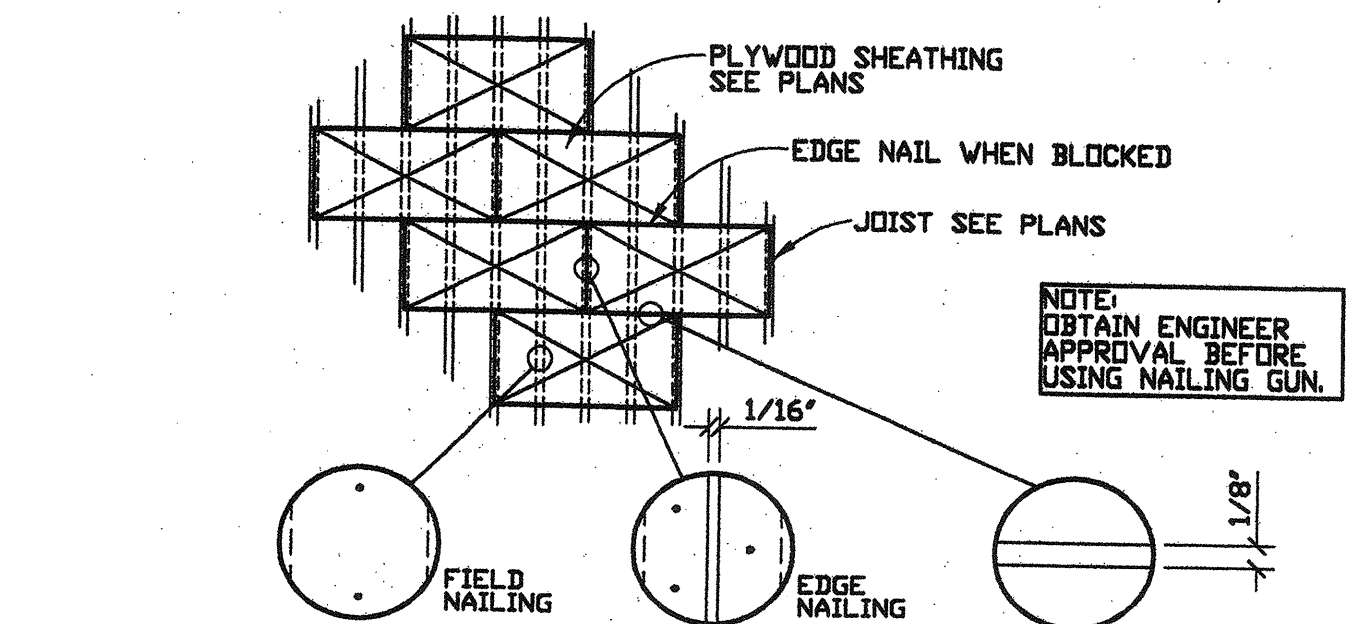
A1 WOOD JOIST NOTCH



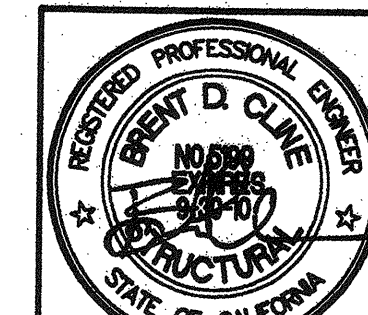
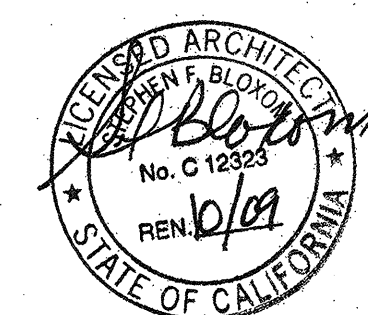
A2 HOLES IN STUD WALL



A3 BLOCKING AROUND OPENING (ROOF OR WALL)



A4 ROOF & FLOOR PLYWOOD (DIAPHRAGM)



TYPICAL WOOD FRAMING DETAILS
AS NOTED



PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. ALL STRUCTURAL DIMENSIONS ARE TO FACE OF STUD OR CENTERLINE OF BEAM/COLUMN, U.N.O.
2. REVIEW SHEETS S100-S103 PRIOR TO START OF CONSTRUCTION FOR GENERAL NOTES, SPECIFICATIONS AND TYPICAL DETAILS TO BE USED BY DEFAULT, U.N.O.
3. SEE DETAIL C2/S103 FOR TYPICAL EXTERIOR WALL FRAMING INFO.
4. ALL NEW INFILL STUDS IN EXISTING EXTERIOR WALLS SHALL BE 2x6 MOOD STUDS @ 16" o.c. U.N.O.
5. ALL NEW INFILL SILL PLATES SHALL BE PRESSURE TREATED 2x6 W/ 5/8" A.B.'s @ 48" o.c. W/ 2 1/4" SQ. PLATE WASHERS, EPOXY (N) A.B.'s @ 6" INTO EXISTING CONCRETE, 9" MIN. FROM EDGE OF CONCRETE W/ SIMPSON SET EPOXY.
6. SEE DETAIL B2/S101 FOR EPOXIED REINFORCEMENT INSTALLATION REQUIREMENTS. OBTAIN APPROVAL FROM ENGINEER PRIOR TO USING WHERE NOT SPECIFICALLY CALLED FOR ON PLANS OR DETAILS.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PRIOR TO PROCEEDING WITH WORK. ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY SHORING OF EXISTING STRUCTURE FOR VERTICAL & LATERAL STABILITY AS REQUIRED TO INSTALL THE NEW STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS. WHEN SHORING UP EXISTING STRUCTURE, RAISE UP ONLY AS MUCH AS REQUIRED FOR PLACEMENT OF NEW SUPPORT STRUCTURE. SHORING IS TO REMAIN IN PLACE UNTIL ALL NEW STRUCTURE AND CONNECTIONS ARE COMPLETED.
9. IF ANY EXISTING FRAMING MEMBERS ARE FOUND TO BE DAMAGED AND ARE NOT SHOWN TO BE REPLACED ON THESE CONSTRUCTION DOCUMENTS, CONTACT THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING WITH WORK.
10. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.

1 (E) ROOF FRAMING PLAN PLAN

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

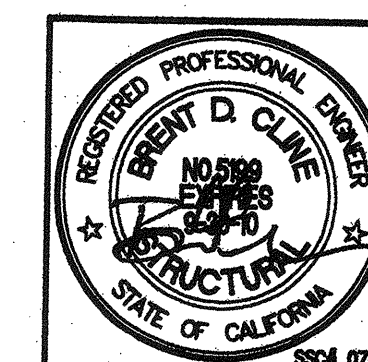
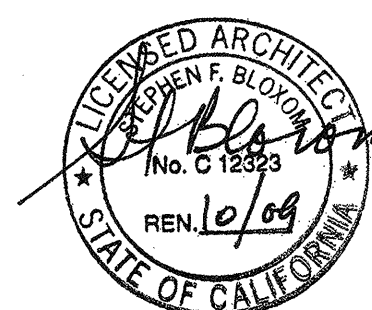


PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN AIR POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA



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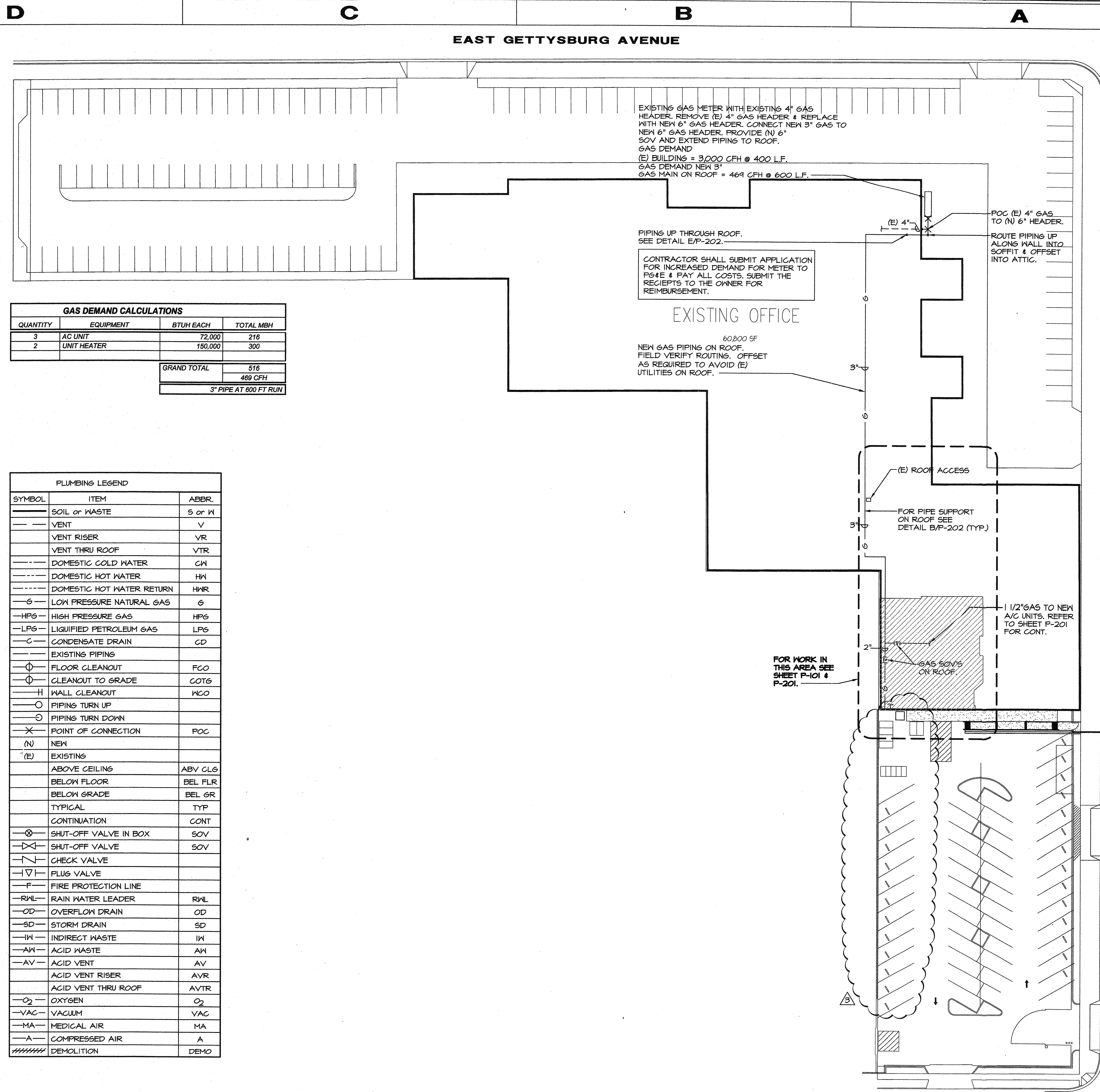


EXISTING BLDG. T.I.
ROOF FRAMING PLAN
1/8" = 1'-0"

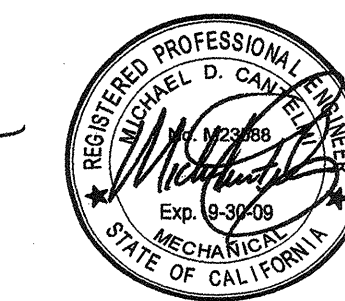
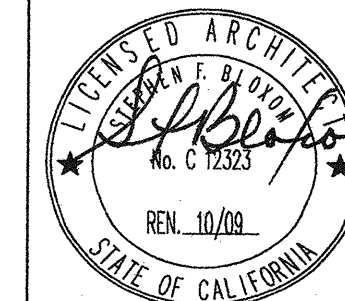
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JOB NUMBER: 080100
DATE: 4-08-2008

S-202



MDC
MECHANICAL DESIGN CONCEPTS, INC.
1060 West Sierra Avenue
Suite 101
Fresno, CA 93711
Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09



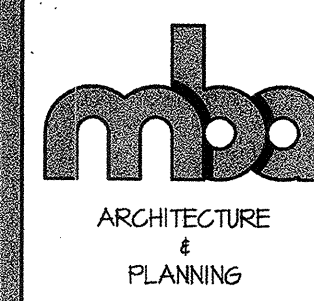
**PLUMBING
SITE PLAN**
1"=30'-0"

**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

REVISIONS

JOB NUMBER: 08010.00
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**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

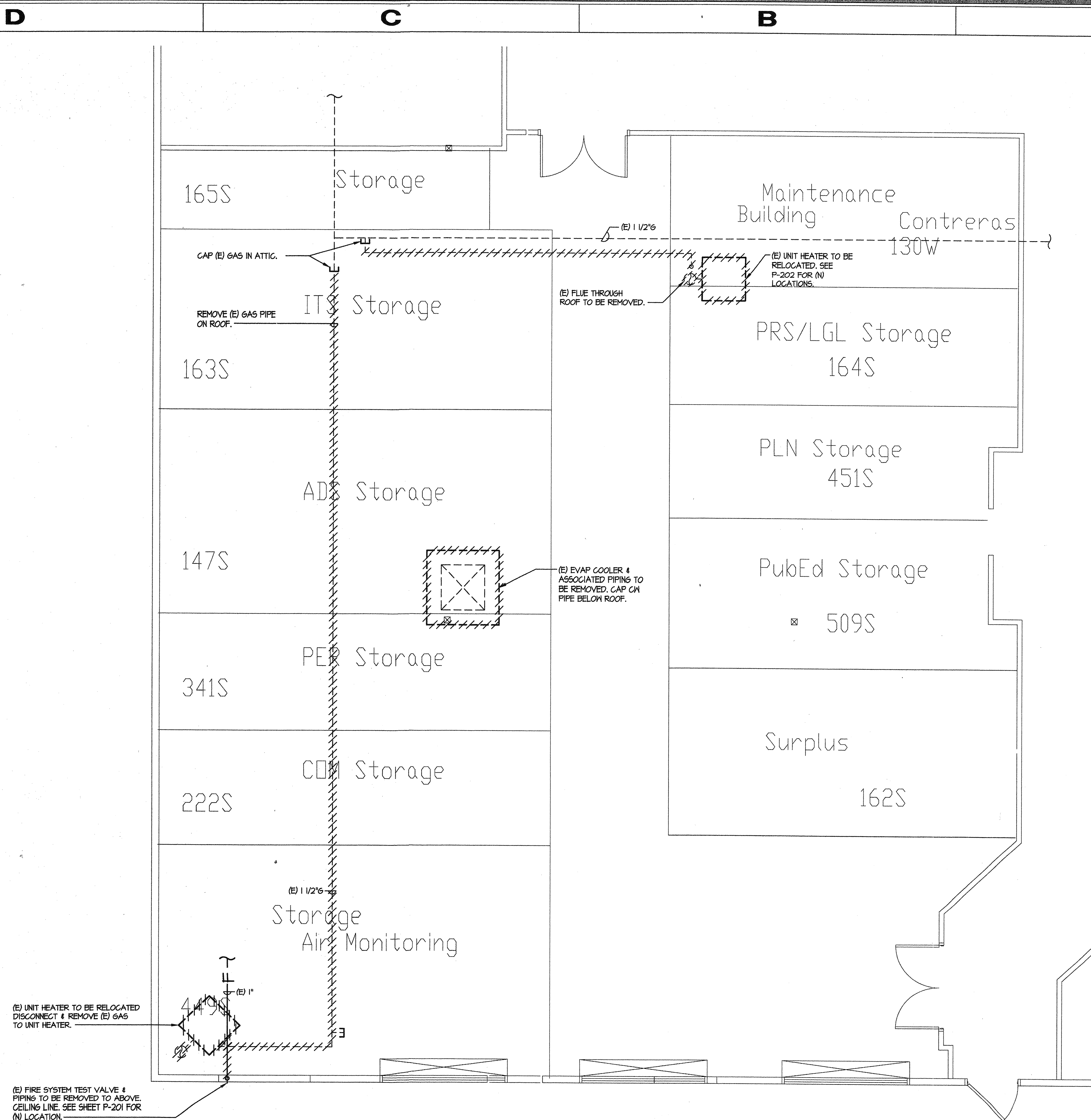
MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658

[illegible]

JOB NUMBER: 08107.00
DATE: 9/8/2008

P-101

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PLUMBING DEMOLITION PLAN

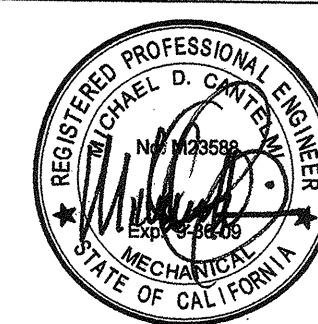
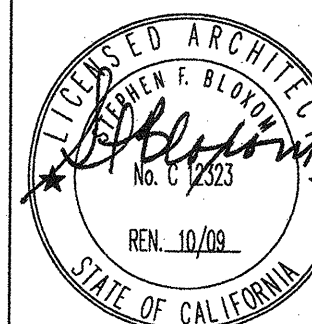
SCALE: 1/4"=1'-0"

MDC

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Fresno, CA 93711

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Fax: (559) 437-0297
Job: 08040 Plt: 7-17-09



PLUMBING DEMO PLAN

$$1/4^3 = 1/4^1 -$$

4

3

2

1

D

C

B

A

REFER TO SHEET
P-100 FOR CONTINUATION.

POC NEW 1" CW TO
(E) 1 1/2" CW ABV CEILING.

NEW 3" GAS PIPING ON ROOF.
REFER TO DETAIL B/P-202.

NEW 1" CW PIPING BELOW ROOF.

HC-2 4 TON PACKAGE
UNIT. T2 MBH.

HC-1 5 TON PACKAGE
UNIT. T2 MBH.

3/4" CW UP THRU ROOF TO WOODFORD
V24 RISER MOUNTED HOSE BIBB WITH
INTEGRAL VACUUM BREAKER AND
LOOSE KEY HANDLE.

2" SOV ON ROOF.

2" GAS ON ROOF.

CONN. 1" G TO HC UNIT W/ PLUG
VALVE AND DIRT LEG.

PIPING DOWN THROUGH
ROOF INTO ATTIC.
CAP PIPING IN ATTIC FOR
FUTURE EXTENSIONS.

1" FIRE SYSTEM TEST LINE DOWN IN
WALL TO VALVE & DAYLITE 18"
ABOVE GRADE. MOUNT VALVE IN
EXTERIOR LOCKABLE VALVE BOX
AT 48" ABOVE GRADE.

PIPE PENETRATIONS THROUGH
WALL (TYP) SEE DETAIL F/P-202.

(E) GAS BELOW
ROOF.

(E) 1/2" G
260 CFH.

HC-3 6 TON PACKAGE
UNIT. T2 MBH.

(E) 1/2" CW

CONN. 3/4" CD TO HC UNIT W/
P-TRAP. SEE DET. A/P-202.
ROUTE PIPING ON ROOF TO
CONDENSATE RECEIVER.
COORDINATE ROUTING WITH OWNER.
TERMINATE CD WITH 1" AIR GAP.
SUPPORT PIPE ON ROOF WITH
B-LINE C-PORT SET IN MASTIC.



PLUMBING PLAN

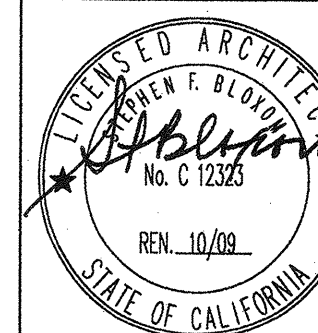
SCALE: 1/8"=1'-0"

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Job: 08040 Pjt: 7-17-09



**PLUMBING
PLAN**

1/8"=1'-0"

**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

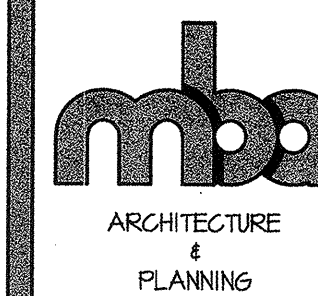
1-20-04 REMOVE WATERLOO
1/3

REVISIONS

JOB NUMBER: 08101.00
DATE: 9/8/2008

P-201

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4

3

2

1

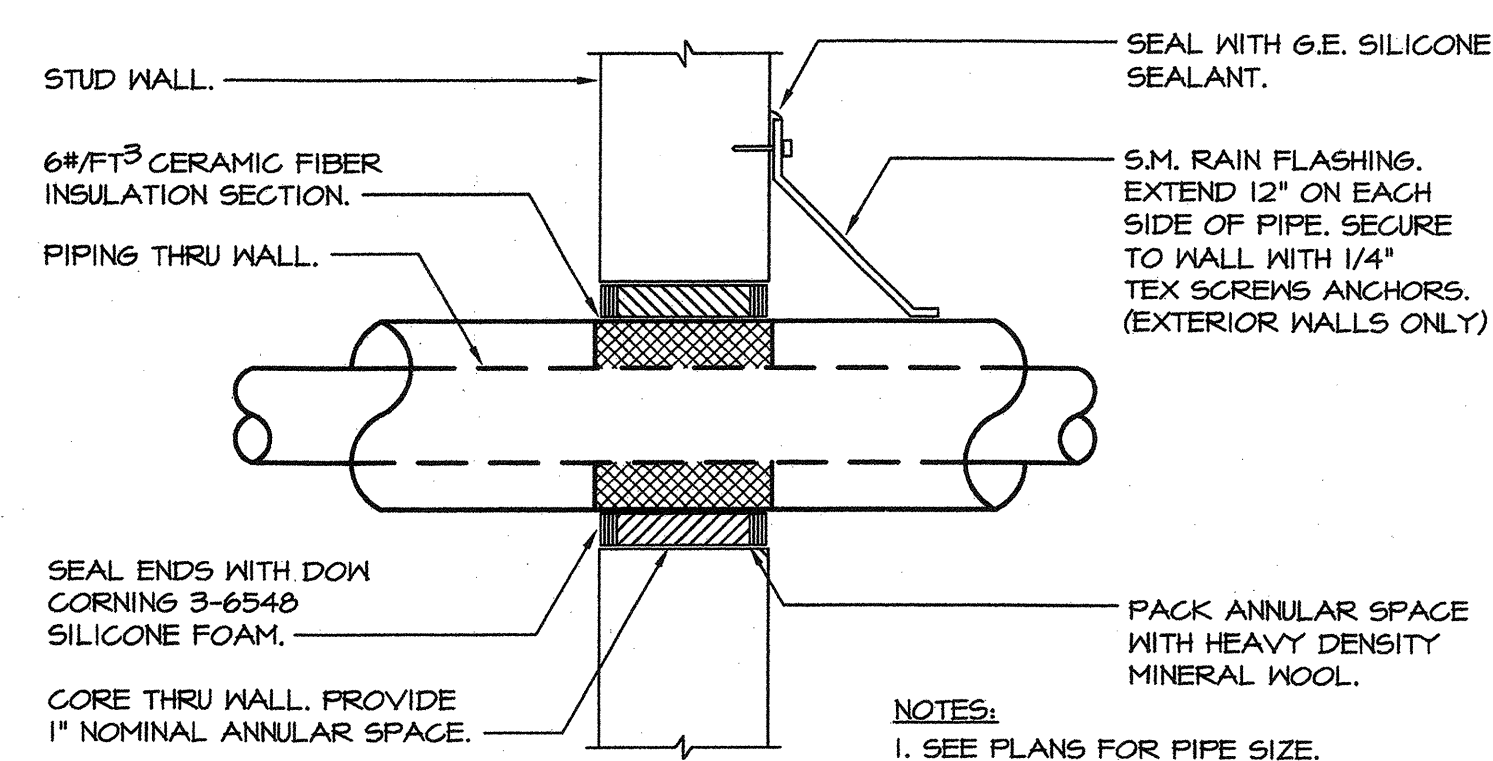
D

C

B

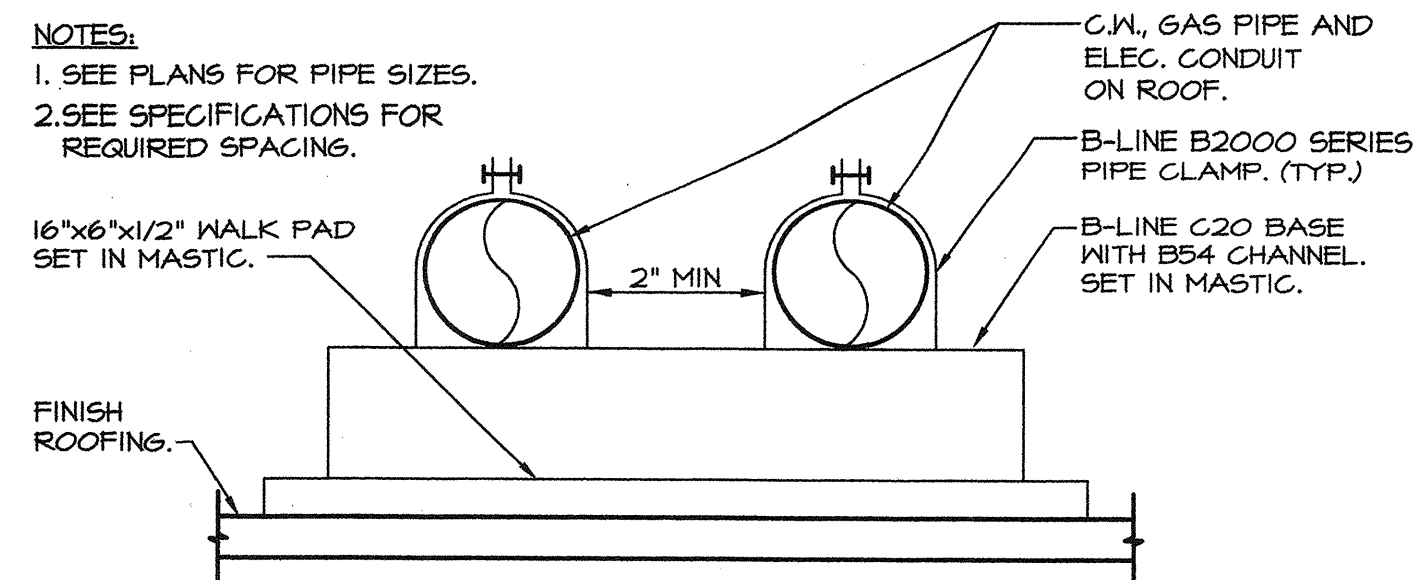
A

NOT USED



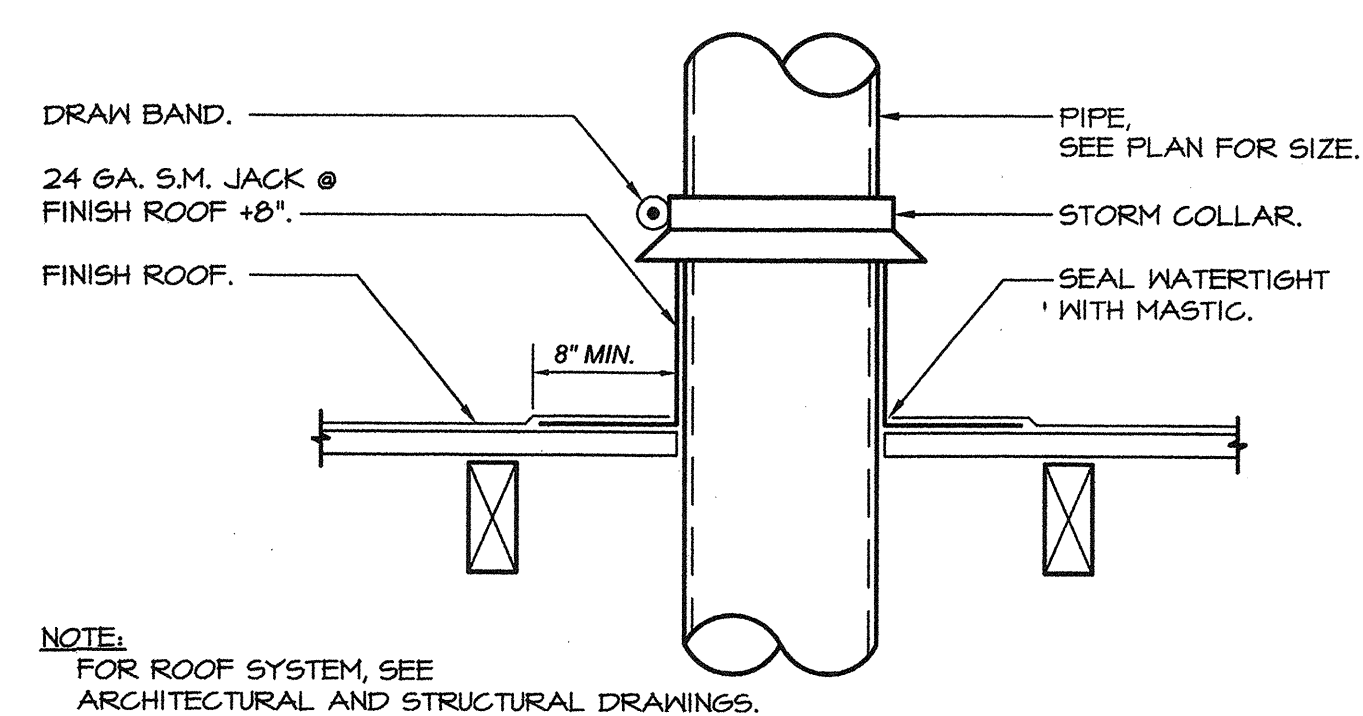
PIPE THROUGH WALL

F



PIPE SUPPORT - ON ROOF

B



PIPE THROUGH ROOF - NON INSULATED

E

4" LONG NEOPRENE HOSE (SIZE PER PIPE) W/ S.S. CLAMPS

PLUG (FOR CLEANOUT)

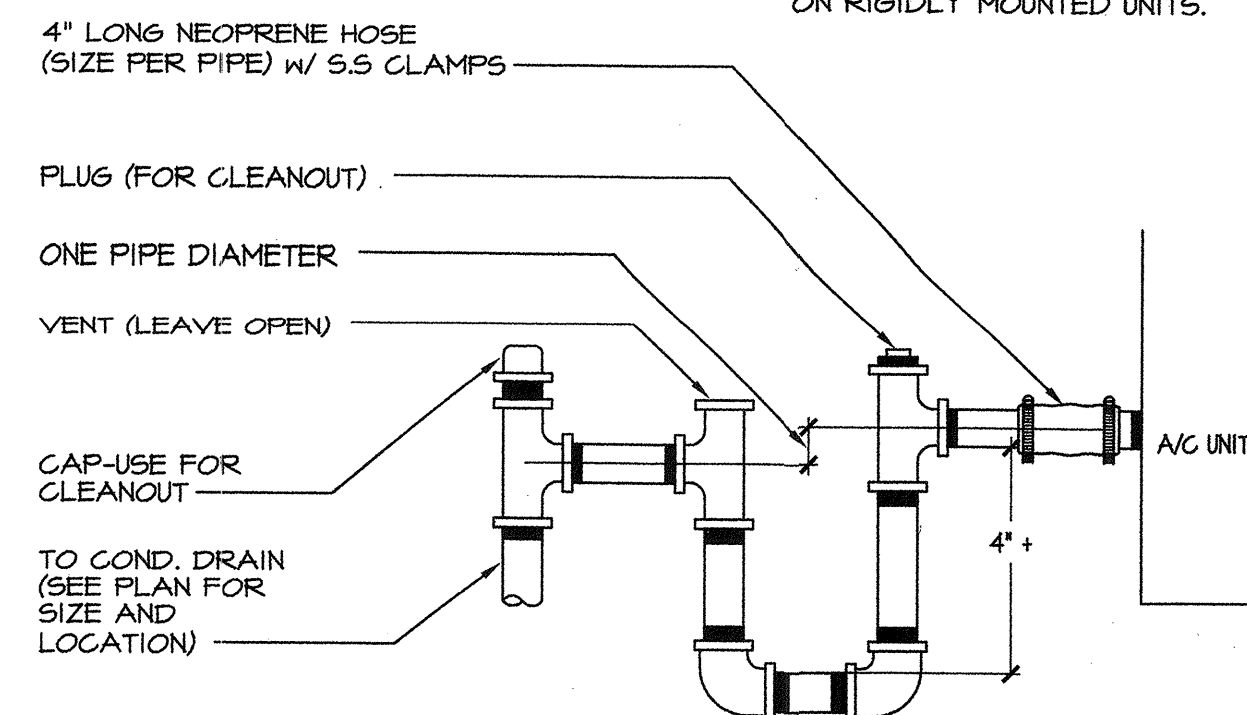
ONE PIPE DIAMETER

VENT (LEAVE OPEN)

CAP-USE FOR CLEANOUT

TO COND. DRAIN (SEE PLAN FOR SIZE AND LOCATION)

NOTE: HOSE REQ'D. ON SPRING MTD. UNITS. USE STEEL OR COPPER FITTINGS ON RIGIDLY MOUNTED UNITS.

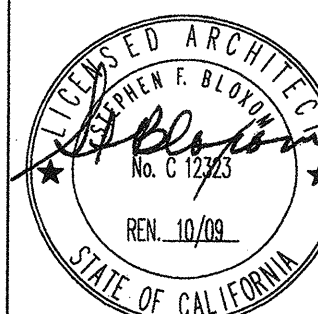


CONDENSATE DRAIN

A

MDC

MECHANICAL DESIGN CONCEPTS, INC.

1060 West Sierra Avenue
Suite 101
Fresno, CA 93711Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09PLUMBING
PLAN

1/8"=1'-0"

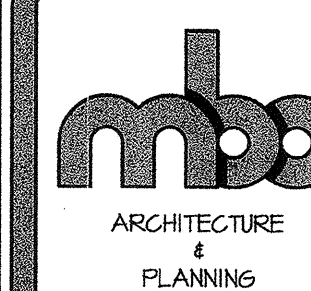
PROPOSED STORAGE FACILITY FOR:
**SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT**
FRESNO, CALIFORNIA

REVISIONS

JOB NUMBER: 08107.00
DATE: 4/8/2008

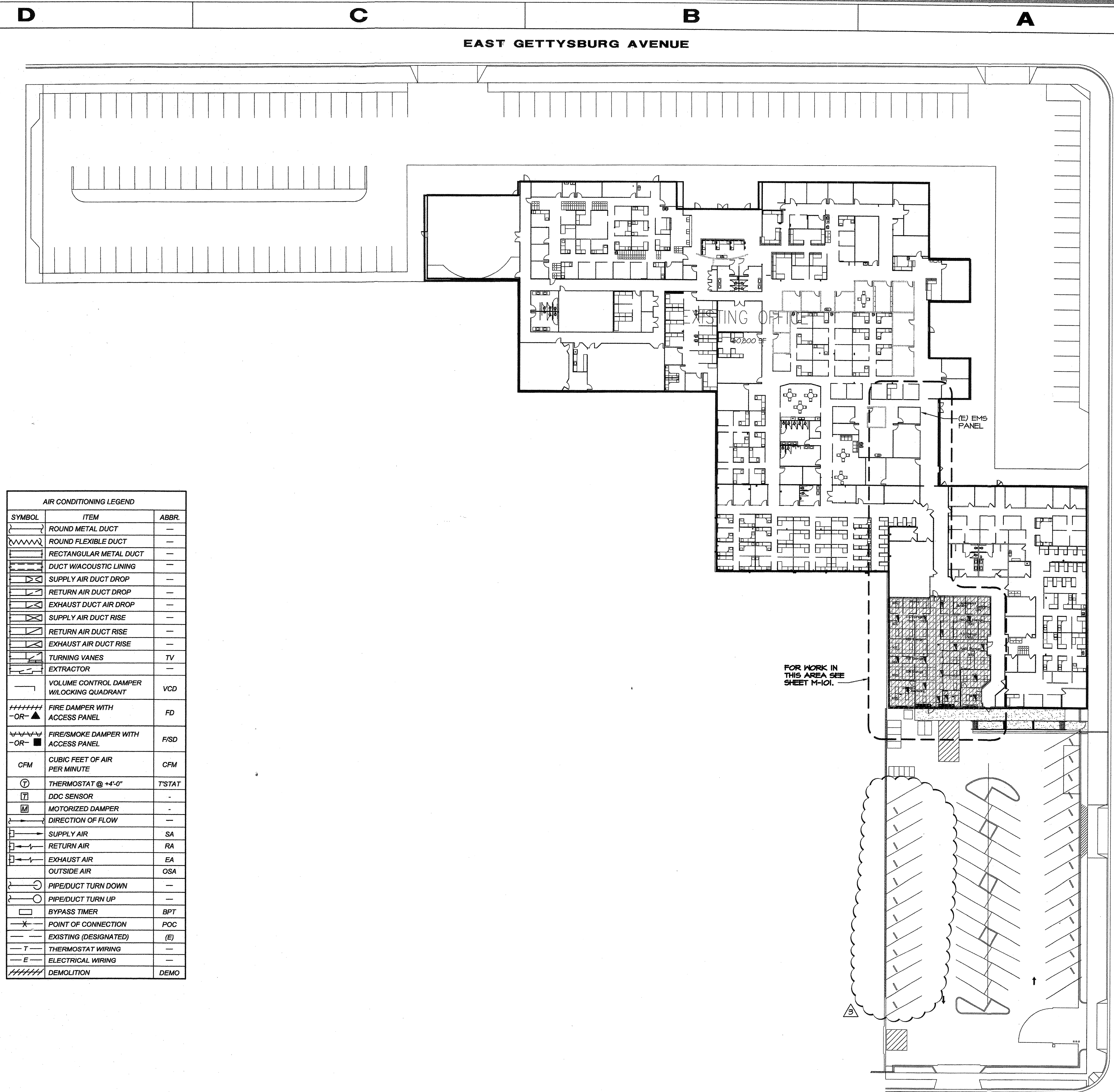
P-202

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AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR.
	ROUND METAL DUCT	—
	ROUND FLEXIBLE DUCT	—
	RECTANGULAR METAL DUCT	—
	DUCT W/ACOUSTIC LINING	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER	VCD
	FIRE DAMPER WITH ACCESS PANEL	FD
	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	CUBIC FEET OF AIR PER MINUTE	CFM
	THERMOSTAT @ +4'-0"	T/STAT
	DDC SENSOR	—
	MOTORIZED DAMPER	—
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	PIPE/DUCT TURN DOWN	—
	PIPE/DUCT TURN UP	—
	BYPASS TIMER	BPT
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	THERMOSTAT WIRING	—
	ELECTRICAL WIRING	—
	DEMOLITION	DEMO

GENERAL PROJECT NOTES:

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- PRIOR TO REMOVAL FROM WAREHOUSE, DEMONSTRATE PROPER OPERATION OF UNIT HEATER. ONCE THE UNITS HAVE CONFIRMED THAT THEY WORK PROPERLY, THE CONTRACTOR SHALL REMOVE AND PROTECT UNIT FROM DAMAGE DURING CONSTRUCTION. REINSTALL THE UNIT IN THE NEW WAREHOUSE LOCATION AND RETURN TO PROPER WORKING CONDITION. COORDINATE THE UNIT LOCATION WITH THE OWNER.

MDC
MECHANICAL DESIGN CONCEPTS, INC.
1060 West Sierra Avenue
Suite 101
Fresno, CA 93711
Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09



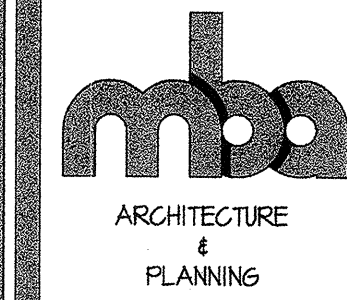
MECHANICAL SITE PLAN
1"=30'-0"

PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION CONTROL DISTRICT
FRESNO, CALIFORNIA

NO.	REVISIONS
1-20-04	REMOVE WAREHOUSE
2	
3	
4	
5	
6	
7	
8	
9	
10	

JOB NUMBER: 080107.00
DATE: 4/8/2008

M-100
CON DOCS



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4

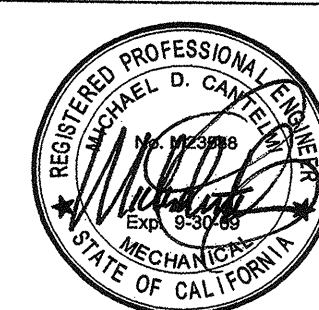
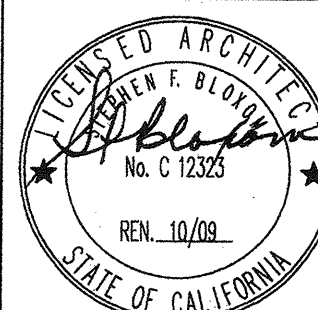
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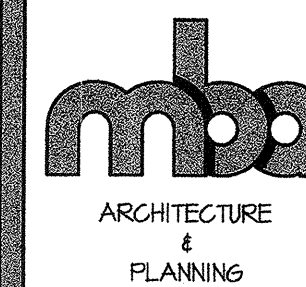
1

**MECHANICAL DEMOLITION PLAN**

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

MDC**MECHANICAL DESIGN CONCEPTS, INC.**1060 West Sierra Avenue
Suite 101
Fresno, CA 93711
Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09**MECHANICAL
DEMO PLAN**
1/4"=1'-0"**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

REVISIONS

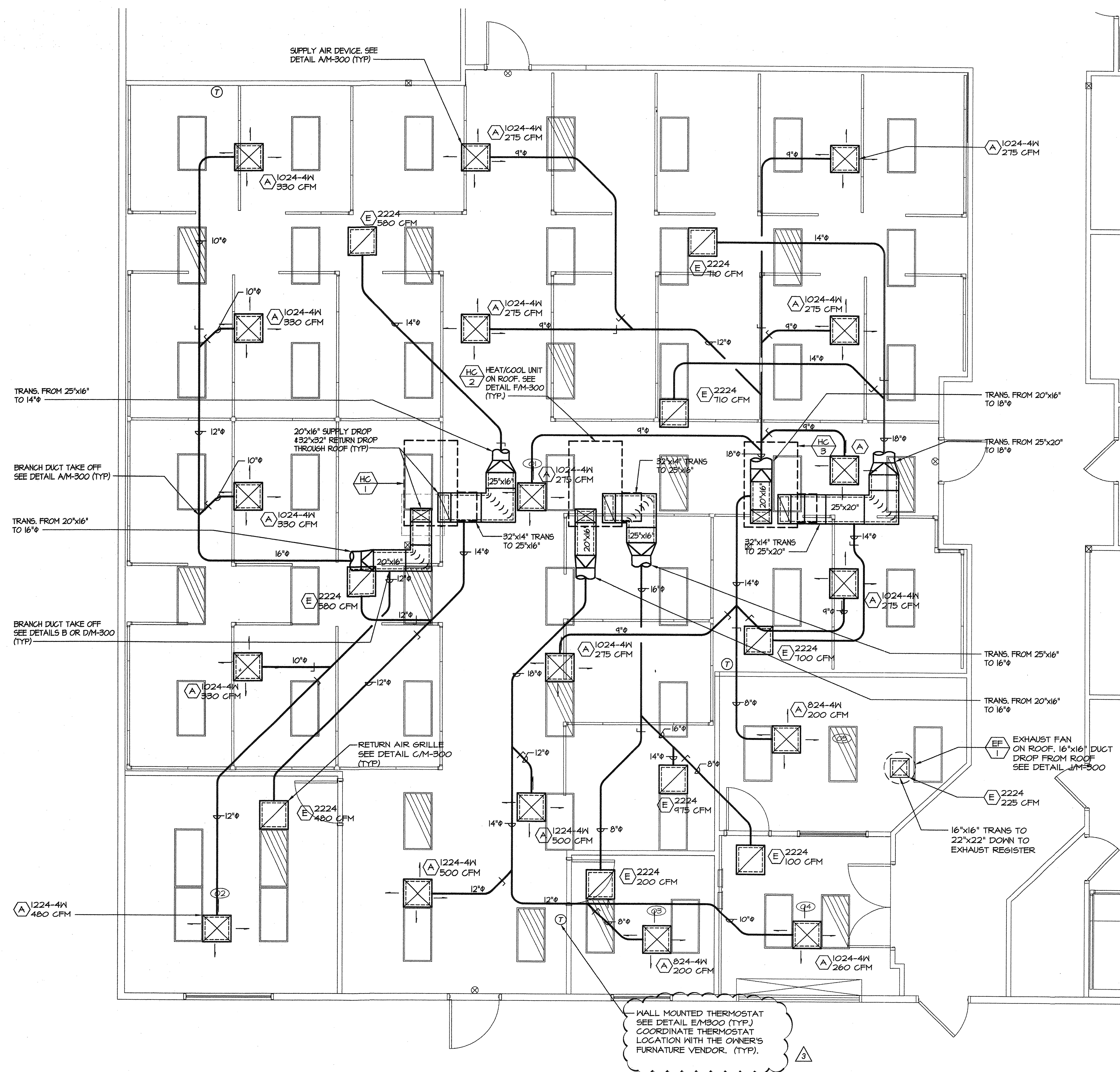
JOB NUMBER: 080100
DATE: 4/8/2008**M-101**
CON DOCSALL IDEAS, DESIGNS AND ARRANGEMENTS
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INC.**MARKS BLOXOM ARCHITECTS, INC.** 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658

4

3

2

1

**MECHANICAL PLAN**

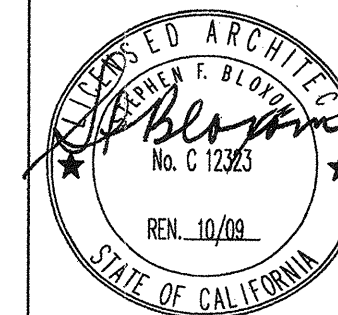
SCALE: 1/4"=1'-0"

ROOM SCHEDULE

- 01 GENERAL OFFICE AREA
- 02 DIRECTOR'S OFFICE
- 03 SUPERVISOR'S OFFICE
- 04 RECEIVING AREA
- 05 MAINTENANCE WORKER OFFICE

MDC

MECHANICAL DESIGN CONCEPTS, INC.

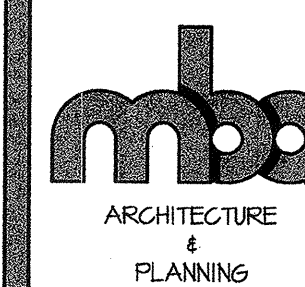
1060 West Sierra Avenue
Suite 101
Fresno, CA 93711Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09**MECHANICAL PLAN**

1/4"=1'-0"

**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

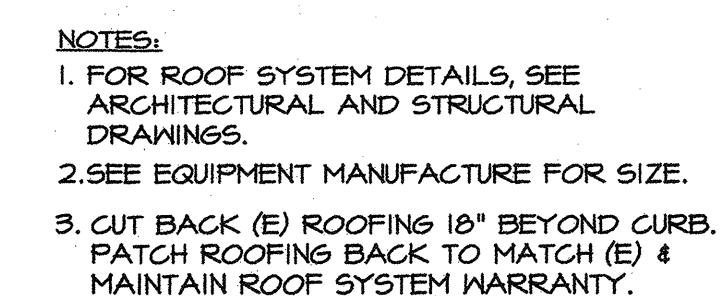
REVISIONS

REVISIONS

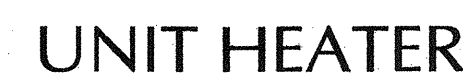
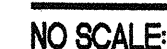
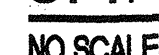
JOB NUMBER: 080100
DATE: 4/8/2008**M-201****CON DOCS**

ALL IDEAS, DESIGNS AND ARRANGEMENTS
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NO PART OF THIS DRAWING SHALL BE REPRODUCED OR
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ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING,
RECORDING, OR BY ANY INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION
OF MARKS BLOXOM ARCHITECTS, INC.

MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658



NO SCALE:



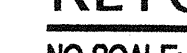
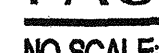
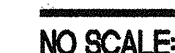
NO SCALE:



NO SCALE



NO SCALE.

**CON DOCS**

4

3

2

1

D

C

B

A

GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS MODEL OMNI SQUARE PLAQUE ROUND NECK DIFFUSER FOR STD. LAY-IN CEILING WITH O.B.D., FLAT BLACK INTERIOR, AND NO. 26 OFF-WHITE FINISH.
B	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH O.B.D., AND NO. 26 OFF-WHITE FINISH.
C	WALL SUPPLY	TITUS MODEL 1707 REGISTER WITH REMOVABLE CORE, O.B.D., 5 DEGREE UPWARD DEFLECTION, AND NO. 26 OFF-WHITE FINISH.
D	WALL RETURN	TITUS CORE 50 ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR SURFACE MOUNTING WITH NO. 25 OFF-WHITE FINISH, O.B.D.
E	CEILING RETURN OR EXHAUST	TITUS CORE 50 ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, NO. 25 OFF-WHITE FINISH, O.B.D.

PACKAGE AIR CONDITIONING SCHEDULE			
DESIGNATION	HC-1	HC-2	HC-3
VOLTS/PHASE	480/3	480/3	480/3
F.L.A.	12.6	11.6	15.0
MCA/MOCP (AMPS)	14.7 / 20	11.9/15	15.2/20
SEER/EER @ ARI	14.0 / 11.8	14.0 / 11.8	-11
BLOWER			
SUPPLY AIR (CFM)	1800	1600	2400
EXT. S P (IN. WC)	1.00	1.00	1.00
MIN. O.S.A. (CFM)	155	160	325
DRIVE	BELT	BELT	BELT
NOTES	3	3	3
COOLING			
SENSIBLE (MBH)	46.5	35.1	64.7
TOTAL (MBH)	55.9	39.0	71.9
EADB/EAWB (0F)	80/64	80/64	80/64
AMBIENT AIR (0F)	105	105	105
HEATING			
INPUT CAPACITY (MBH)	72.0	72.0	72.0
OUTPUT CAPACITY (MBH)	59.1	59.1	59.1
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE (%)	82	82	82
FILTER			
QUANTITY/SIZE (RETURN)	2 / 16"x25"x2"	2 / 16"x25"x2"	4/16"x16"x2"
TYPE	FARR 30/30	FARR 30/30	FARR 30/30
QUANTITY/SIZE (OUTDOOR)	1 / 20"x24"x1"	1 / 20"x24"x1"	1/20"x24"x1"
TYPE	CLEANABLE	CLEANABLE	CLEANABLE
P D (IN WC)	0.1	0.1	0.1
MANUFACTURER			
CARRIER	CARRIER	CARRIER	CARRIER
TYPE			
GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECT
MODEL NUMBER			
48HED006	48HED006	48HED006	48HED007
LOCATION			
ROOF	ROOF	ROOF	ROOF
OPER. WT (LBS)			
795	725	800	
ACCESSORIES			
1	1	1, 2	

1. PROVIDE WITH FACTORY SLOPED ROOF CURB, FACTORY FULLY MODULATING ECONOMIZER WITH BARROMETRIC RELIEF DAMPER AND FACTORY COIL GUARDS.
2. PROVIDE WITH FACTORY INSTALLED AND WIRED SMOKE DETECTOR FOR AUTO FAN SHUTDOWN.
3. PROVIDE HIGH STATIC MOTORS OR FIELD SUPPLIED DRIVE SYSTEMS AS REQUIRED FOR PROPER FAN OPERATION.

EXHAUST FAN SCHEDULE		
DESIGNATION	EF-1	
AIR FLOW (CFM)	225	
EXT. S P (IN. WC)	0.25	
HP	1/4	
VOLTS/ PHASE	115/1	
RPM	832	
SONES	3.3	
DRIVE	BELT	
MOUNTING	ROOF	
MANUFACTURER		
GREENHECK		
TYPE		
CENTRIFUGAL		
MODEL NUMBER		
GB-081-4		
OPER. WT. (LBS)		
65		
START/STOP		
SEE NOTE 2		
ACCESSORIES		
1		

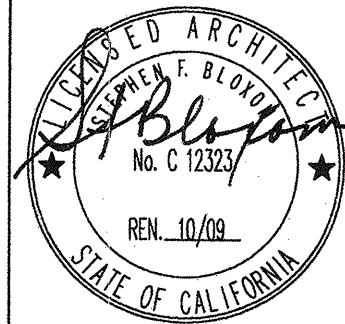
1. BIRD SCREEN, SOLID STATE SPEED CONTROLLER AND SLOPED ROOF CURB.
2. INTERLOCK WITH HC-3

MDC

MECHANICAL DESIGN CONCEPTS, INC.

1060 West Sierra Avenue Suite 101 Fresno, CA 93711

Tel: (559) 437-0376 Fax: (559) 437-0297 Job: 08040 Plt: 7-17-09



MECHANICAL SCHEDULES

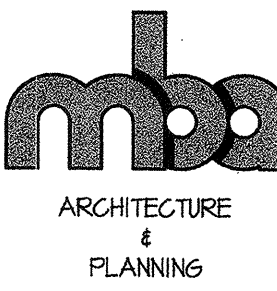
PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA

REVISIONS

JOB NUMBER: 080100
DATE: 4/8/2008

M-400

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[illegible][illegible][illegible]

PERFORMANCE CERTIFICATE OF COMPLIANCE		Part 2 of 3	PERF
PROJECT NAME SJV Pollution Control District Infill		DATE 7/20/2009	
ANNUAL TDY ENERGY USE SUMMARY (kBtu/year-ft²)			
ENERGY COMPONENT	Standard Design	Proposed Design	Compliance Margin
Space Heating	0.22	0.30	-0.10
Space Cooling	204.68	125.67	78.81
Indoor Fans	56.52	62.30	-3.78
Heat Rejection	0.02	0.00	0.00
Pumps & Misc.	0.03	0.00	0.00
Domestic Hot Water	0.00	0.00	0.00
Lighting	69.81	69.81	0.00
Receptacle	80.46	80.46	0.00
Process	62.15	52.19	0.00
TOTALS:	603.84	428.90	74.93
Percent better than Standard:		14.9% (- 18.2% including process)	
BUILDING COMPLEXES			
GENERAL INFORMATION			
Building Orientation	(N) 0.0deg	Conditioned Floor Area	3,624 sqft
Number of Stories	1	Unconditioned Floor Area	0 sqft
Number of Systems	3	Conditioned Footprint Area	0 sqft
Number of Zones	1	Fuel Type	Natural Gas
Front Elevation	Orientation (N) 0 sqft 0.0%	Gross Area	0 sqft 0.0%
Left Elevation	(E) 0 sqft 0.0%	Gaining Area	0 sqft 0.0%
Right Elevation	(E) 1,200 sqft 2.0%	Loss Area	24 sqft 2.0%
Right Elevation	(W) 189 sqft 0.0%	Loss Area	0 sqft 0.0%
Total	1,389 sqft 2.0%	Loss Area	24 sqft 1.7%
Roof	3,624 sqft 0.0%	Loss Area	0 sqft 0.0%
Lighting and Energy Use Summary			
Lighting Power Density	1.200 W/sqft	1.200 W/sqft	
Prescriptive Env. Heat Loss	332 Btu/h-ft²	332 Btu/h-ft²	
Prescriptive Env. Heat Gain	27.673 Btu/h-ft²	36.413 Btu/h-ft²	
Remarks:			
Run Initiation Time: 07/20/2009 21:17:14 Run Code: 1248149834			

AIR SYSTEM REQUIREMENTS		Part 1 of 2 MECH-2009																																																									
PROJECT NAME	SUV Pollution Control District Infill	DATE	7/20/2009																																																								
SYSTEM FEATURES																																																											
ITEM OR SYSTEM TAG(S) Number of Systems	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3" style="font-size: small;">AIR SYSTEMS, Central or Single Zone</th> </tr> <tr> <th style="width: 33%;">HC-1 West Perimeter</th> <th style="width: 33%;">HC-2 South Perimeter</th> <th style="width: 33%;">HC-3 Interior</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>1</td> </tr> </tbody> </table>			AIR SYSTEMS, Central or Single Zone			HC-1 West Perimeter	HC-2 South Perimeter	HC-3 Interior	1		1																																															
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MANDATORY MEASURES	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; font-size: x-small;">T-54 Section</th> <th colspan="3" style="font-size: x-small;">Reference on Plans or Specification ¹</th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">(11)30a</td> <td style="font-size: x-small;">82% AFUE</td> <td style="font-size: x-small;">82% AFUE</td> <td style="font-size: x-small;">82% AFUE</td> </tr> <tr> <td style="font-size: x-small;">(11)30b</td> <td style="font-size: x-small;">14.0 SEER / 11.5 EER</td> <td style="font-size: x-small;">14.0 SEER / 11.7 EER</td> <td style="font-size: x-small;">11.0 SEER</td> </tr> <tr> <td style="font-size: x-small;">(11)30c</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> </tr> <tr> <td style="font-size: x-small;">(11)30d, (11)50a</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> </tr> <tr> <td style="font-size: x-small;">(12)1(b)</td> <td style="font-size: x-small;">Yes</td> <td style="font-size: x-small;">Yes</td> <td style="font-size: x-small;">Yes</td> </tr> <tr> <td style="font-size: x-small;">(12)1(b)</td> <td style="font-size: x-small;">155 dftm</td> <td style="font-size: x-small;">95 dftm</td> <td style="font-size: x-small;">302 cfm</td> </tr> <tr> <td style="font-size: x-small;">(12)1e1</td> <td style="font-size: x-small;">No</td> <td style="font-size: x-small;">No</td> <td style="font-size: x-small;">No</td> </tr> <tr> <td style="font-size: x-small;">(12)1e2</td> <td style="font-size: x-small;">No</td> <td style="font-size: x-small;">No</td> <td style="font-size: x-small;">No</td> </tr> <tr> <td style="font-size: x-small;">(12)1f1, (12)2a</td> <td style="font-size: x-small;">Programmable Switch</td> <td style="font-size: x-small;">Programmable Switch</td> <td style="font-size: x-small;">Programmable Switch</td> </tr> <tr> <td style="font-size: x-small;">(12)2(a)</td> <td style="font-size: x-small;">Heating & Cooling Required</td> <td style="font-size: x-small;">Heating & Cooling Required</td> <td style="font-size: x-small;">Heating & Cooling Required</td> </tr> <tr> <td style="font-size: x-small;">(12)2(b)</td> <td style="font-size: x-small;">Auto</td> <td style="font-size: x-small;">Auto</td> <td style="font-size: x-small;">Auto</td> </tr> <tr> <td style="font-size: x-small;">(12)2(c)</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> <td style="font-size: x-small;">n/a</td> </tr> <tr> <td style="font-size: x-small;">(12)4</td> <td style="font-size: x-small;">R-6.0</td> <td style="font-size: x-small;">R-6.0</td> <td style="font-size: x-small;">R-6.0</td> </tr> </tbody> </table>			T-54 Section	Reference on Plans or Specification ¹			(11)30a	82% AFUE	82% AFUE	82% AFUE	(11)30b	14.0 SEER / 11.5 EER	14.0 SEER / 11.7 EER	11.0 SEER	(11)30c	n/a	n/a	n/a	(11)30d, (11)50a	n/a	n/a	n/a	(12)1(b)	Yes	Yes	Yes	(12)1(b)	155 dftm	95 dftm	302 cfm	(12)1e1	No	No	No	(12)1e2	No	No	No	(12)1f1, (12)2a	Programmable Switch	Programmable Switch	Programmable Switch	(12)2(a)	Heating & Cooling Required	Heating & Cooling Required	Heating & Cooling Required	(12)2(b)	Auto	Auto	Auto	(12)2(c)	n/a	n/a	n/a	(12)4	R-6.0	R-6.0	R-6.0
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(12)4	R-6.0	R-6.0	R-6.0																																																								
PRESCRIPTIVE MEASURES																																																											
Calculated Heating Capacity ² x 1.45 ¹	144 (A & B)	75,000 btuh	72,000 btuh																																																								
Proposed Heating Capacity ²	144 (A & B)	75,000 btuh	72,000 btuh																																																								
Calculated Sensible Cooling Capacity ² x 1.27 ¹	144 (A & B)	n/a	n/a																																																								
Proposed Sensible Cooling Capacity ²	144 (A & B)	51,499 btuh	41,388 btuh																																																								
Fan Control	144 (c)	Constant Volume	Constant Volume																																																								
DP Sensor Location	144 (c)																																																										
Supply Pressure Reset (DDC only)	144 (G)	Yes	Yes																																																								
Simultaneous Heat/Cool	144 (H)	No	Yes																																																								
Economizer	144 (I)	D/W Temp. Integrated	D/W Temp. Integrated																																																								
Heating Air Supply Control	144 (J)	Constant Temp.	Constant Temp.																																																								
Cooling Air Supply Control	144 (K)	Constant Temp.	Constant Temp.																																																								
ducting for Prescriptive Compliance	144 (L)	No	No																																																								

¹ For each central air conditioning system (or group of similar units) in the reference bid number and/or specifications section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.
² Not required for hydronic heating and cooling. Either enter a value per unit as part of reference and plots and specifications per footnote 1.
 N/A = Not in System to Comfy Units, Single Zone. Servant + Owner Unit has 25% duty in unconditioned space. Duct taking is required for Prescriptive Compliance, see HSPF for performance method duct calculation.

NOTE 1E - FIELD V. For Building Department Use Only
Run Initiation Time: 07/20/2009 21:17:14 Run Code: 124849834

PERFORMANCE CERTIFICATE OF COMPLIANCE		Part 1 of 3	PERF-
PROJECT NAME SJV Pollution Control District Infill		DATE 7/20/2009	
PROJECT ADDRESS Mark's Bloom and Fwy 41 Fresno			
PRINCIPAL DESIGNER, ARCHITECT Gentrys Blosom Architects, Inc.		TELEPHONE 559 226-6626	
DOCUMENTATION AUTHOR Mechanical Design Concepts, Inc.		TELEPHONE (559) 437-0376	
		☐ Building Permit # _____ ☐ Checked by Date ☐ Enforcement Agency Use	
GENERAL INFORMATION			
DATE OF PLANS 2008		BUILDING CONDITIONED FLOOR AREA 3,824 S.F.	
		CLIMATE ZONE 13	
BUILDING TYPE ☒ RESIDENTIAL		☐ HIGH RISE RESIDENTIAL	
PHASE OF CONSTRUCTION ☐ NEW CONSTRUCTION		☐ ADDITION	
		☐ HOTEL/MOTEL, GUEST ROOM	
		☐ EXTERIOR/ALTERATION/ALTERATION	
STATEMENT OF COMPLIANCE			
This Certificate of Compliance certifies that the building structure and performance measures comply with the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.			
The undersigned hereby certifies that the document is a true and correct copy of the original document.			
DOCUMENTATION AUTHOR MDC		DATE 7/20/09	
The Principal Designer hereby certifies that the proposed building as depicted in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted in connection with the proposed building as designed, meets the above efficiency requirements contained in sections 110, 116, through 118, and 140, 142, 143 or 144 of Title 24, Part 6.			
☐ I, ____ , LTD. ____ , hereby certify that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or am a licensed architect.			
☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code Section 5537.2 to 5537.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.			
☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because I pertain to a structure or type of work described as exempt pursuant to Business and Professions Code Section 5537, 5539, and (Manufacture). (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)			
ENVELOPE COMPLIANCE			
Indicate location on plans of Note Book for Mandatory Measures			
PRINCIPAL ENVELOPE DESIGNER - NAME Mark's Bloom Architects, Inc.		Required Forms ENV-1	
		SIGNATURE J.C. NO.	
		DATE 7/20/09	
LIGHTING COMPLIANCE			
Indicate location on plans of Note Book for Mandatory Measures		Lighting Compliance Not In The Scope Of This Submittal	
PRINCIPAL LIGHTING DESIGNER - NAME		Required Forms SIGNATURE	
		DATE J.C. NO.	
		DATE 7/20/09	
MECHANICAL COMPLIANCE			
Indicate location on plans of Note Book for Mandatory Measures			
PRINCIPAL MECHANICAL DESIGNER - NAME Mechanical Design Concepts		Required Forms MECH-1, MECH-2, MECH-3, MECH-5	
		DATE 7/20/09	
		DATE 7/20/09	
Run Initiation Time: 07/20/09 21:17:14		Run Count: 1248149834	

CERTIFICATE OF COMPLIANCE

MECH-4 FORM

PROJECT NAME	SJV Police Control District Infill	DATE	7/20/2009
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Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required check the boxes of all acceptance tests that apply and list all equipment that requires an acceptance test. If an equipment of a certain type appears in a listed equipment description and the number indicates it is to be tested in parentheses, The NU number designates the Section in the Appendix of the Nonresidential ACM Manual that describes this item. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agency approved by the owner). Since the last box will include the plan number, completion of this section will allow the responsible party to budget for the scope of work appropriate.

Building Departments:

SYSTEM ACCEPTANCE: Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices governing the building or space must be certified as meeting the Acceptance Requirements for Code Compliance.

In addition a Certificate of Acceptance, MECH-4-A Form shall be submitted to the building department that certifies plans, specifications, installations, calculations, and sequencing and construction information meet the requirements of Sections 10-030(b) and Title 24 Part 6.

STATEMENT OF COMPLIANCE

☒ MECH-2-A: Ventilation System Acceptance Document
Variable Air Volume Systems Outdoor Air Acceptance
Constant Air Volume Systems Outdoor Air Acceptance
Equipment requiring acceptance testing: **HC-1, HC-2, HC-3**

☒ MECH-3-A: Packaged HVAC Systems Acceptance Document
Equipment requiring acceptance testing: **HC-1, HC-2, HC-3**

☒ MECH-4-A: AS-Side Economizer Acceptance Document
Equipment requiring acceptance testing: **HC-1, HC-2, HC-3**

The respondent on the left system(s) has/have Committed and Permits.
The respondent on the left system(s) has/have Committed and Permits.
The respondent on the left system(s) has/have Committed and Permits. Units with exceptions that are installed at the factory and certified with the manufacturer do not require separate testing or full machine construction plans.

☒ MECH-5-A: Distribution Acceptance Document
Equipment requiring acceptance testing: **HC-1, HC-2, HC-3**

This has required full duct system 6.00E-2 square inches per sq ft and/or less than 1% of the ducts be reinforced or reinforced/sized up to the max. All systems that must have above representations. Record systems that must show above representations and other related ducts, replace ducts or system the indicated one.

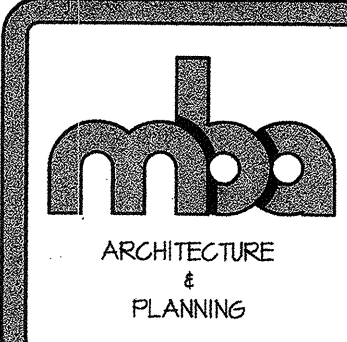
☒ MECH-6-A: Demand Control Ventilation Systems that meet the above representations and other related ducts, replace ducts or system the indicated one.
Equipment requiring acceptance testing:

All new DCV controls installed as new or existing packaged systems must be tested.

☒ MECH-7-A: Supply Fan Variable Flow Control Acceptance Document
Equipment requiring acceptance testing:

All new VAV fan units controls installed on new or existing systems must be tested.

☒ MECH-8-A: Hydronic System Control Acceptance Document
Variable Flow Controls Applies to chilled and hot water systems.
Automatic Isolation Controls Applies to steam boilers and oil and diesel powered burners connected to a secondary supply.
Water/Water Temperature Reset Controls Applies to Water Temperature Reset Controls.
Applies to non-recirc flow chilled and hot water systems that have a pressure gradient greater than one psi @ 100GPM flow.
Water Loop Thermal Storage Controls Applies if the thermal loop has any systems that are controlled by greater than 2 degrees F.
Variable Frequency Controls Applies to air conditioning fans or variable speed drives. Includes heat pumps or condenser water loops where the average pump is greater than 5 gpm.
Equipment requiring acceptance testing:



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**PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA**

[illegible]

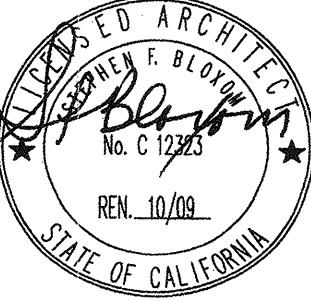
JOB NUMBER: 08107.00
DATE: 9/8/2008

M-500

CON DOCS

MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658

MDC
MECHANICAL DESIGN CONCEPTS, INC.
1060 West Sierra Avenue
Suite 101
Fresno, CA 93711
Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Plt: 7-17-09



TITLE 24

M-500
CON DOCS

4

3

2

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C

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A

MECHANICAL MANDATORY MEASURES Part 2 of 2 MECH-MM

PROJECT NAME SJV Pollution Control District Infill DATE 7/20/2009

Description Designer Enforcement

☒ §121(e) Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.☐ §122(i) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.☐ §122(j) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.☒ §121(f) Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or☐ §121(f)(2) Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or☐ §121(f)(3) Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display device; or☐ §121(f)(4) Another method approved by the Commission.

Service Water Heating Systems

☐ §121(b)(2) If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pumps) when hot water is not required.☐ §121(c) Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.

EnergyPro 4.4 by EnergySoft User Number: 5232 Job Number: 08040 Page 12 of 12

MECHANICAL MANDATORY MEASURES Part 1 of 2 MECH-MM

PROJECT NAME SJV Pollution Control District Infill DATE 7/20/2009

Description Designer Enforcement

Equipment and Systems Efficiencies

☐ §11 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.☐ §16(e) Fan type central furnaces shall not have a pilot light.☒ §123 Piping, except that conveying fluids at temperatures between 60 and 100 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.☒ §124 Air handling duct systems shall be installed and insulated in compliance with Sections 602, 603, 604, and 605 of the 2001 CMC Standards.

Controls

☐ §122(e) Each space conditioning system shall be installed with one of the following:☐ §122(e)(1A) Each space conditioning system serving building types such as office and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or☐ §122(e)(1B) An occupancy sensor to control the operating period of the system; or☐ §122(e)(1C) A 4-hour timer that can be manually operated to control the operating period of the system.☒ §122(e)(2) Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setpoint cooling thermostat setpoint.☐ §122(g) Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.☐ §122(a)(4) Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 3 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.☐ §122(c) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.☐ §122(b) Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.

EnergyPro 4.4 by EnergySoft User Number: 5232 Job Number: 08040 Page 11 of 12

ENVELOPE MANDATORY MEASURES ENV-MM

PROJECT NAME SJV Pollution Control District Infill DATE 7/20/2009

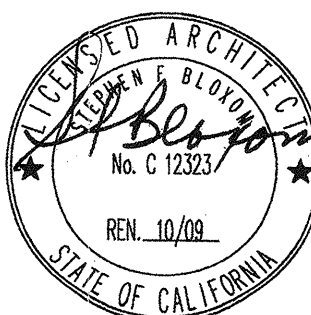
Description Designer Enforcement

☒ §118(a) Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 3.☒ §118(c) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2022 and 707 of Title 24, Part 2.☐ §117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.☐ §118(b) Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).☒ §118(d)(1) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-6 of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.☐ §118(e) Demising Walls in Nonresidential Buildings: The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.

EnergyPro 4.4 by EnergySoft User Number: 5232 Job Number: 08040 Page 10 of 12

MDC

MECHANICAL DESIGN CONCEPTS, INC.

1060 West Sierra Avenue
Suite 101
Fresno, CA 93711Tel: (559) 437-0376
Fax: (559) 437-0297
Job: 08040 Pjt: 7-17-09

TITLE 24

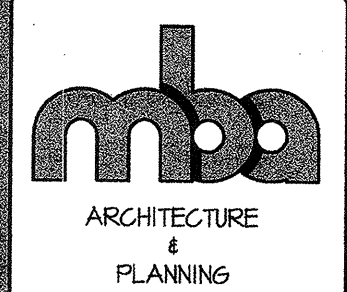
PROPOSED STORAGE FACILITY FOR:
SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT
FRESNO, CALIFORNIA

REVISIONS

JOB NUMBER: 080100
DATE: 9/8/2008M-501
CON DOCS

1-20-04 REMOVE MAKE/DOE

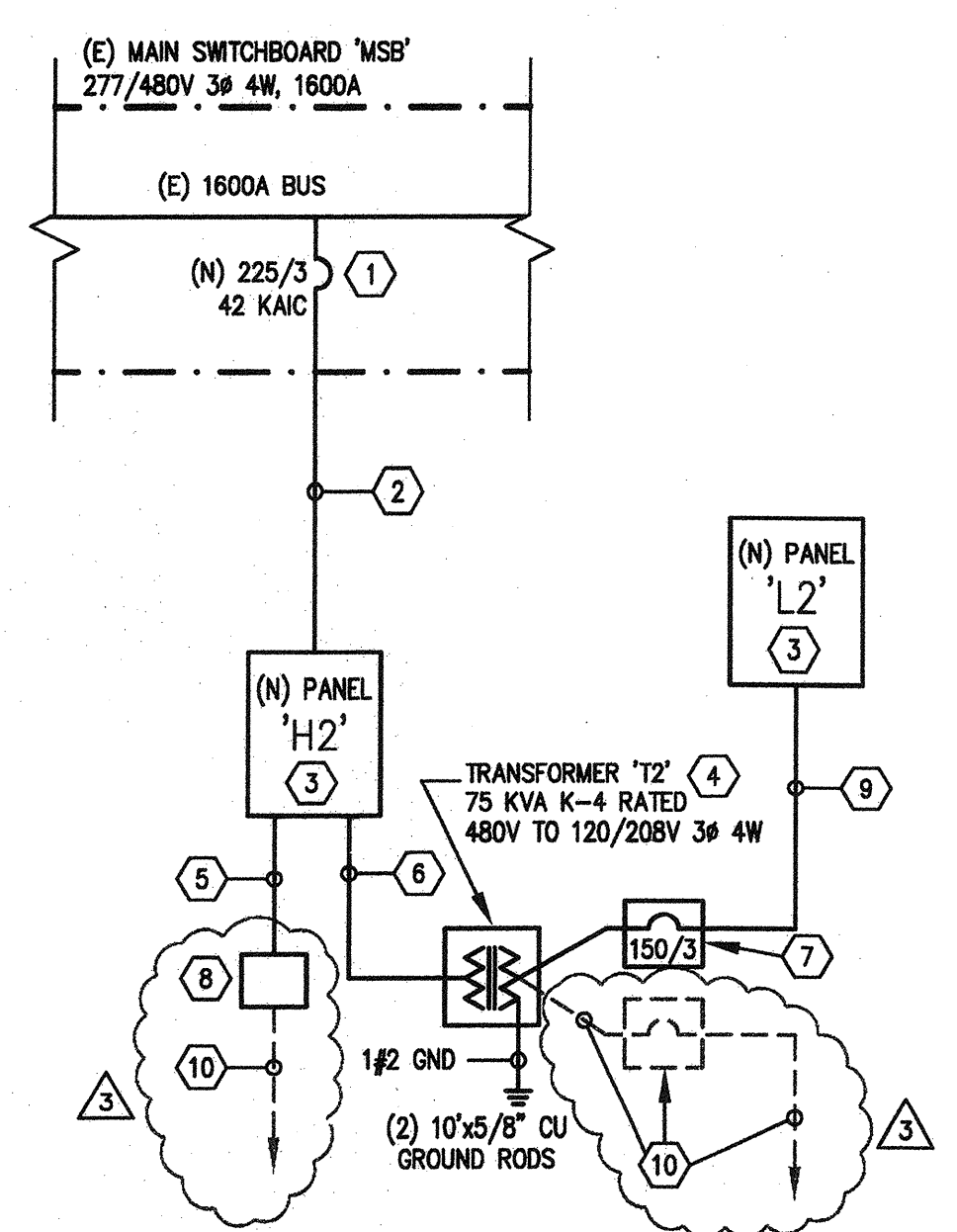
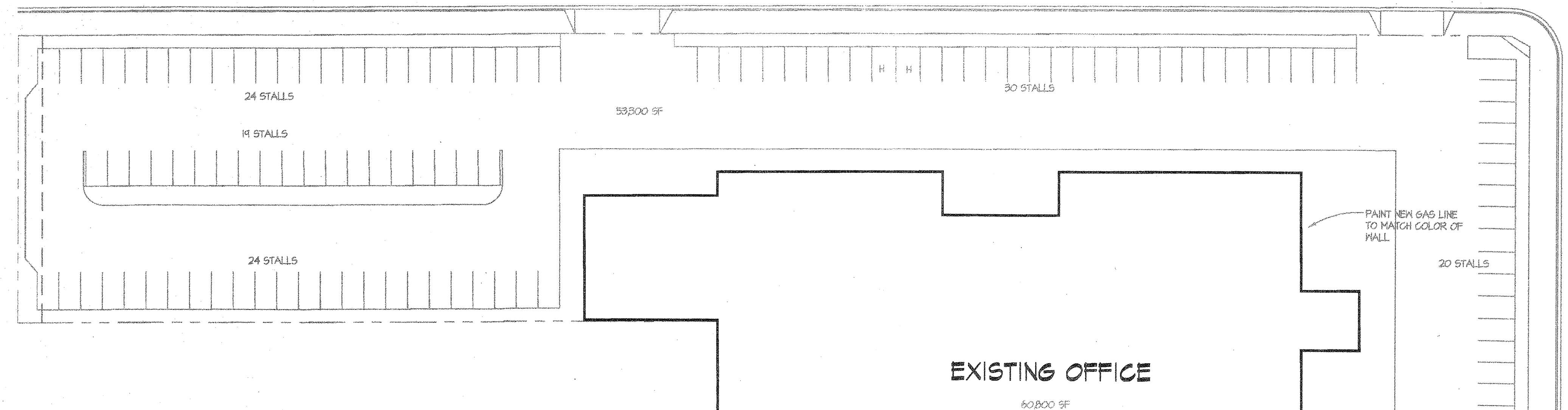
MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658



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D C B A

EAST GETTYSBURG AVENUE



SINGLE LINE DIAGRAM

GENERAL ELECTRICAL NOTES:

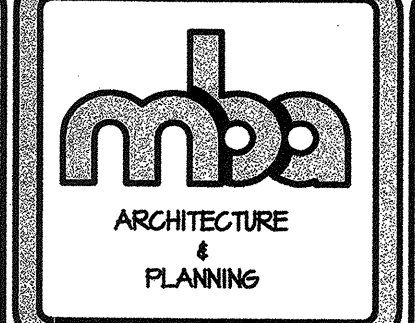
1. ALL WORK AND MATERIAL SHALL CONFORM TO LATEST ADOPTED NEC CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
2. ALL EQUIPMENT TO HAVE TESTING LABORATORY LABEL ATTACHED (U.L., C.S.A., ETC.)
3. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINE AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH OWNER AND GENERAL CONTRACTOR.
4. ALL WIRING SHALL BE CONCEALED IN CONDUIT, GALVANIZED RIGID STEEL IN EXPOSED LOCATIONS BELOW 10 FT AFF, EMT & FLEXIBLE CONDUIT IN CONCEALED OR DRY LOCATIONS & ABOVE 10 FT. AFF. & PVC SCHEDULE 40 FOR UNDERGROUND.
5. CONDUCTORS SHALL BE COPPER, STRANDED, TYPE THHN/THWN FOR SIZE NO. 6 AWG. AND SMALLER, TYPE THWN FOR SIZE LARGER THAN NO. 6 AWG.
6. VERIFY EXACT ROUTING LOCATION AND MOUNTING HEIGHT OF OUTLETS PRIOR TO ROUGH-IN. THE CONTRACTOR SHALL ARRANGE A MEETING WITH OTHER TRADES AND OWNER, VERIFY EXACT REQUIREMENT OF EQUIPMENT.
7. ELECTRICAL ROUTING IS DIAGRAMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITION MAY VARY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL ROUTING AND PROVIDE ALL RECONNECTIONS & ITEMS NECESSARY FOR COMPLETE & OPERATING SYSTEMS.
8. PROVIDE EQUALS FURNISH, INSTALL, AND MAKE ALL CONNECTIONS AS REQUIRED.
9. VERIFY ALL SECURITY EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN FOR INSTALLATION.

ELECTRICAL SYMBOLS:

- FLUORESCENT LIGHT FIXTURE, CEILING OR WALL MOUNTED
- FLUORESCENT LIGHT FIXTURE, CEILING OR WALL MOUNTED W/ EMERGENCY BATTERY BALLAST
- IO COMPACT FLUORESCENT OR H.I.D. LIGHT FIXTURE, CEILING OR WALL MOUNTED
- ★ CEILING PADDLE FAN
- ⊕ DUPLEX RECEPTACLE
- ⊕ WEATHERPROOF DUPLEX RECEPT. GFCI TYPE.
- ⊕ 208V RECEPTACLE AS NOTED
- ⚡ SINGLE POLE SWITCH, WALL MOUNTED +48\"/>

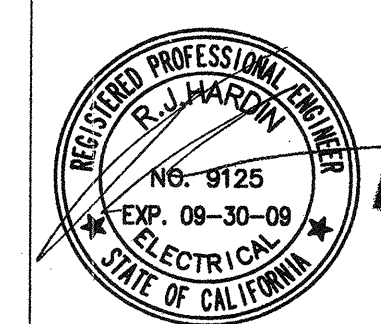
DRAWING KEY NOTES:

1. EXISTING MAIN SWITCHBOARD 'MSB', 277/480V 3Ø 4W, 1600A. PROVIDE NEW 225A/3P 42 KAIC CIRCUIT BREAKER.
2. PROVIDE NEW 3\"/>

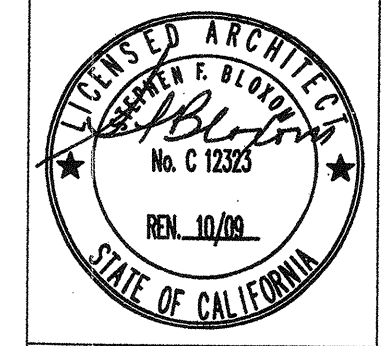


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PROPOSED TENANT IMPROVEMENT FOR:
SAN JOAQUIN VALLEY POLLUTION CONTROL DISTRICT
FRESNO, CALIFORNIA



Hardin Engineering Group, Inc.
275 Woodworth Ave., Suite 102, Clovis, CA 93612
Phone (559) 323-4895 Fax (559) 323-4828



ELECTRICAL SITE PLAN
1" = 30'

REVISIONS
07/20/06 REMODE WAREHOUSE

JOB NUMBER: 08107.00
DATE: 04/06/06

E-100
CON DOCS

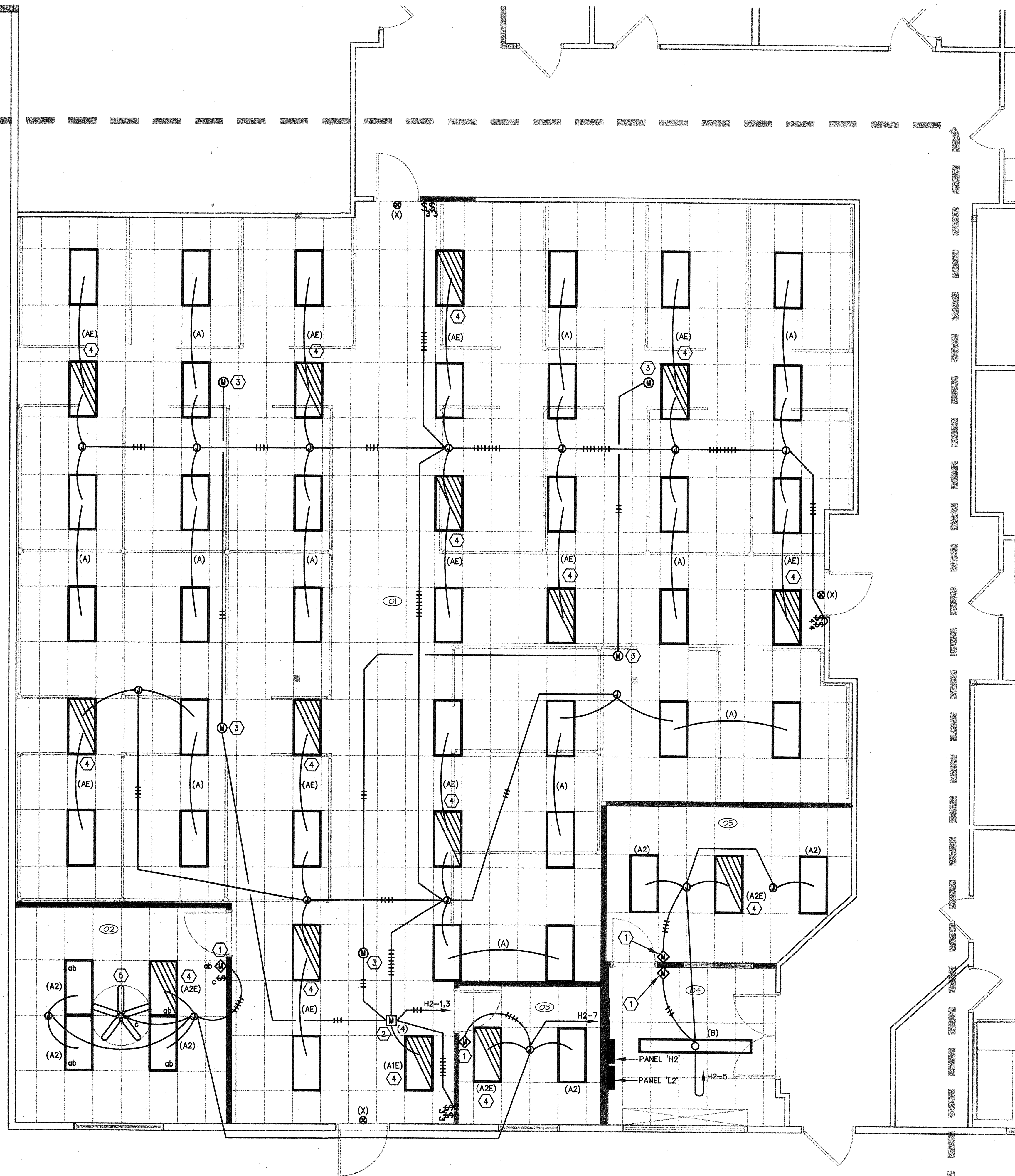
MARKS BLOXOM ARCHITECTS, INC. 555 W. SHAW AVE. B7 FRESNO, CA. (559) 226-6626 FAX (559) 226-6658

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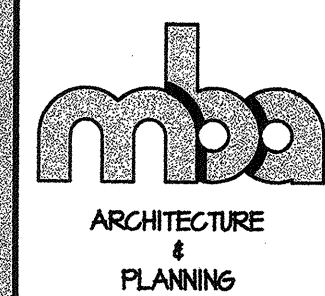
1



DRAWING KEY NOTES:

- 1 PROVIDE WALL MOTION SENSOR SWITCH.
- 2 PROVIDE MOTION SENSOR SWITCHPACKS.
- 3 PROVIDE CEILING MOTION SENSOR.
- 4 PROVIDE UNSWITCHED LINE FOR EMERGENCY BALLASTS FOR 1 FOOT CANDLE EGRESS LIGHTING.
- 5 PROVIDE OUTLET FOR CEILING FAN FURNISHED BY OWNER.

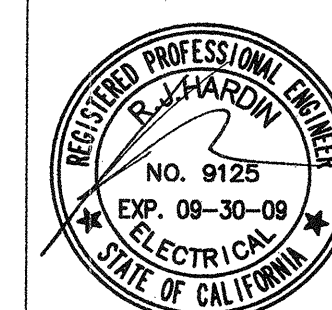
PROPOSED TENANT IMPROVEMENT FOR:
**SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT**
FRESNO, CALIFORNIA



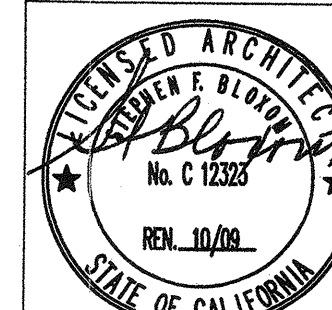
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ROOM SCHEDULE

- G1 GENERAL OFFICE AREA
- G2 DIRECTOR'S OFFICE
- G3 SUPERVISOR'S OFFICE
- G4 RECEIVING AREA
- G5 MAINTENANCE WORKER OFFICE



Hardin Engineering Group, Inc.
375 Woodworth Ave., Suite 101, Clovis, CA 93612
Phone (559) 323-4995 Fax (559) 323-4928



**ELECTRICAL
LIGHTING PLAN**
1/4"=1'-0"

REVISIONS

JOB NUMBER: 08101.00
DATE: 04/06/08

E-101

CON DOCS

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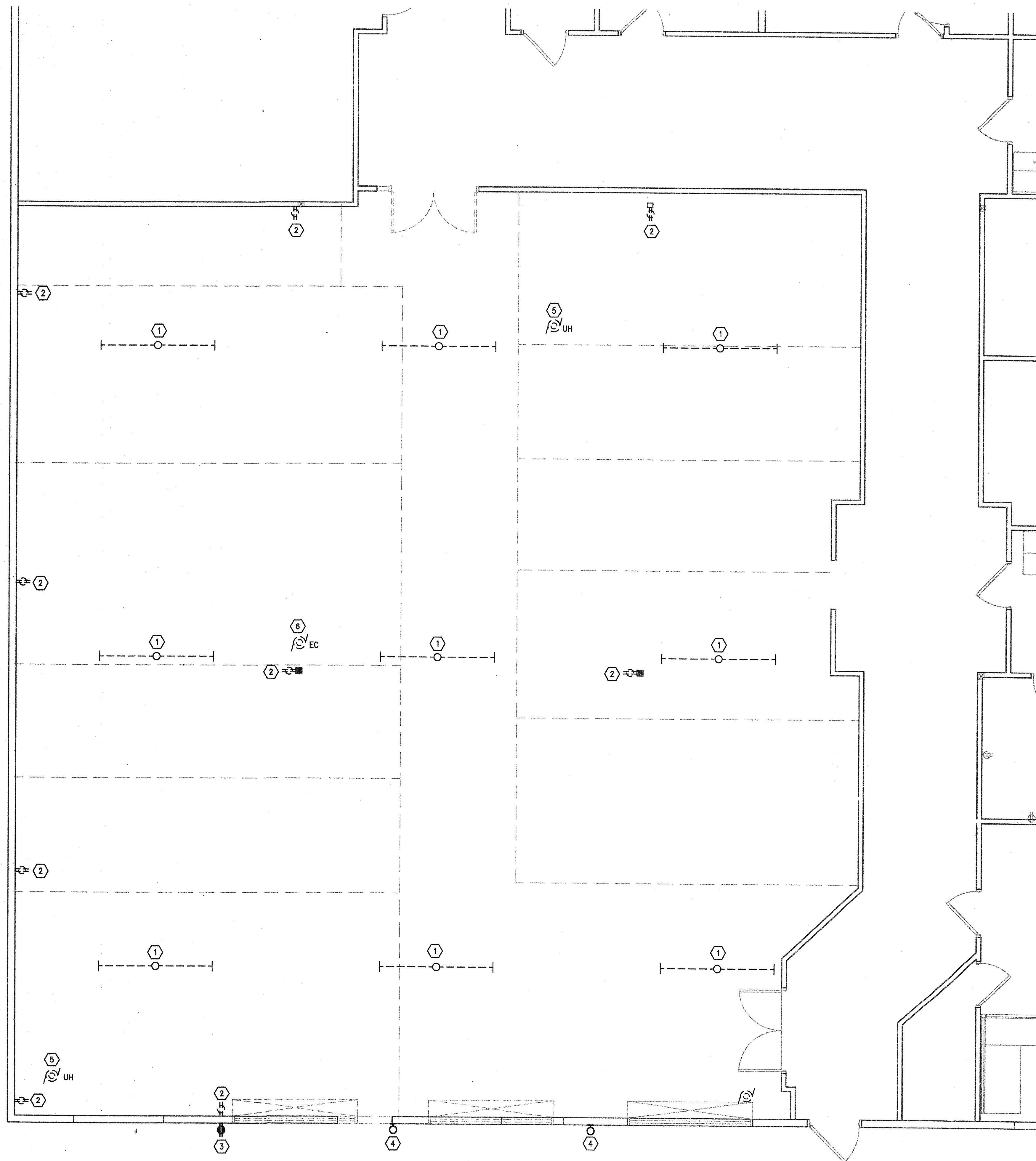
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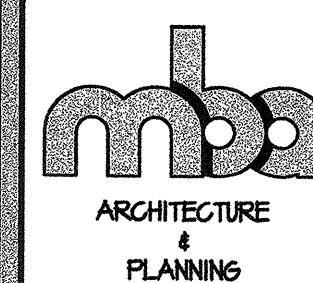
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KEYNOTES

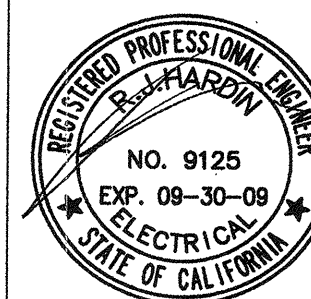
DRAWING KEY NOTES:

- ① DISCONNECT & REMOVE EXISTING LIGHT & SWITCHING. REMOVE CIRCUIT BACK TO SOURCE.
- ② DISCONNECT & REMOVE EXISTING RECEPTACLE. REMOVE CIRCUIT BACK TO SOURCE.
- ③ EXISTING RECEPTACLE TO REMAIN.
- ④ EXISTING LIGHT TO REMAIN.
- ⑤ DISCONNECT EXISTING UNIT HEATER & REMOVE CIRCUIT BACK TO SOURCE.
- ⑥ DISCONNECT EXISTING EVAP COOLER & REMOVE CIRCUIT BACK TO SOURCE.

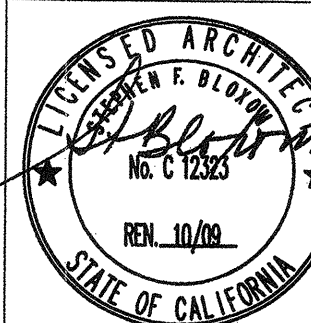


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PROPOSED TENANT IMPROVEMENT FOR: SAN JOAQUIN VALLEY POLLUTION CONTROL DISTRICT FRESNO, CALIFORNIA



Hardin Engineering Group, Inc.
375 Woodnorth Ave., Suite 101, Clovis, CA 93612
Phone (559) 324-6965 Fax (559) 324-4602



**ELECTRICAL
DEMO PLAN**
1/4"=1'-0"

REVISIONS

JOB NUMBER: 08101.00
DATE: 04/08/08

E-102
CON DOCS

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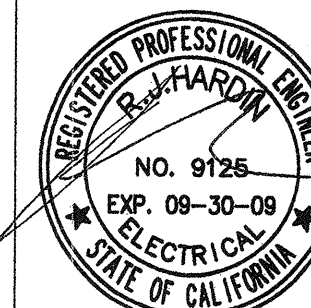
A

PANEL 'H2' SCHEDULE									
277/480V 3ø 4W INDOOR/SURFACE 18 KAIC									
CIRC NO	DESCRIPTION	BREAKER AMPS/POLE	WATTS	P H	WATTS	BREAKER AMPS/POLE	DESCRIPTION	CIRC NO	
1	LIGHTS GENERAL OFFICE	20 1	2700	A	3200	20 3	AC UNIT AC/1	2	
3	LIGHTS GENERAL OFFICE	20 1	1400	B	3200	—	—	4	
5	LIGHTS OFFICES 04 & 05	20 1	500	C	3200	—	—	6	
7	LIGHTS OFFICES 02 & 03	20 1	500	A	3400	20 3	AC UNIT AC/2	8	
9	SPACE	20 1	0	B	3400	—	—	10	
11	SPACE	20 1	0	C	3400	—	—	12	
13	SPACE ONLY	20 1	0	A	4500	30 3	AC UNIT AC/3	14	
15	SPACE ONLY	20 1	0	B	4500	—	—	16	
17	SPACE ONLY	20 1	0	C	4500	—	—	18	
19	SPACE ONLY	20 1	0	A	0	20 1	SPACE ONLY	20	
21	SPACE ONLY	20 1	0	B	0	20 1	SPACE ONLY	22	
23	SPACE ONLY	20 1	0	C	0	20 1	SPACE ONLY	24	
25	SPACE ONLY	20 1	0	A	0	20 1	SPACE ONLY	26	
27	SPACE ONLY	20 1	0	B	0	20 1	SPACE ONLY	28	
29	SPACE ONLY	20 1	0	C	0	20 1	SPACE ONLY	30	
31	SPACE ONLY	20 1	0	A	0	20 1	SPACE ONLY	32	
33	SPACE ONLY	20 1	0	B	0	20 1	SPACE ONLY	34	
35	SPACE ONLY	20 1	0	C	0	20 1	SPACE ONLY	36	
37	SUB PANEL 'H3'	60 3	3400	A	17400	100 3	SUB TRANSFORMER 'T2'	38	
39	—	—	3400	B	16800	—	—	40	
41	—	—	2900	C	14500	—	—	42	
TOTAL WATTS:		PHASE A 35100 WATTS		MAIN: 225A MLO					
		PHASE B 32500 WATTS							
		PHASE C 29000 WATTS							
TOTAL CONNECTED LOAD:		96.60 KW							
MAXIMUM AMPS PER PHASE:		126.71 AMPS							

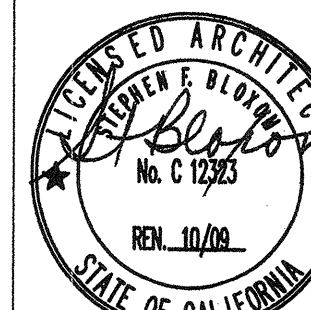
PANEL 'L2' SCHEDULE									
120/208V 3ø 4W INDOOR/SURFACE									
CIRC NO	DESCRIPTION	BREAKER AMPS/POLE	WATTS	P H	WATTS	BREAKER AMPS/POLE	DESCRIPTION	CIRC NO	
1	RECEPTACLES DIRECTORS OFFICE	20 1	1000	A	1000	20 1	RECEPTACLES RECEIVING	2	
3	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES SUPV. OFFICE	4	
5	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	RECEPTACLES MAINT. OFFICE	6	
7	RECEPTACLES GENERAL OFFICE	20 1	1000	A	1000	20 1	RECEPTACLES GENERAL OFFICE	8	
9	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES GENERAL OFFICE	10	
11	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	RECEPTACLES GENERAL OFFICE	12	
13	RECEPTACLES GENERAL OFFICE	20 1	1000	A	1000	20 1	RECEPTACLES GENERAL OFFICE	14	
15	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES GENERAL OFFICE	16	
17	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	RECEPTACLES GENERAL OFFICE	18	
19	RECEPTACLES GENERAL OFFICE	20 1	1000	A	1000	20 1	RECEPTACLES GENERAL OFFICE	20	
21	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES GENERAL OFFICE	22	
23	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	RECEPTACLES GENERAL OFFICE	24	
25	RECEPTACLES GENERAL OFFICE	20 1	1000	A	1000	20 1	RECEPTACLES GENERAL OFFICE	26	
27	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES GENERAL OFFICE	28	
29	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	RECEPTACLES GENERAL OFFICE	30	
31	RECEPTACLES GENERAL OFFICE	20 1	1000	A	1000	30 1	RECEPTACLES GENERAL OFFICE	32	
33	RECEPTACLES GENERAL OFFICE	20 1	1000	B	1000	20 1	RECEPTACLES GENERAL OFFICE	34	
35	RECEPTACLES GENERAL OFFICE	20 1	1000	C	200	20 1	EXHAUST FAN EF/1	36	
37	RECEPTACLES GENERAL OFFICE	20 1	1000	A	0	20 1	SPACE	38	
39	RECEPTACLES GENERAL OFFICE	20 1	1000	B	0	20 1	SPACE	40	
41	RECEPTACLES GENERAL OFFICE	20 1	1000	C	1000	20 1	GATE MOTOR	42	
TOTAL WATTS:		PHASE A 13000 WATTS		MAIN: 225A MLO					
		PHASE B 13000 WATTS							
		PHASE C 13200 WATTS							
TOTAL CONNECTED LOAD:		39.20 KW							
MAXIMUM AMPS PER PHASE:		110.00 AMPS							

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	VOLTS	WATTS
(A)	LITHONIA	2SPBG 332 A12125 MVOLT GEB10RS LST11	(6)FO32T8	277	172
(AE)	LITHONIA	2SPBG 332 A12125 MVOLT GEB10RS LST11 EL14	(6)FO32T8	277	172
(A1)	LITHONIA	2SPBG 332 A12125 MVOLT GEB10RS	(3)FO32T8	277	94
(A1E)	LITHONIA	2SPBG 332 A12125 MVOLT GEB10RS EL14	(3)FO32T8	277	94
(A2)	LITHONIA	2SPBG 232 A12125 MVOLT GEB10RS	(2)FO32T8	277	94
(A2E)	LITHONIA	2SPBG 232 A12125 MVOLT GEB10RS EL14	(2)FO32T8	277	94
(B)	LITHONIA	TS 232 MVOLT GEB10RS WG	(4)FO32T8	277	118
(C)	LITHONIA	TWH 175M TB	175MH	277	205
(X)	BPL	BPL101F S W S R (U.L. LISTED PHOTO LUM.)	---	---	---



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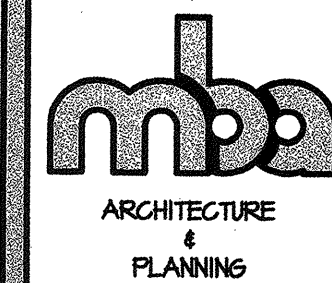
ELECTRICAL PLAN
SCALE AS INDICATED

PROPOSED TENANT IMPROVEMENT FOR:
**SAN JOAQUIN VALLEY POLLUTION
CONTROL DISTRICT**
FRESNO, CALIFORNIA

REVISIONS

JOB NUMBER: 08101.00
DATE: 04/08/08

E-104
CON DOCS



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