



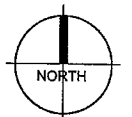
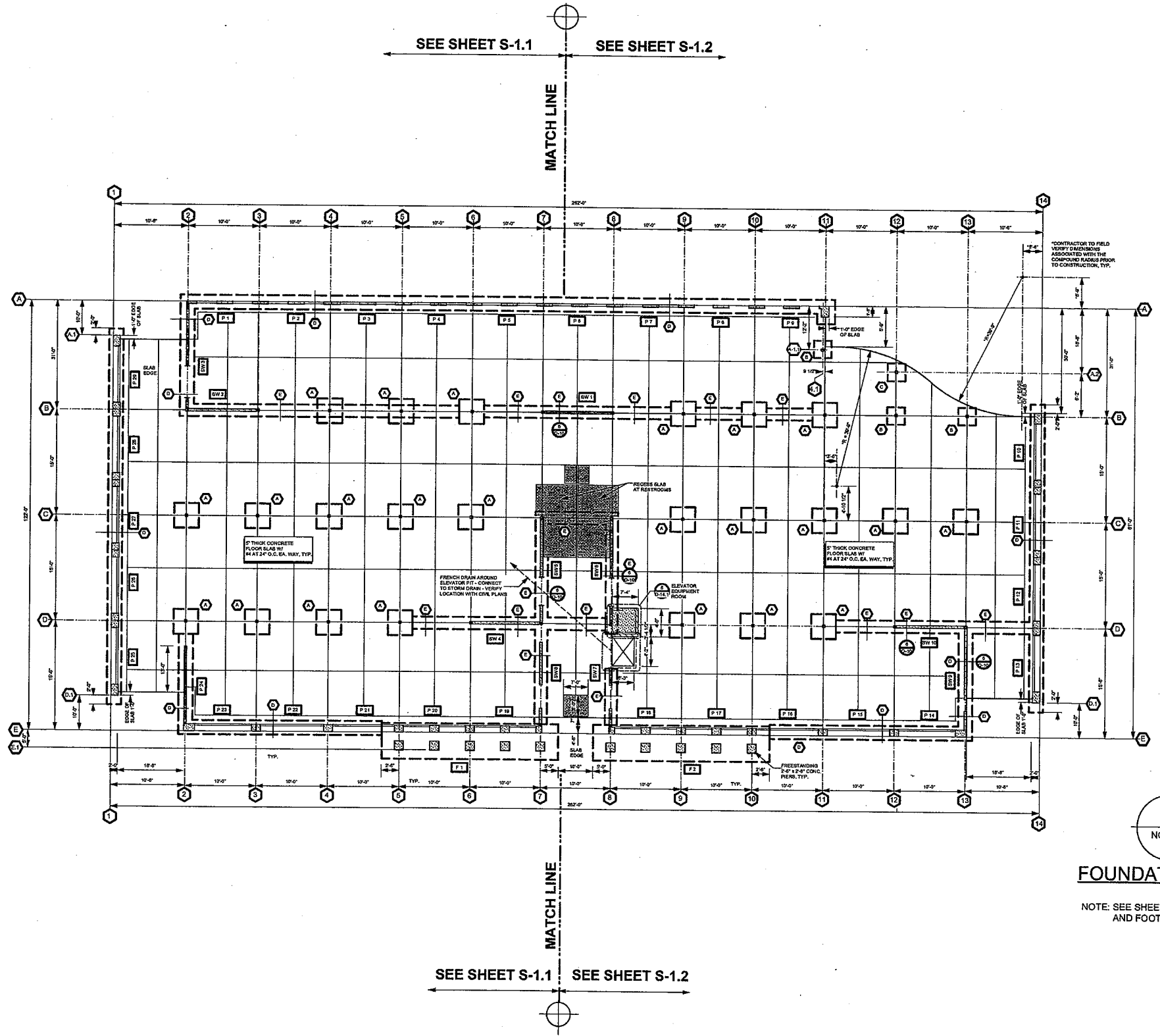
VINCENT DYER  
C 12762



G.O. DYER  
NO. 934

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Revisions



**FOUNDATION PLAN**  
SC: 1/16" = 1'-0"  
NOTE: SEE SHEET S-2 FOR NOTES AND FOOTING SCHEDULE

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
HOLLISTER AVE  
GOLETA, CA

**FOUNDATION PLAN**

Date:	11-18-09
Job:	0904
Drawn by:	
Sheet:	



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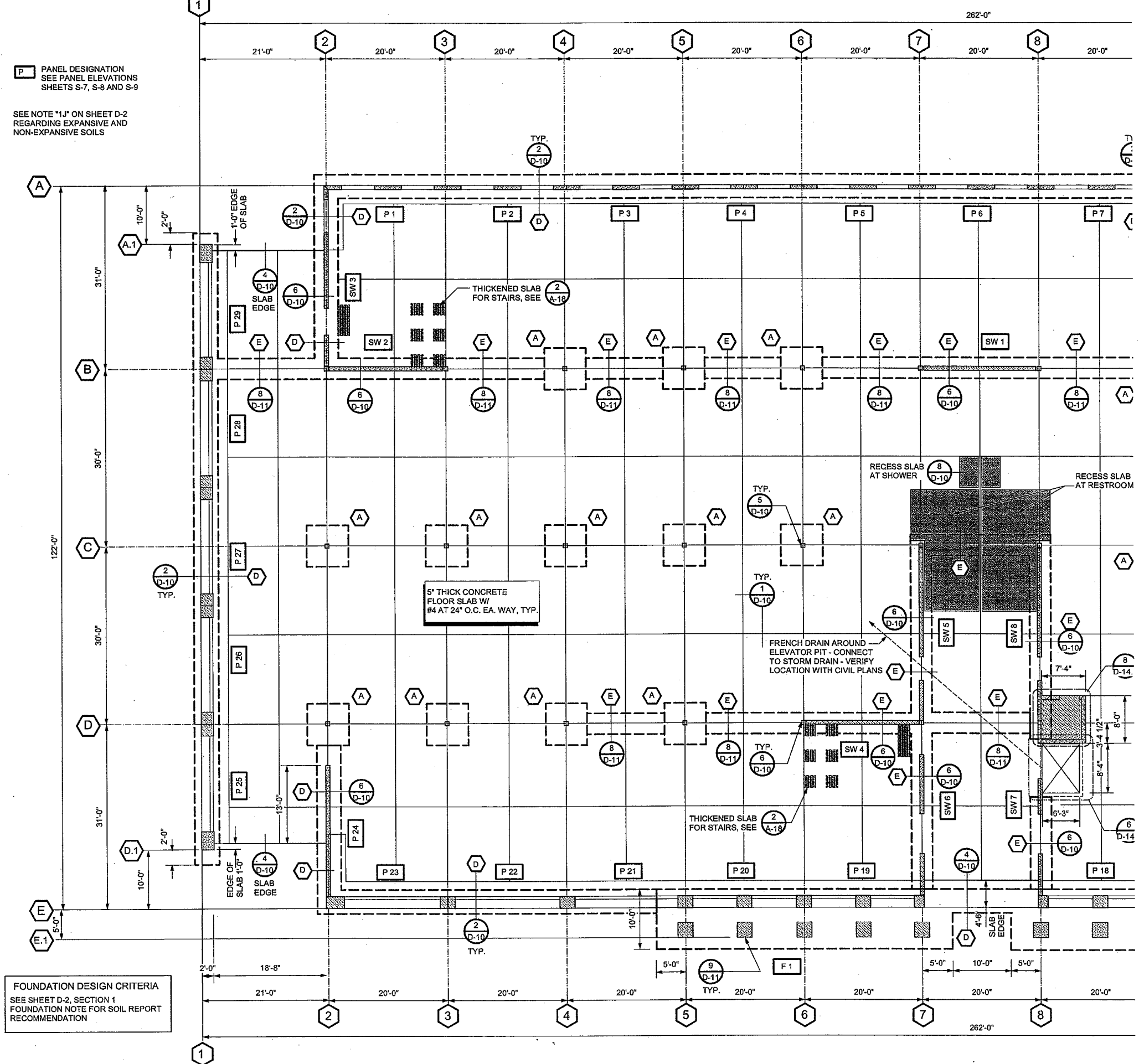
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Revisions

**P** PANEL DESIGNATION  
SEE PANEL ELEVATIONS  
SHEETS S-7, S-8 AND S-9

SEE NOTE "1J" ON SHEET D-2  
REGARDING EXPANSIVE AND  
NON-EXPANSIVE SOILS



**FOUNDATION DESIGN CRITERIA**  
SEE SHEET D-2, SECTION 1  
FOUNDATION NOTE FOR SOIL REPORT  
RECOMMENDATION

SEE SHEET S-1.2  
FOR CONTINUATION



**PARTIAL FOUNDATION PLAN**  
SC: 1/8" = 1'-0"

NOTE: SEE SHEET S-2 FOR NOTES  
AND FOOTING SCHEDULE

**CABRILLO  
BUSINESS PARK  
BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**FOUNDATION  
PLAN**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:

**S-1.1**





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Revisions


**FOUNDATION NOTES**

1. FINISH FLOOR ELEVATION SHALL BE: 24.66' (VERIFY WITH GRADING PLAN)
2. CONCRETE FLOOR SLAB WITHIN BUILDING, INCLUDING POUR STRIP TO BE 5" THICK REINFORCED WITH #4 @ 24" O.C. EACH WAY PLACED 2" FROM THE TOP SURFACE OVER 4" CLEAN SAND BASE. PLACE 15 MIL STEGO WRAP MOISTURE BARRIER 2" BELOW TOP OF SAND LAYER PER SOILS REPORT. THE SAND IS TO BE MOISTENED JUST PRIOR TO PLACING CONCRETE. THE MOISTURE BARRIER IS TO BE INSTALLED AND TESTED PER MANUFACTURERS RECOMMENDATIONS (GEN. CONTRACTOR TO VERIFY). CONTRACTOR TO VERIFY SLAB SECTION WITH THE SOILS REPORT.  
VAPOR BARRIER SHALL BE INSTALLED PER ASTM E 1643 STANDARD PRACTICE for INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS.  
CONCRETE FLOOR SLAB FLATNESS SHALL NOT EXCEED 3/16" (5MM) IN 10'-0" AS REQUIRED BY ASTM F 710 FOR FLOORS RECEIVING RESILIENT FLOORING (TROWEL FINISH).
3. CUT CONTROL JOINT WITH POWER BLADE. TO BE DONE AS SOON AS POSSIBLE (WITHIN 4 TO 8 HOURS) AFTER THE SLAB HAS BEEN PLACED AND FINISHED. THE SURFACE OF CONCRETE SHALL BE FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE. ANY RE-ENTRANT OF SKEWED CORNERS SHALL REQUIRE DIAGONAL CONTROL JOINTS TO PREVENT RUN OFF OF CRACKS TOWARD THE EDGES. THE PATTERN OF CONTROL JOINTS SHALL BE REVIEWED AND MODIFIED BY THE STRUCTURAL ENGINEER, IF THE CONTRACTOR CANNOT MEET THIS SCHEDULE.
4. TOP OF FOOTING TO BE PLACED 2" BELOW BOTTOM OF TILT-UP PANELS.
5. THE SAND BASE SHOULD BE CLASSIFIED AS A CLEAN SAND WITH LESS THAN 5% FINES IN ACCORDANCE WITH ASTM D2486-93.
6. PROVIDE (2) #4 x 4'-0" LONG DIAGONAL BARS AT RE- ENTRANT CORNERS - 6" APART & WITHIN 2" OF CORNER
7. ALL LONGITUDINAL BARS IF DISCONTINUED SHALL HAVE MINIMUM 36" EMBEDMENT INTO ADJACENT FOOTING
8. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE THE FOUNDATION PLAN FOR CONFORMATION WITH THE INTENT OF THE SOILS INVESTIGATION REPORT PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.
9. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED TWO (2) DAYS IN ADVANCE TO OBSERVE SITE CLEANING OR GRADING OPERATIONS AND THE STRIPPING OF DELETERIOUS MATERIAL.
10. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE SOIL CONDITION AFTER FOUNDATION EXCAVATION AND SUBMIT SUBGRADE VERIFICATION REPORT TO JDO / Dyer, LLP.
11. THE CONTRACTOR SHALL DISTRIBUTE THE LOAD ON THE SLAB DURING RIGGING AND ERECTION OPERATION OF THE PANELS TO PREVENT CRACKING OF THE SLAB AND YIELDING OF THE SUB-GRADE.
12. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND APPROVED BY THE PROJECT ENGINEERING GEOLOGIST AND / OR PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.

THIS AREA INTENTIONALLY LEFT BLANK

COLUMN & FOOTING SCHEDULE					
MARK	COLUMN / WALL	FTG.	THK.	REINFORCEMENT	REMARKS
A	HSS 8 x 8 x 1/4	7'-0" SQ.	27"	#5 AT 12" O.C. EA. WAY TOP AND BOTTOM	---
B	HSS 8 x 8 x 1/4	6'-0" SQ.	27"	#5 AT 12" O.C. EA. WAY TOP AND BOTTOM	---
C	HSS 8 x 8 x 1/4	4'-0" SQ.	27"	#5 AT 12" O.C. EA. WAY TOP AND BOTTOM	---
D	CONCRETE WALL (EXTERIOR)	4'-0" CONT.	1'-5"	#5 AT 12" O.C. EA. WAY TOP AND BOTTOM	---
E	CONCRETE WALL (INTERIOR)	5'-0" CONT.	27"	#5 AT 12" O.C. EA. WAY TOP AND BOTTOM	PROVIDE #3 HOOP TIES AT 12" O.C.

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**FOUNDATION NOTES AND SCHEDULE**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet :





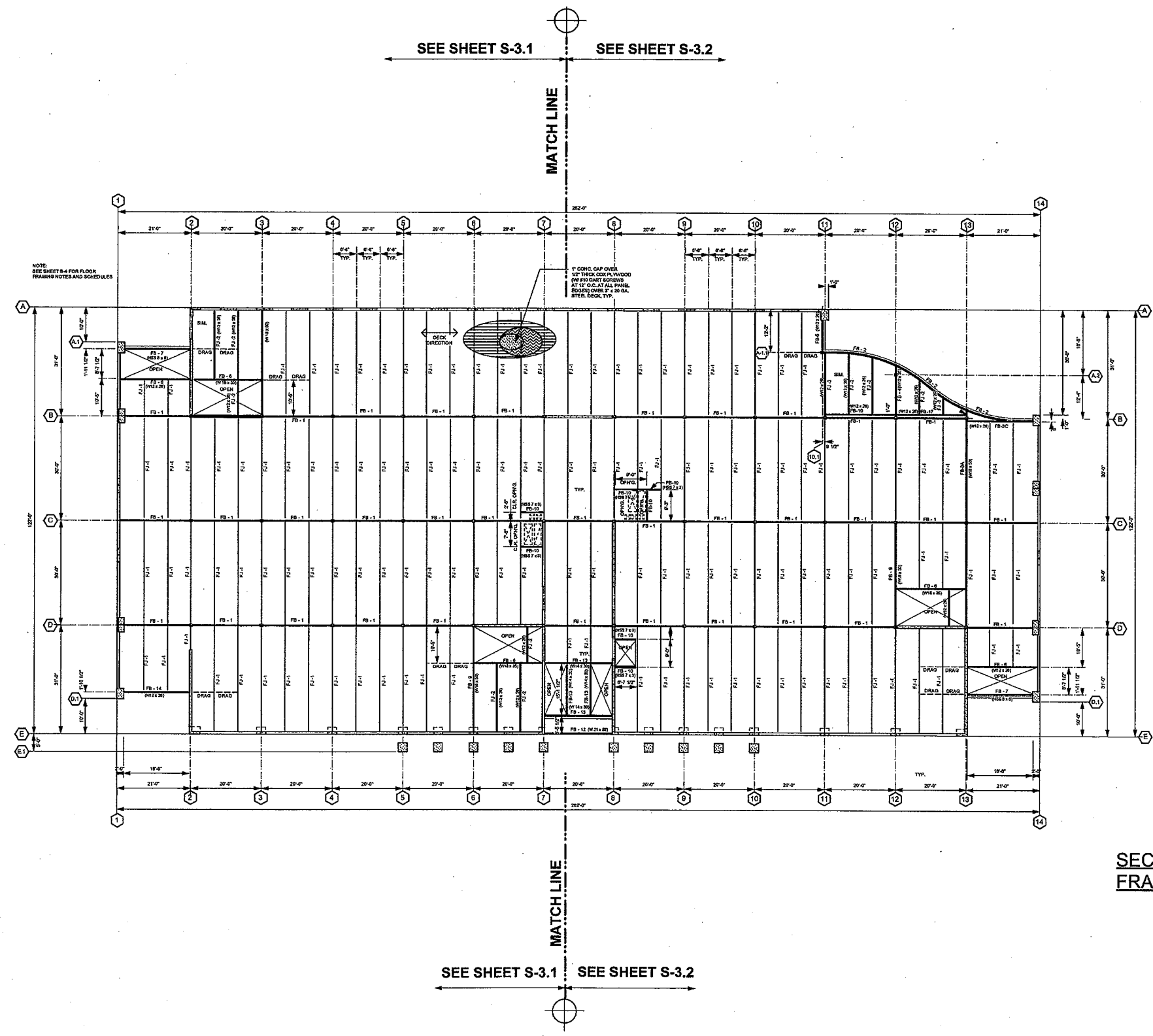
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Revisions

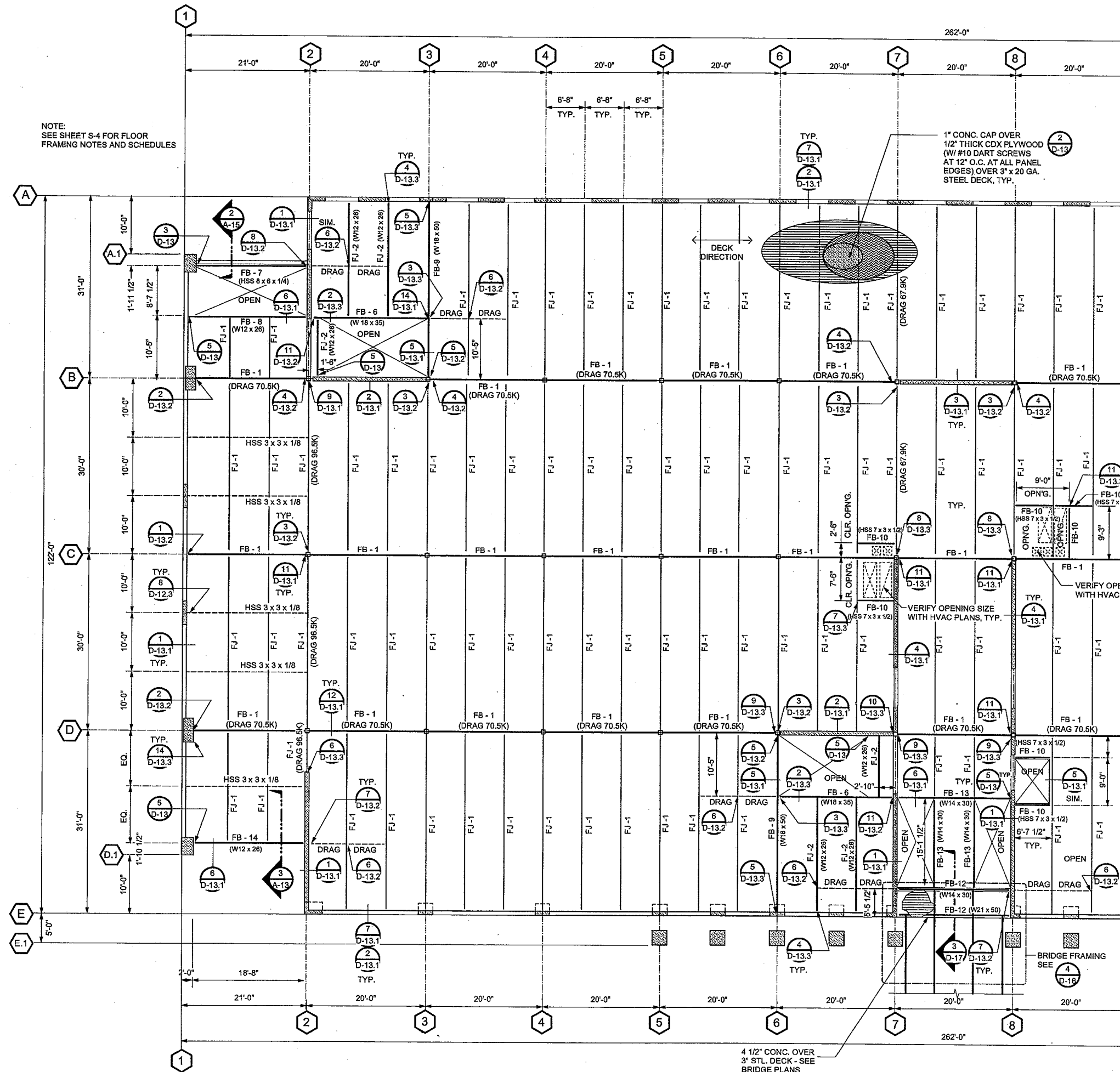


**SECOND FLOOR  
 FRAMING PLAN**  
 SC: 1/8" = 1'-0"

**CABRILLO  
 BUSINESS PARK  
 BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

**SECOND FLOOR  
 FRAMING PLAN**

Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet:

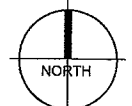


NOTE:  
SEE SHEET S-4 FOR FLOOR  
FRAMING NOTES AND SCHEDULES

262'-0"

262'-0"

SEE SHEET S-3.2  
FOR CONTINUATION



**PARTIAL SECOND FLOOR  
FRAMING PLAN**  
SC: 1/8" = 1'-0"

**JDO Dyer**

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Phone 818.706.3997  
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EXPIRES 12-31-10

Revisions

**CABRILLO  
BUSINESS PARK  
BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**SECOND FLOOR  
FRAMING PLAN**

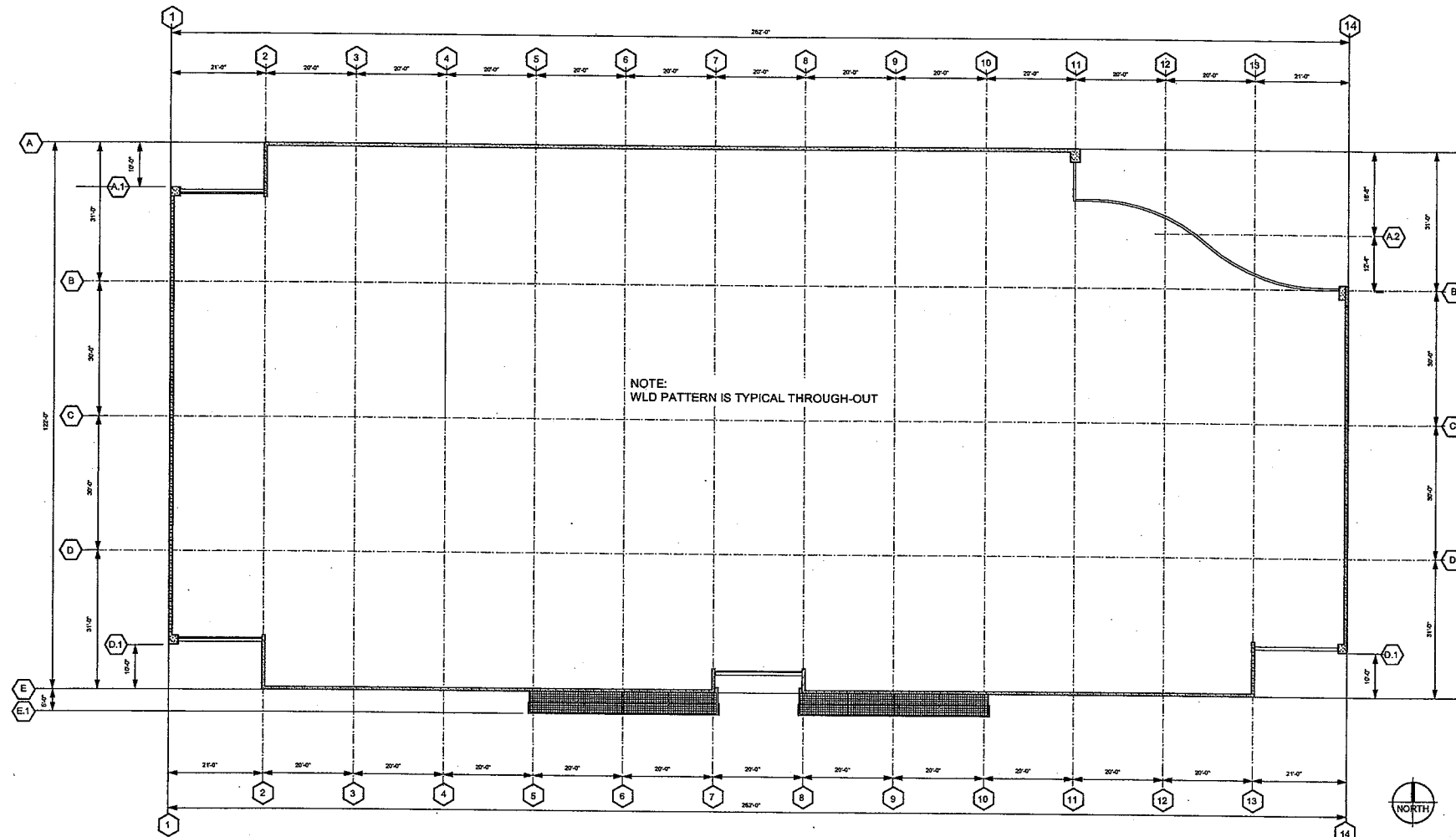
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Sheet:

**S-3.1**



FLOOR BEAM SCHEDULE (FB)		
MARK	BEAM SIZE	REMARKS
FB-1	20 G3N 27.1 K	DRAG FORCE 51.0K U.N.O. ON PLANS
FB-2	HSS 12 x 4 x 5/16	---
FB-3A	W18 x 50	---
FB-3B	W12 x 40	---
FB-3C	W12 x 26	---
FB-4	W12 x 35	---
FB-5	W12 x 26	---
FB-6	W18 x 35	---
FB-7	HSS 8 x 6 x 1/4 (L.S.V.)	---
FB-8	W12 x 26	---
FB-9	W18 x 50	---
FB-10	HSS 7 x 3 x 1/2 (L.S.H.)	---
FB-11	NOT USED	---
FB-12	W21 x 50	---
FB-13	W14 x 30	---
FB-14	W12 x 26	---
FB-15	NOT USED	---

FLOOR BEAM SCHEDULE (FB)		
MARK	BEAM SIZE	REMARKS
FB-16	W12 x 26	---
FB-17	W12 x 26	---
FJ-1	20 LH (847 / 567) (OPEN WEB)	DRAG FORCE 10.0 K U.N.O. ON PLANS
FJ-2	W12 x 26	---



2ND. FLOOR WELD PATTERN ZONE PLAN  
N.T.S.

**DEFERRED SUBMITTAL: STEEL JOISTS AND JOIST GIRDERS**

- THE STEEL JOIST MANUFACTURER SHALL SUBMIT SHOP DRAWING'S (JOIST AND JOIST GIRDER PLACEMENT PLANS) TO BE REVIEWED BY THE ENGINEER OF RECORD. UPON REVIEW, (3) THREE SETS OF THE PLACEMENT PLANS AND STRUCTURAL DESIGN CALCULATIONS SHALL BE SUBMITTED TO THIS OFFICE AND THE ENGINEER OF RECORD SHALL AFFIX:
  - A PROFESSIONAL ENGINEERS SEAL AND SIGNATURE TO THE PLACEMENT PLAN.
  - A "REVIEWED" STAMP AND SIGNATURE TO THE CALCULATIONS (THE CALCULATIONS SHALL HAVE THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR PREPARING THE CALCULATIONS).
- THREE (3) SIGNED SETS WILL BE RETURNED TO THE CONTRACTOR, WHO WILL BE RESPONSIBLE FOR SUBMITTING TO BUILDING AND SAFETY FOR FINAL APPROVAL.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- JOISTS SHALL BE DESIGNED FOR OVER STRENGTH FACTOR ( $\Omega_o = 2.5$ ) AND SPECIAL LOAD COMBINATION (ASCE 7-05 SECT. 12.10.2.1 AND 12.4.3.2 AND CBC 2007 SECTION 1605.2 AND 1605.3).

FLOOR DESIGN LOADS	
FLOOR DEAD LOAD:	48 PSF (INCLUDES 15 PSF PARTITION LOAD)
LIVE LOAD:	85 PSF
TOTAL LOAD:	131 PSF
LIVE LOAD DEFLECTION:	L / 480
LIVE LOAD SHALL BE POSTED BY THE OWNER PER 2007 CBC SEC. 1603.3	

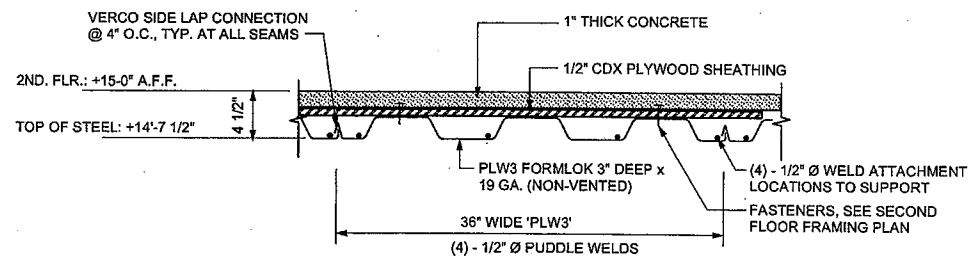
**FLOOR DECK CONSTRUCTION NOTES:**

- FLOOR DECK SHALL BE PLW3-36 FORMLOK DECK, 3" DEEP, NON-VENTED, PHOSPHATIZED TOP SIDE AND PAINTED BOTTOM SIDE, MIN. GAGE 19 (U.N.O. ON WELD PATTERN ZONE PLAN) BY VERCO (I.C.B.O. #ER-2078P)
 
$$I = 1.075 \text{ IN}^4 + S = 0.674 \text{ IN}^3 - S = 0.683 \text{ IN}^3$$
- WELDING: DECK SHALL BE ATTACHED TO THE STRUCTURAL MEMBER AS PER MANUFACTURER'S RECOMMENDATION AND SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON FRAMING PLANS:
 

WELD PER PANEL AT SUPPORTS: (4) NUMBERS OF 1/2" Ø ARC SPOT PUDDLE WELDS PER 36" WIDE PANEL END.  
PARALLEL TO DECK: 1/2" Ø PUDDLE WELD @ 12" O.C. (U.N.O.) ON PLANS.  
SIDE ATTACHMENT:  
SIDE LAP CONNECTION SHALL BE PER VERCO SIDELAP CONNECTION SYSTEM (VSC). THE CONNECTION SHALL BE DONE BY PUNCHLOK TOOLS AND IS REFERRED TO IN PLANS AS "VSC". SEE WELDING PATTERN ZONE PLAN FOR SPACING. (SPECIAL INSPECTION REQUIRED)
- INSULATING CONCRETE: LIGHTWEIGHT INSULATING CONCRETE SHALL CONTAIN REDCOLITE CONCRETE AGGREGATE THAT CONFORMS TO ASTM C332, SHALL BE 1:2 MIX, AND SHALL NOT WEIGH MORE THAN 80 PCF DRY (110 PCF WET). THE COMPRESSIVE STRENGTH SHALL BE 1500 - 2000 PSI IN 28 DAYS. THE MIX SHALL CONTAIN 1 1/2 LBS. OF POLY-PROPYLENE P1510 PER SACK OF CEMENT, SUPPLIED BY HILL BROTHER CHEMICAL LOCATED IN THE CITY OF INDUSTRY, TEL. 1-800-322-4119.

**FRAMING NOTES:**

- FOR FLOOR DECK CONSTRUCTION SEE DETAIL BELOW.
- FOR DECK WELDING PATTERN ZONES, SEE THIS SHEET.
- PLYWOOD SHEETS OVER STEEL DECK SHALL BE INSTALLED WITH #10 x 1" LONG DART BRAND SELF-TAPPING SCREWS WITH SHARP POINT, (I.C.B.O. # ER-5202) BY COMPASS INTERNATIONAL (714-739-1023) @ 12" O.C. EDGES AND 12" O.C. FIELD, U.N.O. ON WELD ZONE PATTERN PLAN.
- THE CONTRACTOR SHALL COMPLY WITH THE LATEST CAL - OSHA CONSTRUCTION AND ERECTION REGULATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL MECHANICAL EQUIPMENT WITH APPROVED MECHANICAL PLANS PRIOR TO CUTTING OF OPENINGS IN THE STEEL DECK.
- PRIOR TO CASTING CONCRETE, OPENINGS SHALL BE FORMED WITH 20 GA. 1 1/2" HIGH EDGE FORM.
- OPENING'S LESS THAN 6" DIA. AND CUTTING NO MORE THAN ONE WEB, DOES NOT REQUIRE REINFORCING.
- OPENING'S LESS THAN 24 INCHES WIDE AND CUT PERPENDICULAR TO DECK WEB, SHALL REQUIRE 2 x 2 x 1/4 ANGLE AT UNDERSIDE OF DECK WELDED TO EA. WEB ON BOTH SIDES OF ANGLE AND SHALL EXTEND A MINIMUM OF (3) THREE WEB WIDTHS OR 24 INCHES BEYOND THE EDGE OF OPENING, WHICHEVER IS LARGER.
- OPENING'S MORE THAN 24 INCHES AND LESS THAN 3'-6" CUT PERPENDICULAR TO DECK WEB SHALL REQUIRE 1 1/2 x 3 x 1/8 STEEL TUBE PLACED ON TOP DECK (INSIDE FLUTES), WELDED AT EACH WEB WITH 1/8" FILLET WELD, 1/2 INCH LONG ON BOTH SIDES, EXTENDING FROM JOIST TO JOIST WITH FULL BEARING ON TOP CHORD. NO OTHER OPENING SIZES ARE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- NO DUCT OR ELECTRICAL CONDUIT SHALL BE EMBEDDED IN THE CONCRETE TOPPING.
- DECK SHALL BE INSTALLED TO REQUIRED ELEVATION.
- THE CONTRACTOR SHALL SCORE THE CONCRETE TOPPING AT 10'-0" MAX. EACH WAY AT TOP OF MAIN BEAMS OR GIRDERS.
- CONTRACTOR TO VERIFY WITH JOIST VENDOR ALL AUXILLARY WEB REQUIREMENTS.



FLOOR DECK CONSTRUCTION



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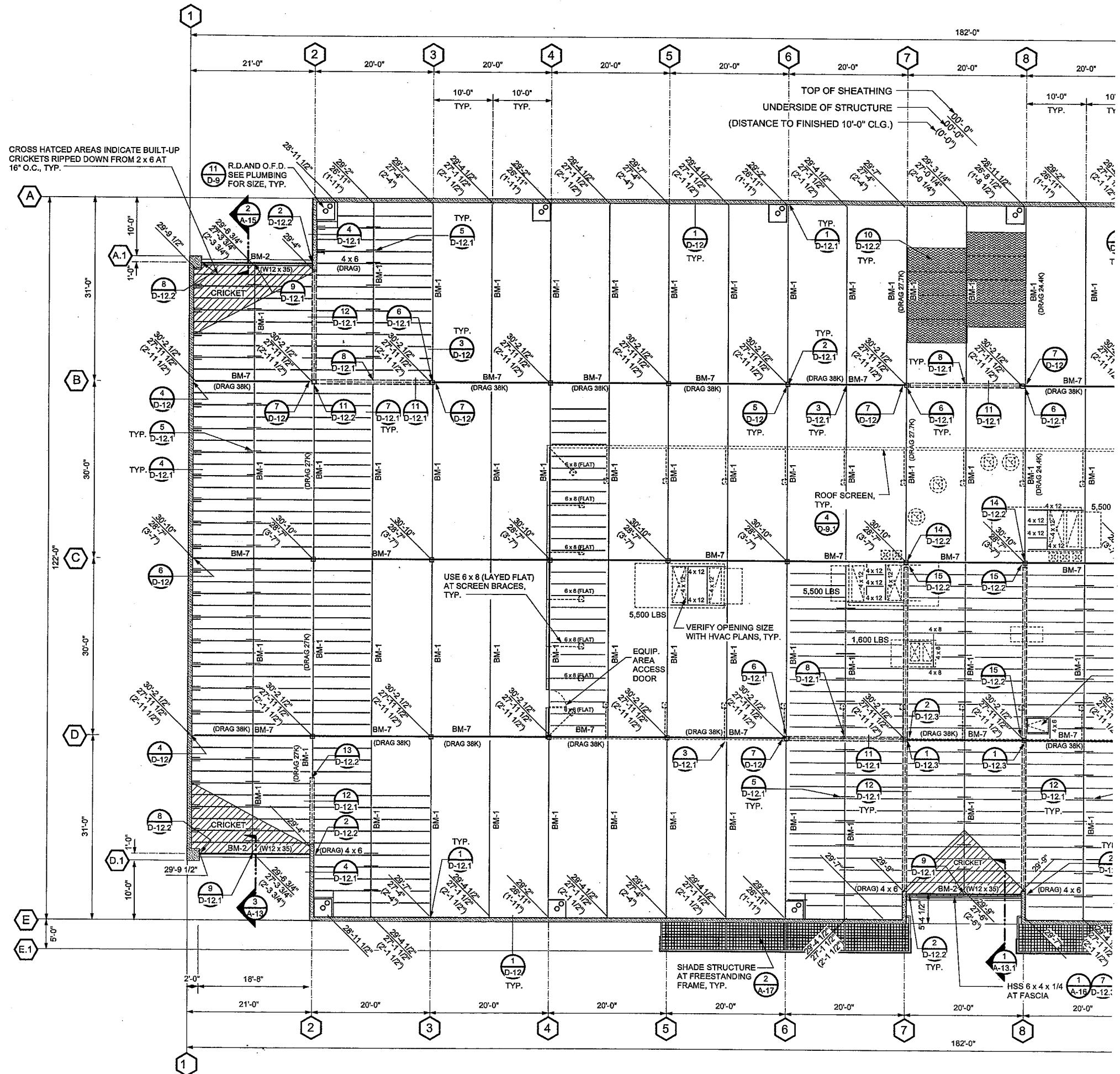
**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

2ND. FLOOR FRAMING NOTES & SCHEDULE

Date: 11-18-09  
Job: 0904  
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Sheet:





CROSS HATCHED AREAS INDICATE BUILT-UP CRICKETS RIPPED DOWN FROM 2 x 6 AT 16" O.C., TYP.

11 R.D. AND O.F.D. SEE PLUMBING FOR SIZE, TYP.

TOP OF SHEATHING  
UNDERSIDE OF STRUCTURE  
(DISTANCE TO FINISHED 10'-0" CLG.)

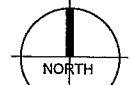
USE 6 x 8 (LAYED FLAT) AT SCREEN BRACES, TYP.

VERIFY OPENING SIZE WITH HVAC PLANS, TYP.

SHADE STRUCTURE AT FREESTANDING FRAME, TYP.

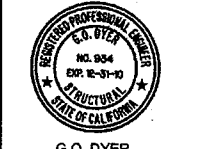
HSS 6 x 4 x 1/4 AT FASCIA

SEE SHEET S-5.2 FOR CONTINUATION

  
 NORTH  
 SC: 1/8" = 1'-0"  
**PARTIAL ROOF FRAMING PLAN**  
 NOTE:  
 SEE SHEET S-6 FOR TYPICAL NOTES, BEAM SCHEDULE AND NAILING SCHEDULE



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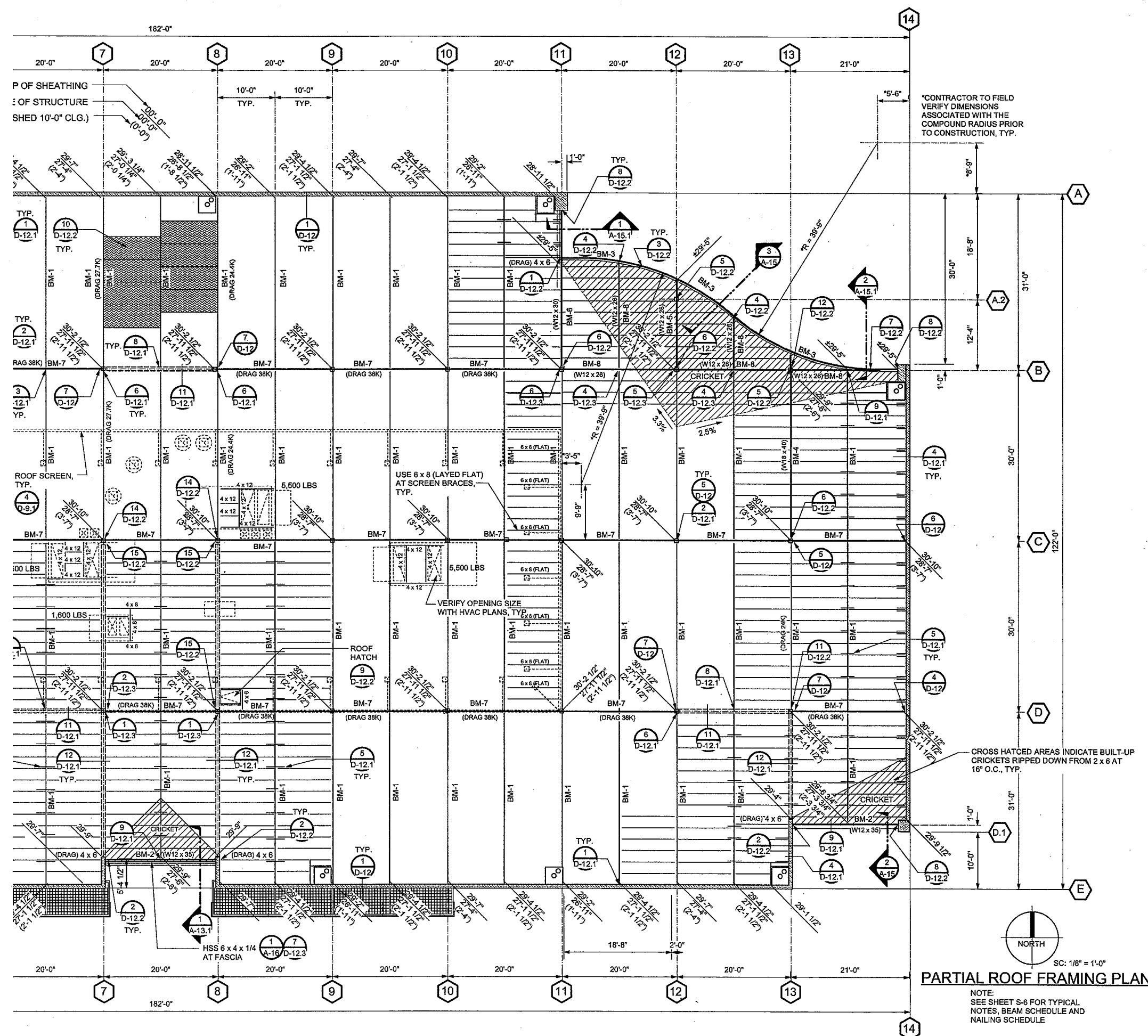
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**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
 GOLETA, CA

**ROOF FRAMING PLAN**

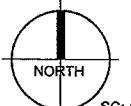
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SEE SHEET S-5.1  
FOR CONTINUATION

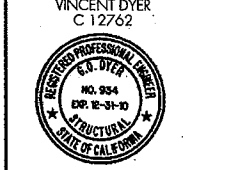
\*CONTRACTOR TO FIELD  
VERIFY DIMENSIONS  
ASSOCIATED WITH THE  
COMPOUND RADIUS PRIOR  
TO CONSTRUCTION, TYP.

CROSS HATCHED AREAS INDICATE BUILT-UP  
CRICKETS RIPPED DOWN FROM 2 x 6 AT  
16" O.C., TYP.



**PARTIAL ROOF FRAMING PLAN**

NOTE:  
SEE SHEET S-6 FOR TYPICAL  
NOTES, BEAM SCHEDULE AND  
NAILING SCHEDULE



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STATE OF CALIFORNIA

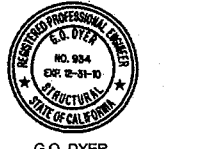
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**CABRILLO  
BUSINESS PARK  
BUILDING NO. 4**  
HOLLISTER AVE  
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**ROOF  
FRAMING PLAN**

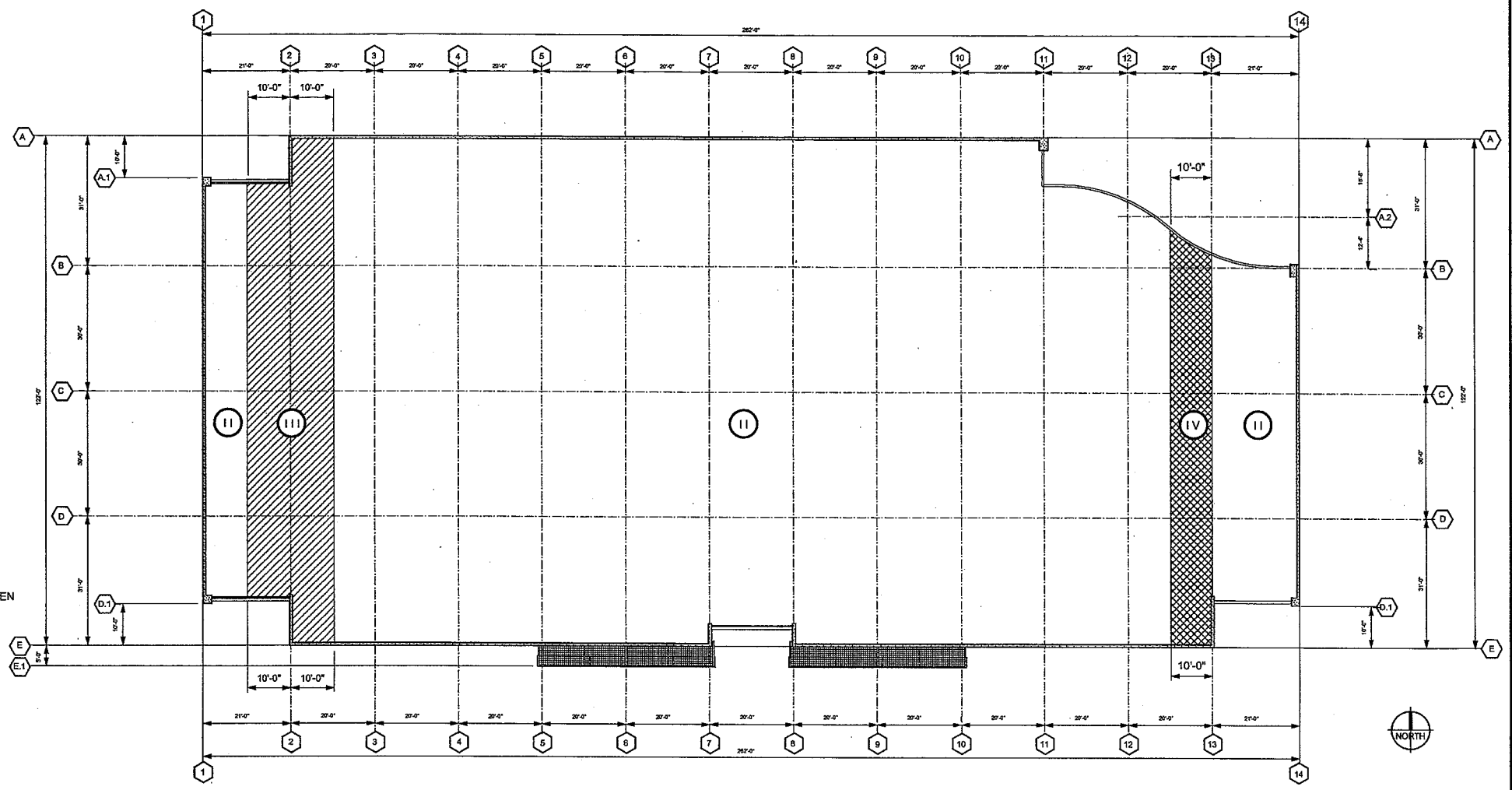
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ROOF NAILING ZONE PLAN  
N.T.S.

**DEFERRED SUBMITTAL: STEEL JOISTS AND JOIST GIRDERS**

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THREE (3) SIGNED SETS WILL BE RETURNED TO THE CONTRACTOR, WHO WILL BE RESPONSIBLE FOR SUBMITTING TO BUILDING AND SAFETY FOR FINAL APPROVAL.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- JOISTS SHALL BE DESIGNED FOR OVER STRENGTH FACTOR ( $\Omega_o = 2.5$ ) AND SPECIAL LOAD COMBINATION (ASCE 7-05 SECT. 12.10.2.1 AND 12.4.3.2 AND CBC 2007 SECTION 1605.2 AND 1605.3)

TYPE	MATERIAL AND GRADE	NAILING (COMMON NAILS)			REMARKS
		BOUNDARY AND CONTINUOUS EDGES	EDGES	INTERIOR	
I	NOT USED	---	---	---	---
II	15/32" OSB STR. 1 BLOCKED	10 d AT 4" O/C	10 d AT 6" O/C	10 d AT 12" O/C	---
III	15/32" OSB STR. 1 BLOCKED	10 d AT 2 1/2" O/C	10 d AT 4" O/C	10 d AT 12" O/C	---
IV	15/32" OSB STR. 1 BLOCKED	10 d AT 2" O/C	10 d AT 3" O/C	10 d AT 12" O/C	---

NOTE: ALL NAILS SHALL BE FULL HEAD COMMON NAILS

MARK	BEAM SIZE	REMARKS
BM-1	24K 318 / 178 (OPEN WEB STEEL GIRDER)	DRAG FORCE 10.5 K U.N.O. ON FRAMING PLAN
BM-2	W 12 x 35	
BM-3	HSS 12 x 4 x 5/16	
BM-4	W 12 x 40	
BM-5	W 12 x 26	
BM-6	W 12 x 30	
BM-7	20G 2N9.3K (OPEN WEB STEEL JOIST)	DRAG FORCE 28.8 K U.N.O. ON FRAMING PLAN
BM-8	W 12 x 26	

**SPECIAL SEISMIC AXIAL LOAD REQUIREMENT**

NO SPECIAL SEISMIC LOAD IS REQUIRED.  
FOR TYPICAL ROOF JOISTS SEE SHEET D-2, STRUCTURAL NOTES.

**ROOF DESIGN LOADS (BASED ON 2007 CALIFORNIA BUILDING CODE (2007 CBC))**

ROOF LOAD:  
LIVE LOAD: 20 PSF  
DEAD LOAD: 18 PSF

**SEISMIC FACTORS:**

$S_s = 1.667$   $S_1 = .644$   
SITE CLASS: E  
 $F_a = 0.9$   $F_v = 2.4$   
 $SDS = 1.00$   $SDI = 1.03$   
SEISMIC DESIGN CATEGORY: D  
OCCUPANCY CATEGORY: II

**WIND FACTORS:**

$VS3 = 85$  MPH  
IMPORTANCE FACTOR: 1.0  
EXPOSURE CATEGORY: C  
BUILDING HEIGHT: 35'-0"  
EXPOSURE ADJUSTMENT COEFFICIENT: 1.45  
WORST CASE DESIGN WIND PRESSURE USED FOR DESIGN: 19.6 PSF UNIFORM

**ROOF FRAMING NOTES**

- FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 4" O.C. OR LESS AND WHERE 10d NAILS HAVE PENETRATION INTO FRAMING OF MORE THAN 1 1/2" AND ARE SPACED 3" O.C. OR LESS.
- ROOF SLOPE TO BE 1/4" / FOOT MIN.
- JOIST MANUFACTURER SHALL PROVIDE BRACING AS REQUIRED TO ADEQUATELY BRACE ROOF JOISTS AND GIRDERS PER REQUIREMENT OF STEEL JOIST INSTITUTE.
- FOR ROOF HEIGHTS SEE SHEET S-5.
- NOT USED.
- ALL 4 x 6 SUBPURLINS SHALL BE DELIVERED DRY WITH LESS THAN 19% MOISTURE.
- ALL NAILING SHALL BE 10d COMMON UNLESS NOTED OTHERWISE.
- SEE MECHANICAL PLANS FOR ALL ROOF OPENINGS AND MECHANICAL EQUIPMENT.
- THE STEEL JOIST MANUFACTURER SHALL DESIGN THE NAILER CONNECTION TO THE TOP CHORD PER THE REQUIREMENTS OF DIAPHRAGM SHEAR AND SEISMIC AXIAL LOAD. USE MINIMUM OF #14 DART SCREW @ 2 1/2" O.C. STAGGERED (6 IN. O.C. PER CHORD ANGLE).
- ALIGN JOIST PANEL POINTS TO FACILITATE SPRINKLER BRANCH LINE PASSAGE.
- JOIST MANUFACTURER TO PROVIDE AN AUXILIARY WEB MEMBER AT ALL CONCENTRATED LOADS NOT OCCURRING AT PANEL POINTS.
- LOADS IN EXCESS OF 250 LBS. LOCATED BETWEEN PANEL POINTS OF TOP CHORD OR ANY LOAD TO THE BOTTOM CHORD MUST HAVE AN AUXILIARY WEB MEMBER.
- JOIST MANUFACTURER SHALL DESIGN JOISTS AND GIRDERS FOR NET UPLIFT FORCE OF 20 PSF.
- NOT USED.
- 3 x OR 4 FRAMING MEMBERS OR SUBPURLINS AS SHOWN IN NAILING SCHEDULE OR FRAMING PLAN.
- 2 x 6 SUB-PURLINS IN F26N, 3 x 6 SUB-PURLINS IN F36N AND 4 x 6 SUB-PURLINS IN F46 HANGER. SEE FRAMING PLAN FOR LOCATION (UNLESS NOTED OTHERWISE AT WALL ANCHORS).

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**ROOF FRAMING NOTES & SCHEDULE**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:





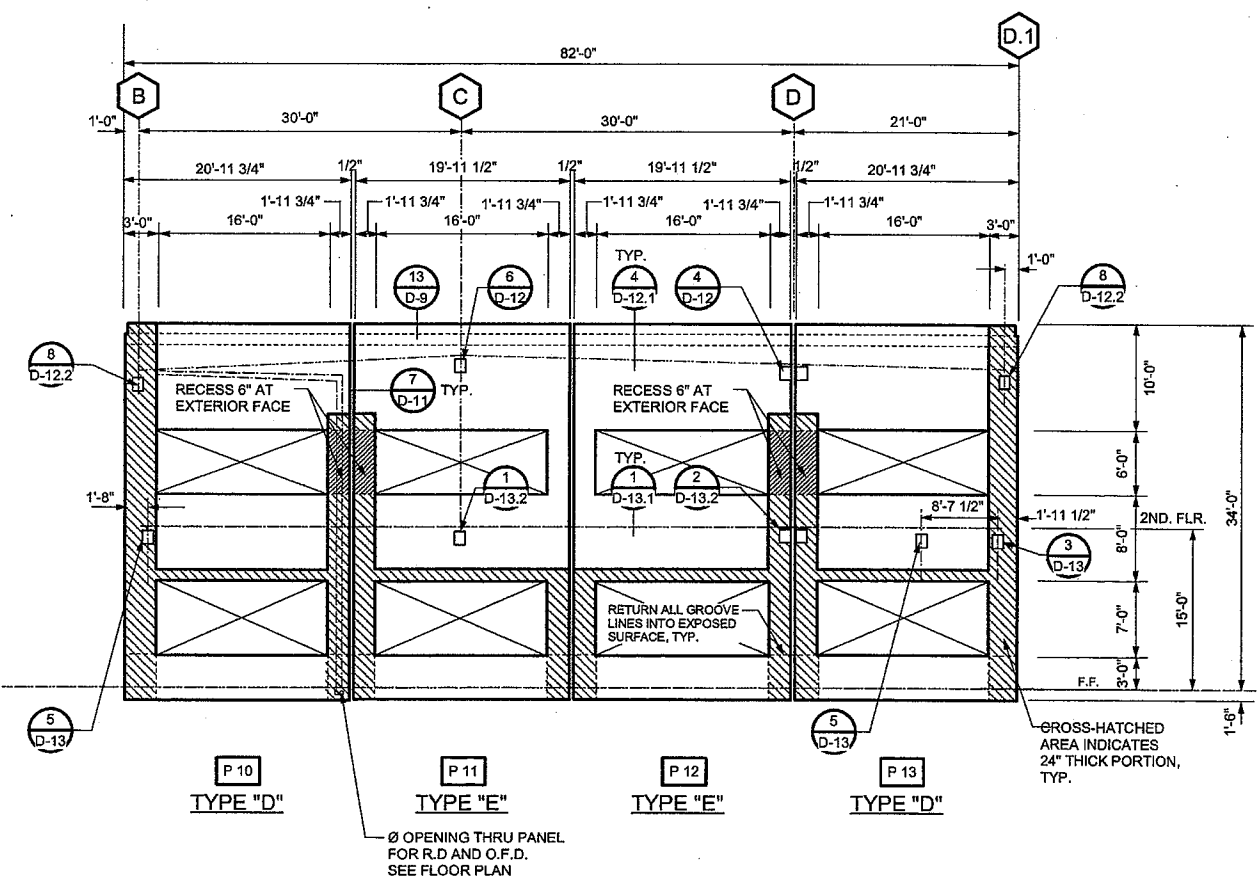
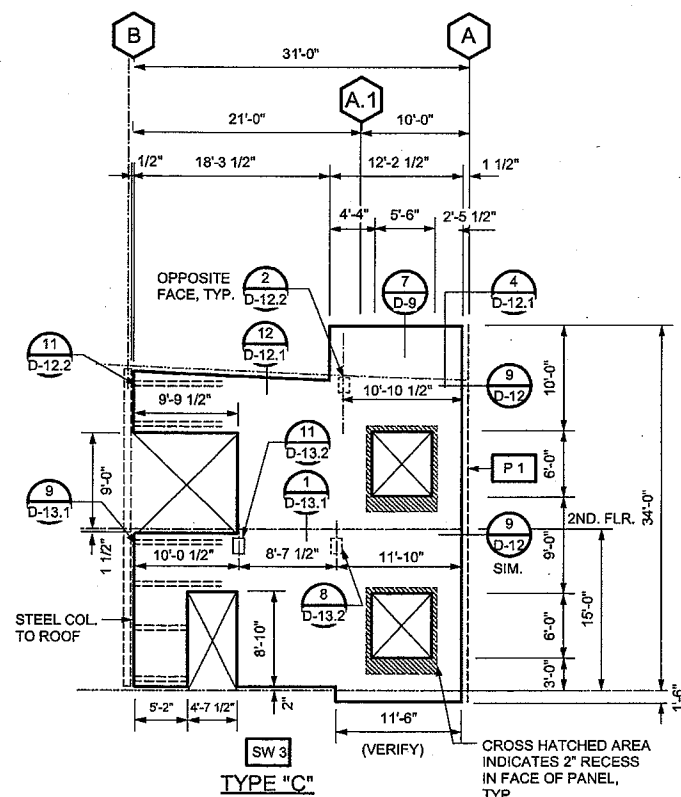
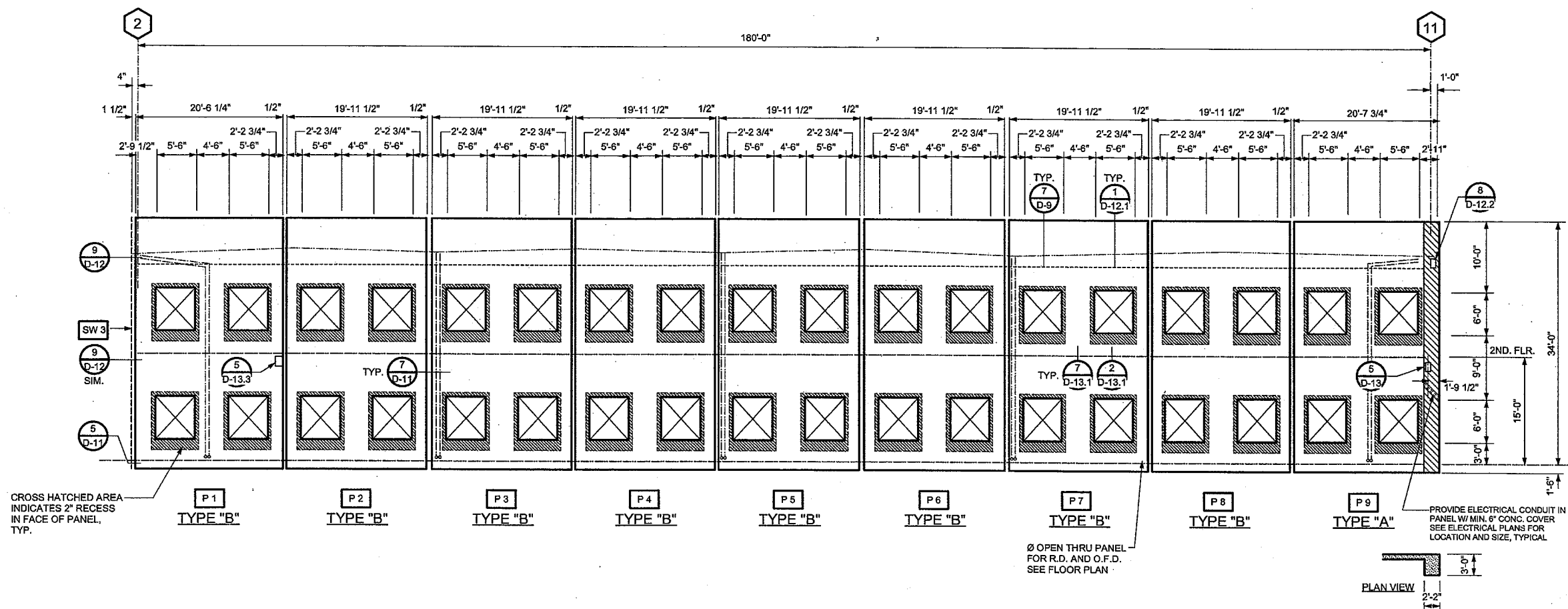
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Revisions



**PANEL NOTES:**

- ALL PANELS TO BE 8" THICK, UNLESS NOTED OTHERWISE ON PANEL ELEVATIONS (SEE CROSSED-HATCHED AREAS).
  - SEE EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXTERIOR GROOVE PLACEMENT - CONTRACTOR TO VERIFY LOCATION AND DIMENSIONS PRIOR TO CONSTRUCTION.
  - "TYP." MEANS TYPICAL FOR ALL SIMILAR CONDITIONS ON THIS SHEET, UNLESS SPECIFICALLY DETAILED AND/OR NOTED OTHERWISE.
  - CHORDS ARE TO BE FACE MOUNTED ROLLED STEEL ANGLES OR CHANNELS AS SHOWN ON THE ROOF NAILING ZONE PLAN AND PER REQUIREMENT OF DESIGN SHALL BE CONTINUOUSLY CONNECTED ACROSS THE PANEL JOINTS AND AT GIRDER LOCATIONS - SEE DETAILS:
- |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 1      | 2      | 4      | 6      | 8      | 9      |
| D 12.1 | D 12.2 | D 12.3 | D 12.4 | D 12.5 | D 12.6 |
| 1      | 4      | 1      | 4      | 1      | 2      |
| D 13.1 | D 13.2 | D 13.3 | D 13.4 | D 13.5 | D 13.6 |
| 1      | 2      |        |        |        |        |
| D 13.2 | D 13.2 |        |        |        |        |
- SEE SHEETS S-10, S-11 AND S-12 FOR TYPICAL PANEL TYPE REINFORCING.
  - PROVIDE ELECTRICAL CONDUIT IN PANELS (6" MIN. CONC. COVER) COORDINATE LOCATION WITH ELECTRICAL PLANS.

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**PANEL ELEVATIONS**

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:





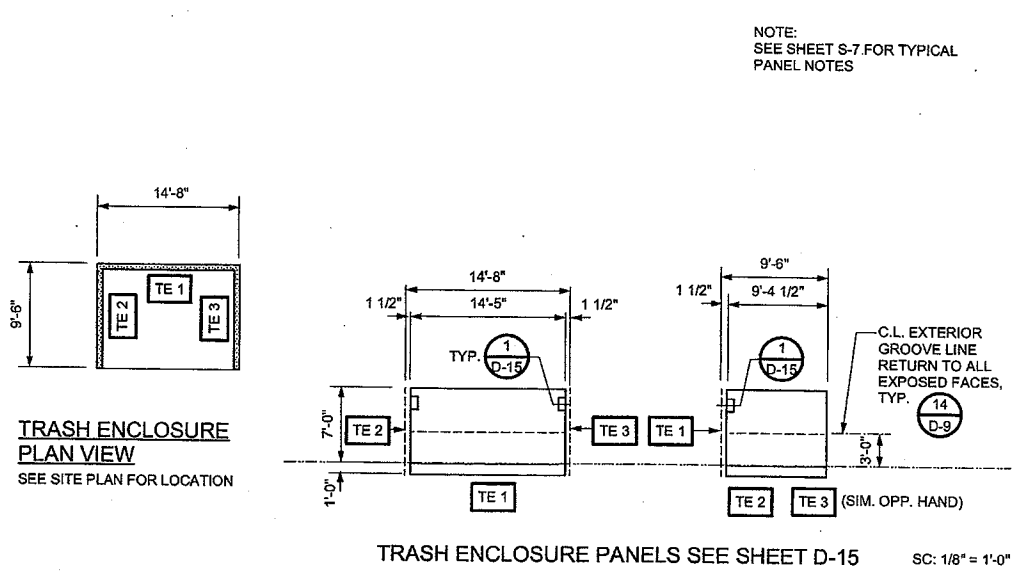
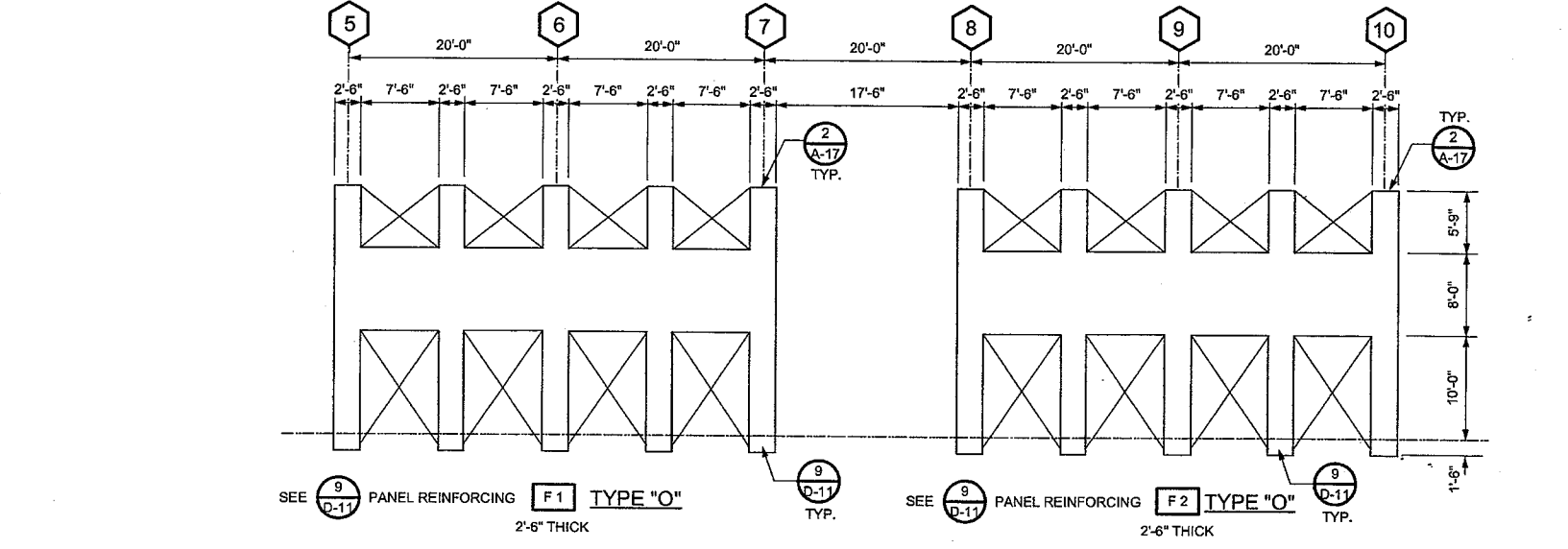
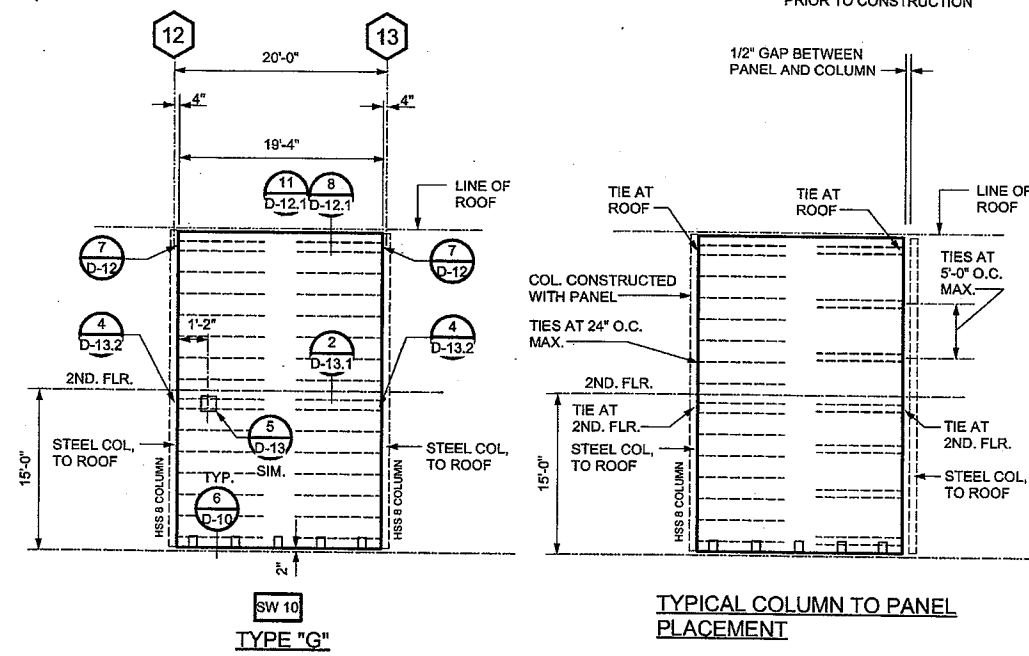
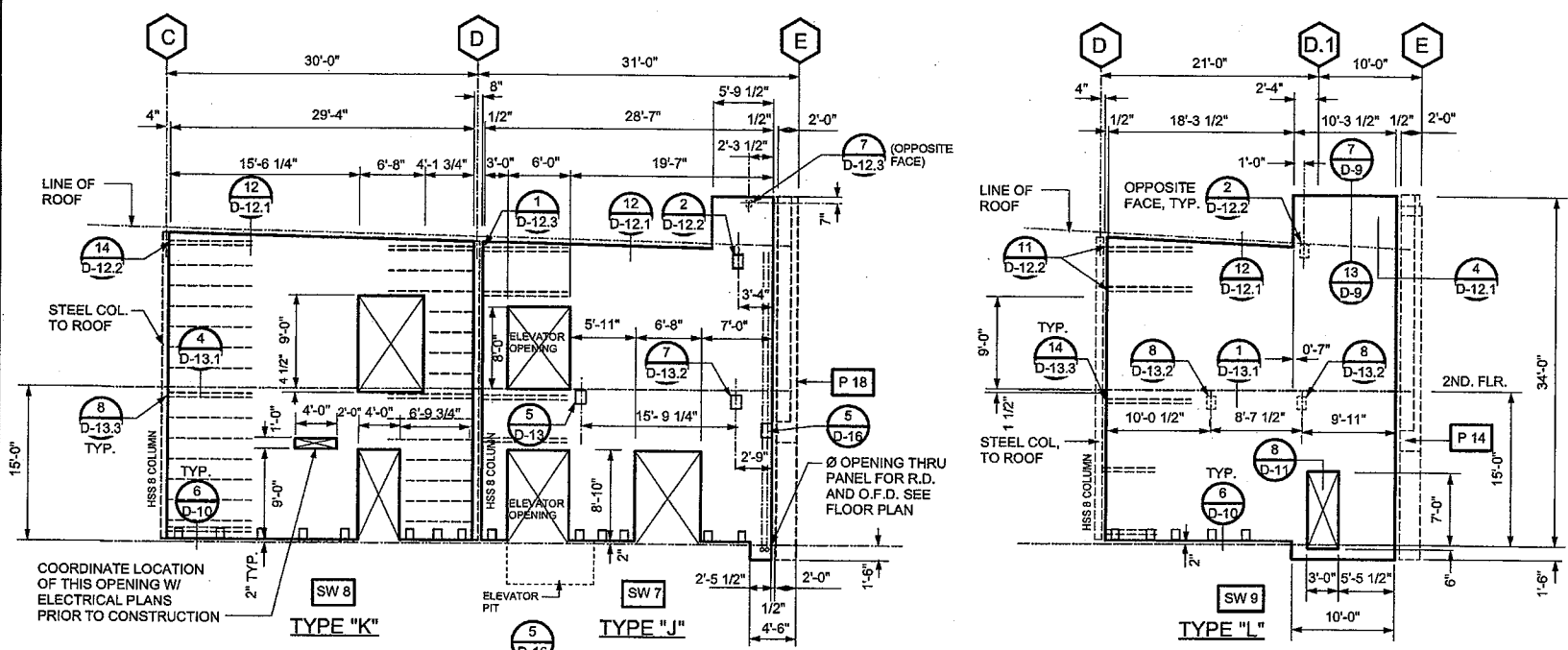
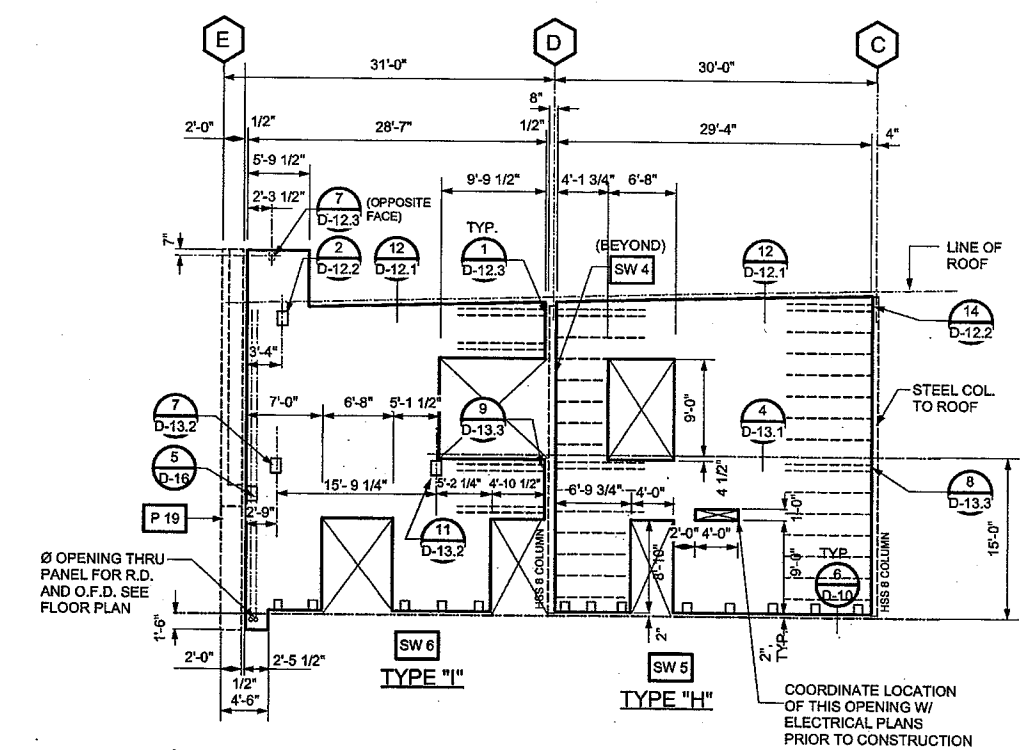
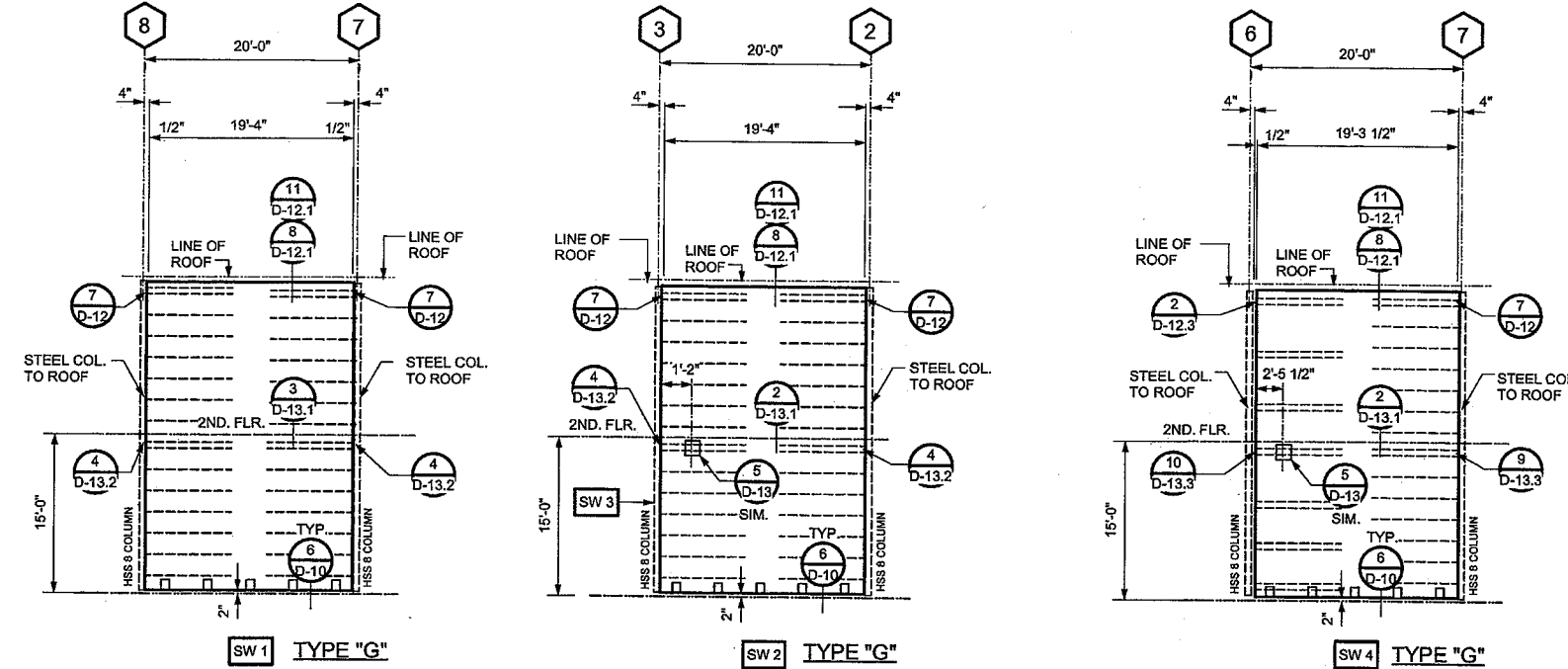
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Revisions



NOTE:  
SEE SHEET S-7 FOR TYPICAL  
PANEL NOTES

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
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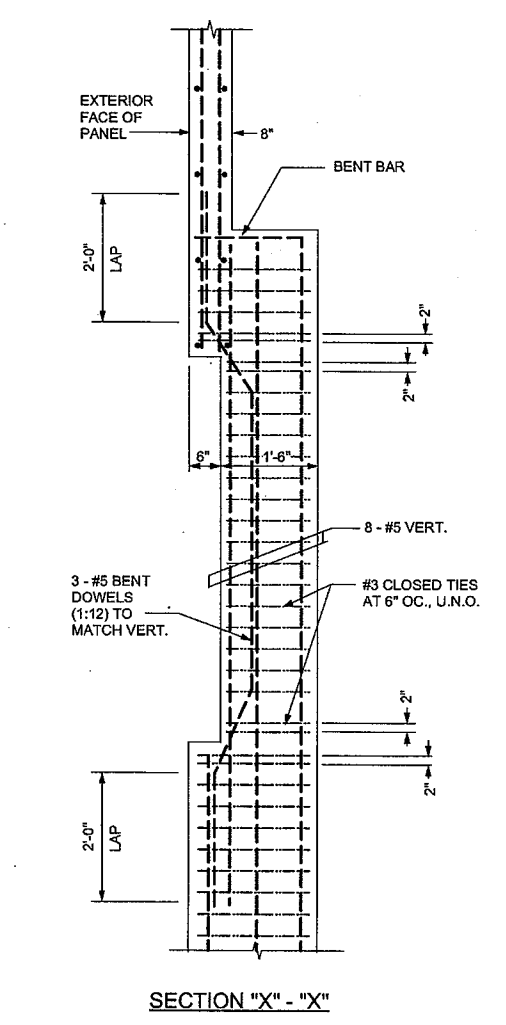
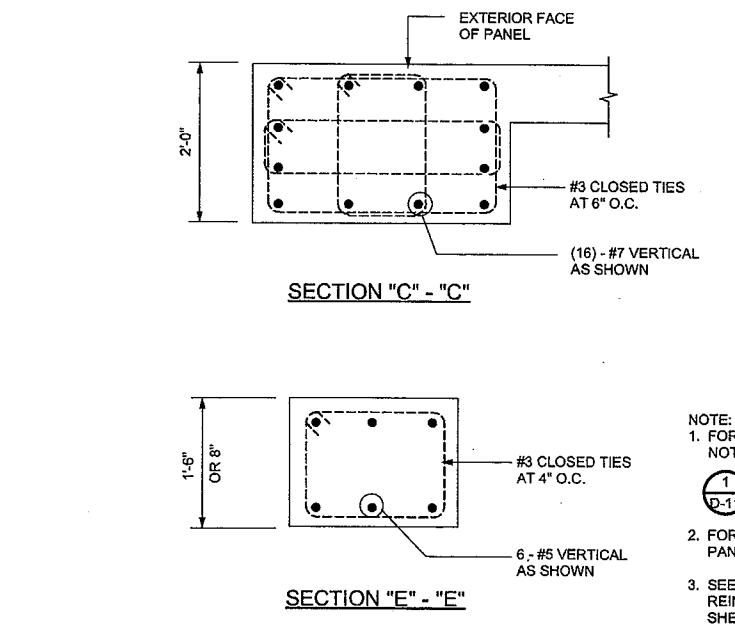
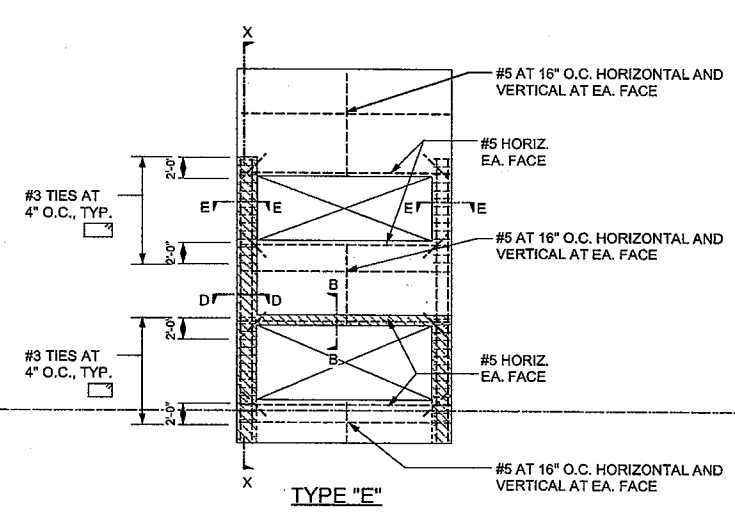
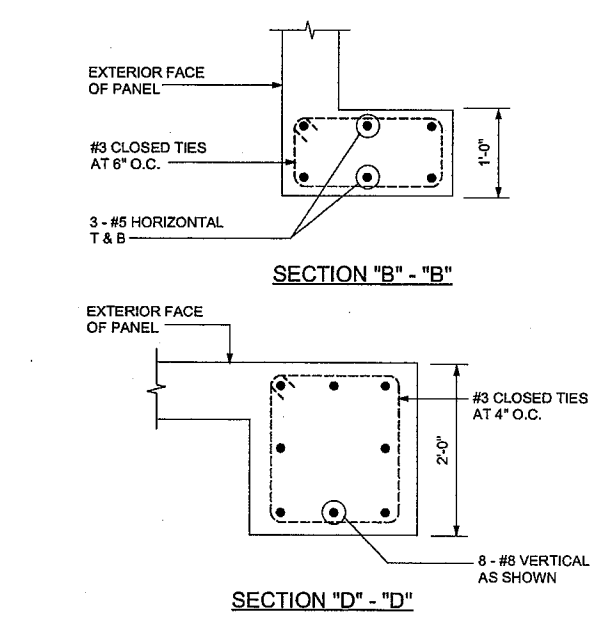
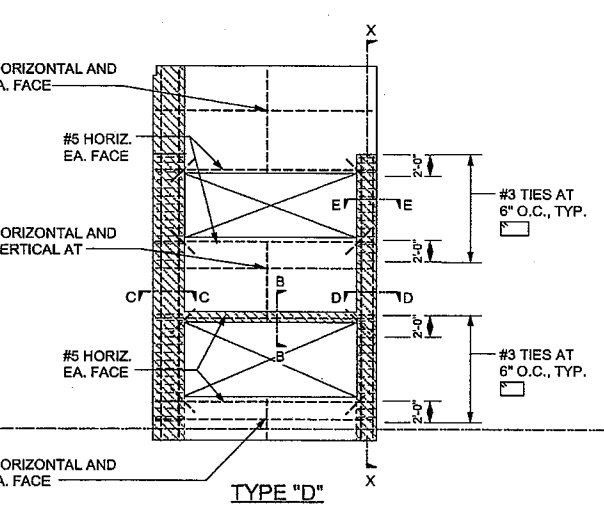
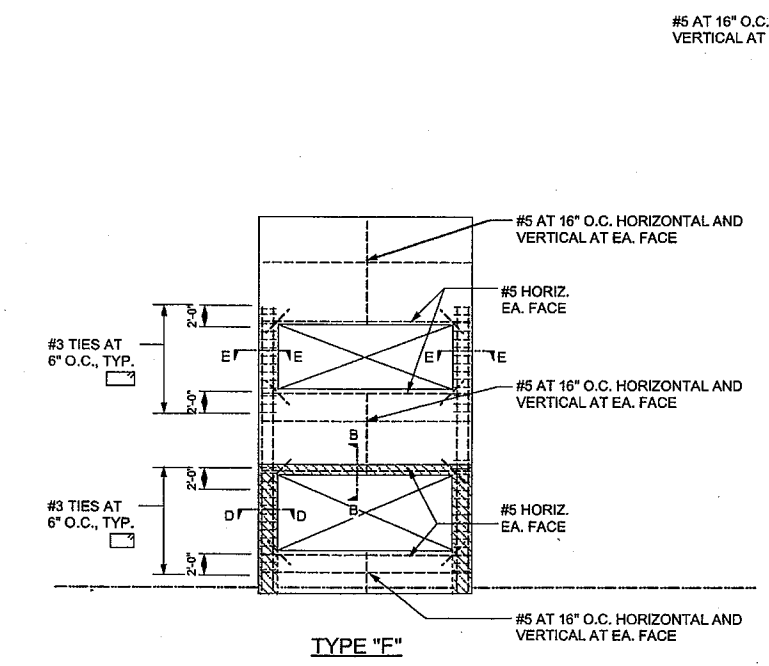
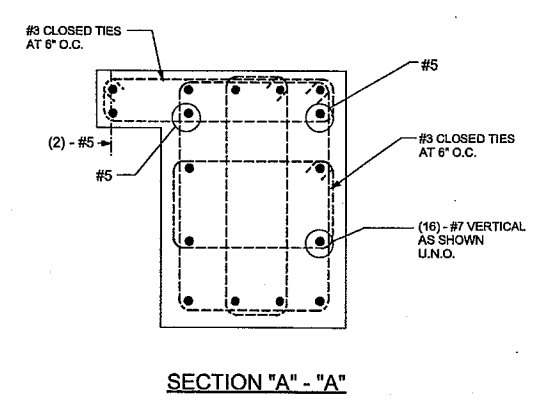
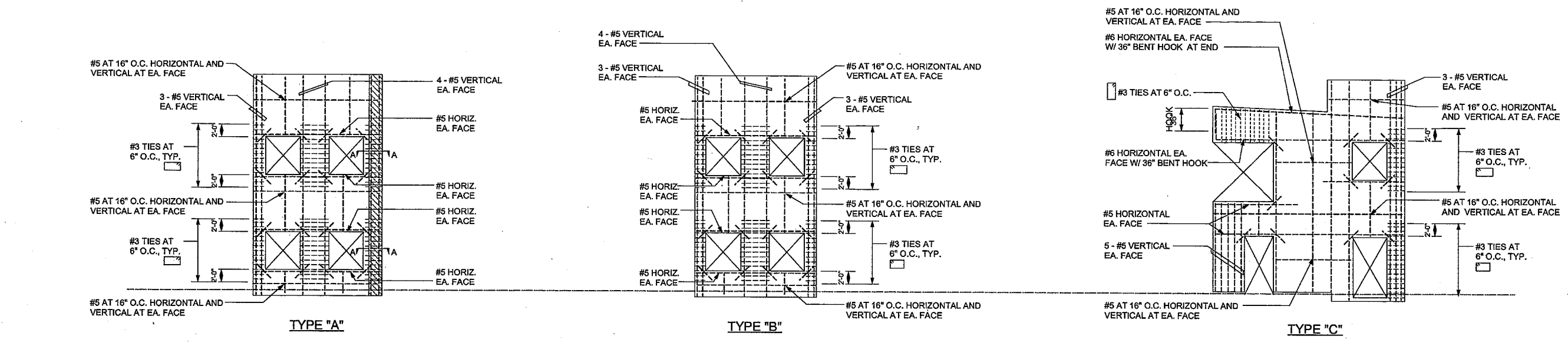
**PANEL ELEVATIONS**

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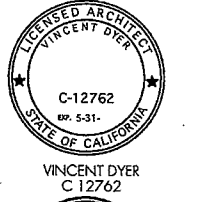



NOTE:  
 1. FOR ADDITIONAL PANEL REINFORCING NOT SHOWN HEREON SEE:  
 (1) D-11 (2) D-11 (3) D-11 (4) D-11 (5) D-11 AND (6) D-11  
 2. FOR PANEL THICKNESS, SEE TYPICAL PANEL NOTES ON SHEET S-7.  
 3. SEE ALSO PANEL ELEVATIONS FOR ADDITIONAL REINFORCING NOT SHOWN HEREON AND SHEET S-9 FOR COLUMN TO PANEL ELEVATION AS OCCURS.

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

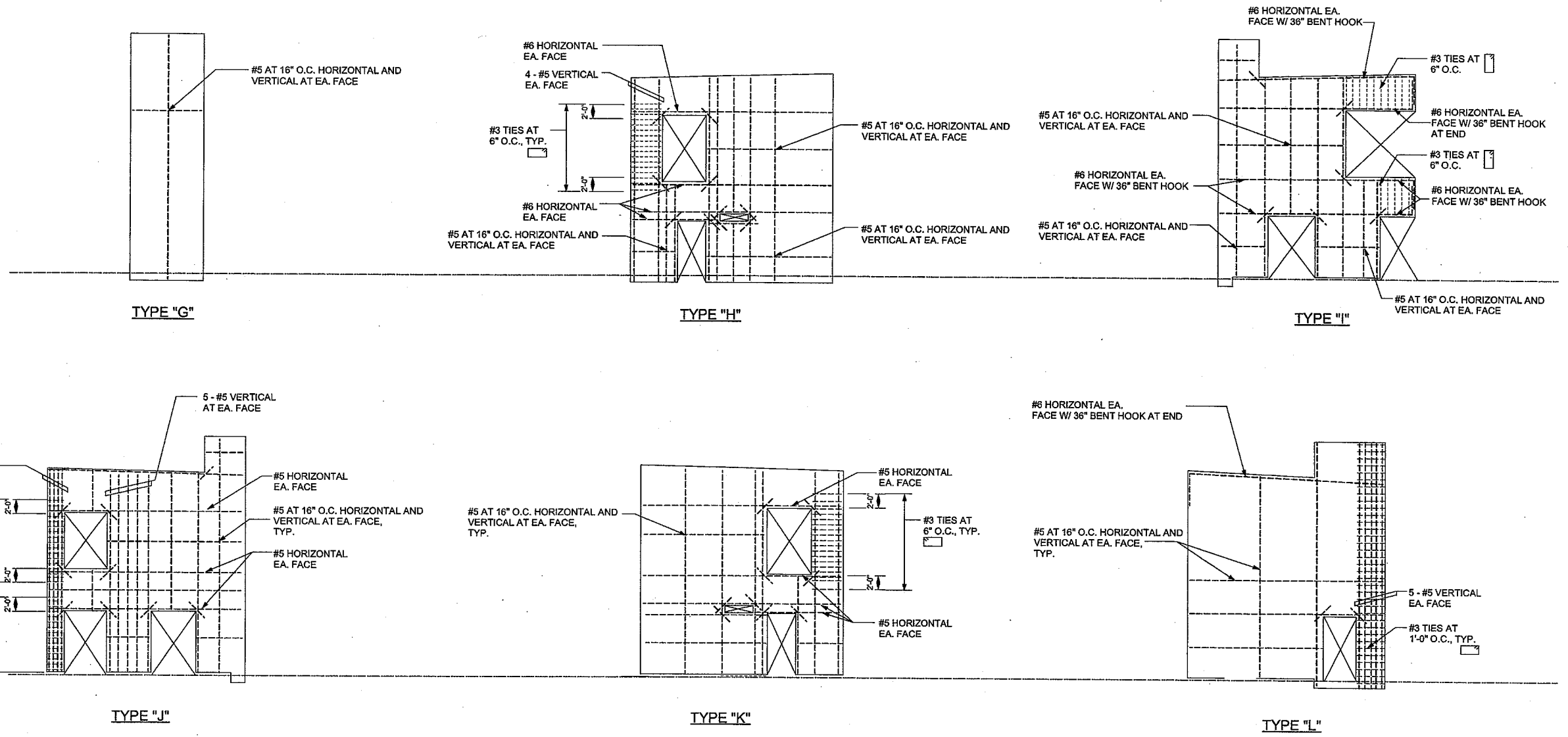
**TYPICAL PANEL REINFORCING**

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**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

**TYPICAL PANEL REINFORCING**

Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet :



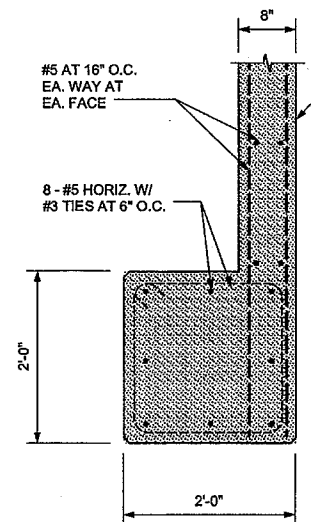
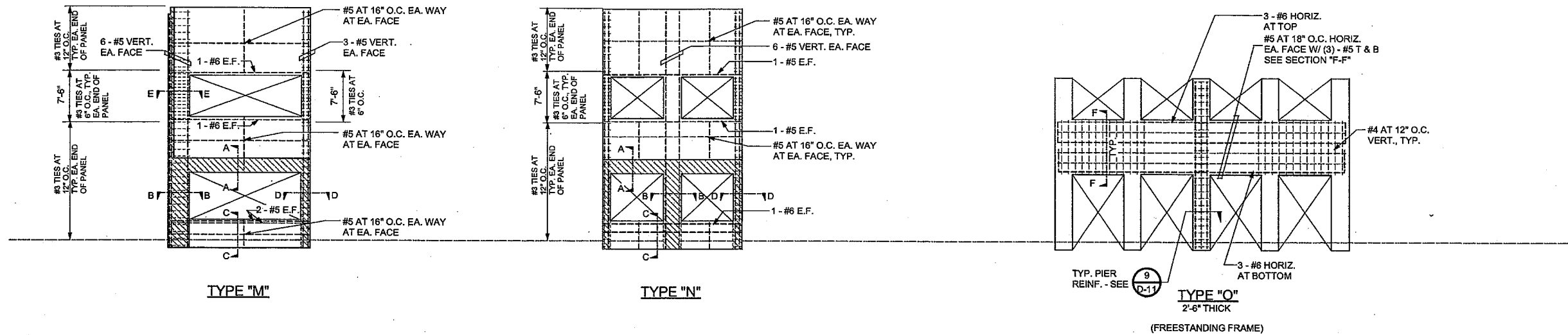
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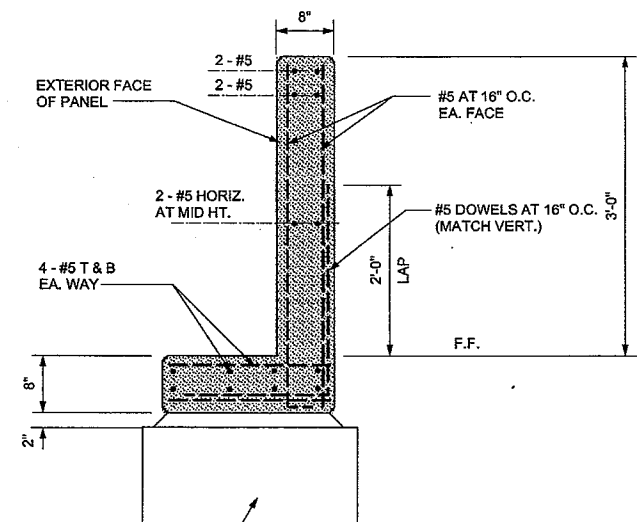
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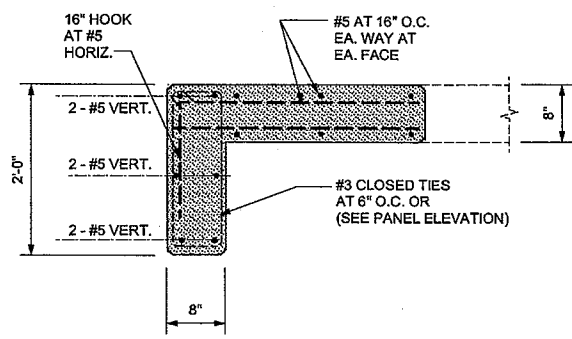
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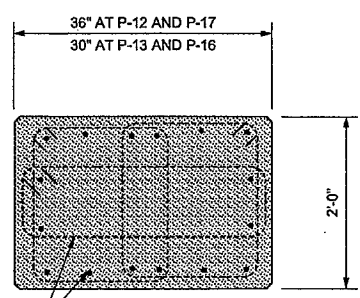
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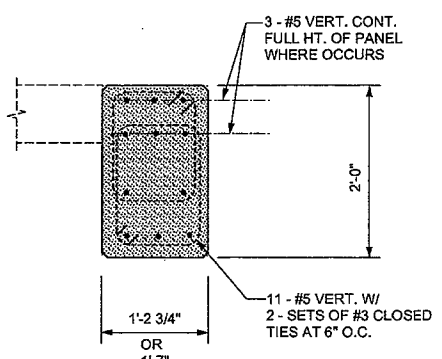
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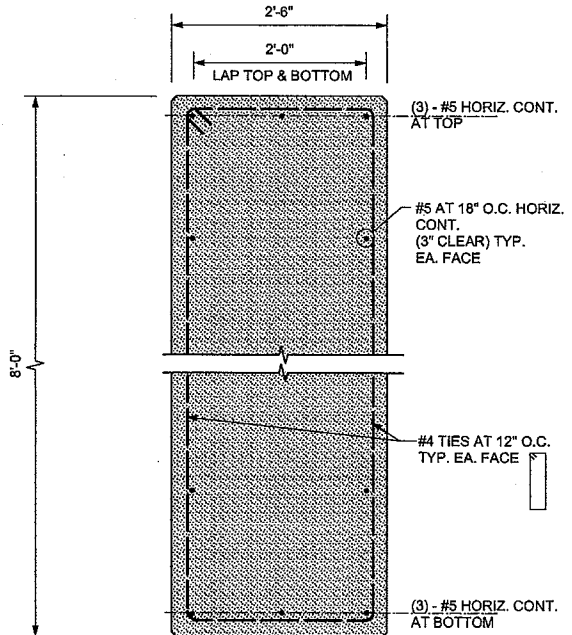
SECTION "E - E"



SECTION "B - B"



SECTION "D - D"



SECTION "F - F"

NOTE:  
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 2. FOR PANEL THICKNESS, SEE TYPICAL PANEL NOTES ON SHEET S-7.  
 3. SEE ALSO PANEL ELEVATIONS FOR ADDITIONAL REINFORCING NOT SHOWN HEREON AND SHEET S-8 FOR COLUMN TO PANEL ELEVATION AS OCCURS.

CABRILLO  
 BUSINESS PARK  
 BUILDING NO. 4

HOLLISTER AVE  
 GOLETA, CA

TYPICAL  
 PANEL  
 REINFORCING

Date: 11-18-09

Job: 0904

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Sheet:





VINCENT DYER C-12762



G.O. DYER No. 854

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- 2. THE CLEARANCE BETWEEN THE CAR PLATFORM GILL AND THE EDGE OF THE HOISTWAY LANDINGS SHALL BE NOT GREATER THAN 1/4"
- 3. SPECIAL ACCESS (WHEELCHAIR) LIFTS

- 4. TO PROVIDE AN ACCESSIBLE ROUTE TO A PERFORMING AREA IN AN ASSEMBLY OCCUPANCY OR TO A SEPARATELY IDENTIFIED PLACE SUCH AS A DIAS OR "HEAD TABLE" IN AN ASSEMBLY OR GROUP B OCCUPANCY.
- 5. TO COMPLY WITH THE WHEELCHAIR VIEWING POSITION LINE-OF-SIGHT AND OTHER REQUIREMENTS OF CHAPTER 11B, SECTION 11B.2.2.
- 6. TO PROVIDE ACCESS WHERE EXISTING SITE CONSTRAINTS OR OTHER FACTORS MAKE USE OF A RAMP OR AN ELEVATOR INFEASIBLE.

CABRILLO BUSINESS PARK BUILDING NO. 4 HOLLISTER AVE GOLETA, CA

- 1. THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE DEFINED AS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ALL ACCESSIBLE ELEMENTS AND SPACES IN AN ACCESSIBLE BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A SEVERE DISABILITY USING A WALKER AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES.
- 2. WHEN MORE THAN ONE BUILDING OR FACILITY IS LOCATED ON A SITE, ACCESSIBLE ROUTES OF TRAVEL SHALL BE PROVIDED BETWEEN BUILDINGS AND ACCESSIBLE SITE FACILITIES.
- 3. THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN ACCESSIBLE BUILDING ENTRANCES, ACCESSIBLE SITE FACILITIES, AND THE ACCESSIBLE ENTRANCE TO THE SITE.
- 4. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSING ZONES, AND ACCESSIBLE BUILDING ENTRANCES, AND BETWEEN THE BUILDING AND THE PUBLIC WAY.
- 5. WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE OR ADAPTABLE, AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE PROVIDED TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS.

- 1. THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXTERIOR, PROVIDES ACCESS FOR PERSONS WITH MOBILITY IMPAIRMENTS, PARKING SPACES SERVING WITH SECTION 11208 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-6 EXCEPT AS FOLLOWS:
- 2. WHERE THE RAMP LANDING IS NOT BOUNDED BY A WALL OR FENCE AND THE RAMP EXTENDS AT LEAST 1/2" ABOVE THE TOP OF THE RAIL, THERE SHALL BE A VERTICAL DROP EXCEEDING 4"; ONE OF THE FOLLOWING:
- 3. WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE OR ADAPTABLE, AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE PROVIDED TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS.

TABLE 11B-6: TOTAL # OF PARKING SPACES PROVIDED VS. TOTAL # OF DISABLED SPACES REQUIRED. Columns include 0-25, 26-50, 51-75, 76-100, 101-150, 151-200, 201-250, 251-300, 301-400, 401-500, 501-1000, and 1001 & OVER.

- 5. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO SUCH AREAS FROM SITE ENTRANCES AND EXITS.
- 6. IN BUILDINGS WITH MULTIPLE ACCESSIBLE PARKING SPACES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES.
- 7. WHERE SINGLE ACCESSIBLE PARKING SPACES ARE PROVIDED, THEY SHALL BE 14' WIDE AND OUTLINED TO PROVIDE A PARKING AREA AND A 5' LOADING AND UNLOADING ACCESSIBLE AREA.

- 1. PROVIDE A CURB RAMP AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSSES A CURB.
- 2. CURB RAMP SHALL BE A MINIMUM OF 4" IN WIDTH AND SHALL LIE, GENERALLY, IN A SINGLE SLOPED PLANE, WITH A MINIMUM OF SURFACE WARPCING AND CROSS SLOPE.
- 3. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE, SHALL NOT EXCEED 1:20 WITHIN 4' OF THE TOP AND BOTTOM OF THE CURB RAMP.

- 1. ALL ENTRANCES TO AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8'-2" CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND.
- 2. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1 UNIT VERTICAL TO 50 UNITS HORIZONTAL IN ANY DIRECTION.
- 3. ALL ENTRANCES TO AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8'-2" CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND.

- 1. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY PERMIT TYPE KEYWAY, PANG BARS, PUSHBARS, ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- 2. DOORS TO INDIVIDUAL HOTEL OR MOTEL SUITS SHALL OPERATE SIMILARLY TO THE REQUIREMENTS OF SECTION 11338.2.1, EXCEPT THAT WHEN BOLT AND UNLATCHING OPERATION IS KEY OPERATED FROM CORRIDORS OR EXTERIOR SIDE OF UNIT DOOR, LARGE BOW KEYS OR "FULL BOW" OR "1/4" HALF BOW SHALL BE PROVIDED TO PROVIDE LEVER TYPE HARDWARE ON THE CORRIDOR SIDE.

- 1. ACCESSIBLE PARKING SPACES SHALL BE 50 LOCATED THAT PERSONS WITH MOBILITY IMPAIRMENTS ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.
- 2. EVERY DRIVEWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 2' IN WIDTH AND NOT LESS THAN 6' 8" IN HEIGHT, WHEN INSTALLED, EXIT DOORS SHALL BE CAPABLE OF OPENING SO THAT THE CLEAR WIDTH OF THE EXIT IS NOT LESS THAN 42", MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.

- 1. WHEN PROVIDED, PASSENGER DROP-OFF AND LOADING ZONES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE OF TRAVEL.
- 2. WHERE PROVIDED, ONE PASSENGER DROP-OFF AND LOADING ZONE SHALL PROVIDE AN ACCESSIBLE ASLE AT LEAST 6' WIDE AND 20' LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE. SUCH ZONES SHALL BE LOCATED ON A SURFACE WITH A SLOPE NOT EXCEEDING 1 VERTICAL IN 50 HORIZONTAL.
- 3. PASSENGER DROP-OFF AND LOADING ZONES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-6 EXCEPT AS FOLLOWS:

- 1. THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXTERIOR, PROVIDES ACCESS FOR PERSONS WITH MOBILITY IMPAIRMENTS, PARKING SPACES SERVING WITH SECTION 11208 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-6 EXCEPT AS FOLLOWS:
- 2. WHERE THE RAMP LANDING IS NOT BOUNDED BY A WALL OR FENCE AND THE RAMP EXTENDS AT LEAST 1/2" ABOVE THE TOP OF THE RAIL, THERE SHALL BE A VERTICAL DROP EXCEEDING 4"; ONE OF THE FOLLOWING:
- 3. WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE OR ADAPTABLE, AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE PROVIDED TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS.

- 1. THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXTERIOR, PROVIDES ACCESS FOR PERSONS WITH MOBILITY IMPAIRMENTS, PARKING SPACES SERVING WITH SECTION 11208 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 11B-6 EXCEPT AS FOLLOWS:
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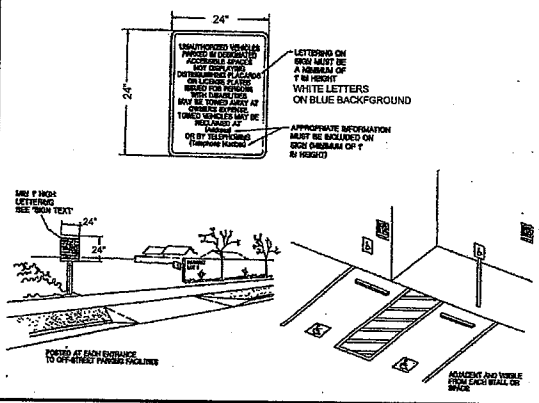
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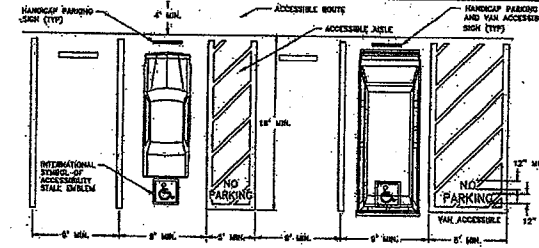




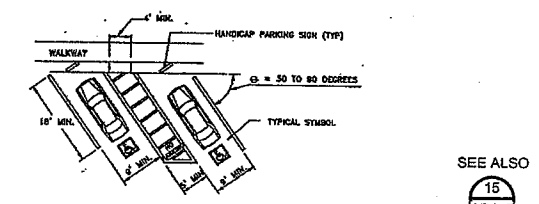


HANDICAP SIGNS

13



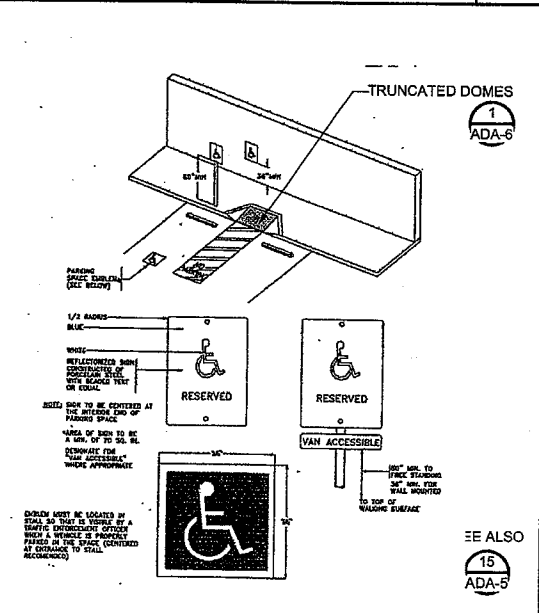
PARKING SPACE - DOUBLE



PARKING SPACE - DOUBLE DIAGONAL

HANDICAP PARKING DESIGN

14

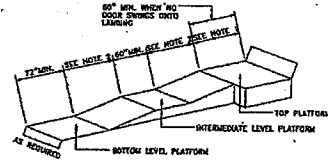


PARKING SIGNS

15

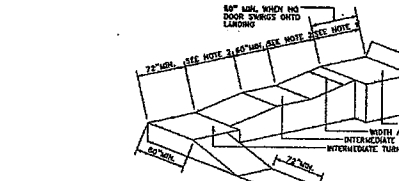
NOT USED

NOTE 1: WHEN DOOR SWINGS ONTO LANDING - 42" MIN. PLUS DOOR WIDTH.  
NOTE 2: MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP AND RUN VARY.



STRAIGHT RAMP RUN

NOTE 1: WHEN DOOR SWINGS ONTO LANDING - 42" MIN. PLUS DOOR WIDTH.  
NOTE 2: MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP AND RUN VARY.



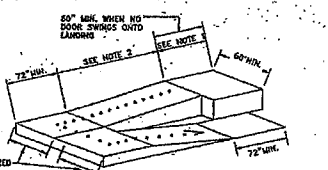
RAMP WITH TURNING PLATFORM  
(WHEN DIRECTION OF RAMP CHANGES 90 DEGREES OR MORE)

RAMP DESIGNS

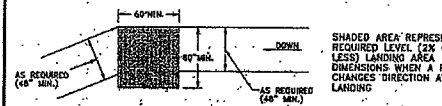
11

NOTE 1: WHEN DOOR SWINGS ONTO LANDING - 42" MIN. PLUS DOOR WIDTH.  
NOTE 2: MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP AND RUN VARY.

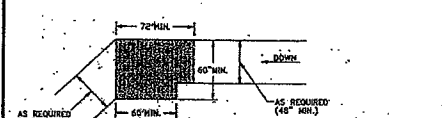
SEE ALSO  
15  
ADA-5



RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM



LESS THAN 30 DEGREE ANGLE



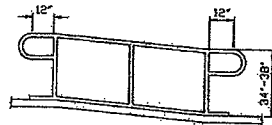
30 DEGREE OR GREATER ANGLE

SEE ALSO  
15  
ADA-5

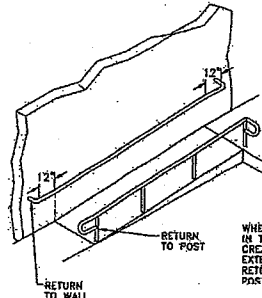
RAMP LANDING DESIGNS

12

NOTE: HANDRAILS MUST EXTEND A MINIMUM OF 12" OF LEVEL DISTANCE (PARALLEL TO LANDING SURFACE) BEYOND TOP AND BOTTOM OF THE RAMP ENDS BEFORE THEY ARE RETURNED.



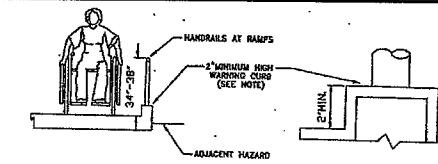
HANDRAILS MAY PROJECT INTO THE REQUIRED WIDTH A DISTANCE OF 3-1/2" FROM EACH SIDE OF A RAMP. OTHER PROJECTIONS, SUCH AS TIRMS OR SHALLS DECORATIVE FEATURES, MAY PROJECT INTO THE REQUIRED WIDTH 1-1/2" ON EACH SIDE.



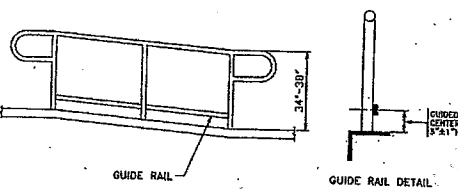
WIDTH MUST BE MINIMUM OF 60" WITH OCCUPANCY OF 300 OR MORE.

RAMP HANDRAIL

7



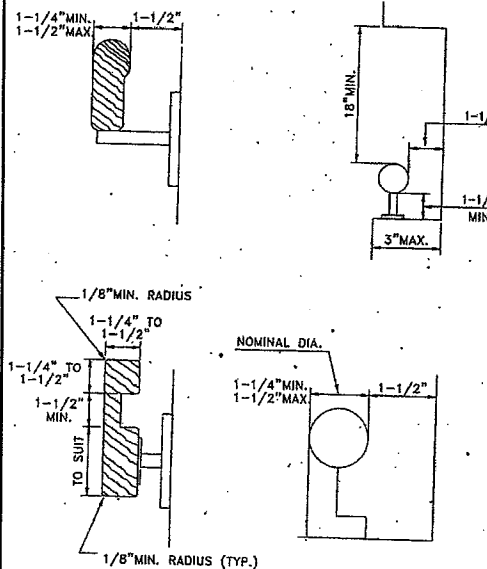
WARNING CURB EDGE PROTECTION



GUIDE RAIL EDGE PROTECTION

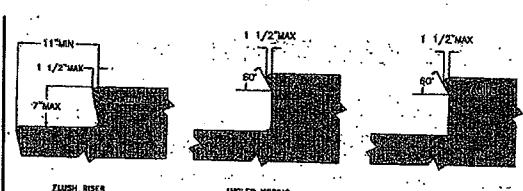
RAMP HANDRAIL

8

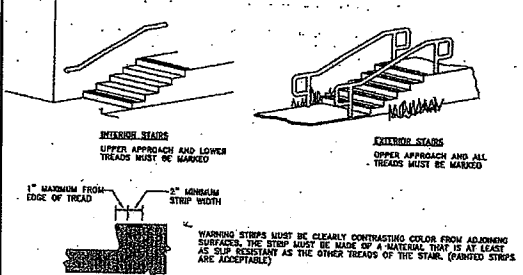


HANDRAIL DESIGNS

9



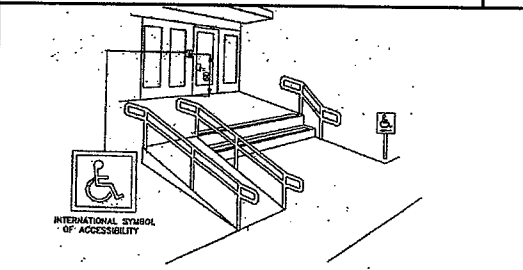
USABLE TREAD WIDTH AND EXAMPLES OF ACCEPTABLE NOSING



VISUALLY IMPAIRED WARNING STRIPING

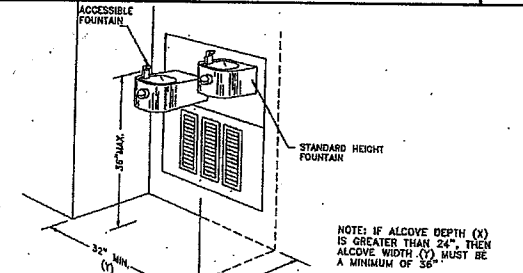
STAIR DESIGN

4



INTERNATIONAL SYMBOL OF ACCESS

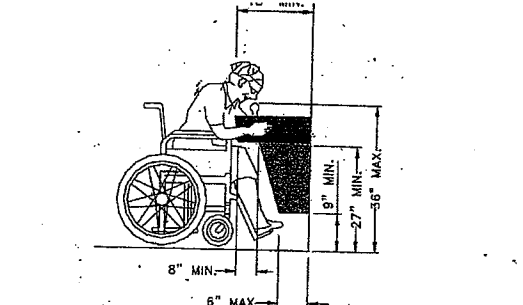
5



HI-LO FOUNTAIN DESIGN

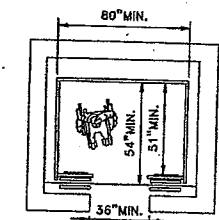
CLEAR FLOOR SPACE

ALCOVE INSTALLATION

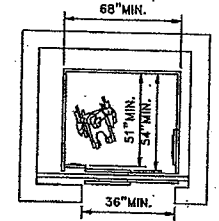


DRINKING FOUNTAIN

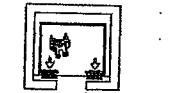
6



ON-CENTER DOOR PANELS



OFF-CENTER DOOR PANELS



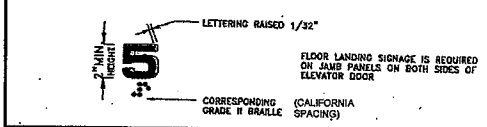
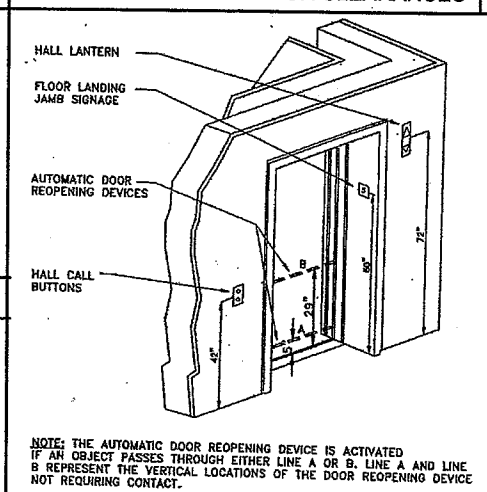
ALTERNATE LOCATIONS OF PANEL WITH CENTER OPENING DOOR



ALTERNATE LOCATIONS OF PANEL WITH SIDE OPENING DOOR

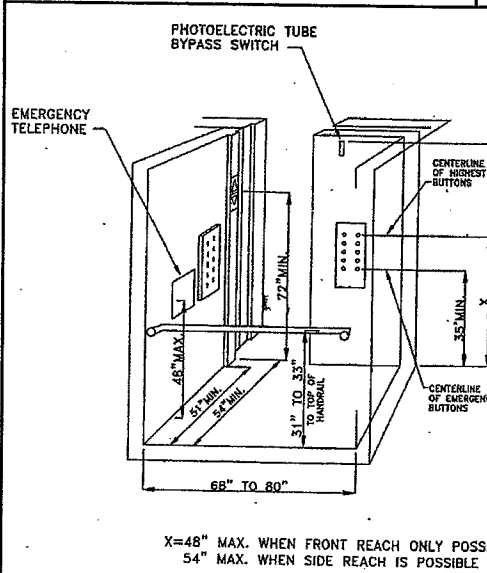
ELEVATOR CLEARANCES

1



ELEVATOR DOOR

2



ELEVATOR CAB

3



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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Revisions

Date: 11-18-09

Job: 0904

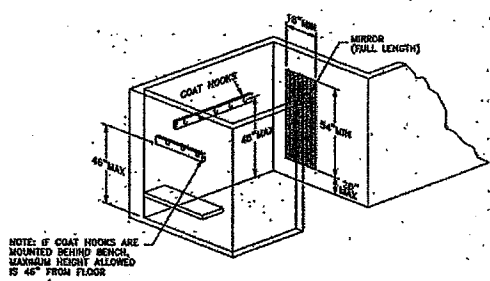
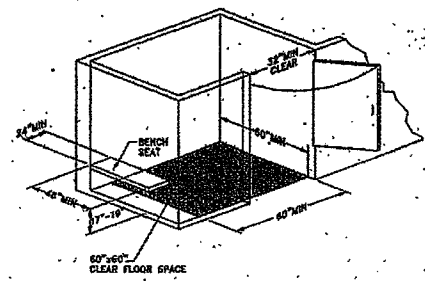
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Sheet:

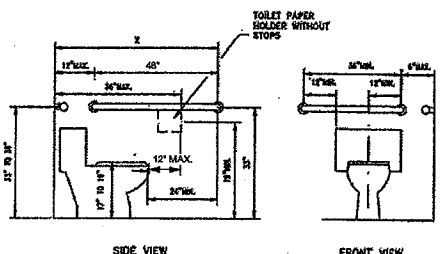


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NO. 034  
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Revisions

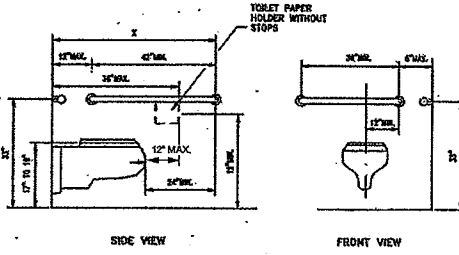


NOTE: IF COAT HOOKS ARE MOUNTED BEHIND BENCH, MAXIMUM HEIGHT ALLOWED IS 46\"/>



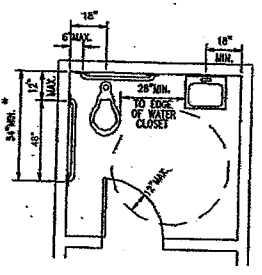
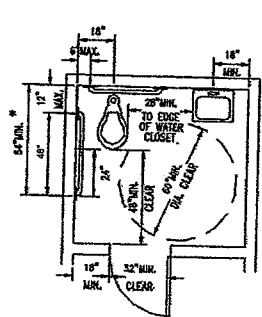
FLOOR-MOUNTED WATER CLOSETS

X=52\"/>

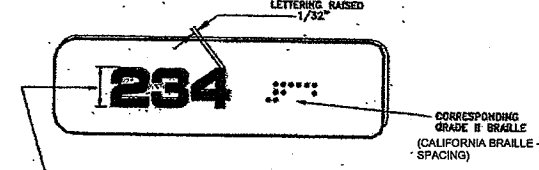
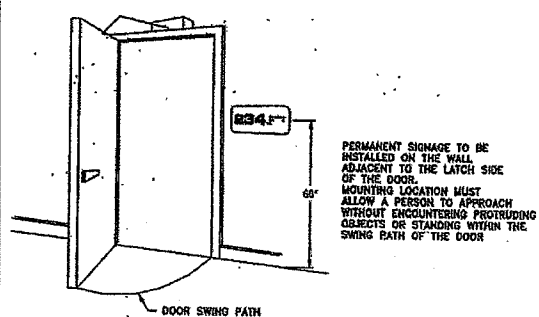


WALL-MOUNTED WATER CLOSETS

WATER CLOSET MOUNTING HEIGHT 9

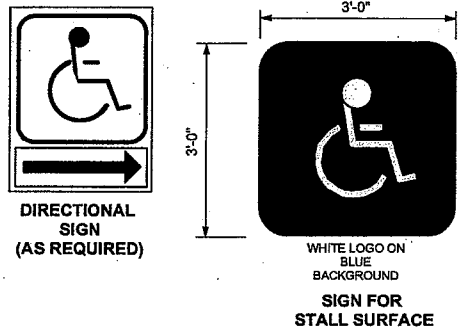


SINGLE RESTROOM 6

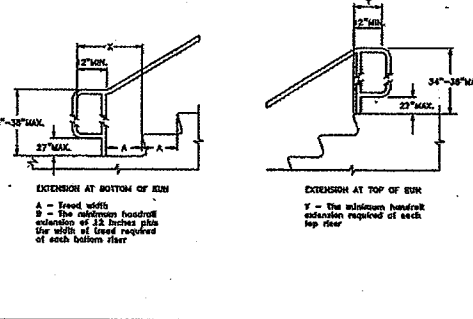
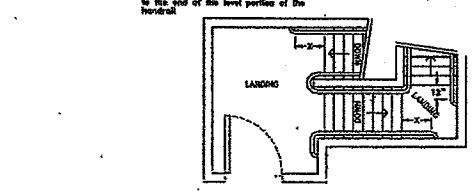
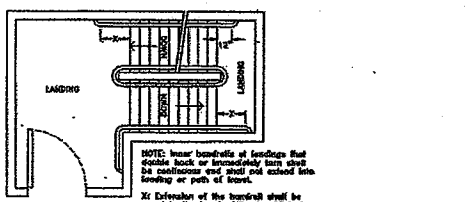


LETTERS AND NUMERALS SHALL BE RAISED 1/32\"/>

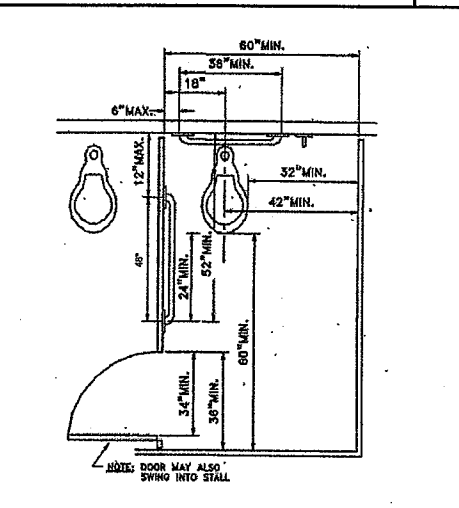
SIGNS 1



CHANGING ROOM 12

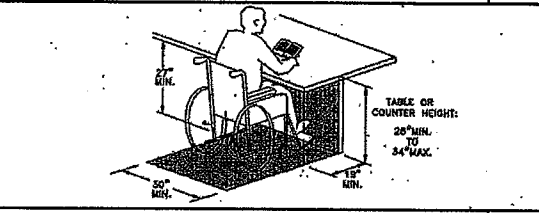


STAIR CLEARANCES AND MARKING 13

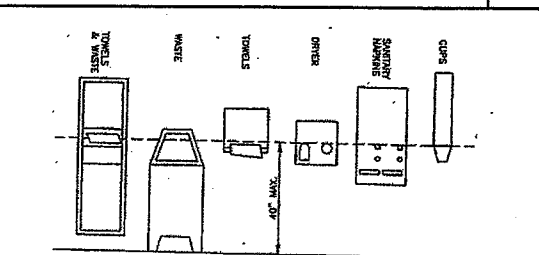


WATER CLOSET MOUNTING HEIGHT 9

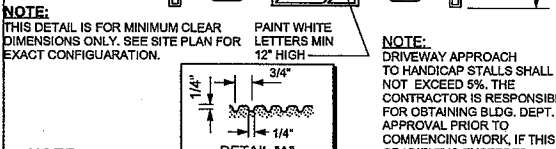
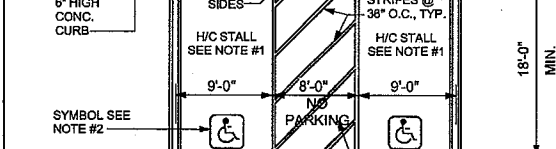
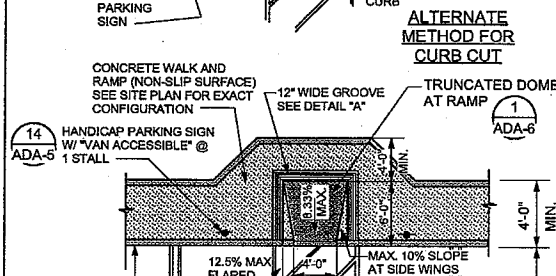
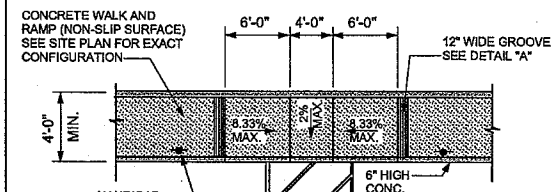
SINGLE RESTROOM 6



COUNTERS 2

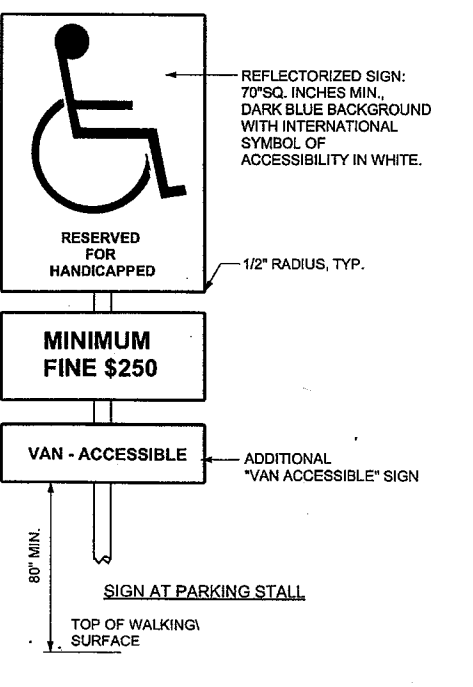


MOUNTING HEIGHTS 3

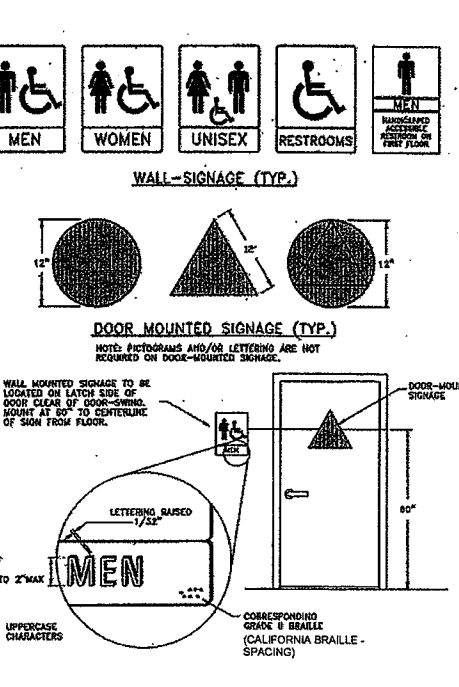


- NOTE: THIS DETAIL IS FOR MINIMUM CLEAR DIMENSIONS ONLY. SEE SITE PLAN FOR EXACT CONFIGURATION.
- NOTE: DRIVEWAY APPROACH TO HANDICAP STALLS SHALL NOT EXCEED 5%. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING BLDG. DEPT. APPROVAL PRIOR TO COMMENCING WORK, IF THIS GRADIENT IS EXCEEDED.
1. SURFACE SLOPE AT PARKING STALLS SHALL NOT EXCEED 1/4\"/>
  2. 3'-0\"/>
  3. REFLECTORIZED SIGN - PORCELAIN ON STEEL W/ BEADED TEXT. SIGN TO BE MIN 70 SQ. INCHES AND BOTTOM MOUNTED AT + 80\"/>
  4. CONCRETE WALKS SHALL NOT EXCEED 5% SLOPE AND A CROSS SLOPE OF 2%.
  5. 1 IN EVERY 8 HANDICAP STALLS SHALL BE VAN ACCESSIBLE. (BUT NOT LESS THAN ONE)
  6. A VERTICAL CLEARANCE OF 11'4\"/>
- | TOTAL NUMBER OF PARKING SPACES | MIN. REQUIRED HC STALLS |
|--------------------------------|-------------------------|
| 1 - 25                         | 1                       |
| 26 - 50                        | 2                       |
| 51 - 75                        | 3                       |
| 76 - 100                       | 4                       |
| 101 - 150                      | 5                       |
| 151 - 200                      | 6                       |

DISABLED ACCESS PARKING STALL 15



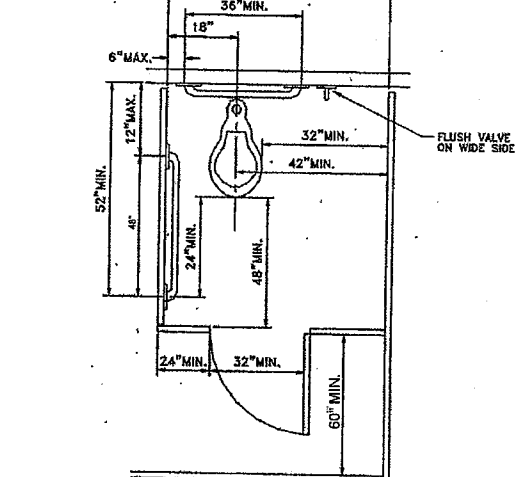
DISABLED ACCESS PARKING SIGN 14



DISABLED ACCESS PARKING SIGN 14

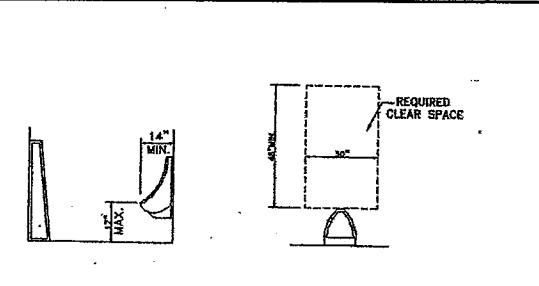
WATER CLOSET MOUNTING HEIGHT 9

SINGLE RESTROOM 6

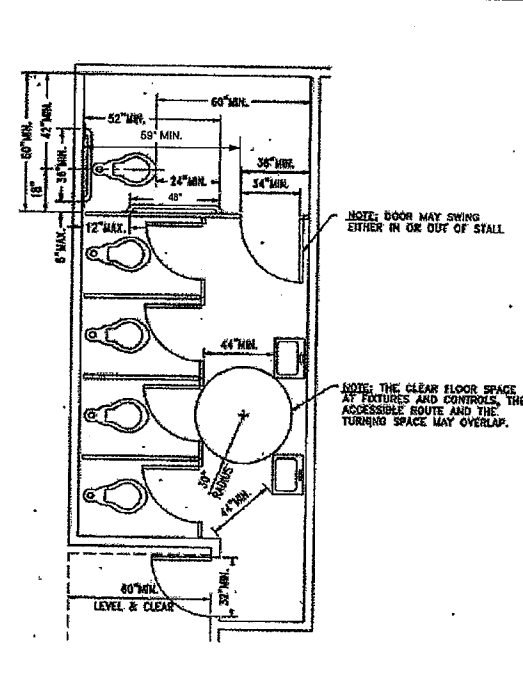


STALL CLEARANCE 7

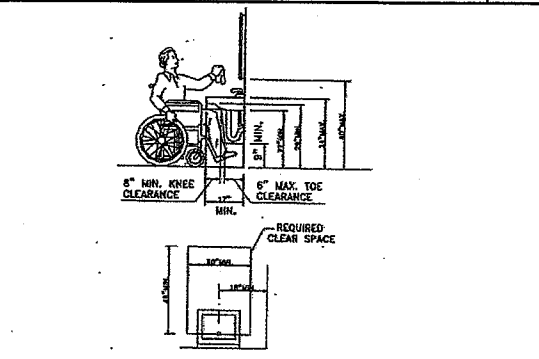
MOUNTING HEIGHTS 3



URINAL CLEARANCE 4



MULTI FIXTURE RESTROOM 8



LAVATORY CLEARANCE 5

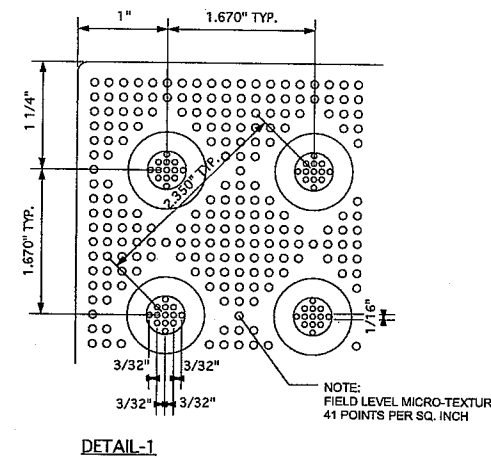
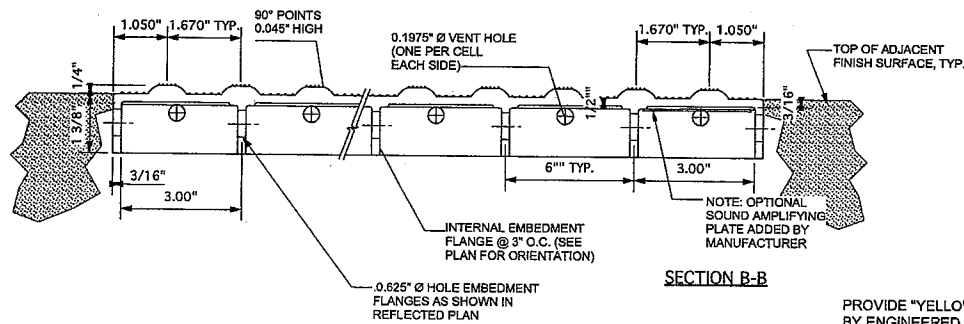
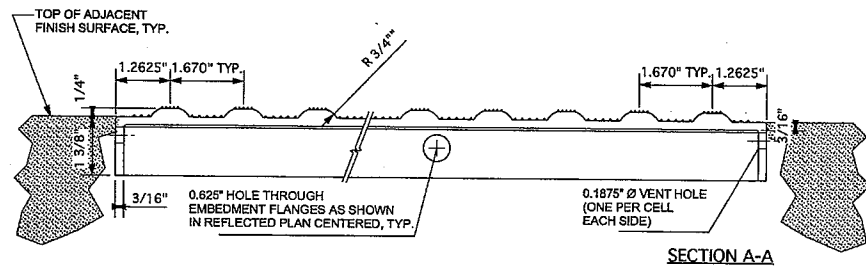
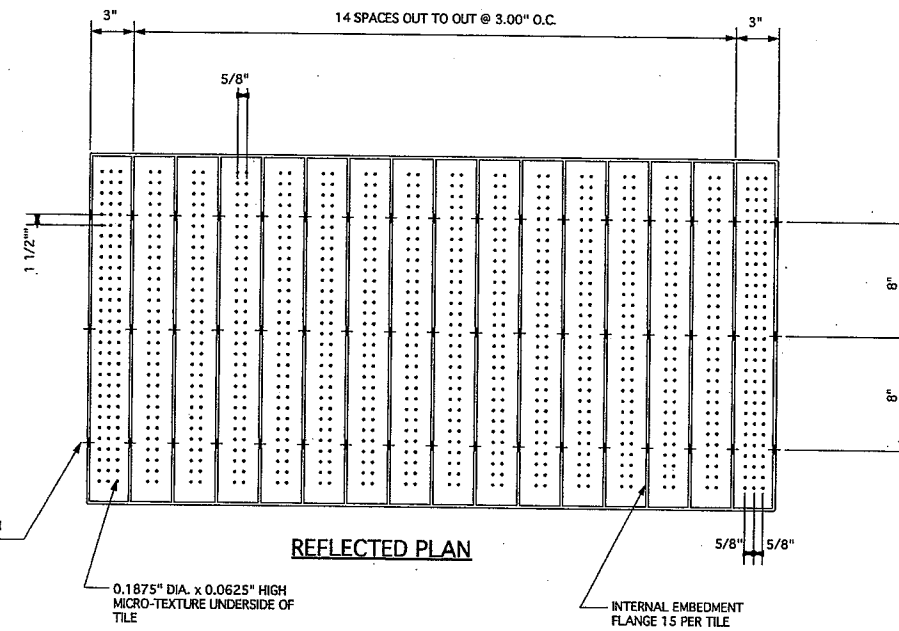
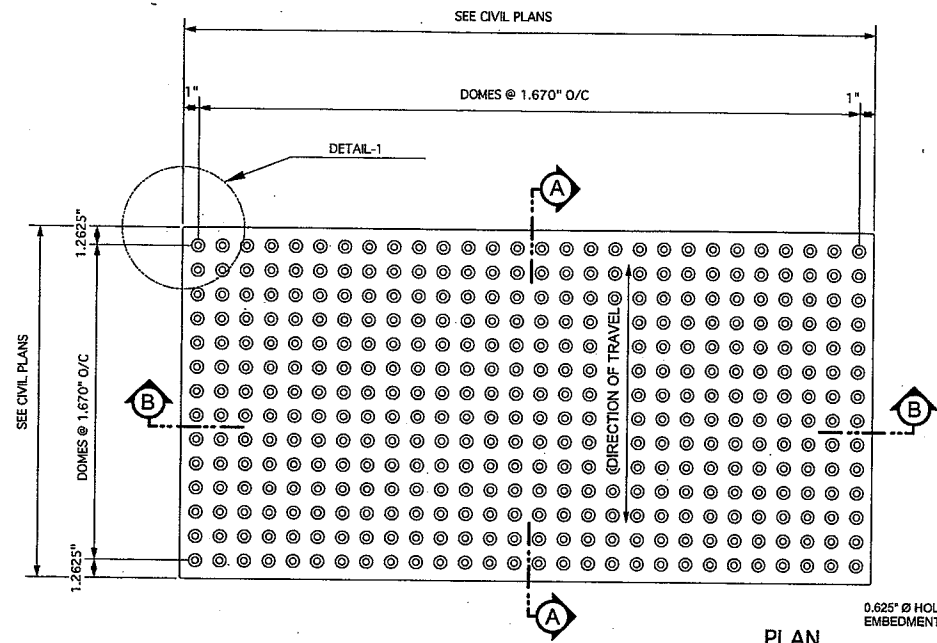
CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVE GOLETA, CA

ADA NOTES

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:

ADA-5



PROVIDE "YELLOW" WARNING SURFACE BY ENGINEERED PRODUCTS OR EQUAL.

NOTE: ONLY APPROVED DSAVAC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED.

DETECTABLE WARNING SURFACE

1

NOT USED

NOT USED

JDO | Dyer

Architecture | Engineering  
5376 N. Sterling Center Drive  
Westlake Village, CA 91361  
Phone 818. 706. 3997  
Fax 818. 706. 2453



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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Revisions

CABRILLO  
BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVE  
GOLETA, CA

DETAILS

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:

ADA-6







**8. LUMBER**

**A. ALL LUMBER SHALL BE GRADE MARKED DOUGLAS FIR - RAFTERS, BEAMS, PURLINS: DOUGLAS FIR NO. 1 UNLESS OTHERWISE NOTED.**

JOISTS, PURLINS 2" TO 4" WIDE, 6" & DEEPER NO. 1 OR BETTER BEAMS, PURLINS OVER 4" WIDE NO. 1 OR BETTER  
SUB PURLINS 2" TO 4" WIDE, 6" & DEEPER NO. 1 OR BETTER LEDGERS NO. 1 OR BETTER  
STUDS 2" X 4" OR 2" X 6" OR 3" X 4" NO. 2  
POSTS 5" X 6" & LARGER NO. 1  
SILLS, PLATES & BLOCKING NO. 2  
NAILER @ JOIST OR GIRDER NO. 2

**B. SILLS AND PLATES IN CONTACT WITH CONCRETE OR MASONRY AND WITHIN 48" OF GROUND SHALL BE PRESSURE TREATED DOUGLAS FIR (PTDF). SILLS SHALL BE BOLTED TO THE FOUNDATION WITH 1/2" DIAMETER 10" BOLTS AT 48" ON CENTER. 12" MINIMUM FROM ENDS OR 2 BOLTS MINIMUM PER PIECE (UNLESS NOTED OTHERWISE).**

**C. STUD WALLS ABUTTING A CONCRETE OR MASONRY WALL SHALL BE BOLTED TO THE WALL WITH 1/2" ANCHOR BOLTS AT 24" ON CENTER.**

**D. ALL NON BEARING STUD WALLS SHALL BE 2 X 4 STUDS AT 16" O.C. TO MAXIMUM HEIGHT OF 14' - 0" WITH 5/8" GYP BOARD EACH SIDE UNLESS OTHERWISE NOTED.**

**E. ALL STUD WALLS SHALL HAVE FULL HEIGHT 1 X6 DIAGONAL LET-IN BRACES AT ENDS AND AT INTERVALS NOT EXCEEDING 26' ON CENTER UNLESS OTHERWISE NOTED ON PLANS. BRACES SHALL COVER A MINIMUM OF SIX STUD SPACES.**

**F. COMMON NAILS SHALL BE USED. BOX NAILS, IF INCREASED IN NUMBER BY 33%, MAY ALSO BE USED.**

**G. FIREBLOCKING, 2" THICK, SHALL BE PLACED IN STUD WALLS AT CEILING AND FLOOR LEVELS, AT EACH 10' HEIGHT OF STUDS, AND BETWEEN STAIR STRINGERS AT SUPPORTS.**

**H. JOISTS SHALL BE BLOCKED AT SUPPORTS AND BRIDGED OR BLOCKED AT INTERVALS OF 8' WHERE JOISTS ARE 2" X 12" OR DEEPER.**

**9. PLYWOOD**

**A. PLYWOOD SHEETS SHALL BE STRUCTURAL 1 CONFORMING TO PS 1-95 AND SHALL BE STAMPED WITH THE APA RATED SHEATHING GRADE MARK OF THE AMERICAN PLYWOOD ASSOCIATION.**

**B. EACH SHEET SHALL HAVE A MINIMUM AREA OF 8 SQ. FT. WITH A MINIMUM DIMENSION OF 2'.**

**C. SEE FRAMING PLAN FOR DIAPHRAGM NAILING SCHEDULE. NAILING SHALL BE INSPECTED AND APPROVED BEFORE COVERING.**

**10. SEQUENCE OF CONSTRUCTION**

**A. POUR CONCRETE FOOTINGS.**

**B. POUR FLOOR SLAB TO WITHIN 2' - 6" OF INSIDE FACE OF WALL EXCEPT WHEN OTHERWISE NOTED ON FOUNDATION PLAN.**

**C. APPLY BOND BREAKING COMPOUND TO FLOOR AREAS TO BE USED AS CASTING SURFACES.**

**D. FORM PANELS AND POUR ON SLAB. TAKE CYLINDERS FOR TESTS OF CONCRETE**

**E. ERECT PANELS AND PROVIDE A MINIMUM OF 2 (TWO) WALL BRACES FROM PANELS TO FLOOR SLAB. SECURE BRACES AND REMOVE RIGGING ONLY AFTER THE PANELS ARE SHIMMED AND COMPLETELY PLUMB. PANEL BRACES ARE TO REMAIN IN PLACE UNTIL ROOF STRUCTURE, INCLUDING SHEATHING AND HARDWARE, HAVE BEEN INSTALLED.**

**F. DRY PACK BOTTOM OF PANEL BEFORE ERECTION OF ROOF STRUCTURE**

**G. COMPLETE CONCRETE FLOOR SLAB.**

**H. ERECT ROOF STRUCTURE.**

**I. FIELD WELD ALL PANEL CONNECTIONS AFTER GIRDERS AND JOIST ARE IN PLACE**

**11. METAL STUDS**

**A. ALL METAL STUDS AND METAL JOISTS SHALL BE GALVANIZED, CONFORM TO ASTM A - 508, AND HAVE A BASE METAL THICKNESS AS INDICATED BELOW (NOTE B) WITH METAL COATING PER APPROVAL REQUIRED.**

**B. METAL STUDS FOR NON-BEARING WALLS SHALL BE SCREWABLE (S.S) MAXIMUM UNSUPPORTED HEIGHT: (WIND LOAD 5 PSF)**

25 GA. - 3 5/8" (362SS25) AT 24" O.C. UP TO 11' - 0" HIGH  
20 GA. - 3 5/8" (362SS20) AT 16" O.C. UP TO 16' - 0" HIGH  
20 GA. - 6" (600SS20) AT 18" O.C. UP TO 24' - 0" HIGH  
18 GA. - 6" (600SS20) AT 16" O.C. UP TO 26' - 6" HIGH  
18 GA. - 8" (800SS20) AT 16" O.C. UP TO 34' - 0" HIGH

**C. METAL STUDS SHALL BE MANUFACTURED BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA), CEMCO STRUCTURAL STEEL FRAMING, ICC - #ER-3403P, OR APPROVED EQUAL BY METAL STUD MANUFACTURERS' ASSOCIATION MEMBERS.**

**D. METAL STUDS SHALL BE INSTALLED PER THEIR APPROVAL AND MANUFACTURER'S RECOMMENDATIONS.**

**E. THE CONTRACTOR SHALL CALL THE ENGINEER TO INSPECT THE LIGHT GAUGE METAL FRAMING AND BRACING CONSTRUCTION AND SHALL CORRECT ANY DEFICIENCIES OR ADD ANY NECESSARY FASTENERS OR MEMBERS PER ENGINEER'S INSTRUCTION PRIOR TO INSTALLATION OF ANY COVERING OR CEILING TILES.**

**F. MINIMUM OF (2) #8 SCREWS ARE REQUIRED FOR ATTACHMENT OF ANY MEMBER NOT SHOWN ON DETAILS OR AS RECOMMENDED BY STUD MANUFACTURES.**

**G. THE CONTRACTOR SHALL PROVIDE LATERAL SUPPORT FOR FULL HEIGHT AT BOTH FACES OF STUDS WHERE WALL COVERINGS DO NOT OCCUR. THE BRACING SIZES SHALL BE PER MANUFACTURES RECOMMENDATIONS.**

**H. IN LIEU OF STRAP BRACING GIVEN ABOVE, CONTINUOUS COLD ROLLED LATERAL BRACING - 1 1/2" X 16 GA CHANNEL (BLACK IRON), MAY BE PROVIDED AT MAXIMUM SPACING GIVEN IN ICBO REPORT # ER - 3404 P.**

**J. CONTINUOUS INSPECTION SHALL BE REQUIRED FOR ALL LIGHT GAGE STEEL WELDING.**

**K. PROVIDE AND INSTALL HEAVIER GAGE STUDS, STIFFENERS, BRACING, BACK-UP PLATES, ETC., AS REQUIRED AT STUD WALLS FOR SUPPORT OF TOILET ROOM FIXTURES AND OTHER EQUIPMENT.**

**L. THE ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE TO INSPECT LIGHT GA. FRAMING PRIOR TO COVERING. ADDITIONAL FRAMING / BRACING MAY BE REQUIRED AT THIS TIME.**

**M. THE CONSTRUCTION OF GYPSUM ASSEMBLY SHALL BE PER THE LATEST MANUAL OF "GYPSUM CONSTRUCTION HANDBOOK" PUBLISHED BY THE UNITED STATES GYPSUM COMPANY.**

**N. THE CONTRACTOR SHALL PROVIDE PROPER VERTICAL EXPANSION JOINTS IN THE CONSTRUCTION OF CONTINUOUS RUN OF GYPSUM WALLS TO RELIEVE THE STRESSED CAUSED BY EXPANSION AND CONTRACTION. MAXIMUM SIZE AND SPACING SHALL BE AS RECOMMENDED IN CONSTRUCTION INDUSTRY OR AS RECOMMENDED BY THE "GYPSUM CONSTRUCTION HANDBOOK".**

**13. PERMIT**

THE PERMIT APPLICANT SHALL RETAIN THE DESIGN ENGINEER OR ARCHITECT OF RECORD OR OTHER RESPONSIBLE ENGINEER APPROVED BY THE BUILDING OFFICIAL TO ENSURE THAT:

**A. ALL ELEMENTS OF CONSTRUCTION WHICH REQUIRE SPECIAL INSPECTION PER CHAPTER 17 OF THE 2007 CBC SHALL BE INSPECTED BY QUALIFIED DEPUTY INSPECTORS APPROVED BY THE BUILDING OFFICIAL. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE CONTINUOUS INSPECTION FOR THE FOLLOWING TYPE OF WORK:**

- 1) FIELD WELDING
- 2) EPOXY INJECTION OF ANCHOR BOLTS
- 3) INSTALLATION OF HIGH-STRENGTH BOLTS
- 4) PLACEMENT OF CONCRETE

**B. ALL CODE DEFICIENCIES DETECTED AND DEVIATIONS FROM THE APPROVED PLANS ARE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF NOT CORRECTED, REVISED DESIGNS TO OVERCOME THE DEFICIENCY SHALL BE PREPARED BY THE DESIGN ENGINEER OR ARCHITECT OF RECORD FOR APPROVAL BY THE BUILDING OFFICIAL.**

**C. ALL CORRECTIVE WORK REQUIRED IS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS, AND CITY ADOPTED CODES.**

**D. FINAL INSPECTION REPORT, SIGNED BY THE SPECIAL INSPECTOR AND THE RESPONSIBLE ENGINEER, IS SUBMITTED TO THE BUILDING OFFICIAL UPON THE COMPLETION OF EACH ELEMENT REQUIRING SPECIAL INSPECTION. THE REPORT MUST CERTIFY THAT THE WORK WAS IN COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND APPLICABLE CITY CODES INCLUDING ANY AUTHORIZED CHANGES TO THE PLANS**

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VINCENT DYER  
C 12762



G.O. DYER

NO. 934

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Revisions

**CABRILLO  
BUSINESS PARK  
BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

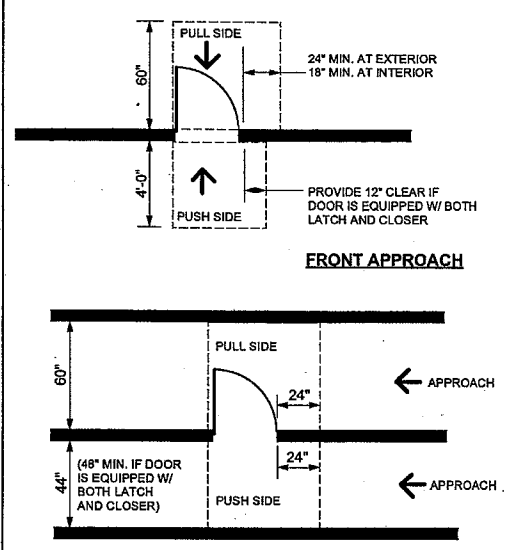
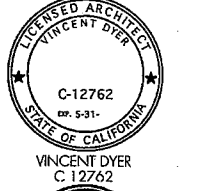
GENERAL NOTES

Date: 11-18-09

Job: 0904

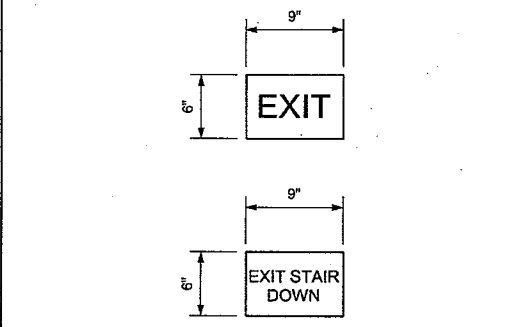
Drawn by:

Sheet :



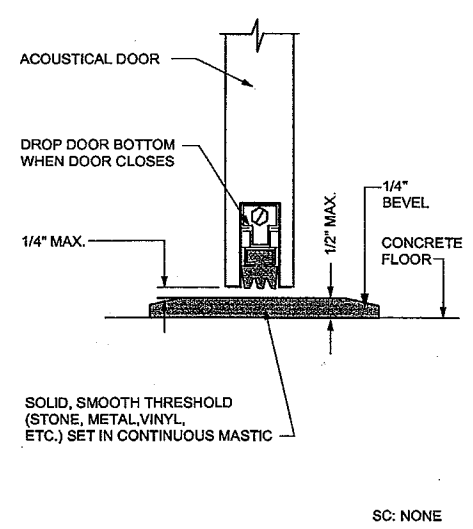
NOTE: FLOOR OR LANDING NOT MORE THAN 1/2" IS REQUIRED ON EACH SIDE OF EXIT DOORS

LEVEL MANEUVERING AT DOORS 4



- CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT US MEASURED USING AN UPPERCASED "X". LOWERCASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1133B.8.6 (CBC), THE MINIMUM CHARACTER HEIGHT SHALL BE 3 INCHES.
- WHEN RAISED CHARACTERS ARE REQUIRED OR WHEN PICTORIAL SYMBOLS ARE USED ON SUCH SIGNS, THEY WHALL CONFORM TO THE FOLLOWING:  
a) CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 CALIFORNIA BRAILLE COMPLYING WITH SECTION 1117B.5.6 (CBC).  
b) CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH AND A MAXIMUM OF 2 INCHES HIGH.  
c) PICTORIAL SYMBOL SIGNS: PICTORIAL SYMBOl SIGNS SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT.
- CONTRACTED GRADE 2 CALIFORNIA BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS.
- WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALLS ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTER LINE OF HTE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.

TACTILE EXIT SIGNAGE 5

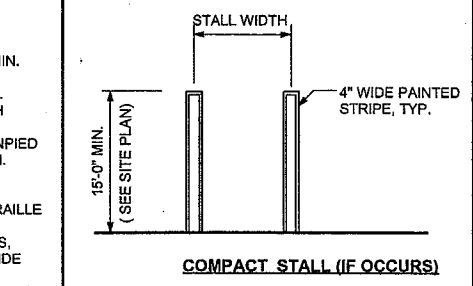
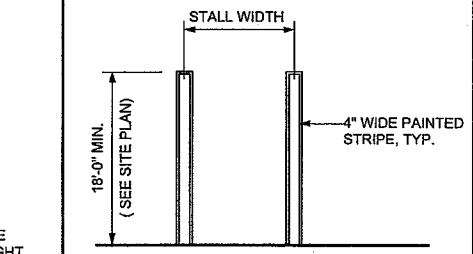


THRESHOLD @ DOOR W/ AUTO CLOSER 1



TO BE APPLIED TO ALL ACCESSIBLE ENTRIES

DISABLE ACES ENTRY DECAL 2



TYPICAL PARKING STALL 3

HARDWARE

#	DESCRIPTION
1	ALUMINIUM PUSH / PULL PLATE
2	CLOSER
3	CONCEALED CLOSER
4	PASSAGE
5	PRIVACY
6	KEY LOCK
7	CYLINDER LOCK
8	ASSISTED OPENER AND TIMED CLOSER
9	PUSH / PULL PLATE
10	SCHLAGE "L" LOCK 09/626 FINISH
11	FACTORY STANDARD
12	LOCK AT SILL PLATE
13	SIGN "EXIT"
14	SIGN "MEN" (SEE HANDICAP NOTES & DETAILS)
15	SIGN "WOMEN" (SEE HANDICAP NOTES & DETAILS)
16	UNISEX SIGN (SEE HANDICAP NOTES & DETAILS)
17	20 MINUTE ASSEMBLY
18	PANIC HARDWARE
19	DOOR COORDINATOR
20	SELF-LOCKING
21	DROP SILL - SEE DETAIL 1 / D-4 (THIS SHEET)
22	POWER ASSISTED - SARGENT OR EQ. HAND ACTIVATION CENTERED 30" TO 44" A.F.F.
23	10" HIGH "KICK PLATE"

INTERIOR

ALL INTERIOR LOCKSETS AND LATCHSETS SHALL BE: SCHLAGE D SERIES 626 FINISH WITH 2 3/4" BACKSET  
ALL OFFICE DOOR BUTTS SHALL MATCH DOOR HARDWARE FINISH AND SHALL COMPLY WITH ALL APPLICABLE HANDICAPPED REQUIREMENTS.  
PROVIDE FLOOR MOUNTED DOOR STOPS

EXTERIOR

HINGES W/ EXTERIOR PINS SHALL BE EQUIPPED W/ NON-REMOVABLE PINS & 1/4" DIA. STEEL JAMB STUDS & 1/4" MIN. PROJECTION. DEAD BOLTS SHALL CONTAIN HARDENED INSERTS & SHALL HAVE A MIN. THROW OF 1" AND A MIN. EMBEDMENT OF 5/8". CYLINDER GUARDS SHALL BE INSTALLED ON ALL CYLINDER LOCKS PROJECTING PAST THE EXTERIOR FACE OF THE DOOR.

LEGEND

H.C.	HOLLOW CORE	S.F.	STOREFRONT
S.C.	SOLID CORE	O/H	OVERHEAD
H.B.	HARD BOARD	PR.	PAIR

TOILET ROOM ACCESSORIES

- A) RECESSED TOWEL DISPENSER AND WASTE RECEPTACLE (BOBRICK B-3944)
- B) MULTI-ROLL TOILET TISSUE DISPENSER (BOBRICK B-2740)
- C) SOAP DISPENSER (BOBRICK B-195) PROVIDE ONE FOR EVERY TWO LAV'S
- D) SOAP DISPENSER FOR COUNTER TOP INSTALLATION (BOBRICK B-8221) PROVIDE ONE FOR EVERY TWO LAVS.
- E) MIRROR AT COUNTER TOP LAV'S (BOBRICK B-290) SERIES VERIFY SIZE W / JDO + ASSOCIATES
- F) MIRROR AT WALL MOUNTED LAV. (BOBRICK B-165 1830)
- G) NAPKIN / TAMPON VENDOR (BOBRICK B-352) IF REQ'D. VERIFY W / OWNER
- H) SANITARY NAPKIN DISPOSAL (BOBRICK B-271) ONE FOR EACH TOILET
- J) TOILET SEAT COVER DISPENSER (BOBRICK B-221)

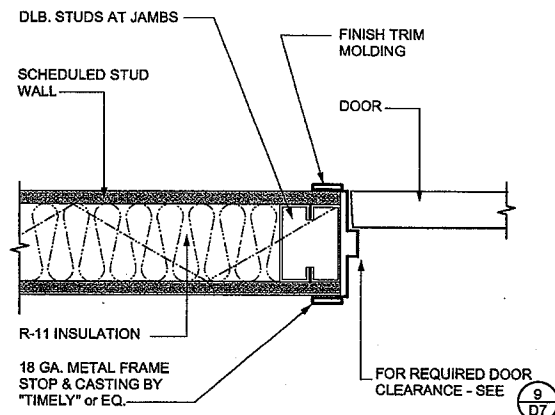
INTERIOR FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	WAINSCOT	CEILING	HT.	REMARKS
100	TENANT SPACE							
101	FIRE SPRINKLER ROOM							
102	VESTIBULE						8'-0"	
103	ELECTRICAL ROOM							
104	STAIR NO. 3							
105	ELECTRICAL ROOM							
106	MEN						8'-0"	
107	WOMEN						8'-0"	
108	SHOWER						8'-0"	
109	SHOWER						8'-0"	
110	ELEVATOR EQUIPMENT RM.							
111	STAIR NO. 1							
112	LOBBY							
113	STAIR NO. 3							
200	TENANT SPACE							
201	MEN						8'-0"	
202	WOMEN						8'-0"	
203	JANITOR'S ROOM							
204	LOBBY							
205	ELECTRICAL ROOM							

DOOR SCHEDULE

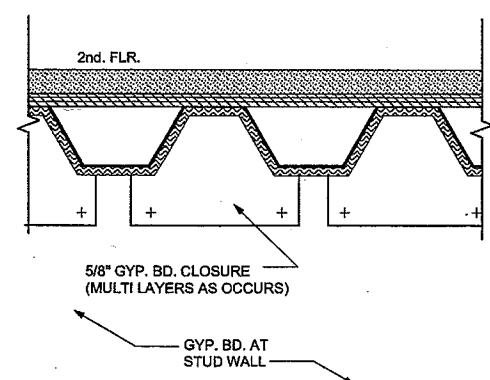
DOOR NUMBER	WIDTH	HEIGHT	THK.	MATERIAL	TYPE	HARDWARE	FINISH	FRAME	REMARKS
1	NOT USED								
2	3'-0"	9'-0"	STD.	ALUM. / GLASS	S.F.	1, 3, 7, 23	ANOD. ALUM.	ALUM.	
3	PR. 3'-0"	10'-0"	STD.	ALUM. / GLASS	S.F.	1, 3, 7, 13, 23	ANOD. ALUM.	ALUM.	ENTRY DECAL 2/D-4
4	PR. 3'-0"	10'-0"	STD.	ALUM. / GLASS	S.F.	1, 3, 7, 13, 23	ANOD. ALUM.	ALUM.	ENTRY DECAL 2/D-4
5	PR. 3'-0"	10'-0"	STD.	ALUM. / GLASS	HERCULITE	1, 3, 7, 13, 22	ANOD. ALUM.	ALUM.	ENTRY DECAL 2/D-4
6	PR. 3'-0"	10'-0"	STD.	ALUM. / GLASS	S.F.	1, 3, 8, 12, 13, 23	ANOD. ALUM.		ENTRY DECAL 2/D-4
7	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 6	PREFIN.	METAL	
8	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 6	PREFIN.	METAL	
9	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 6	PREFIN.	METAL	
10	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 9, 14	PREFIN.	METAL	
11	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 9, 15	PREFIN.	METAL	
12	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 17, 20, 21	PREFIN.	METAL	STC 55 RATED
13	ELEVATOR								
14	NOT USED								
15	NOT USED								
16	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 13	PREFIN.	METAL	
17	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 9, 14	PREFIN.	METAL	
18	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 9, 15	PREFIN.	METAL	
19	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 4, 13	PREFIN.	METAL	
20	ELEVATOR								
21	3'-0"	7'-0"	1 3/4"	H.B.	S.C.	2, 6	PREFIN.	METAL	



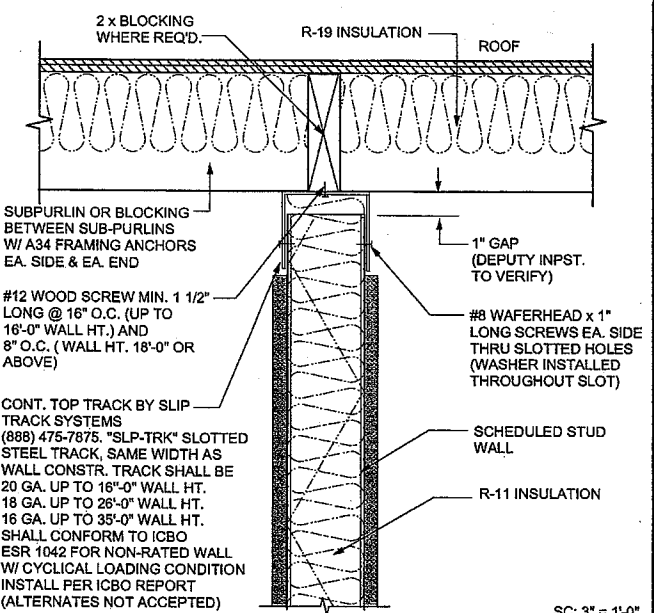


PLAN VIEW

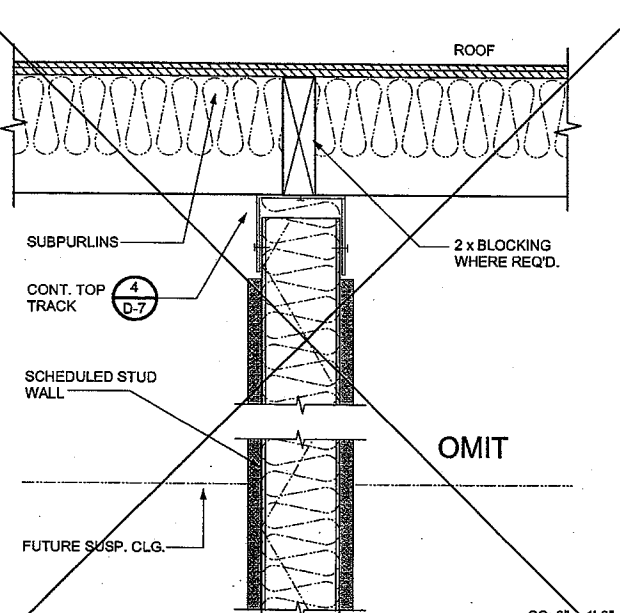
SC: 3" = 1'-0"



SC: 3" = 1'-0"



SC: 3" = 1'-0"



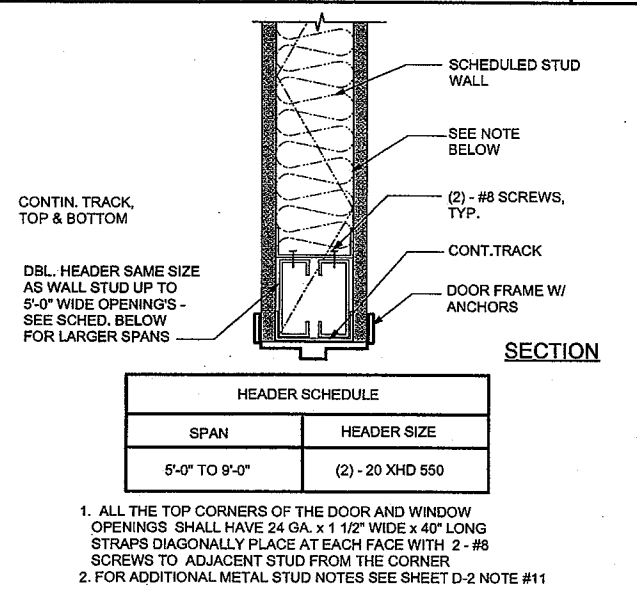
SC: 3" = 1'-0"

DOOR JAMB 10

DETAIL 7

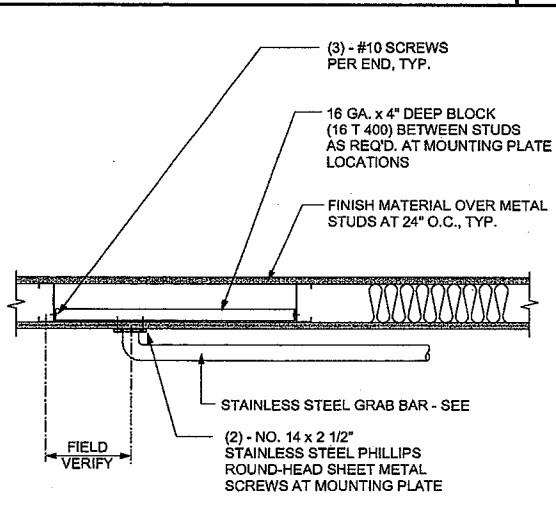
TOP TRACK TO ROOF 4

TOP TRACK TO ROOF 1



SECTION

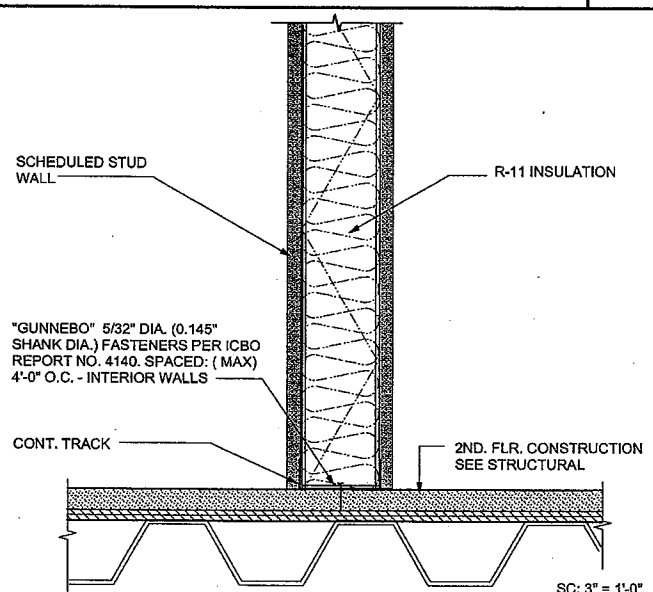
DOOR HEADER 11



PLAN VIEW

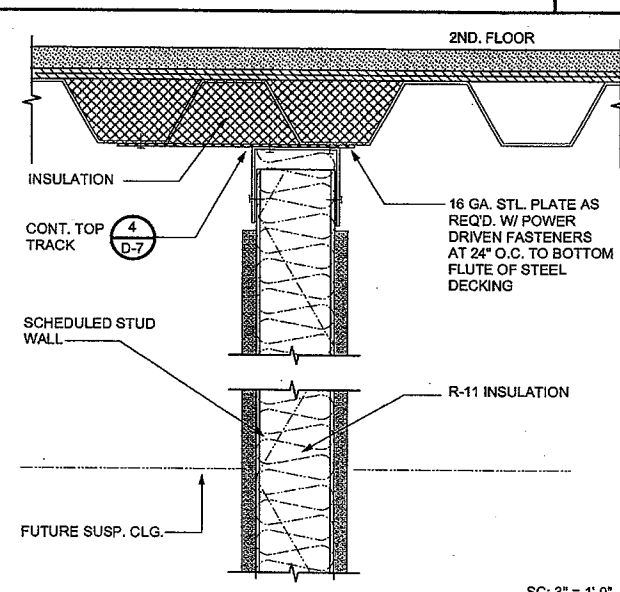
SC: 1 1/2" = 1'-0"

GRAB BAR MOUNTING DETAIL 8



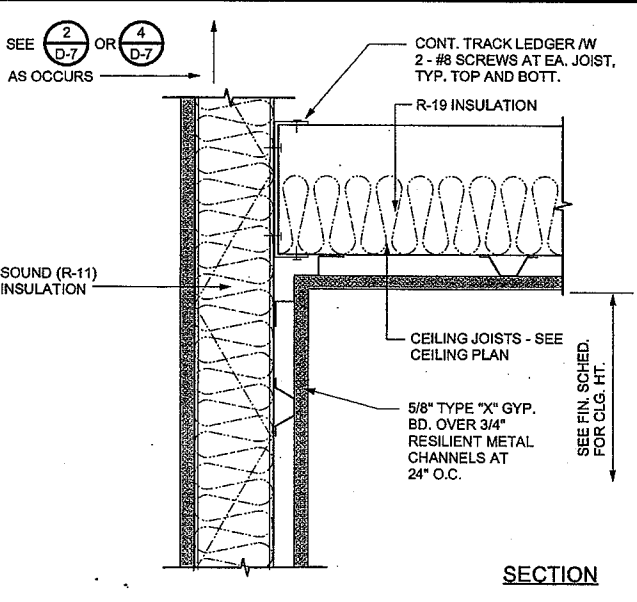
SC: 3" = 1'-0"

BOTTOM TRACK TO SECOND FLOOR SLAB 5



SC: 3" = 1'-0"

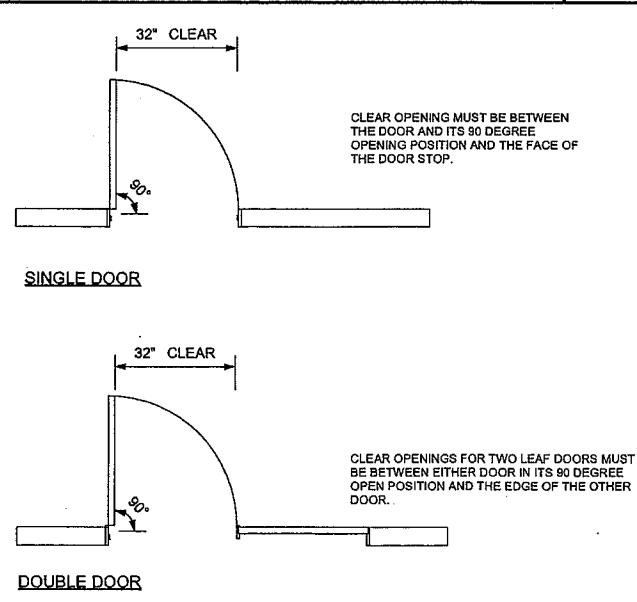
TOP TRACK TO SECOND FLOOR 2



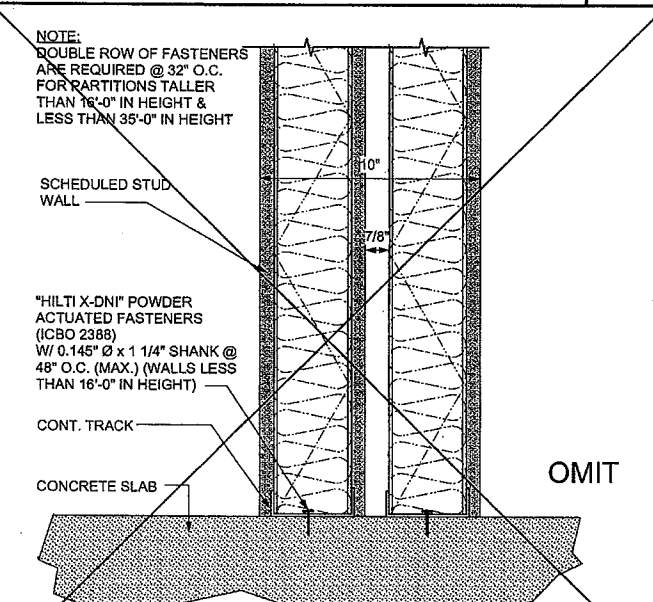
SECTION

SC: 3" = 1'-0"

CEILING JOIST TO WALL 12

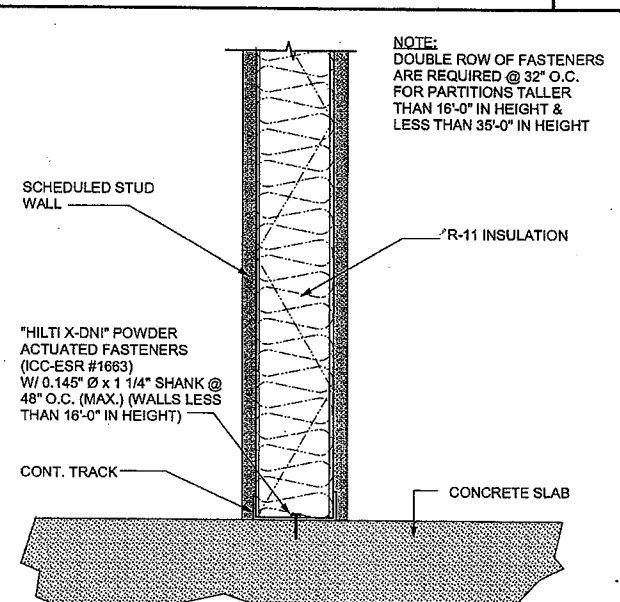


CLEAR DOOR WIDTH 9



SC: 3" = 1'-0"

DOUBLE WALL 6



SC: 3" = 1'-0"

BOTTOM TRACK TO FIRST FLOOR SLAB 3

**JDO | Dyer**  
 Architecture | Engineering  
 5376 N. Sterling Center Drive  
 Westlake Village, CA 91361  
 Phone 818. 706. 3997  
 Fax 818. 706. 2453

REGISTERED ARCHITECT  
 VINCENT DYER  
 C-12762  
 EXP. 5-31-10  
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
 E.O. DYER  
 NO. 934  
 EXP. 12-31-10  
 STATE OF CALIFORNIA

G.O. DYER  
 NO. 934

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Revisions

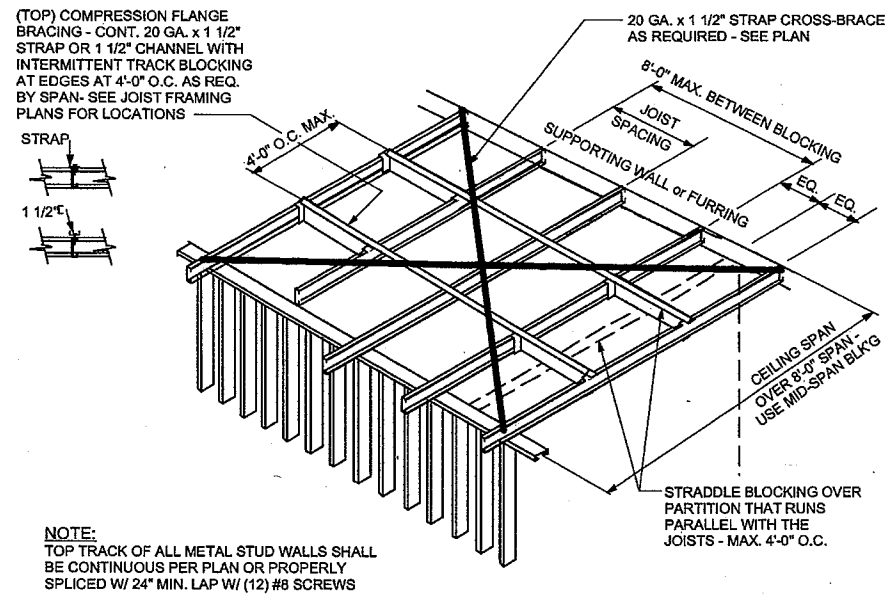
**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

**DETAILS**

Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet:

**D-7**  
 NOTE: SHEET D-4 PRECEDES THIS SHEET

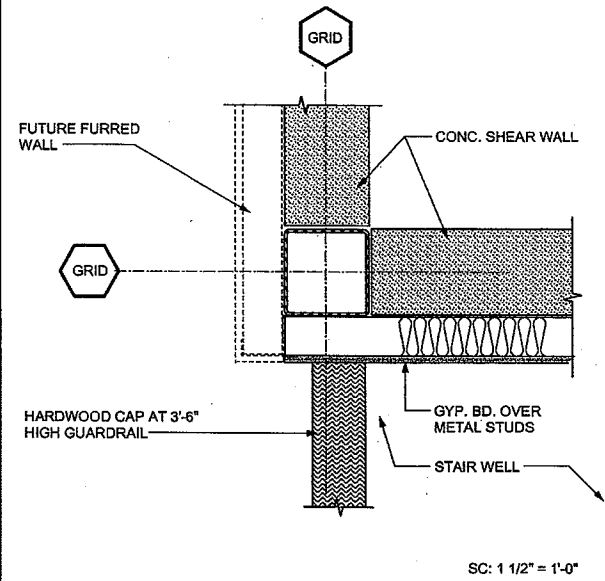
NOT USED



12

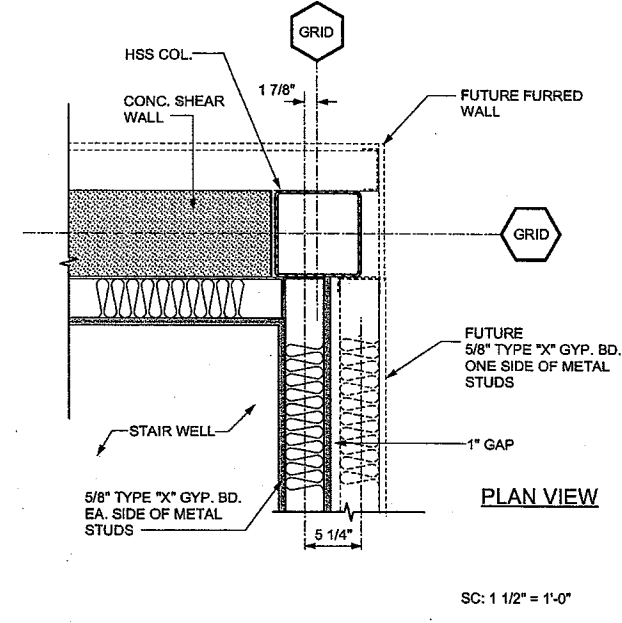
CEILING JOIST FRAMING

7



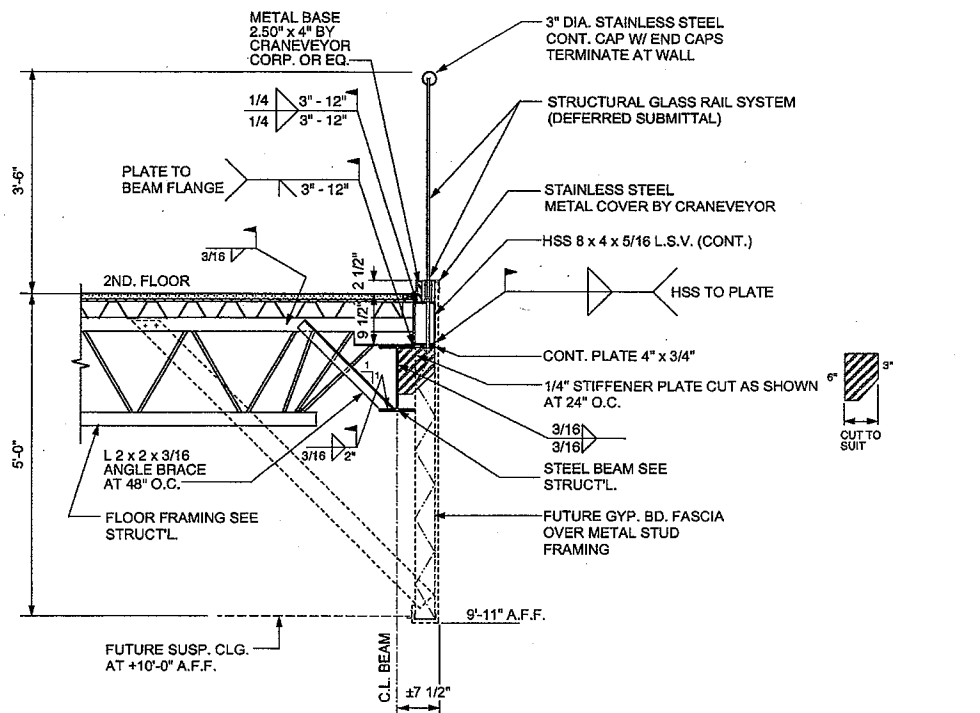
DETAIL

4



DETAIL

1

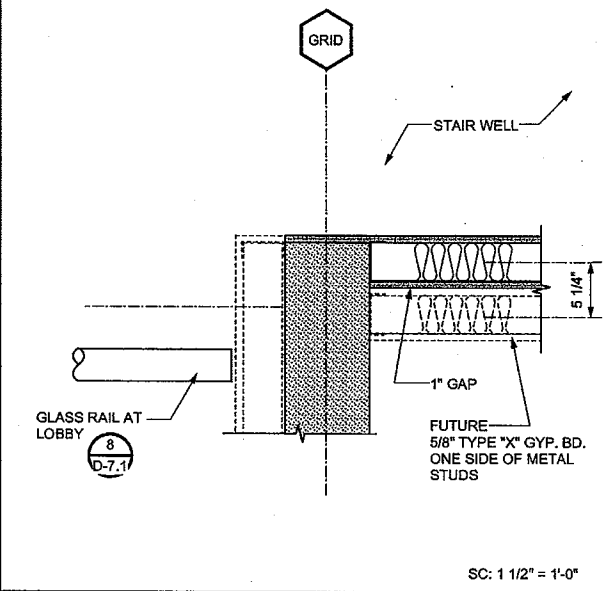


GLASS GUARDRAIL SHALL BE A DEFERRED SUBMITTAL

SC: 3/4" = 1'-0"

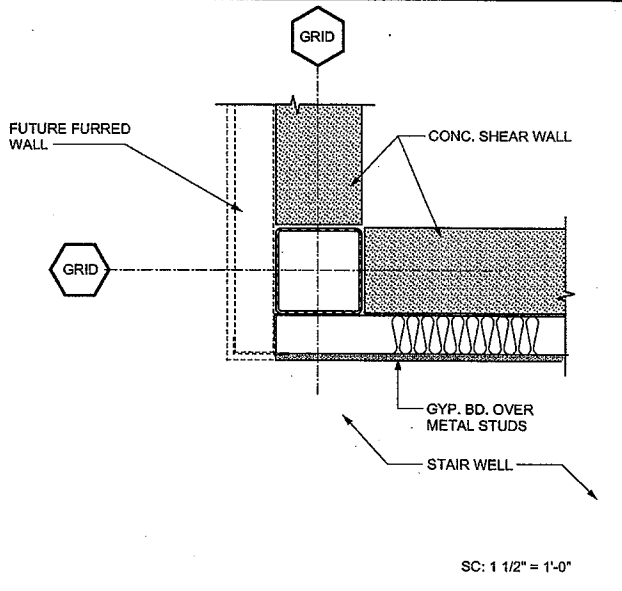
SECTION AT GUARDRAIL

8



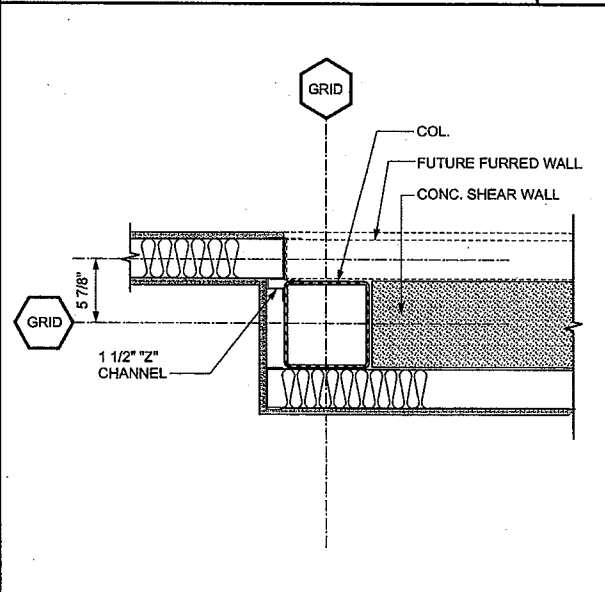
DETAIL

5



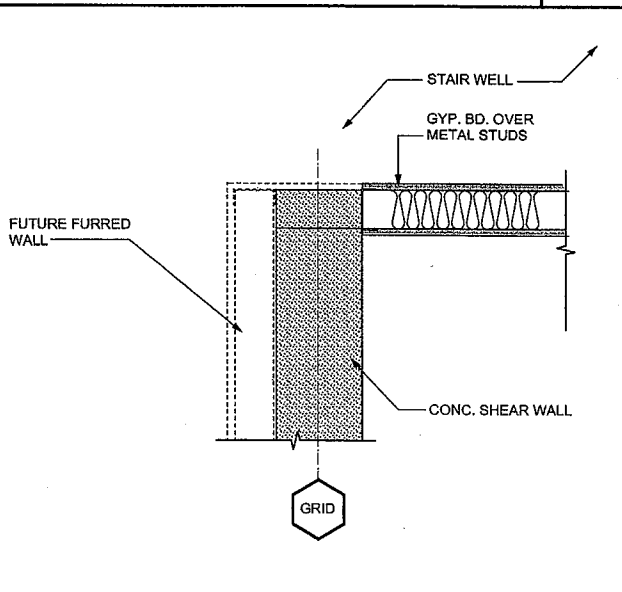
DETAIL

2



DETAIL

6

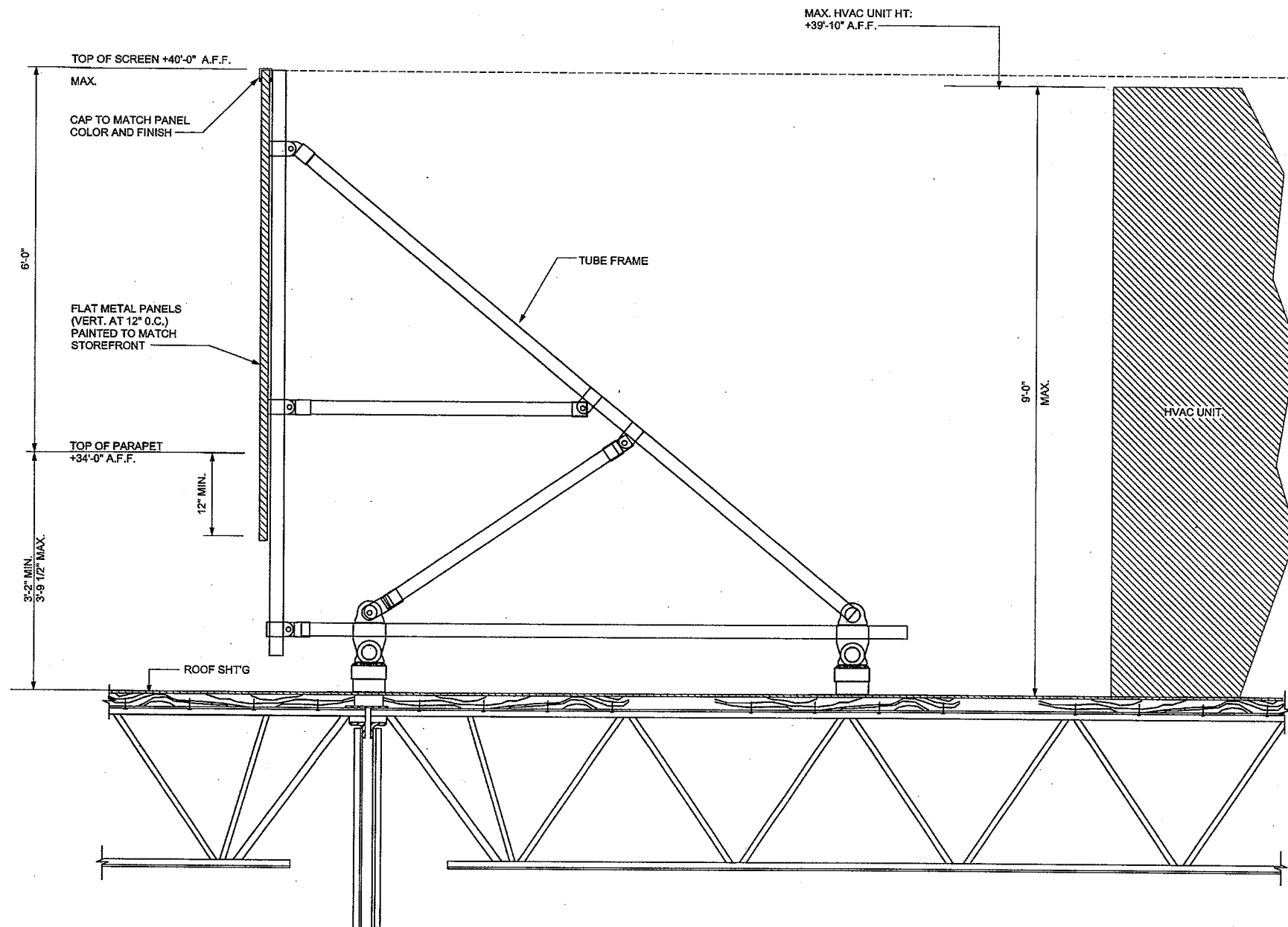


DETAIL

3

<p>DETAIL 13</p>	<p>DETAIL 10</p>	<p>DETAIL 7</p>	<p>DETAIL 4</p>	<p>DETAIL 1</p>
<p>NOT USED</p>	<p>DETAIL 14</p>	<p>DETAIL 8</p>	<p>DETAIL 5</p>	<p>DETAIL 2</p>
<p>NOT USED</p>	<p>DETAIL 15</p>	<p>DETAIL 9</p>	<p>DETAIL 6</p>	<p>DETAIL 3</p>
<p>DETAIL 15</p>	<p>DETAIL 12</p>	<p>DETAIL 9</p>	<p>THRESHOLD 6</p>	<p>SILL 3</p>





MAX. HVAC UNIT HT:  
+39'-10" A.F.F.

TOP OF SCREEN +40'-0" A.F.F.  
MAX.

CAP TO MATCH PANEL  
COLOR AND FINISH

FLAT METAL PANELS  
(VERT. AT 12" O.C.)  
PAINTED TO MATCH  
STOREFRONT

TOP OF PARAPET  
+34'-0" A.F.F.

3'-2" MIN.  
3'-9 1/2" MAX.

12" MIN.

TUBE FRAME

9'-0" MAX.

HVAC UNIT

**NOTE:**  
ROOF SCREEN CONSTRUCTION UNDER SEPARATE PERMIT.  
DESIGNED BY RoofScreen MANUFACTURING, INC.

ROOF SCREEN CONSTRUCTION DRAWING'S SHALL BE A  
DEFERRED SUBMITTAL.

PERMIT TO BE OBTAINED BY CONTRACTOR

**DEFERRED SUBMITTAL: MECHANICAL EQUIPMENT ROOF SCREEN**

1. ROOF SCREEN MANUFACTURER SHALL SUBMIT SHOP DRAWING'S  
TO BE REVIEWED BY THE ENGINEER OF RECORD. UPON REVIEW,  
(3) THREE SETS OF THE PLACEMENT PLANS AND STRUCTURAL DESIGN CALCULATIONS  
SHALL BE SUBMITTED TO THIS OFFICE AND THE ENGINEER OF RECORD SHALL AFFIX:

- a) A PROFESSIONAL ENGINEERS SEAL AND SIGNATURE TO THE PLACEMENT PLAN.
- b) A "REVIEWED" STAMP AND SIGNATURE TO THE CALCULATIONS (THE CALCULATIONS  
SHALL HAVE THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE  
FOR PREPARING THE CALCULATIONS).

THREE (3) SIGNED SETS WILL BE RETURNED TO THE CONTRACTOR, WHO WILL BE RESPONSIBLE  
FOR SUBMITTING TO BUILDING AND SAFETY FOR FINAL APPROVAL.

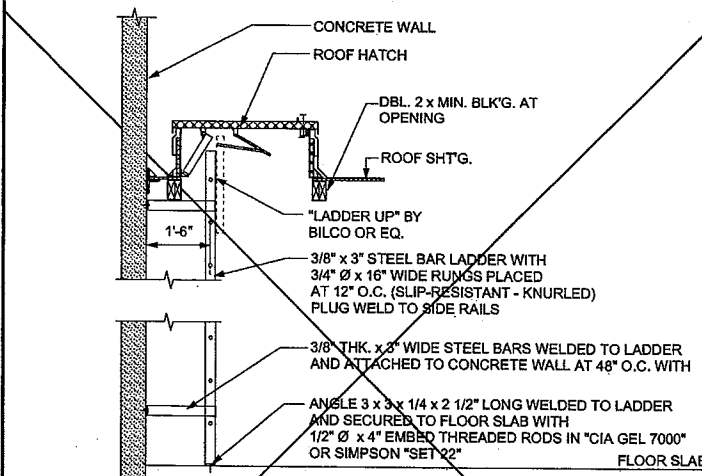
2. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN  
APPROVED BY THE BUILDING OFFICIAL.

ROOF EQUIPMENT SCREEN BY:  
RoofScreen MANUFACTURING, INC.  
347 CORAL STREET  
SANTA CRUZ, CA 95060  
(866) 766-3727

SC: NONE

ROOF EQUIPMENT SCREEN

4



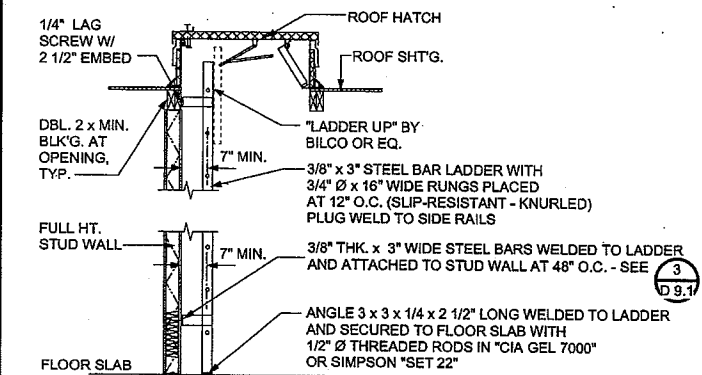
- NOTE:**
1. PROVIDE SAFETY CAGE AT LADDERS OVER 20'-0" HIGH. CAGES TO BE WELDED TO LADDERS STARTING AT +8'-0" A.F.F.
  2. PROVIDE INTERMEDIATE LANDING (W/ SAFETY CAGE) AT LADDERS THAT EXCEED 30'-0" IN HEIGHT (LANDING TO BE MID HEIGHT).
  3. CONTRACTOR TO PROVIDE SHOP DRAWING'S FOR APPROVAL. DESIGN TO COMPLY WITH APPLICABLE OSHA AND LOCAL CODES.
  4. PAINT TO MATCH ADJACENT WALL.

OMIT

SC: 1/2" = 1'-0"

LADDER AT CONCRETE WALL

1

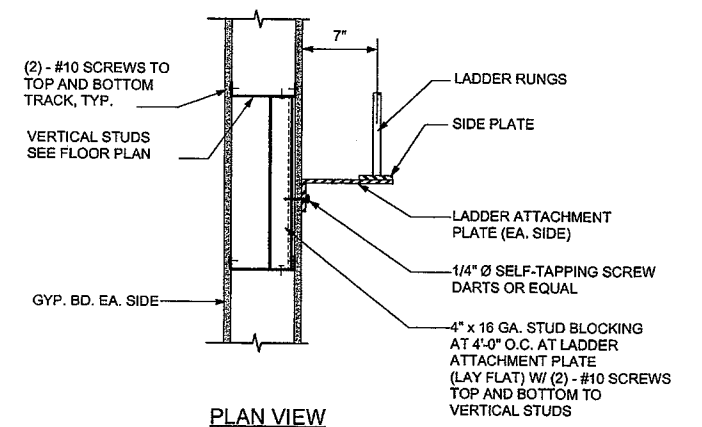


- NOTE:**
1. PROVIDE SAFETY CAGE AT LADDERS OVER 20'-0" HIGH. CAGES TO BE WELDED TO LADDERS STARTING AT +8'-0" A.F.F.
  2. PROVIDE INTERMEDIATE LANDING (W/ SAFETY CAGE) AT LADDERS THAT EXCEED 30'-0" IN HEIGHT (LANDING TO BE MID HEIGHT).
  3. STEEL FABRICATOR TO PROVIDE SHOP DRAWING'S FOR APPROVAL. DESIGN TO COMPLY WITH ALL APPLICABLE OSHA AND LOCAL CODES.
  4. PAINT TO MATCH ADJACENT WALL.

SC: 1/2" = 1'-0"

LADDER AT STUD WALL

2



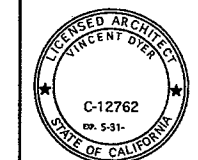
PLAN VIEW

SC: 1 1/2" = 1'-0"

STUD WALL ATTACHMENT

3

**JDO Dyer**  
Architecture | Engineering  
5376 N. Sterling Center Drive  
Westlake Village, CA 91361  
Phone 818. 706. 3997  
Fax 818. 706. 2453



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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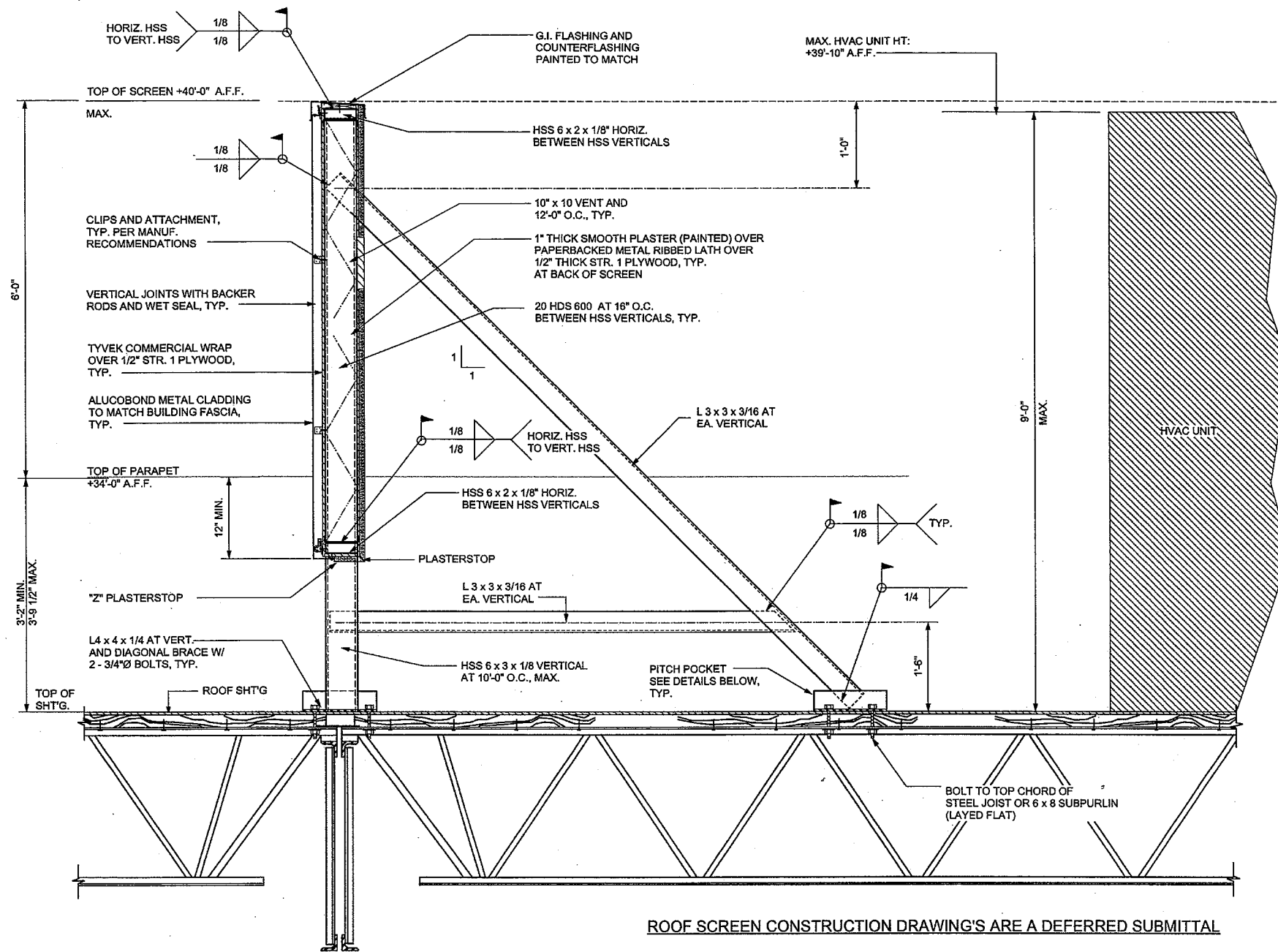
Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
HOLLISTER AVE  
GOLETA, CA

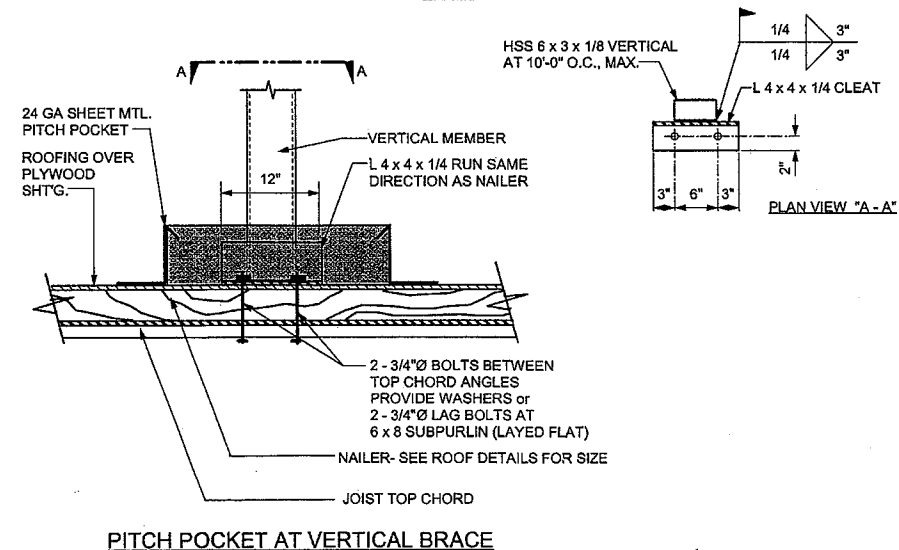
**DETAILS**

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:

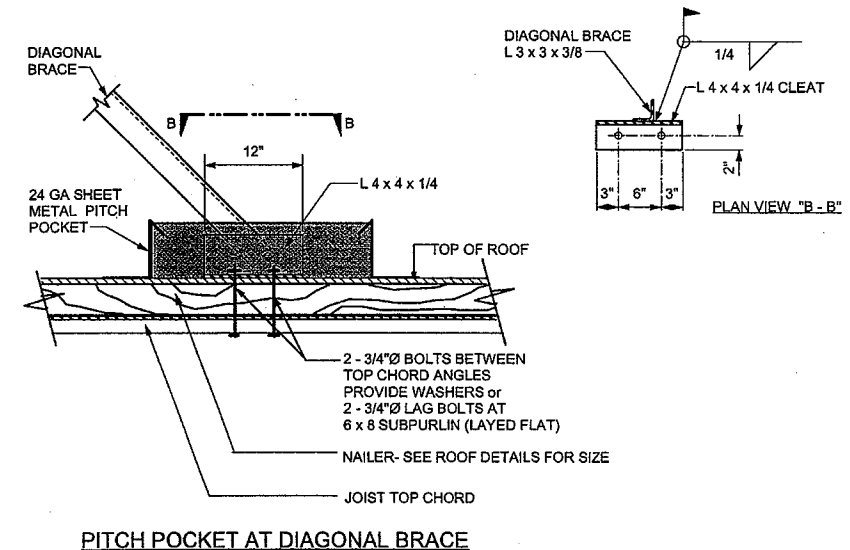
**D-9.1**



ROOF SCREEN CONSTRUCTION DRAWING'S ARE A DEFERRED SUBMITTAL



PITCH POCKET AT VERTICAL BRACE

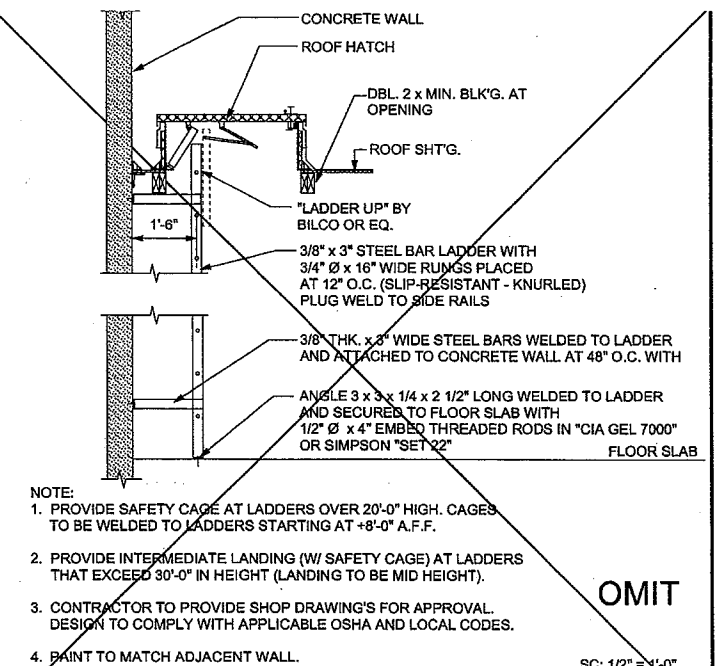


PITCH POCKET AT DIAGONAL BRACE

SC: NONE

ROOF EQUIPMENT SCREEN

4



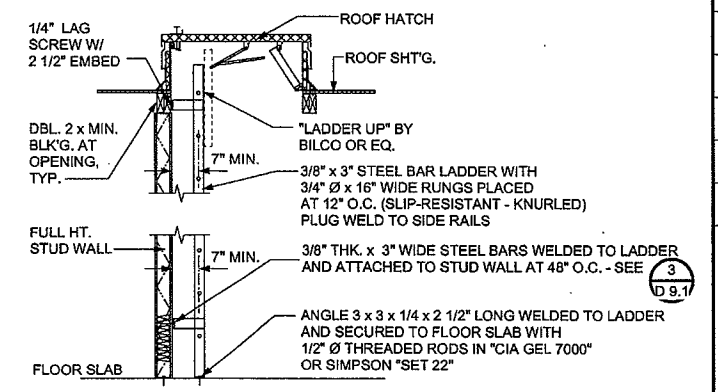
- NOTE:
1. PROVIDE SAFETY CAGE AT LADDERS OVER 20'-0" HIGH. CAGES TO BE WELDED TO LADDERS STARTING AT +8'-0" A.F.F.
  2. PROVIDE INTERMEDIATE LANDING (W/ SAFETY CAGE) AT LADDERS THAT EXCEED 30'-0" IN HEIGHT (LANDING TO BE MID HEIGHT).
  3. CONTRACTOR TO PROVIDE SHOP DRAWING'S FOR APPROVAL. DESIGN TO COMPLY WITH APPLICABLE OSHA AND LOCAL CODES.
  4. PAINT TO MATCH ADJACENT WALL.

OMIT

SC: 1/2" = 1'-0"

LADDER AT CONCRETE WALL

1

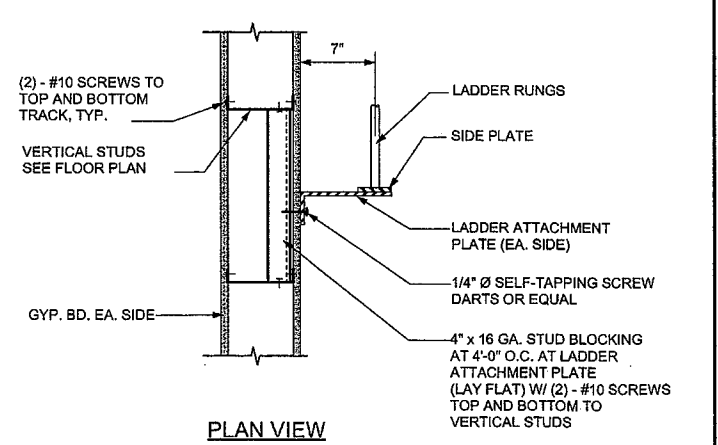


- NOTE:
1. PROVIDE SAFETY CAGE AT LADDERS OVER 20'-0" HIGH. CAGES TO BE WELDED TO LADDERS STARTING AT +8'-0" A.F.F.
  2. PROVIDE INTERMEDIATE LANDING (W/ SAFETY CAGE) AT LADDERS THAT EXCEED 30'-0" IN HEIGHT (LANDING TO BE MID HEIGHT).
  3. STEEL FABRICATOR TO PROVIDE SHOP DRAWING'S FOR APPROVAL. DESIGN TO COMPLY WITH ALL APPLICABLE OSHA AND LOCAL CODES.
  4. PAINT TO MATCH ADJACENT WALL.

SC: 1/2" = 1'-0"

LADDER AT STUD WALL

2



PLAN VIEW

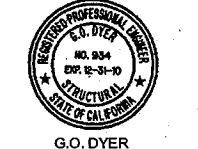
SC: 1 1/2" = 1'-0"

STUD WALL ATTACHMENT

3



VINCENT DYER  
C-12762



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NO. 934

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DETAILS

Date: 11-18-09  
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Drawn by:  
Sheet:







VINCENT DYER  
C-12762



G.O. DYER  
NO. 934  
DIR. 12-31-10  
STRUCTURAL

Revisions

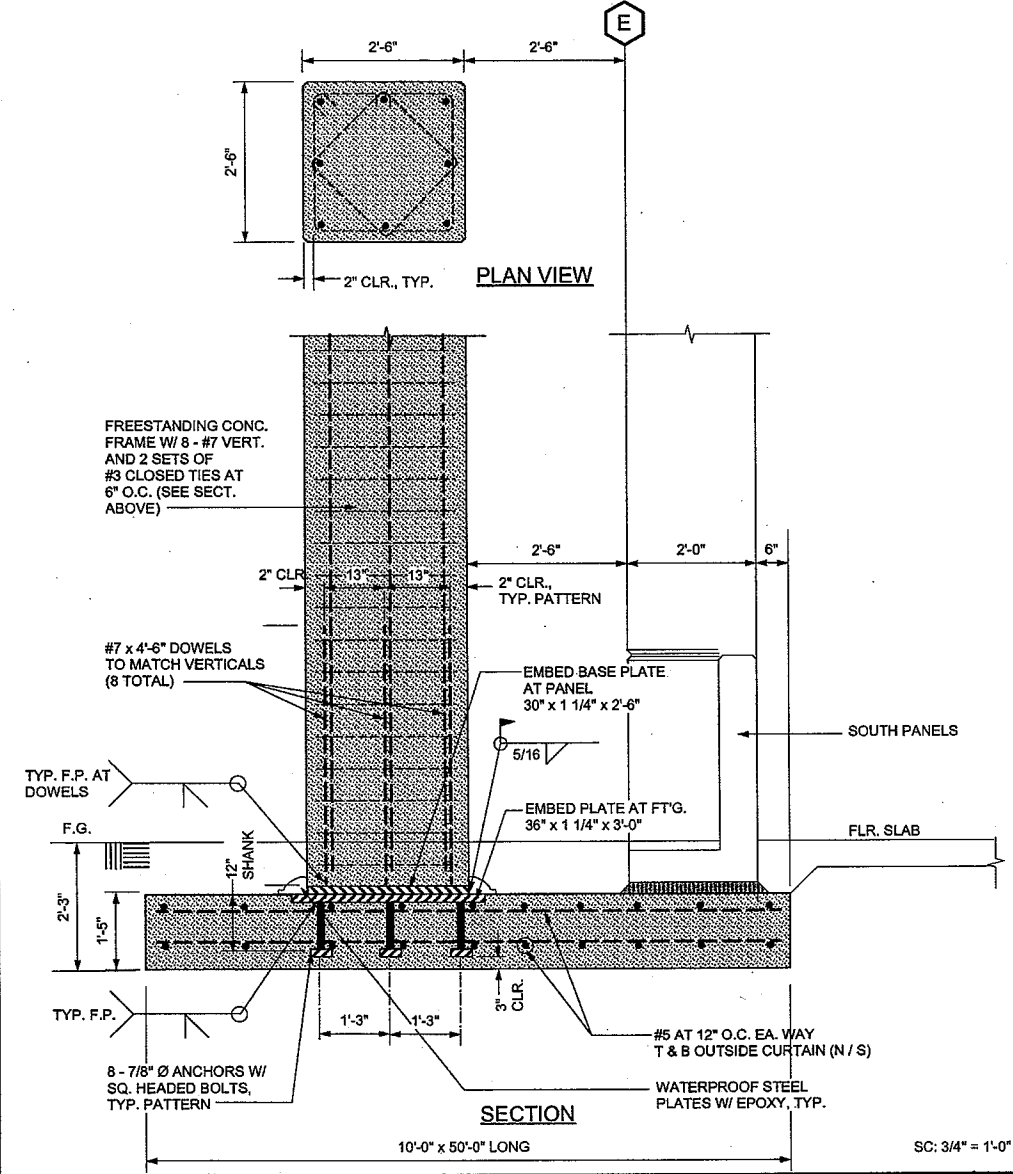
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1	TYPICAL REINFORCING PLACEMENT
2	REIN. AT OPENING
3	PANEL SECTION
4	CORNER POUR STRIP
5	CORNER POUR STRIP
6	REINFORCING @ MITERED CORNER
7	STANDARD PANEL JOINT FILLER
8	CONT. FOOTING
9	BASE CONNECTION AT FREESTANDING FRAME
10	EMBED PLATE AT FOOTING / PANEL

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
HOLLISTER AVE  
GOLETA, CA

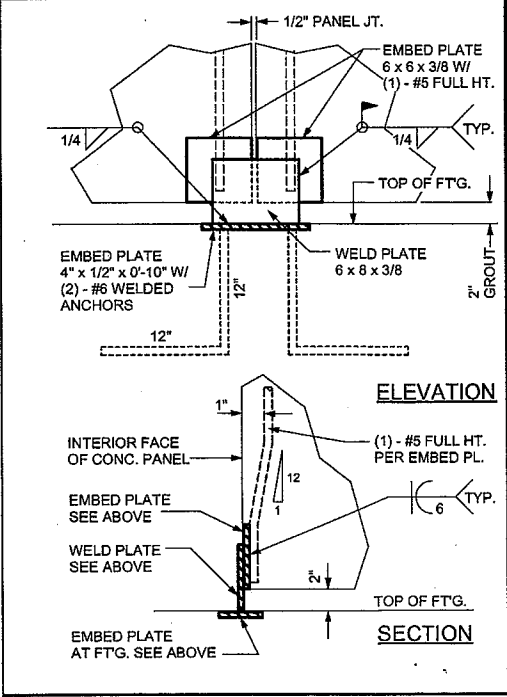
**DETAILS**

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:

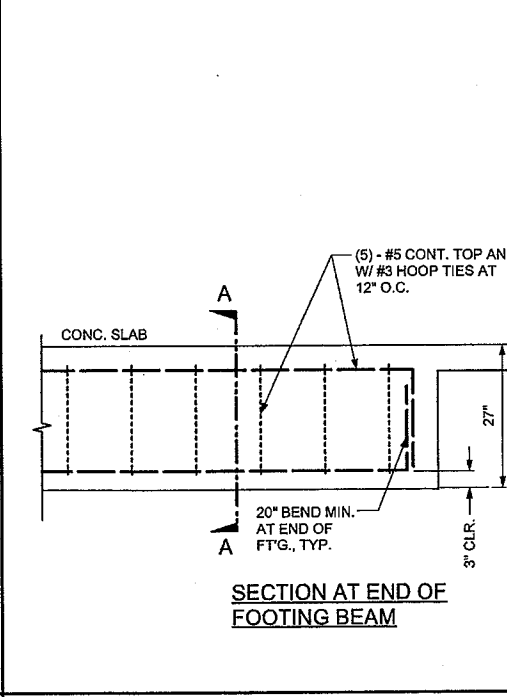
**D-11**



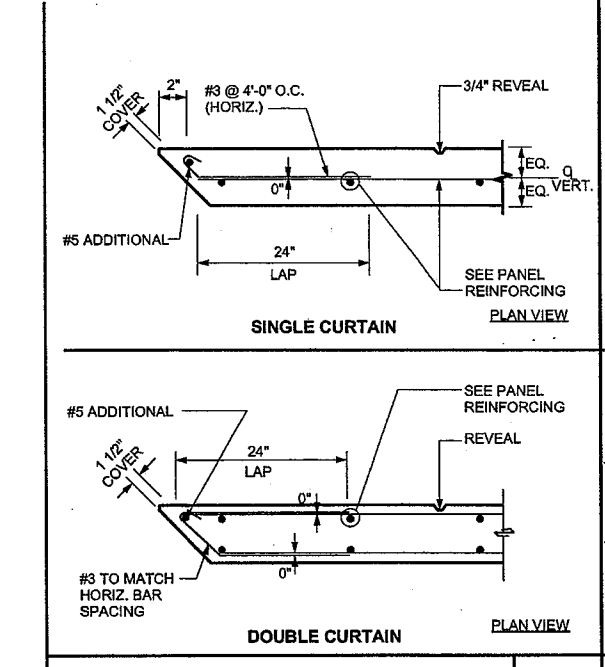
**BASE CONNECTION AT FREESTANDING FRAME** 9



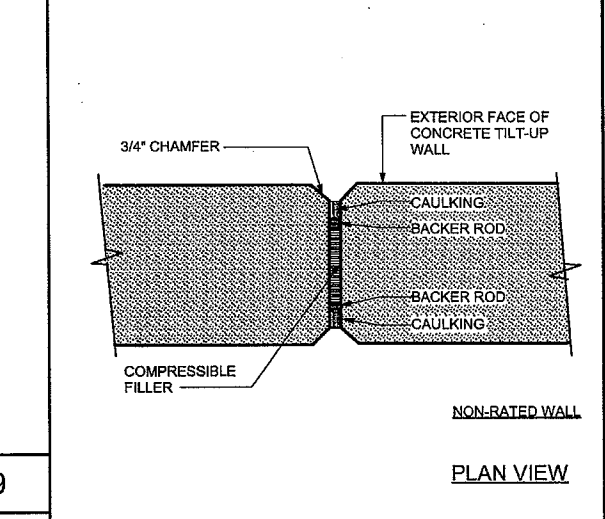
**EMBED PLATE AT FOOTING / PANEL** 10



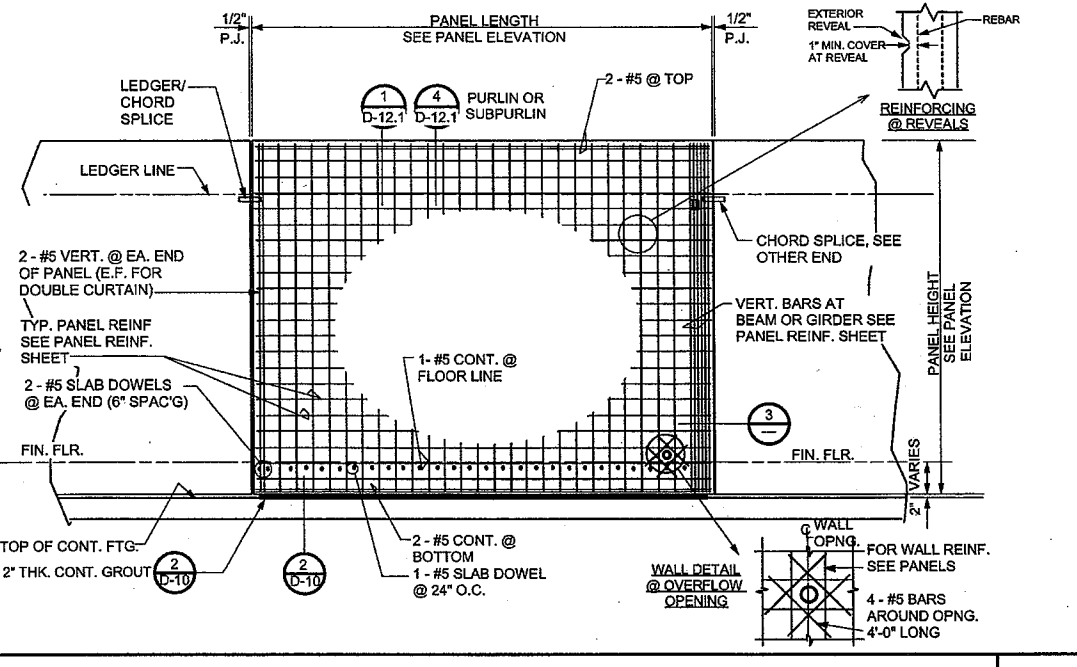
**CONT. FOOTING** 8



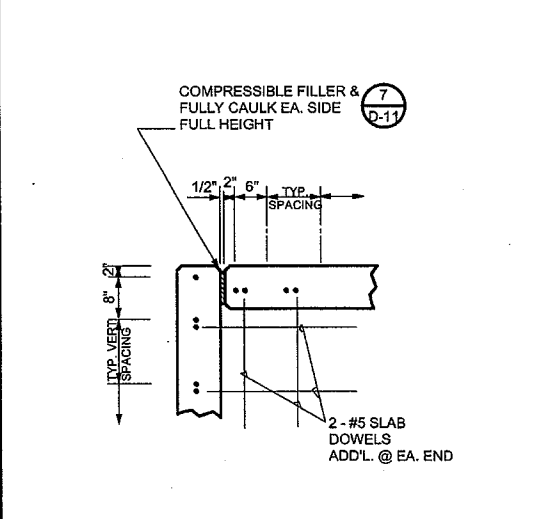
**REINFORCING @ MITERED CORNER** 6



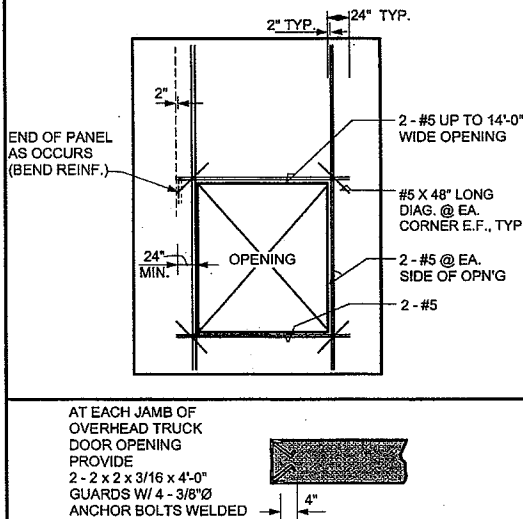
**STANDARD PANEL JOINT FILLER** 7



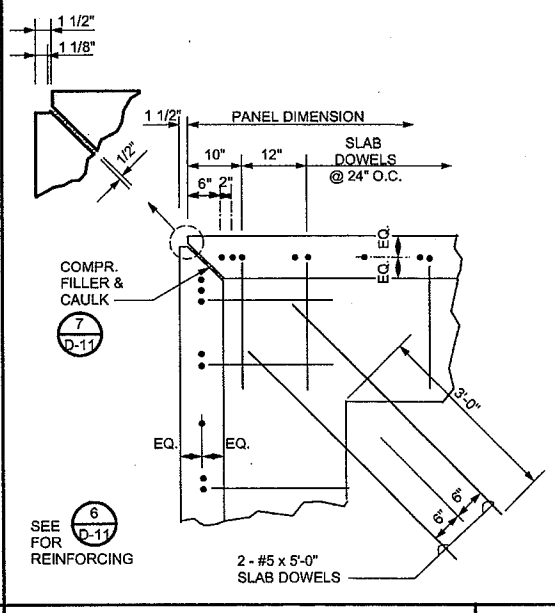
**TYPICAL REINFORCING PLACEMENT** 1



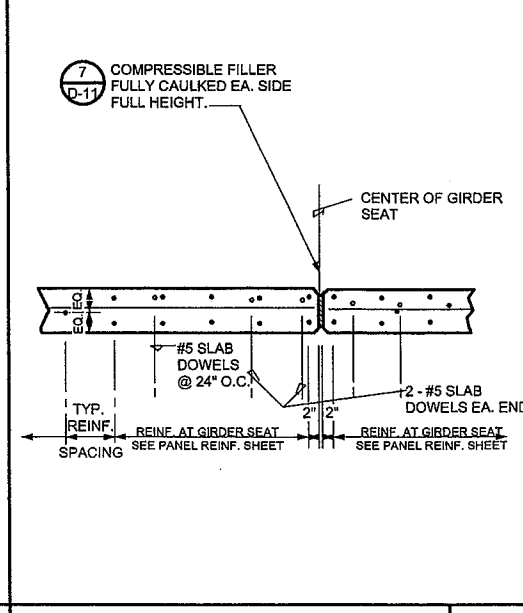
**CORNER POUR STRIP** 4



**REIN. AT OPENING** 2



**CORNER POUR STRIP** 5



**PANEL SECTION** 3





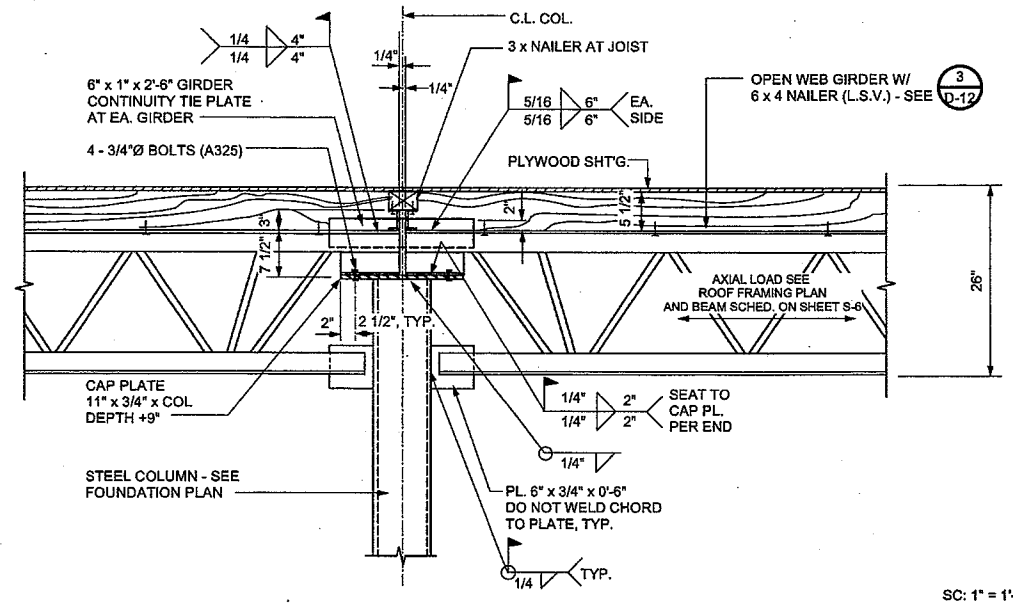
VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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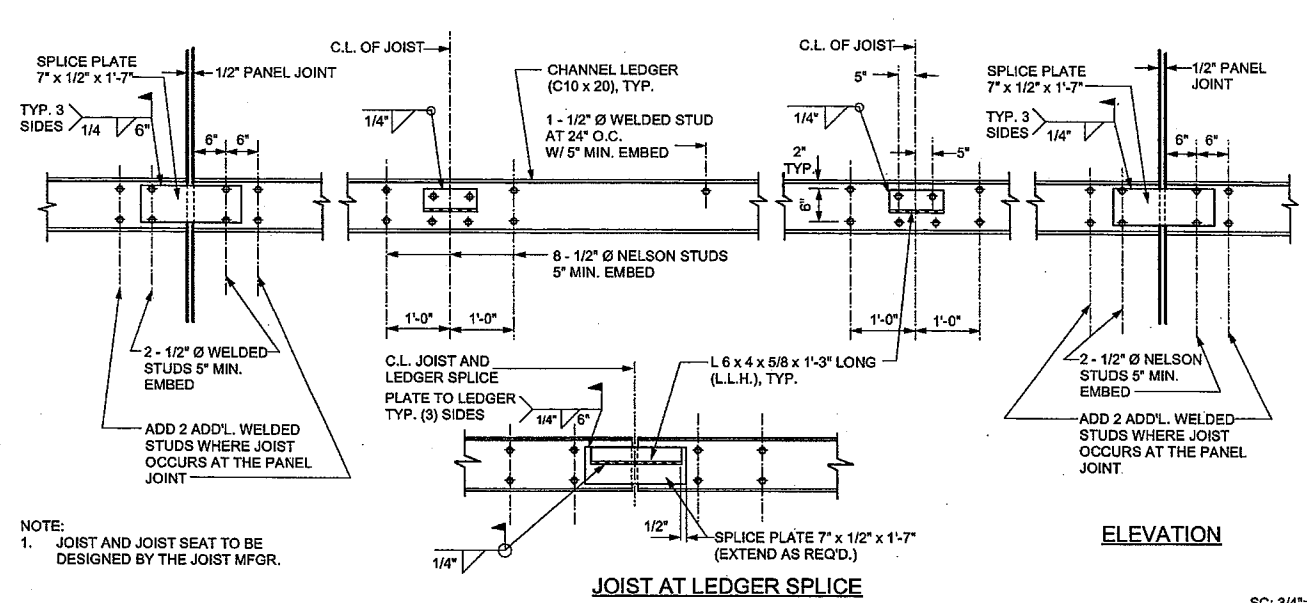
Revisions



SC: 1" = 1'-0"

GIRDER TO COLUMN

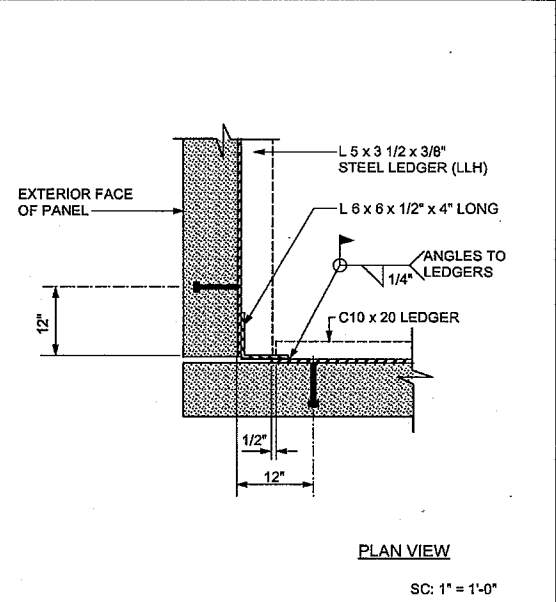
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SC: 3/4" = 1'-0"

LEDGER ELEVATION AND SPLICE DETAIL

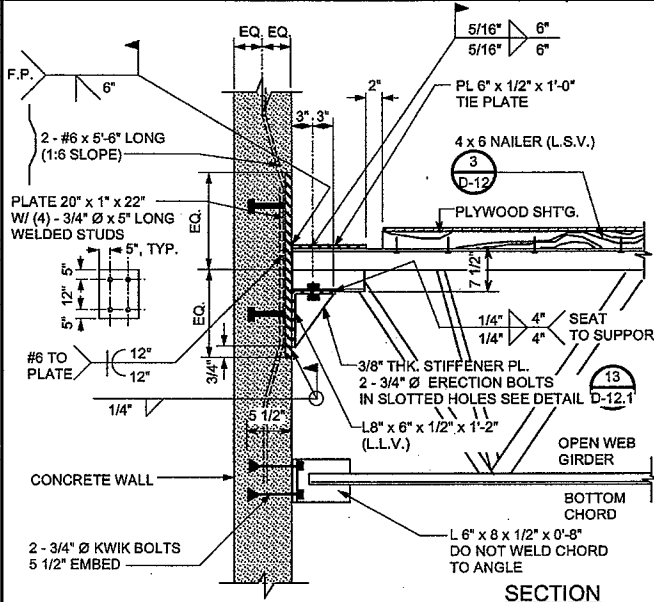
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SC: 1" = 1'-0"

LEDGER CORNER DETAIL

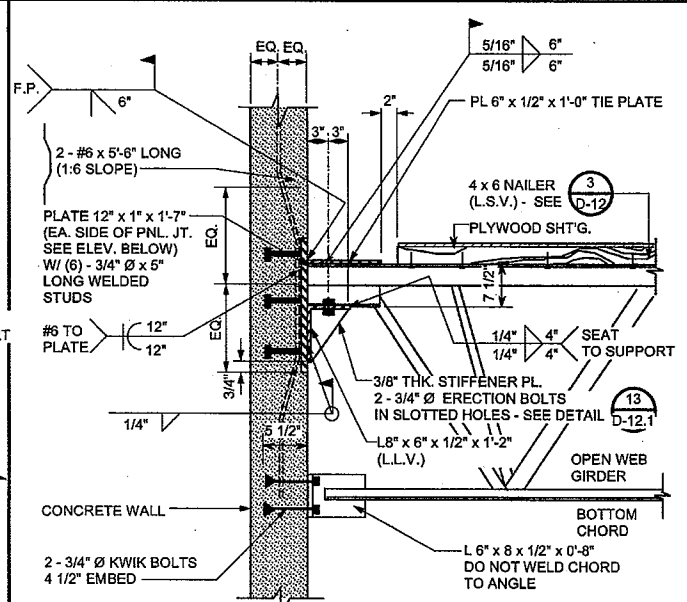
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SC: 1" = 1'-0"

GIRDER TO WALL

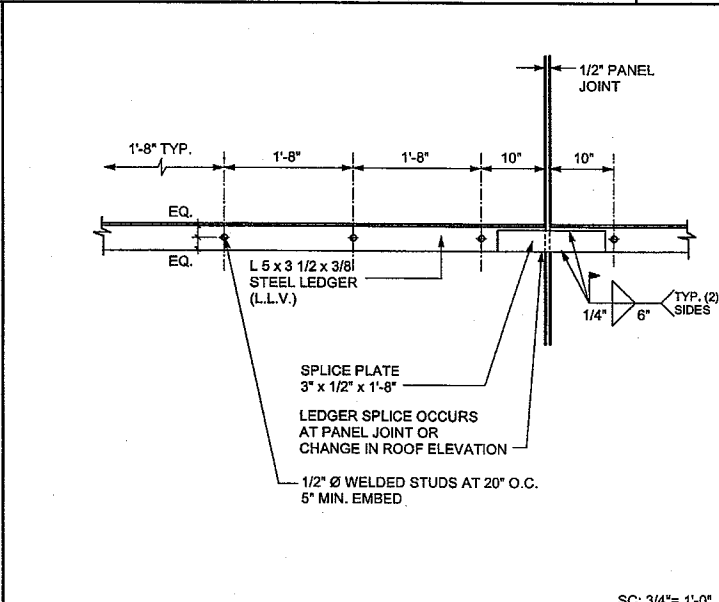
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SC: 1" = 1'-0"

GIRDER TO WALL AT PANEL JOINT

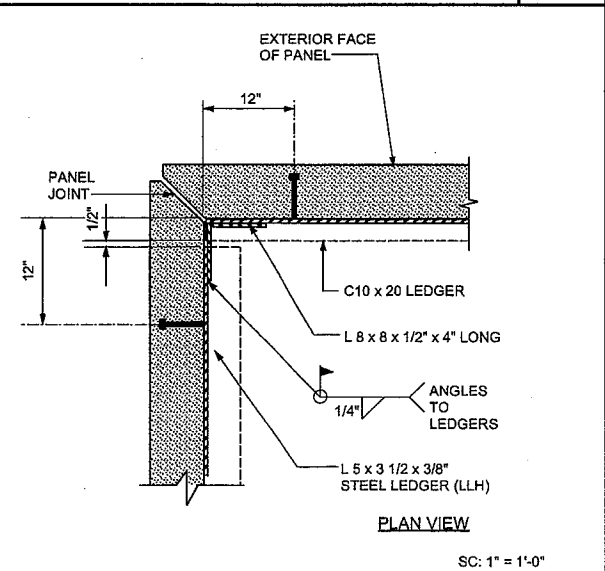
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SC: 3/4" = 1'-0"

LEDGER ELEVATION AT SUBPURLINS

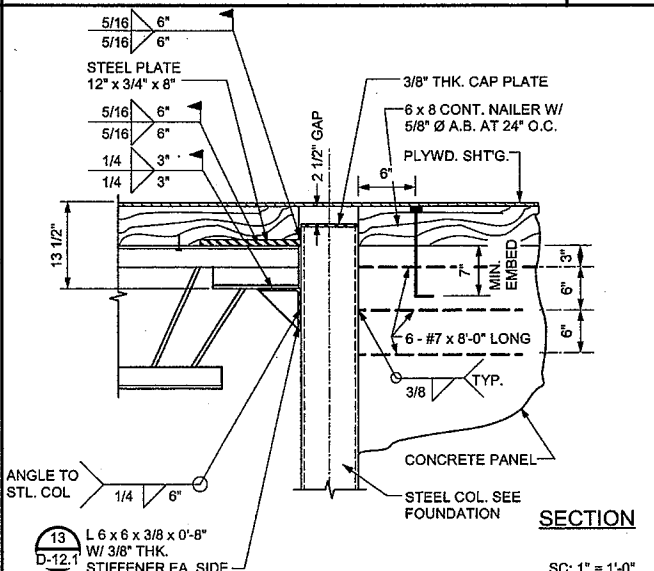
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SC: 1" = 1'-0"

LEDGER CORNER DETAIL

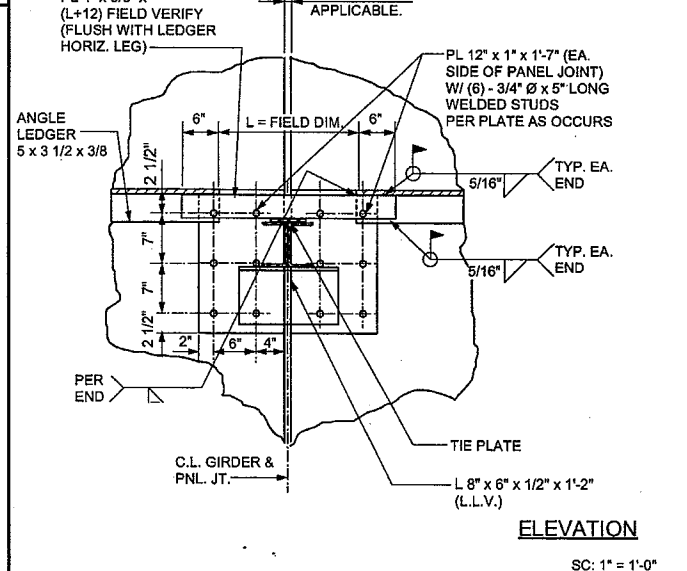
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SC: 1" = 1'-0"

GIRDER TO COLUMN / CONC. PANEL

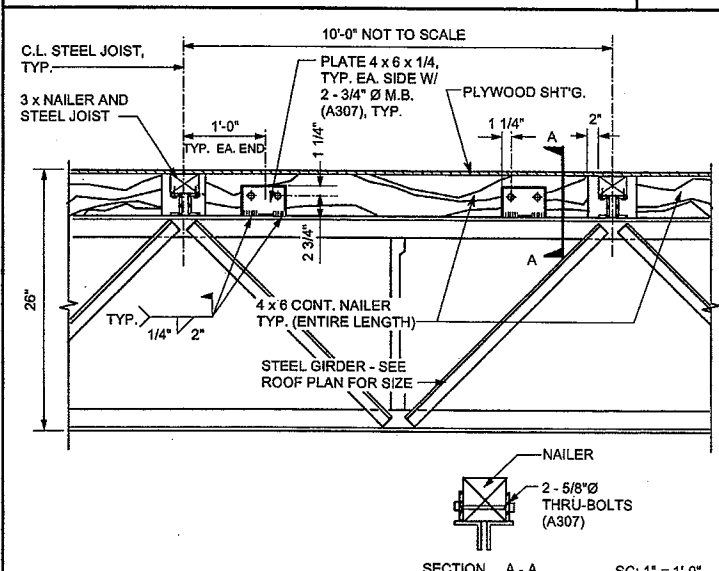
7



SC: 1" = 1'-0"

GIRDER TO WALL AT PANEL JOINT

4



SC: 1" = 1'-0"

GIRDER NAILER CONNECTION

3

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**DETAILS**

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:

**D-12**



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Revisions

HOLLISTER AVE  
GOLETA, CA

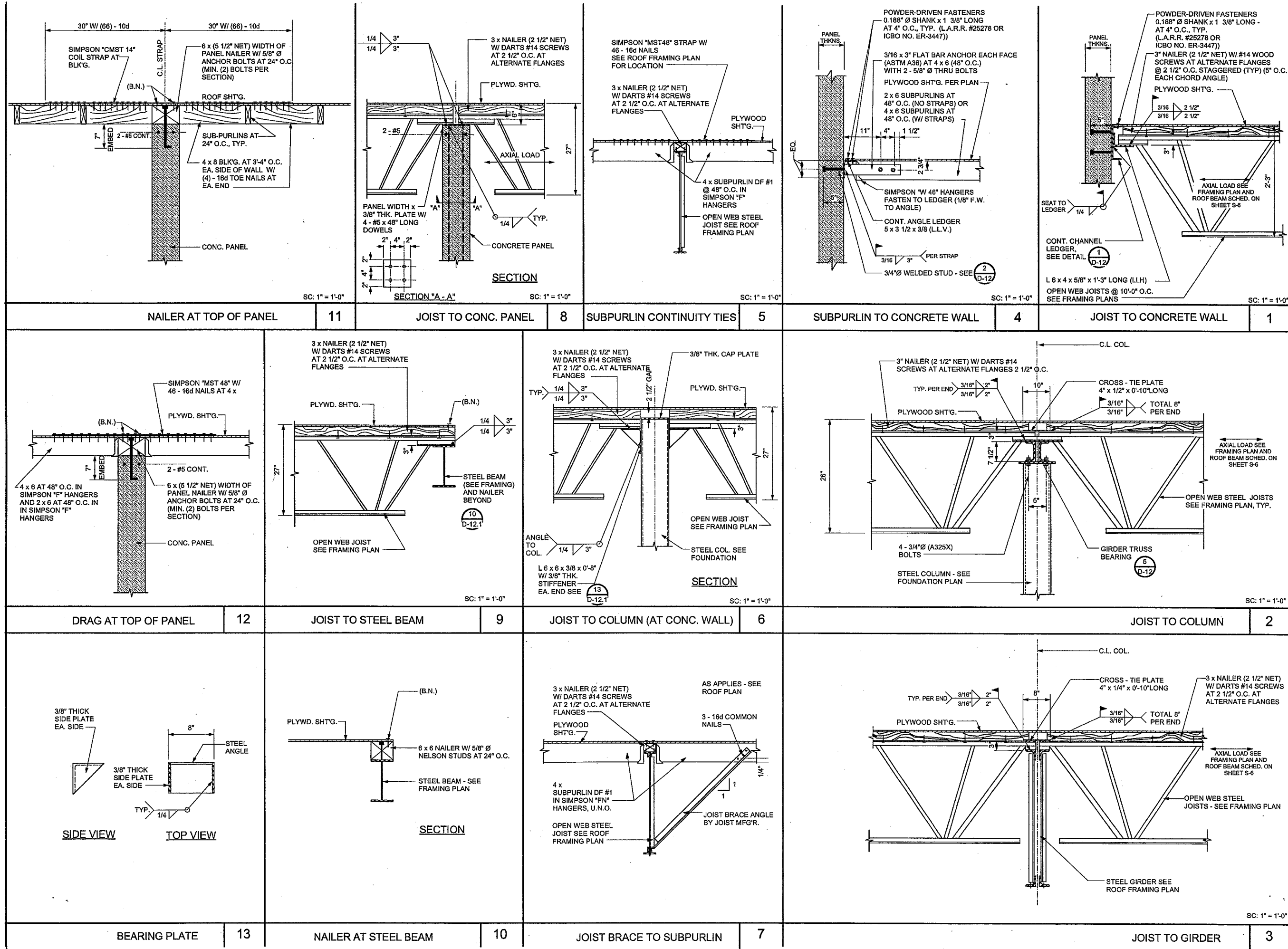
**DETAILS**

Date: 11-18-09

Job: 0904

Drawn by:

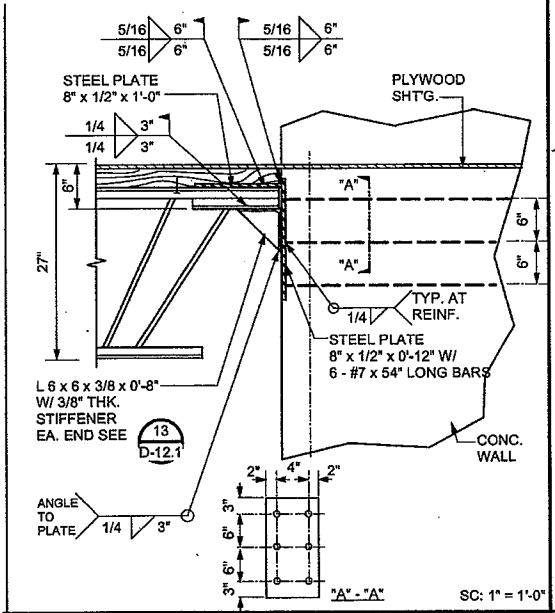
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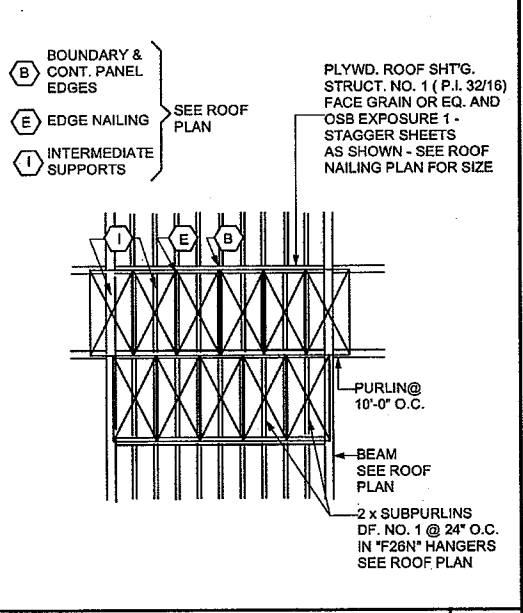
NAILER AT TOP OF PANEL 11      JOIST TO CONC. PANEL 8      SUBPURLIN CONTINUITY TIES 5      SUBPURLIN TO CONCRETE WALL 4      JOIST TO CONCRETE WALL 1

DRAG AT TOP OF PANEL 12      JOIST TO STEEL BEAM 9      JOIST TO COLUMN (AT CONC. WALL) 6      JOIST TO COLUMN 2

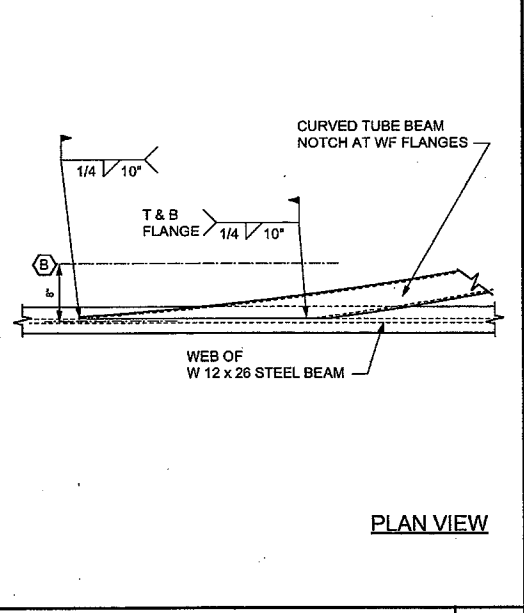
BEARING PLATE 13      NAILER AT STEEL BEAM 10      JOIST BRACE TO SUBPURLIN 7      JOIST TO GIRDER 3



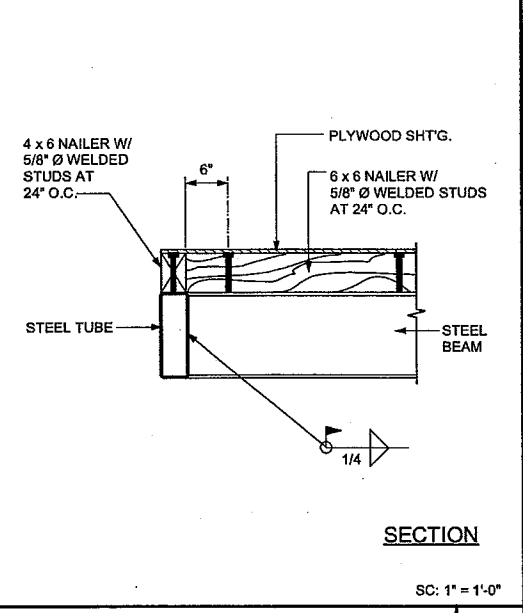
JOIST TO WALL CONNECTION | 13



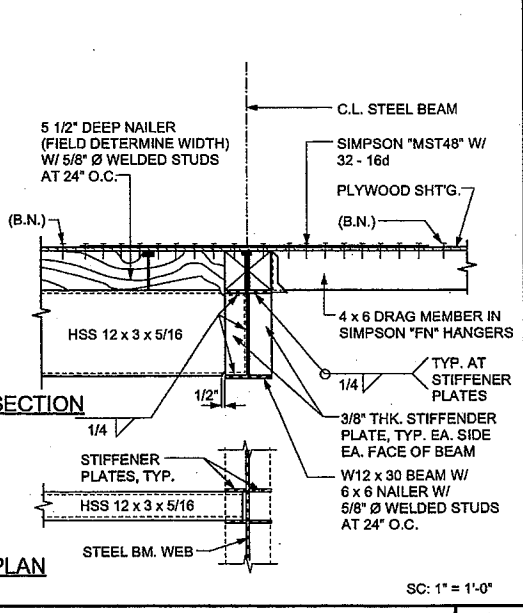
PLYWOOD NAILING PLAN | 10



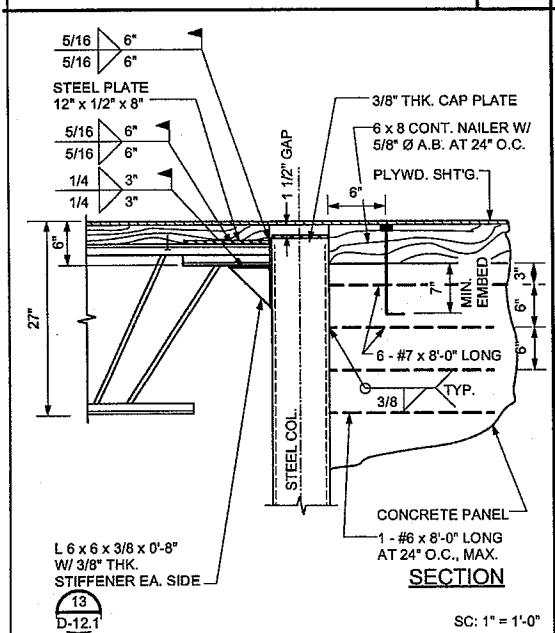
BEAM TO BEAM CONNECTION | 7



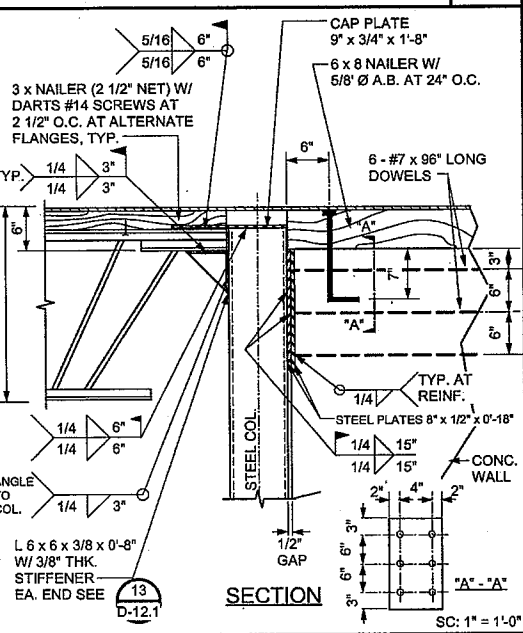
JOIST TO BEAM | 4



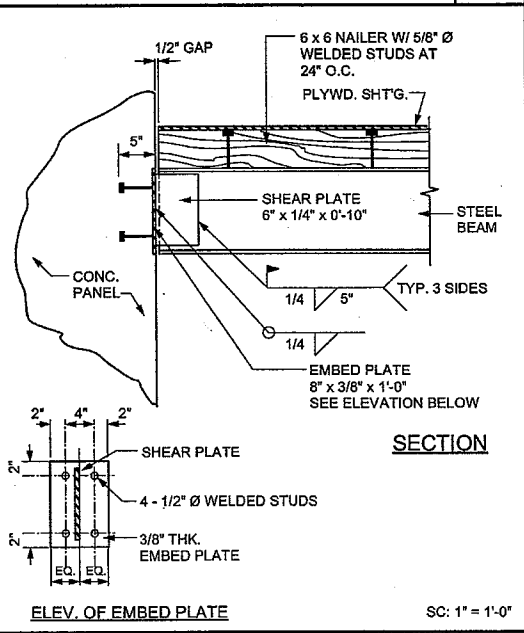
CHANNEL TO BEAM | 1



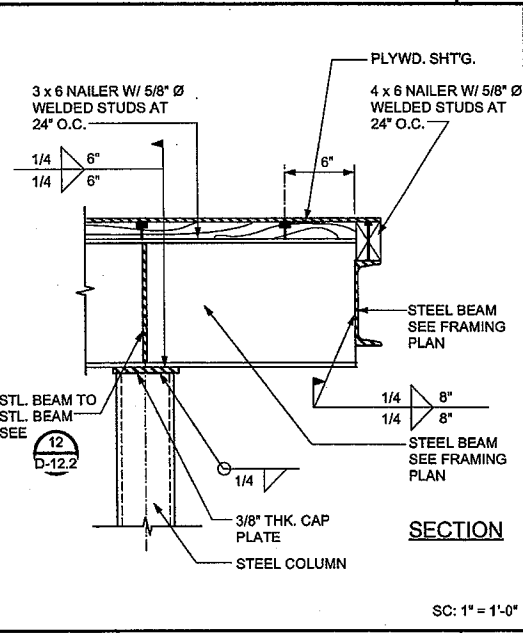
JOIST TO COLUMN / CONC. PANEL | 14



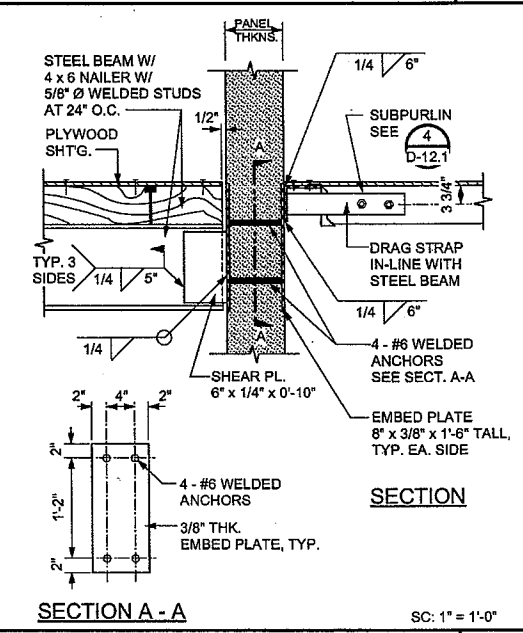
JOIST TO COLUMN (AT CONC. WALL) | 11



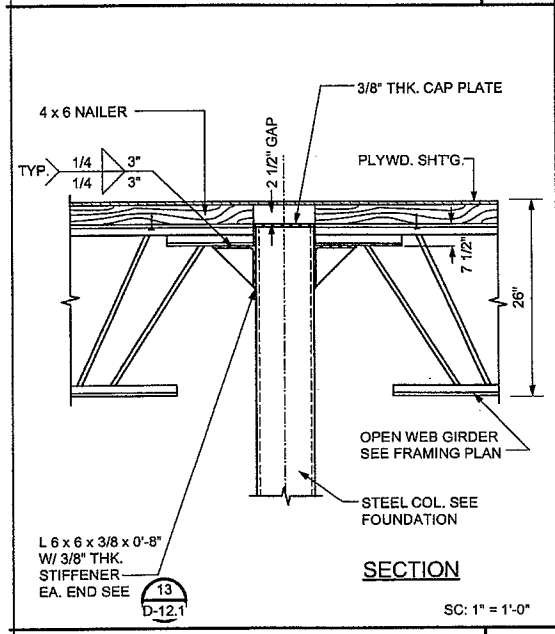
BEAM TO CONCRETE WALL | 8



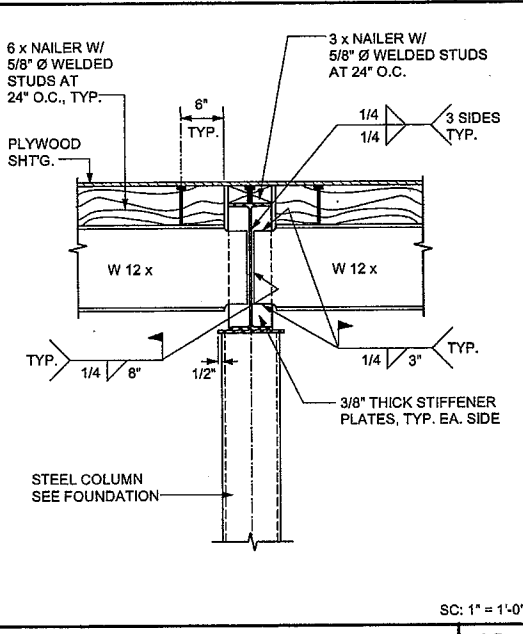
BEAM TO BEAM / BEAM TO COLUMN | 5



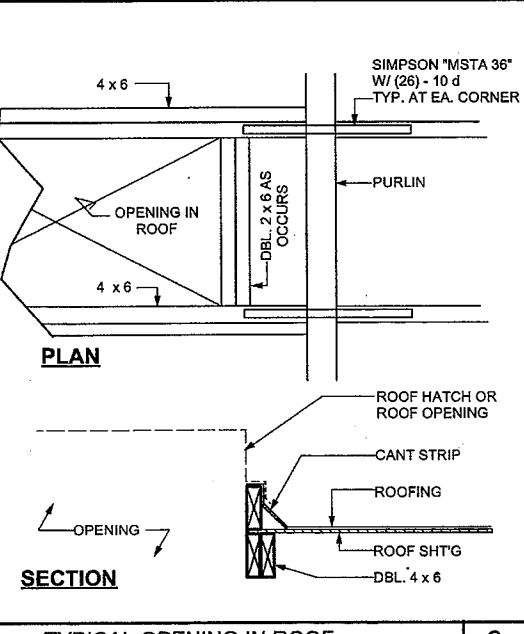
DRAG CONNECTION | 2



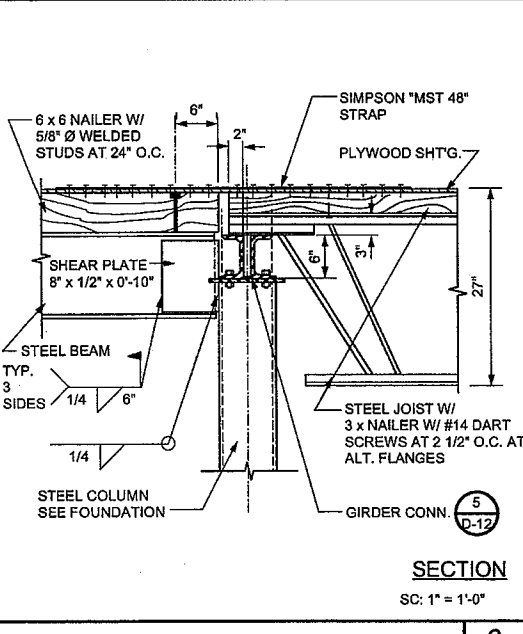
GIRDER TO COLUMN (AT CONC. WALL) | 15



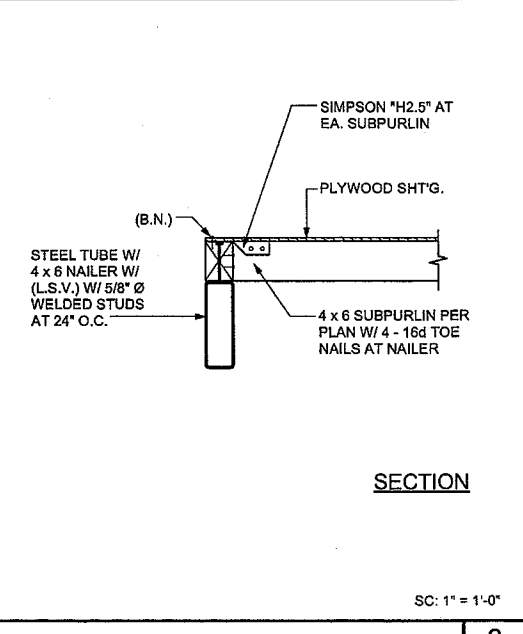
BEAM TO BEAM / COLUMN | 12



TYPICAL OPENING IN ROOF | 9



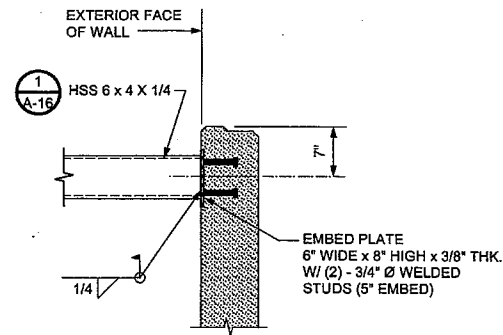
BEAM TO COLUMN | 6



SUBPURLIN TO BEAM | 3

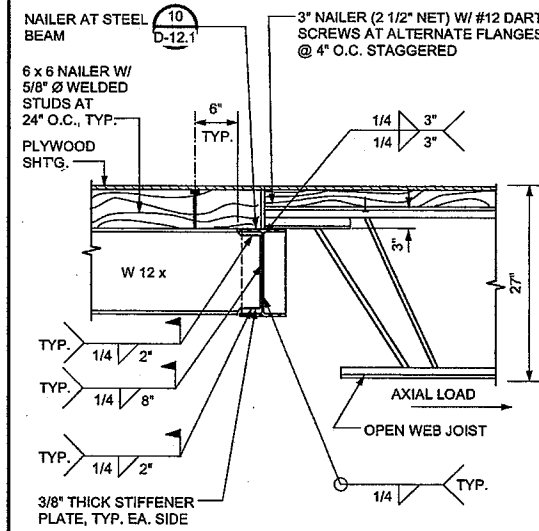
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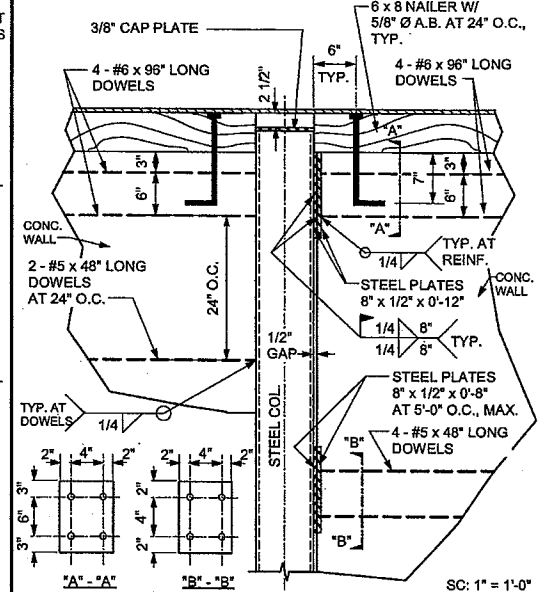


SECTION

SC: 1" = 1'-0"



SC: 1" = 1'-0"



SC: 1" = 1'-0"

12

10

BEAM TO WALL

7

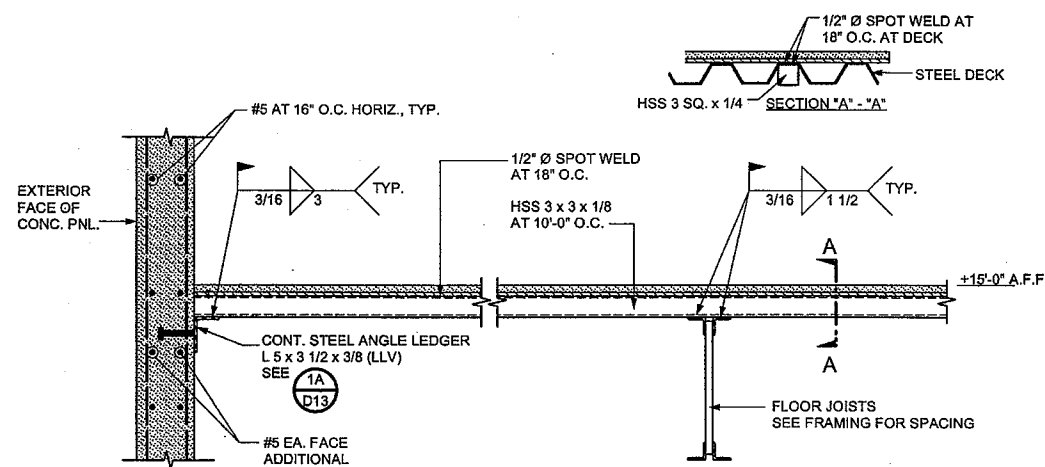
JOIST TO STEEL BEAM

4

CONC. PANEL TO CONC. PANEL

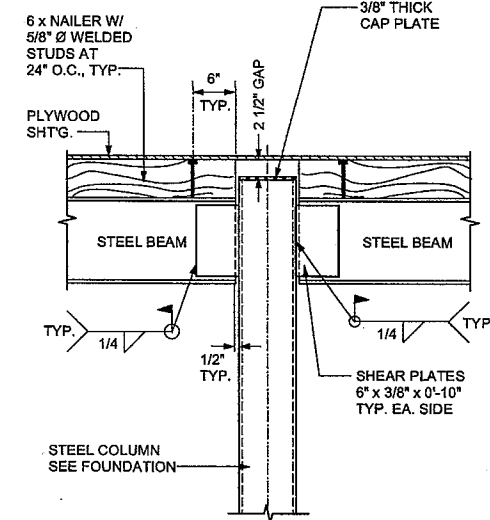
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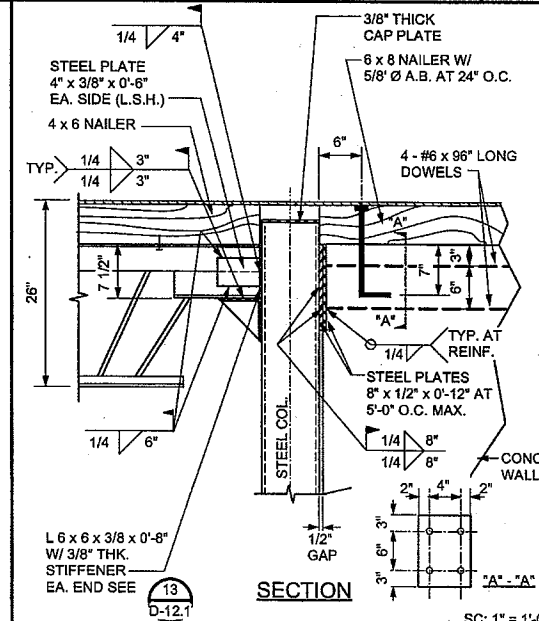


SECTION

SC: 1" = 1'-0"



SC: 1" = 1'-0"



SC: 1" = 1'-0"

13

DIAPHRAGM STRUTS AT 2ND. FLOOR

8

BEAM TO BEAM / COLUMN

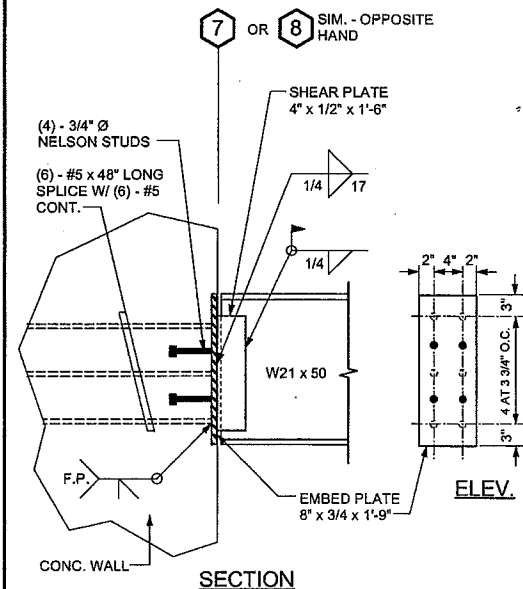
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GIRDER TO COLUMN

2

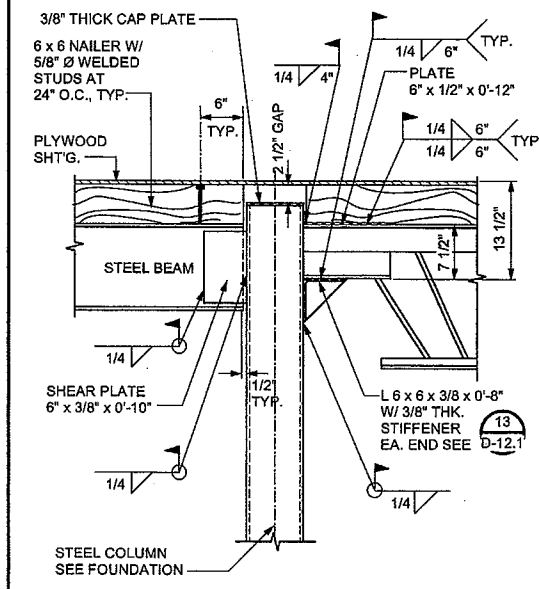
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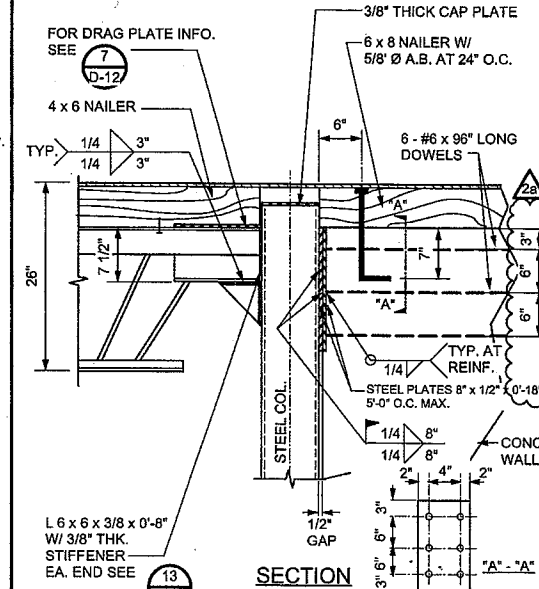


SECTION

SC: 1" = 1'-0"



SC: 1" = 1'-0"



SC: 1" = 1'-0"

14

11

BEAM TO CONC. WALL

9

BEAM TO BEAM / COLUMN

6

GIRDER TO COLUMN

3



Revisions

DETAILS

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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Revisions

No.	Description

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

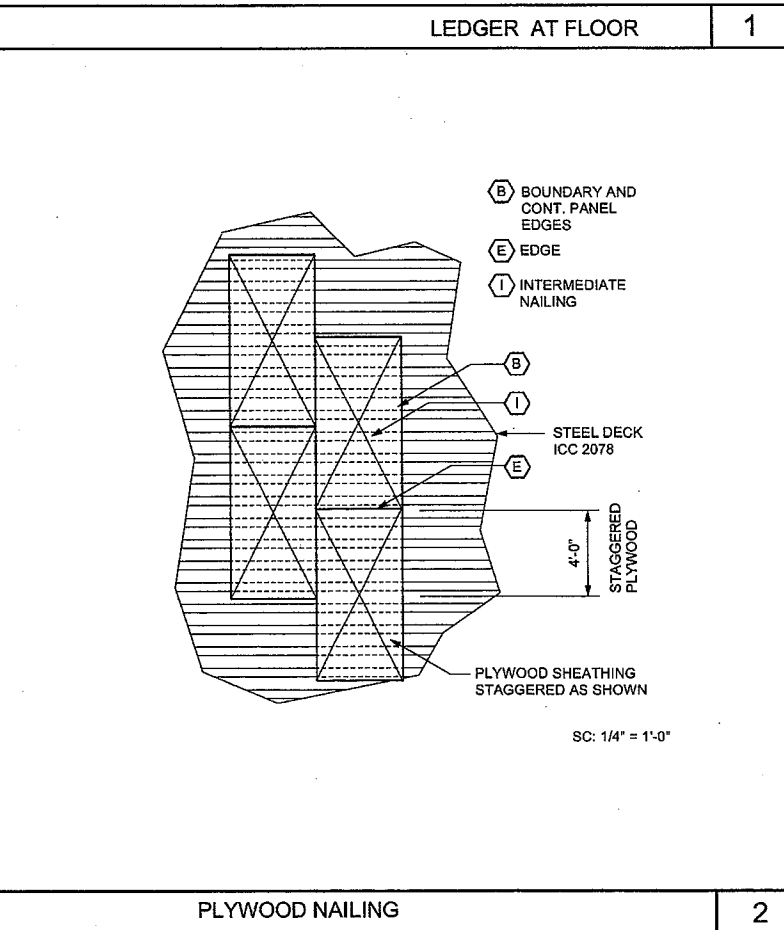
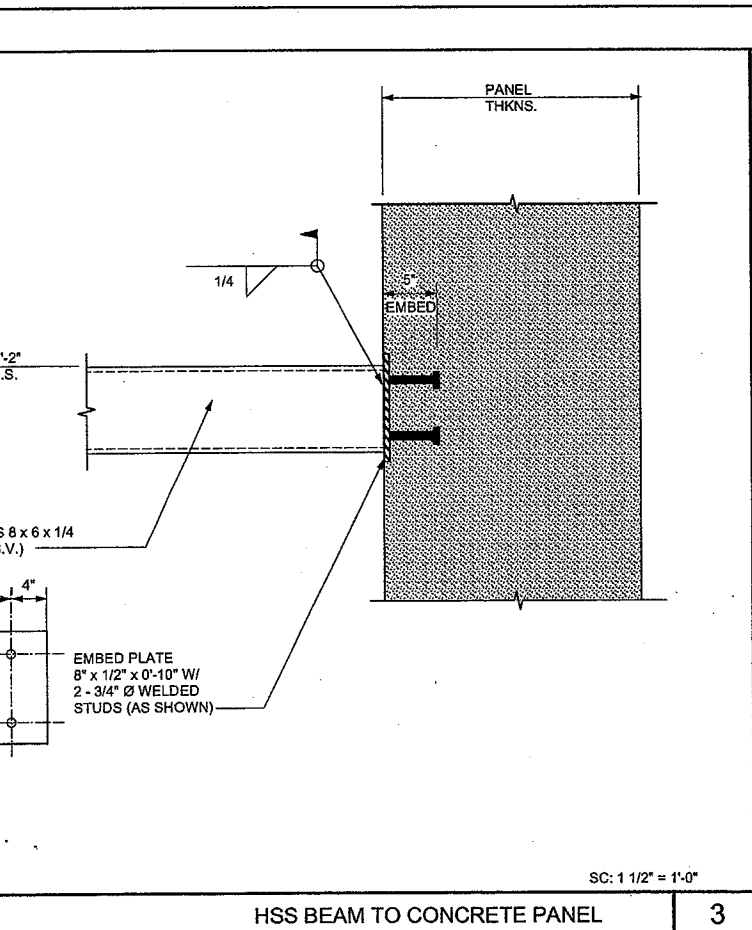
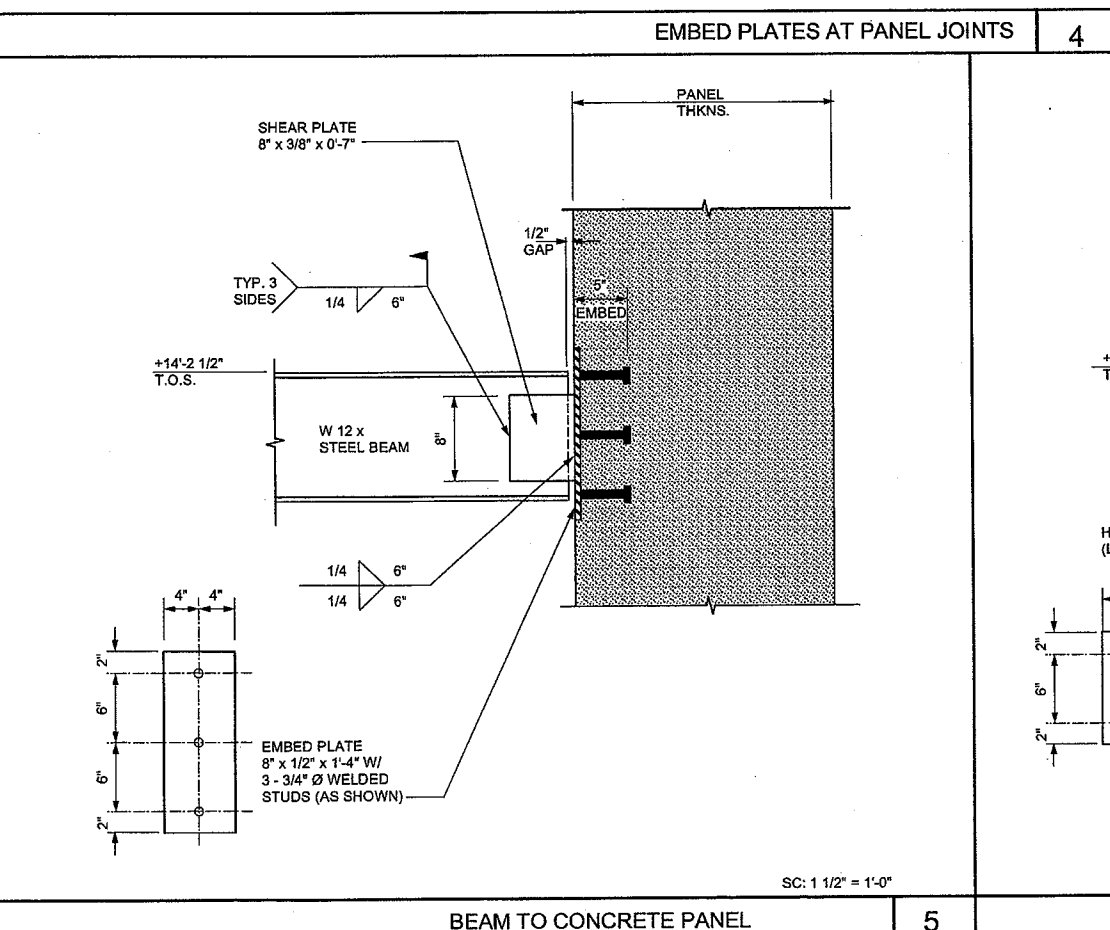
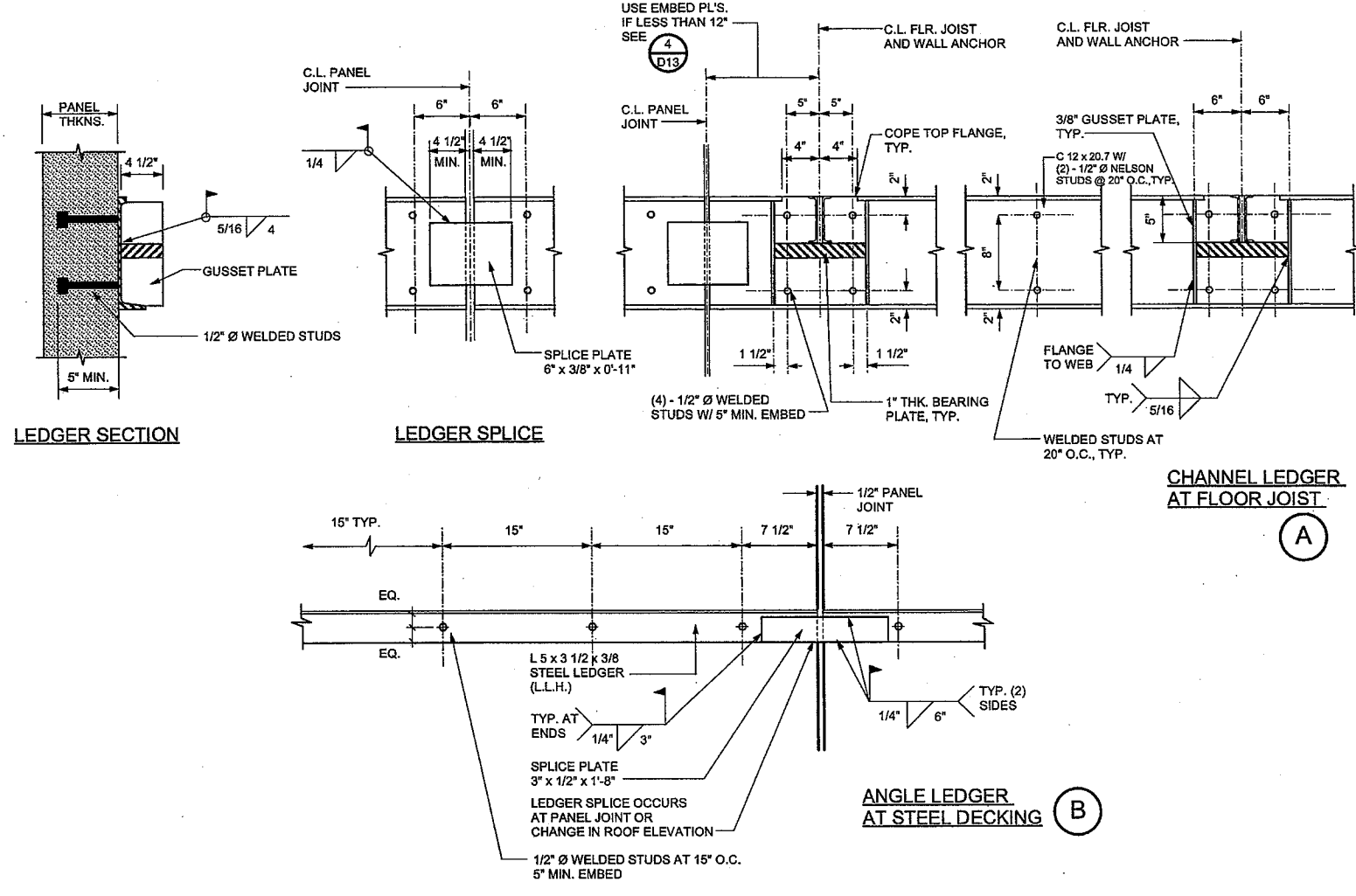
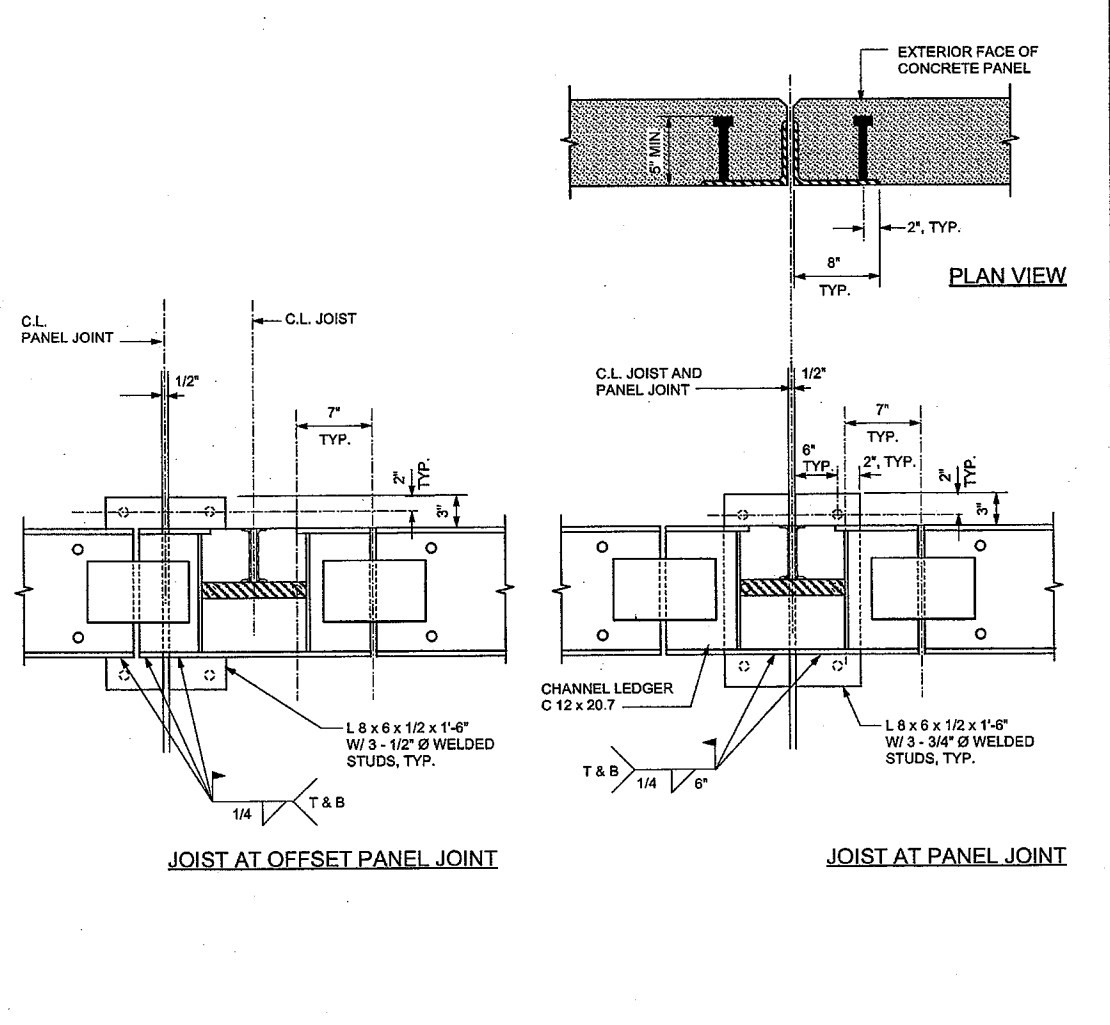
**DETAILS**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:



EMBED PLATES AT PANEL JOINTS 4

LEDGER AT FLOOR 1

BEAM TO CONCRETE PANEL 5

HSS BEAM TO CONCRETE PANEL 3

PLYWOOD NAILING 2





VINCENT DYER  
C-12762



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Revisions

2

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

DETAILS

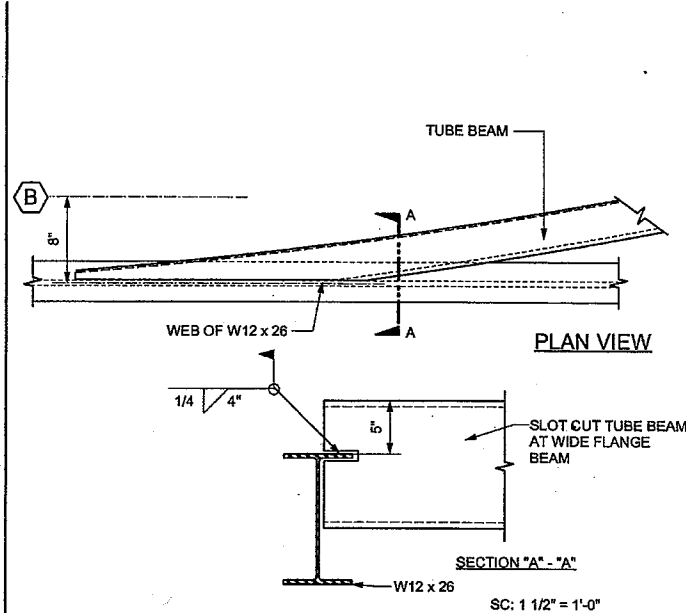
Date: 11-18-09

Job: 0904

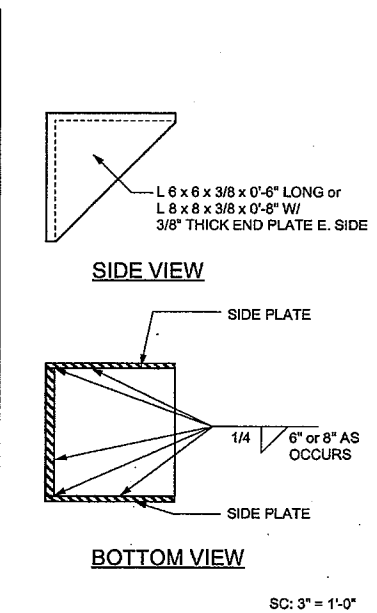
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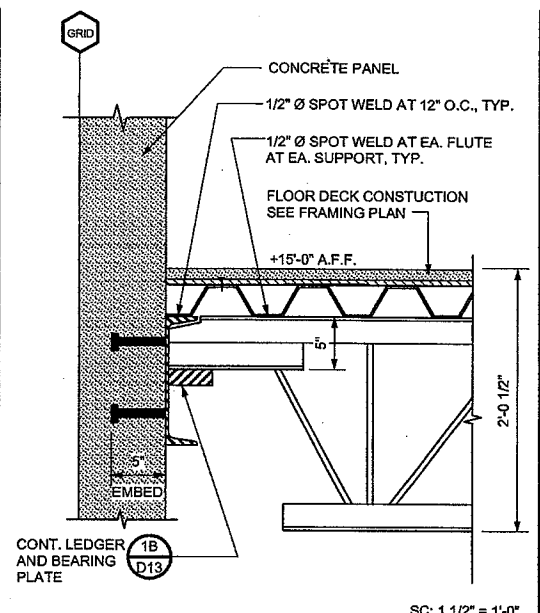
D-13.1



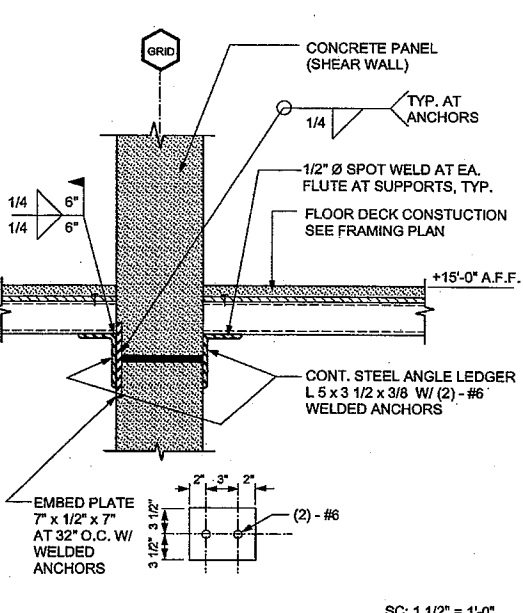
CHANNEL TO CHANNEL CONNECTION 13



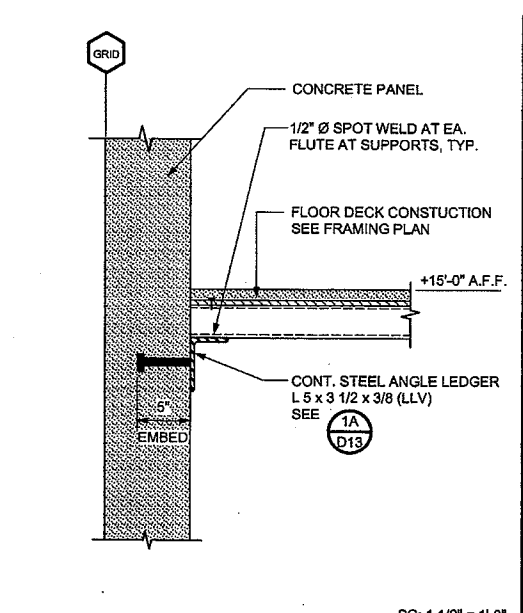
BEARING / GUSSET PLATE 10



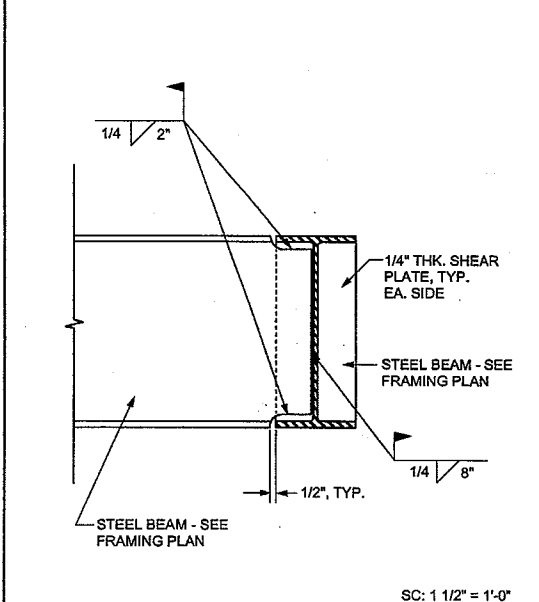
JOIST TO LEDGER 7



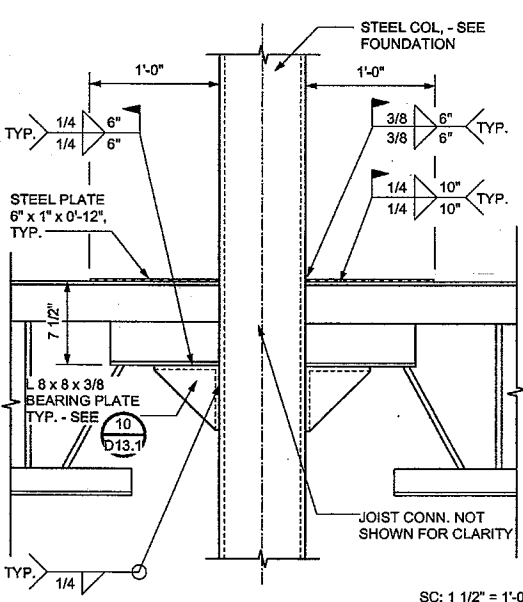
STEEL DECK TO WALL CONNECTION 4



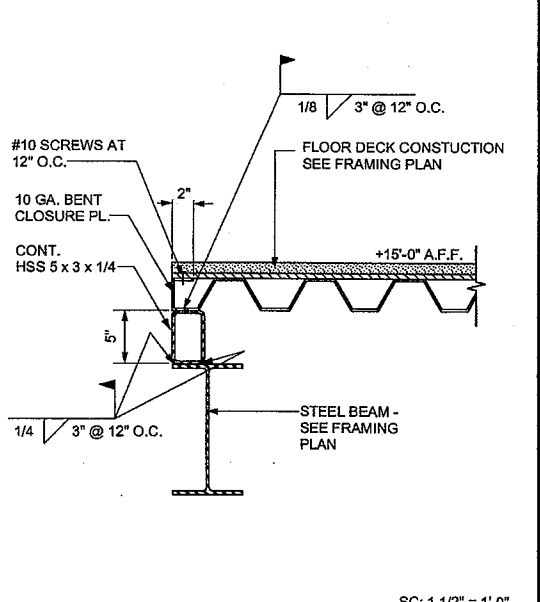
STEEL DECK TO WALL CONNECTION 1



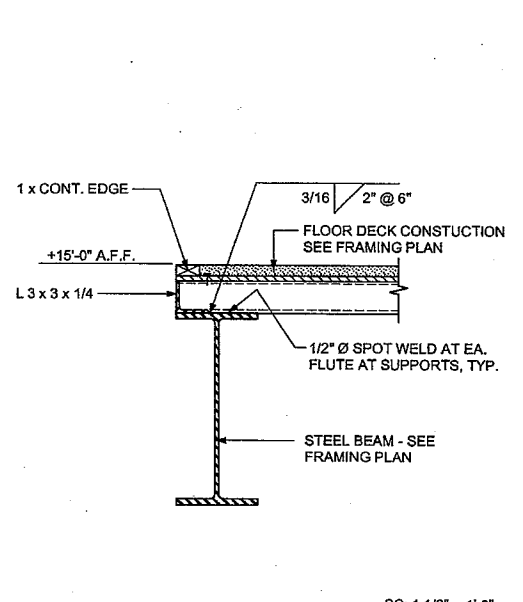
BEAM TO BEAM CONNECTION 14



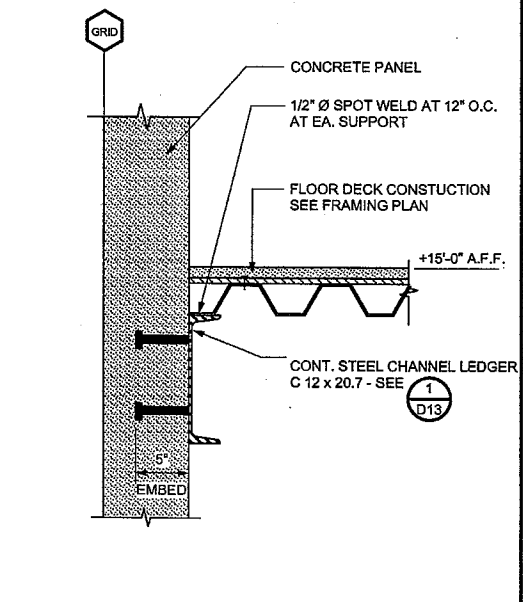
GIRDER TO COLUMN CONNECTION 11



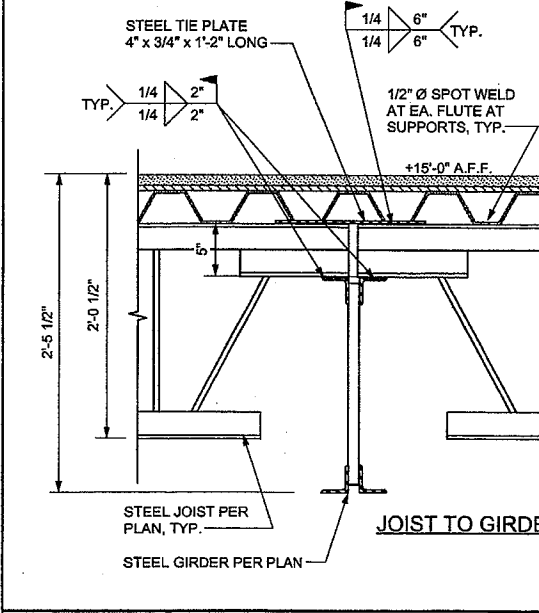
EDGE OF DECK CONNECTION 8



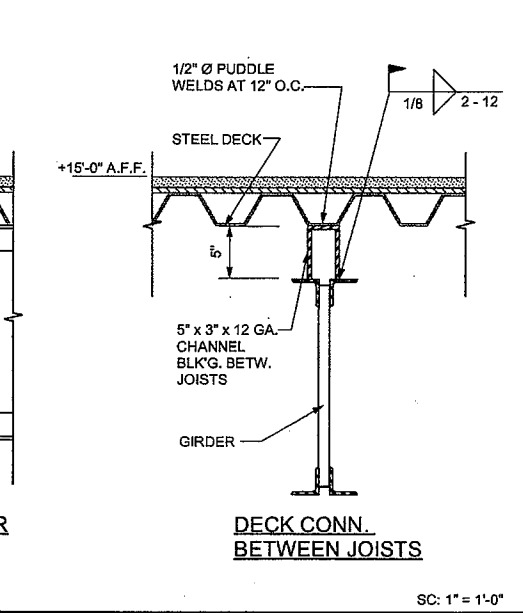
EDGE OF DECK CONNECTION 5



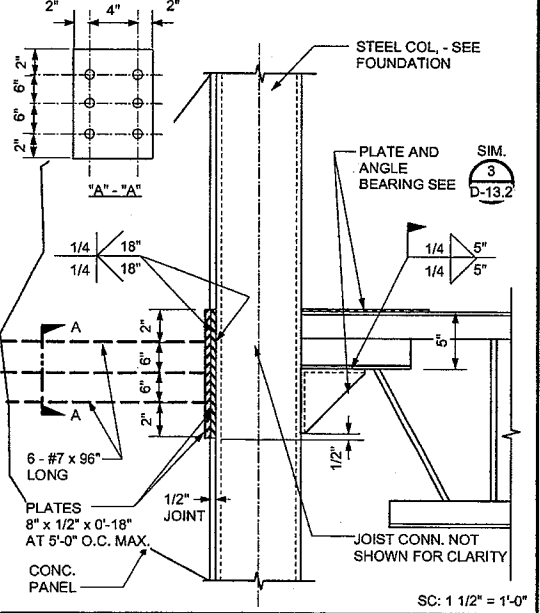
STEEL DECK TO WALL CONNECTION 2



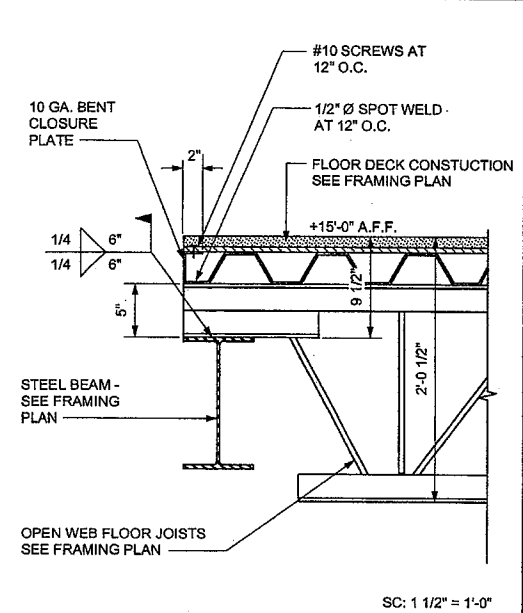
FLOOR JOIST TO FLOOR JOIST AT GIRDER 12



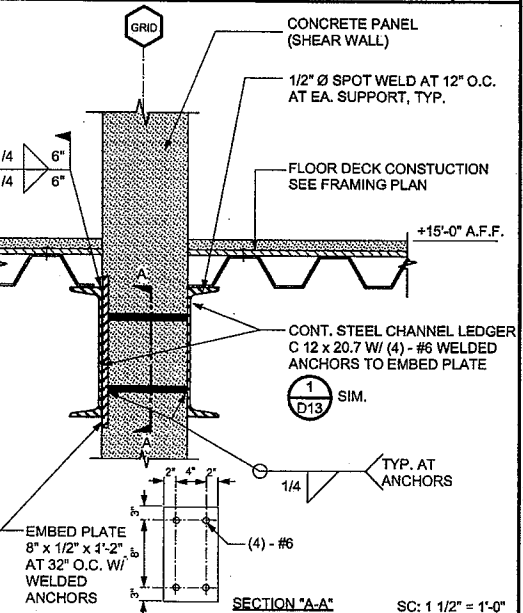
DECK CONN. BETWEEN JOISTS



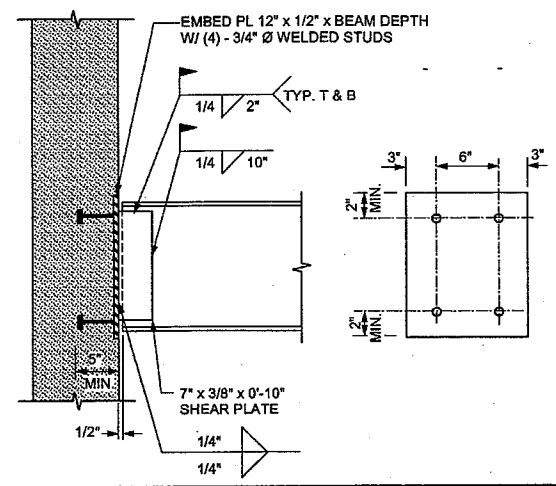
JOIST TO COLUMN CONNECTION 9



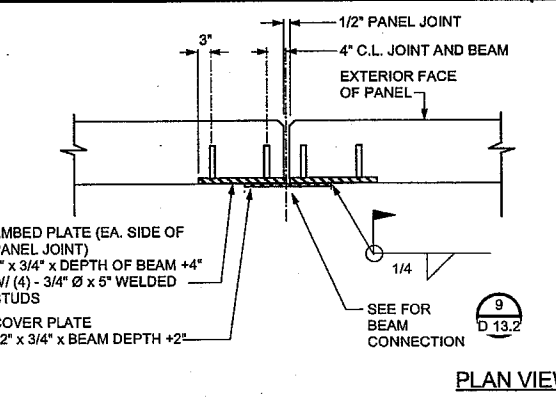
JOIST TO BEAM CONNECTION 6



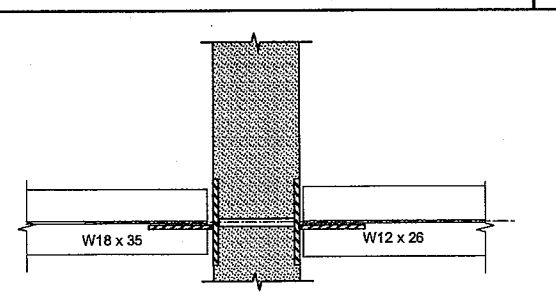
STEEL DECK TO WALL CONNECTION 3



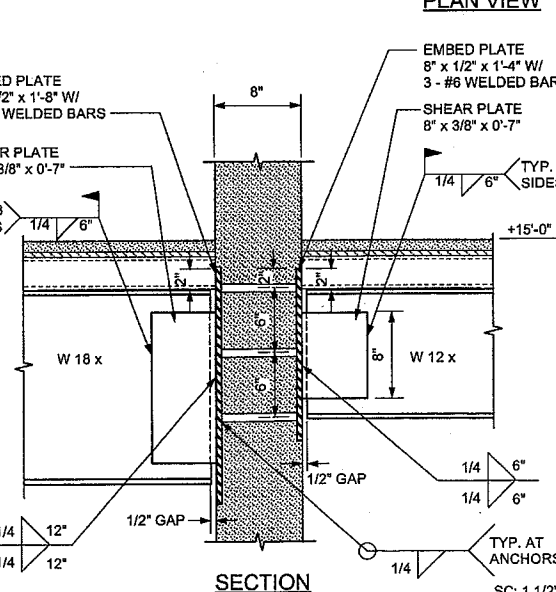
BEAM CONNECTION 9



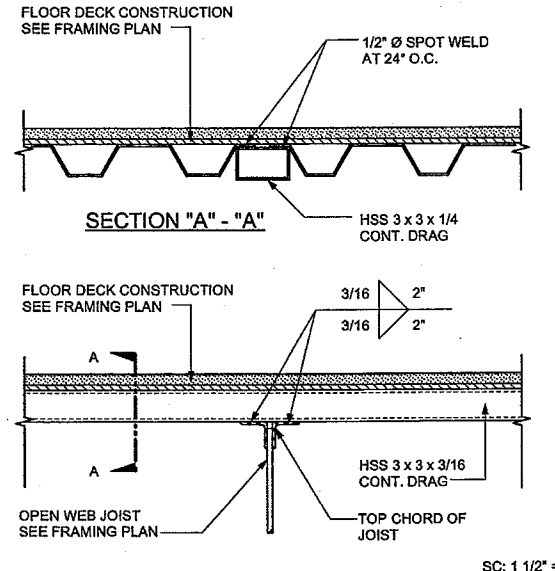
BEAM CONNECTION AT PANEL JOINT 10



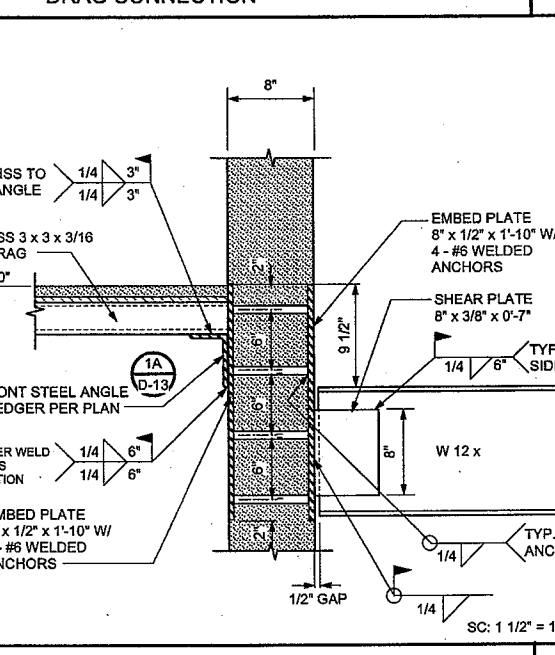
BEAM CONNECTION AT INTERIOR WALL 11



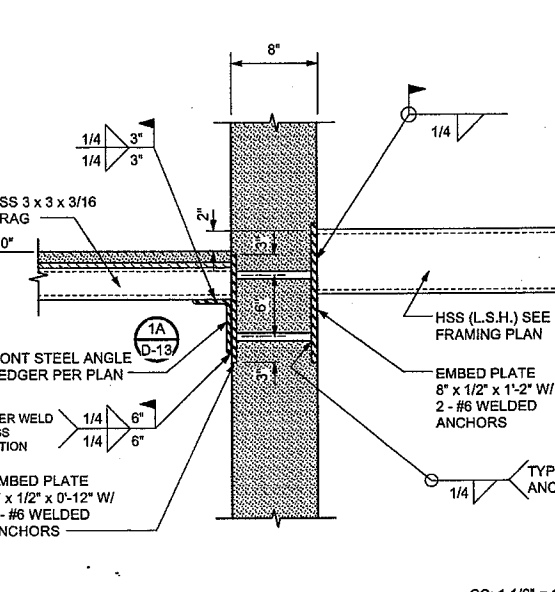
BEAM CONNECTION AT INTERIOR WALL 11



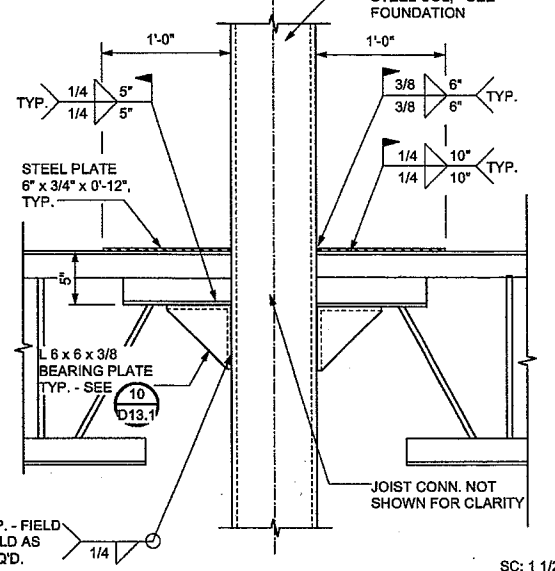
DRAG CONNECTION 6



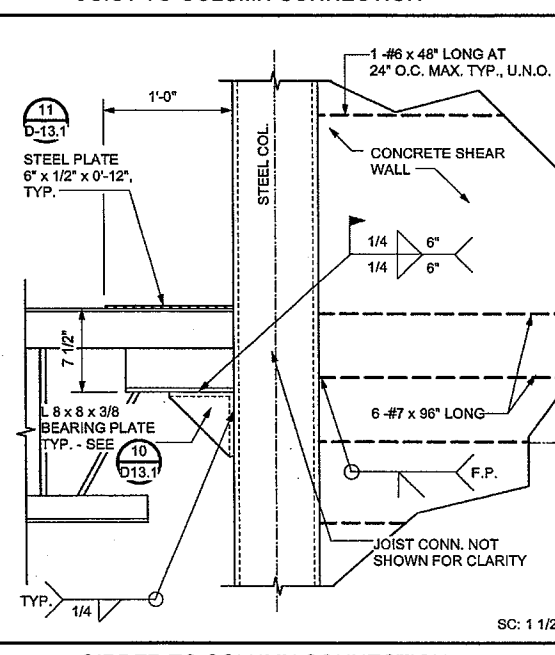
DRAG CONNECTION AT INTERIOR WALL 7



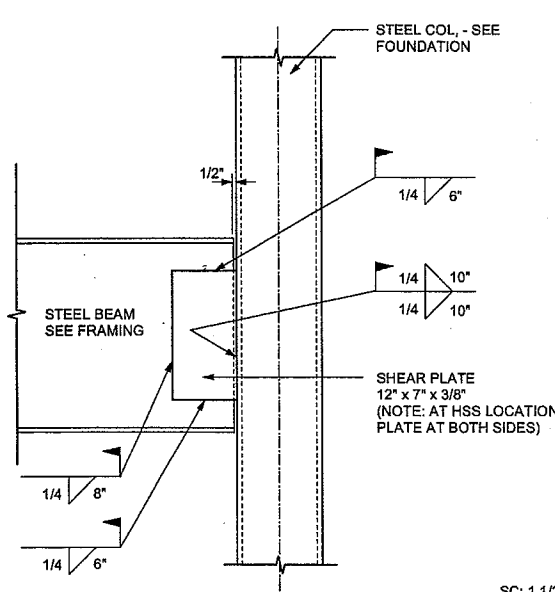
DRAG CONNECTION AT INTERIOR WALL 8



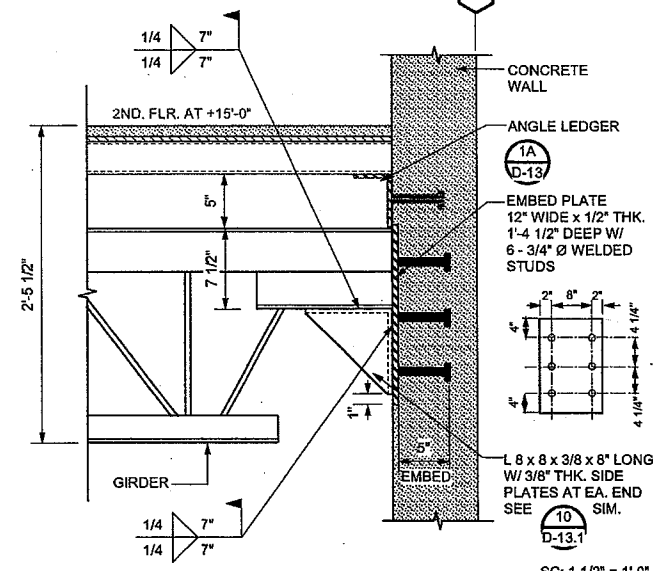
JOIST TO COLUMN CONNECTION 3



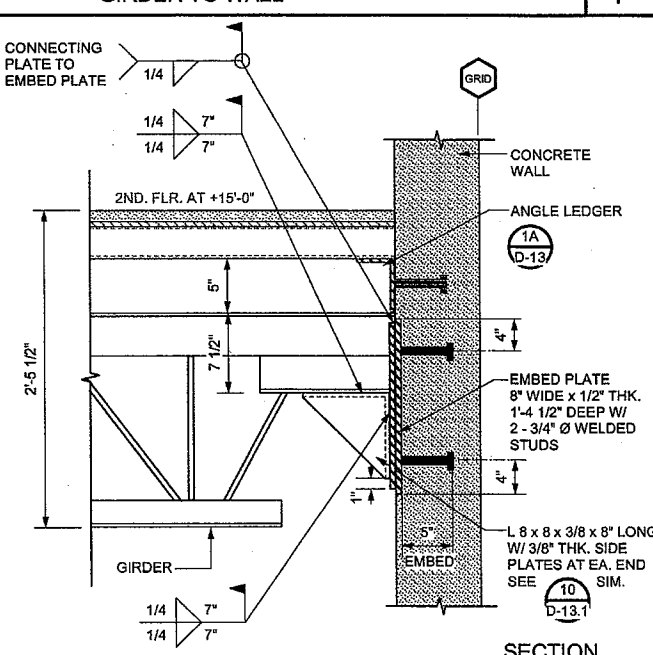
GIRDER TO COLUMN CONNECTION 4



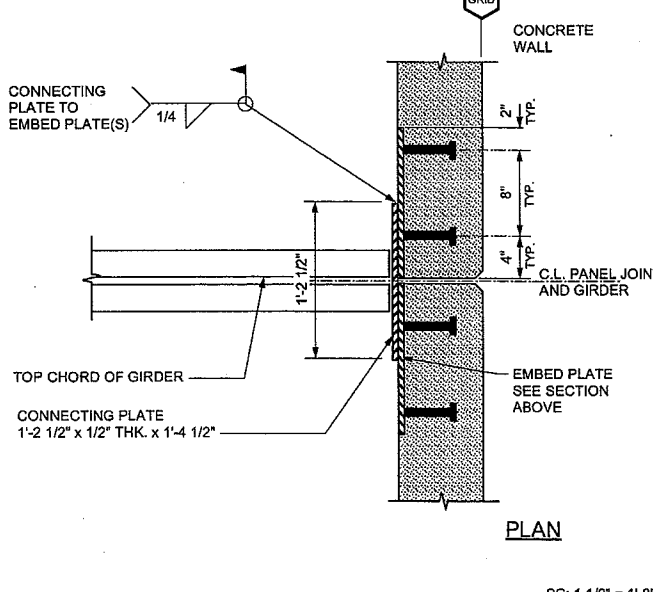
BEAM TO COLUMN CONNECTION 5



GIRDER TO WALL 1



GIRDER TO WALL AT PANEL JOINT 2



GIRDER TO WALL AT PANEL JOINT 2

**JDO Dyer**  
 Architecture | Engineering  
 5376 N. Sterling Center Drive  
 Westlake Village, CA 91361  
 Phone 818. 706. 3997  
 Fax 818. 706. 2453

REGISTERED ARCHITECT  
 VINCENT DYER  
 C-12762  
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
 G.O. DYER  
 NO. 934  
 EXP. 12-31-10  
 STATE OF CALIFORNIA

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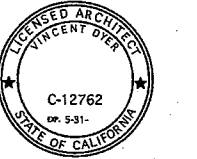
Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

DETAILS

Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet:

**D-13.2**



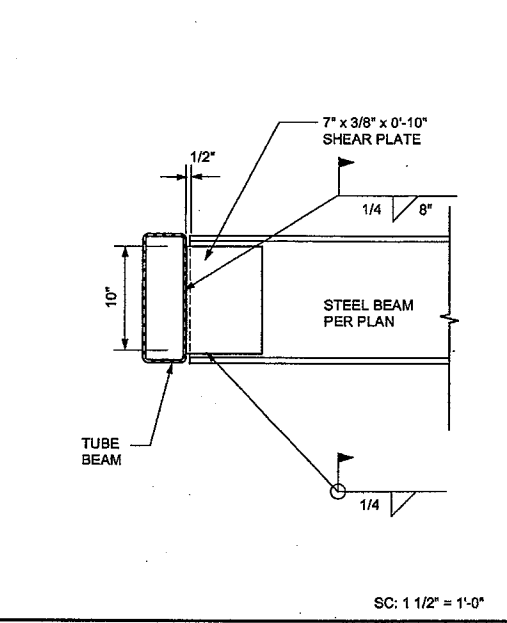
VINCENT DYER  
C-12762



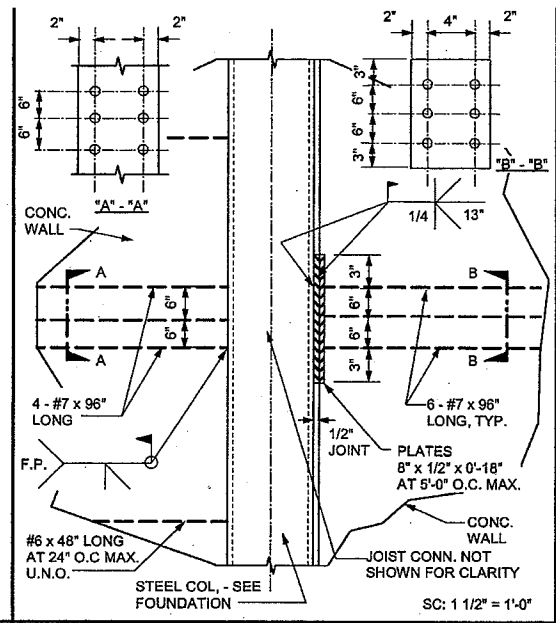
G.O. DYER  
NO. 934

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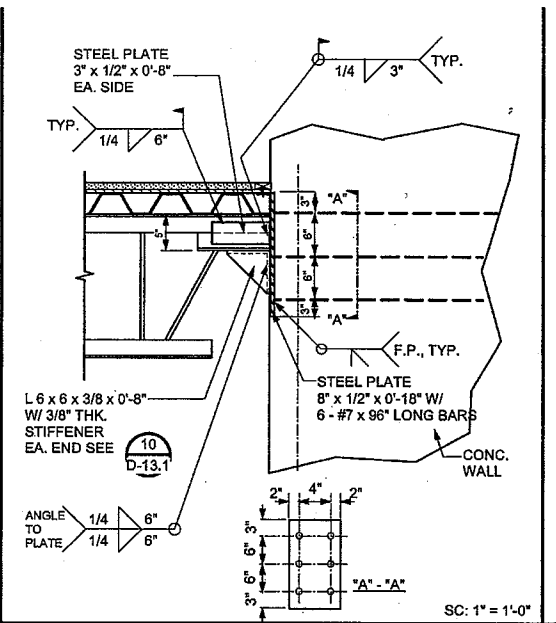
Revisions



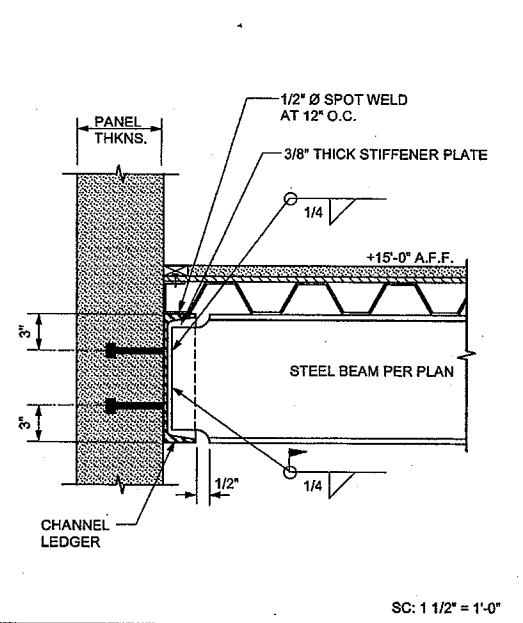
STEEL BEAM TO STEEL CHANNEL | 12



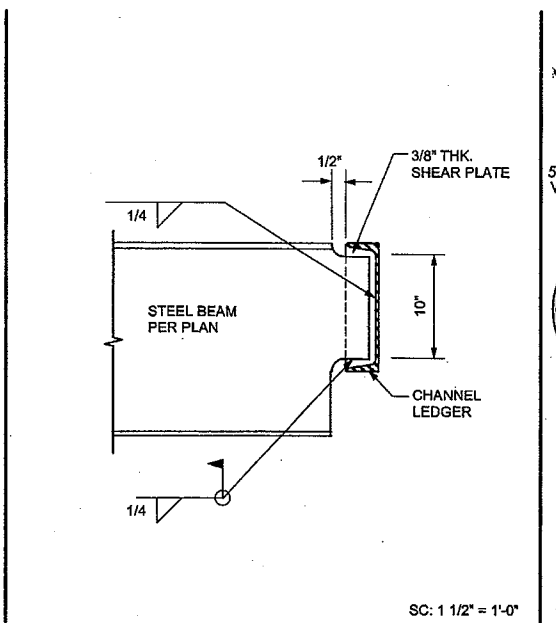
JOIST TO COLUMN CONNECTION | 9



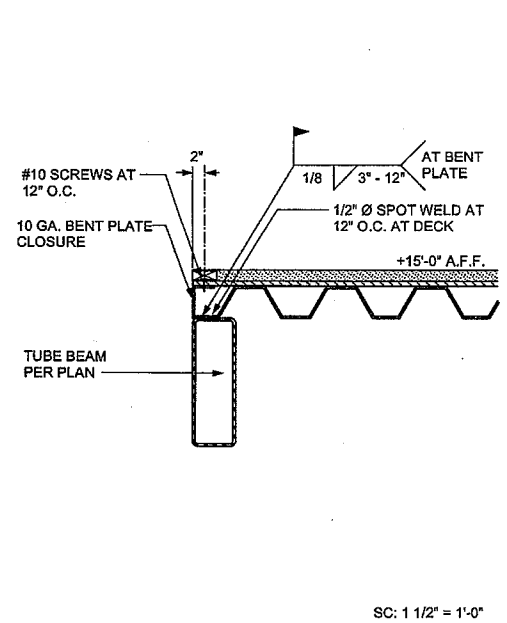
JOIST DRAG AT END OF PANEL | 6



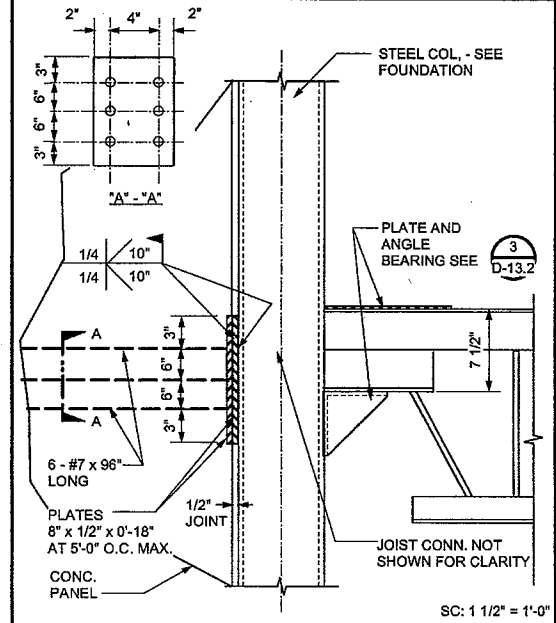
BEAM TO CHANNEL LEDGER | 4



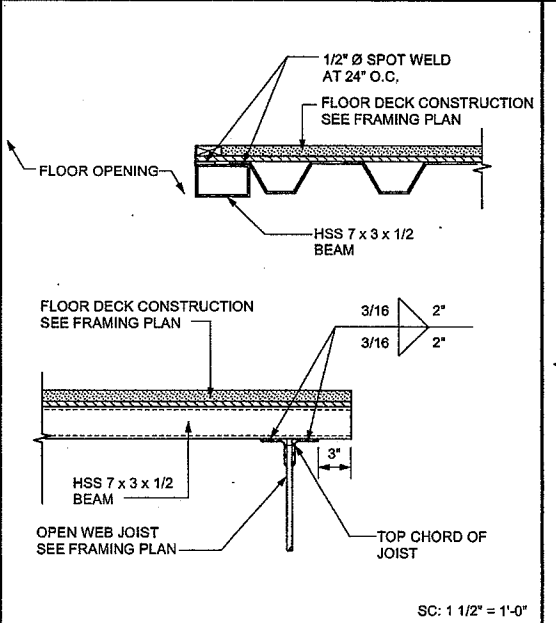
BEAM TO CHANNEL LEDGER | 1



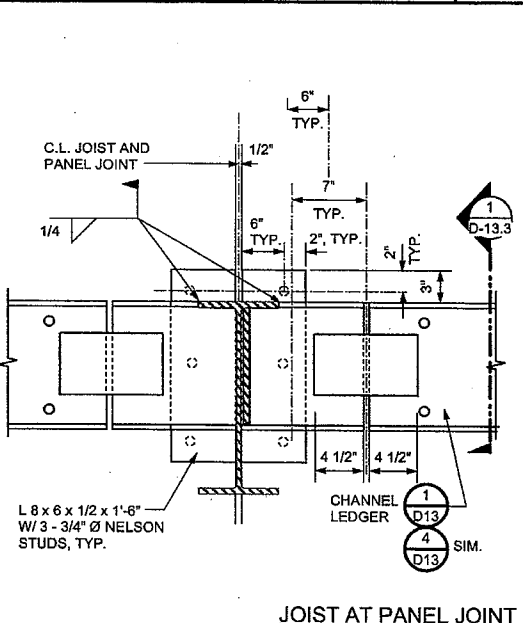
STEEL DECK AT CHANNEL BEAM | 13



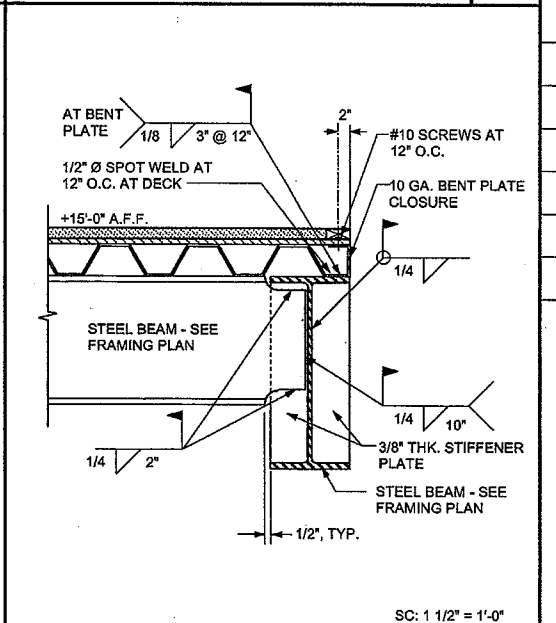
JOIST TO COLUMN CONNECTION | 10



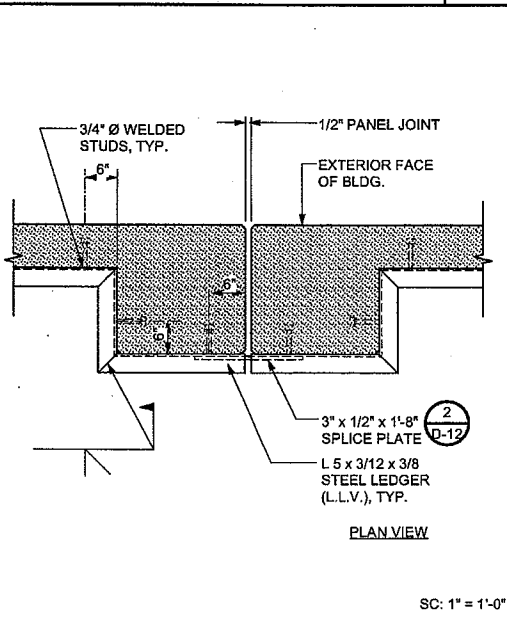
DRAG CONNECTION | 7



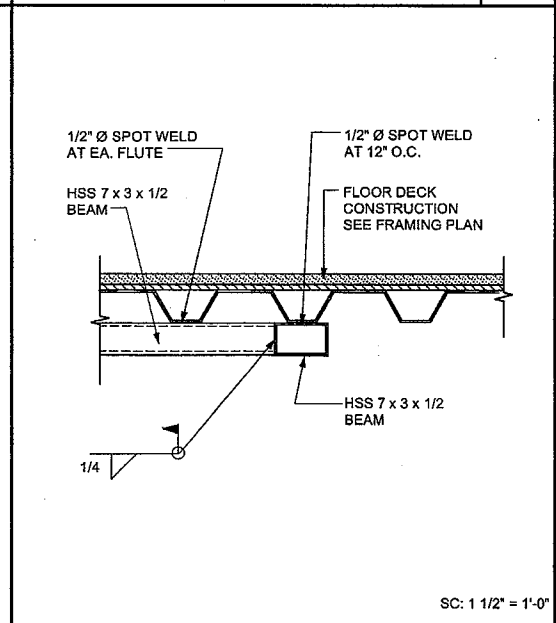
JOIST AT PANEL JOINT | 5



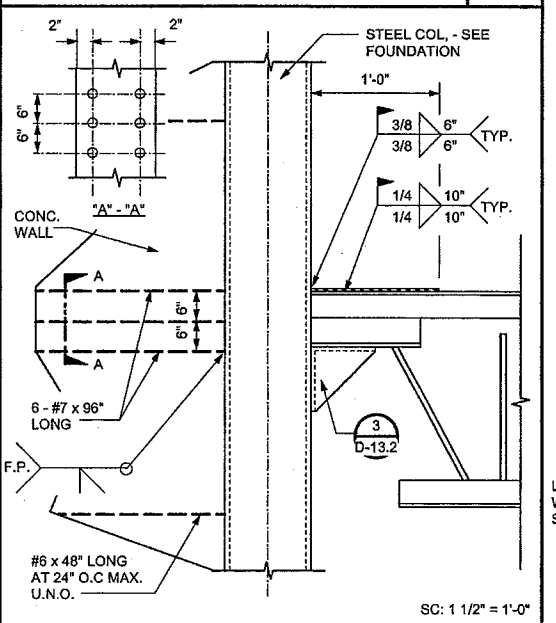
BEAM TO BEAM CONNECTION | 2



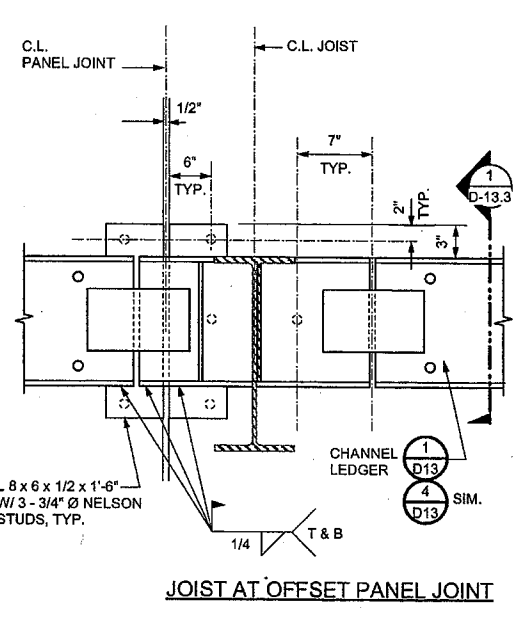
2ND. FLR. LEDGER AT PILASTER | 14



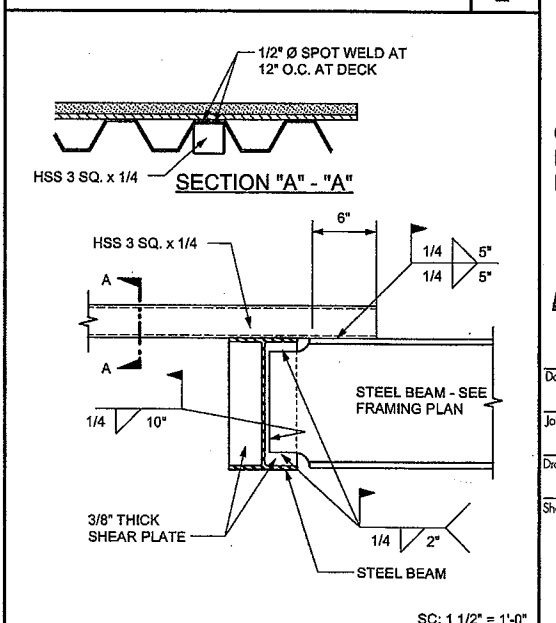
BEAM CONNECTION | 11



JOIST TO COLUMN CONNECTION | 8



JOIST AT OFFSET PANEL JOINT | 5



BEAM TO BEAM CONNECTION | 3

CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVE  
GOLETA, CA

DETAILS

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:

D-13.3

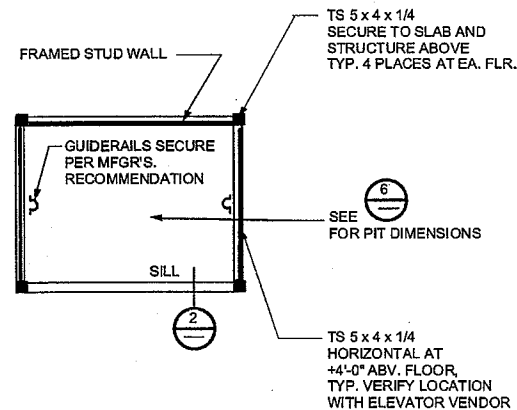


**ELEVATOR NOTES:**

1. AUTOMATIC, POWER OPERATED, HORIZONTAL SLIDING CAR AND HOIST WAY DOORS SHALL BE PROVIDED.
2. CAR SIZE: 68" x 54" MIN., EXCLUDING RETURN PANELS. MIN. DISTANCE BETWEEN WALL AND RETURN PANEL SHALL BE 51".
3. FLOOR BUTTON SHALL BE WITHIN 4'-6" OF THE FLOOR. EXCEPT FOR THE PHOTOELECTRIC TUBE BY-PASS SWITCH. EMERGENCY CONTROLS SHALL BE GROUPED IN ONE LOCATION IN THE OR ADJACENT TO THE BOTTOM OF THE PANEL AND NO LOWER THAN 2'-11" FROM THE FLOOR. FOR MULTIPLE CONTROLS, ONE SET MUST COMPLY WITH THE HEIGHT REQUIREMENTS. EMERGENCY TELEPHONE SHALL BE POSITIONED AT 4'-0" MAX. ABOVE THE FLOOR WITH A 2'-5" MIN. CORD.
4. CAR CONTROL BUTTONS SHALL BE 3/4" MIN. AND RAISED 1/8" MIN. (±1/32"). CONTROL BUTTONS SHALL BE ILLUMINATED, HAVE SQUARE SHOULDERS AND BE ACTIVATED BY MECHANICAL MOTION THAT IS DETECTABLE. ALL BUTTONS SHALL BE DESIGNATED BY A 5/8" MIN. ARABIC SYMBOL TO THE LEFT OF THE CONTROL BUTTON WITH A BRAILLE SYMBOL BELOW THE ARABIC SYMBOL. 3/8" MIN. SHALL BE PROVIDED BETWEEN ROWS OF CONTROL BUTTONS. RAISED CHARACTERS SHALL BE WHITE ON A BLACK BACKGROUND. CONTROLS AND EMERGENCY EQUIPMENT IDENTIFIED BY RAISED SYMBOLS SHALL INCLUDE: DOOR OPEN, DOOR CLOSED, ALARM BELL, EMERGENCY STOP AND TELEPHONE.
5. A HANDRAIL IS REQUIRED ON ONE WALL OF THE CAR, PREFERABLY THE REAR WALL. THE BAR SHALL BE 1 1/2" MIN. FROM THE WALL AND 32" ABOVE THE FLOOR.

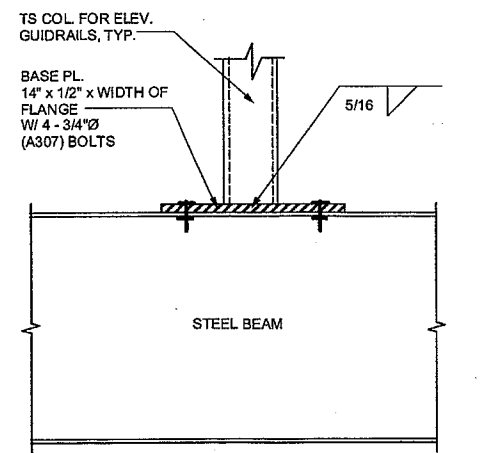
ELEVATOR FINISHES T.B.D.

**ELEVATOR NOTES**

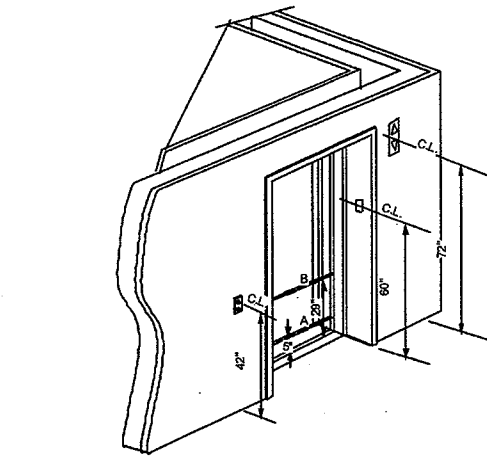


NOTE: ELEVATOR SHAFT AND MECH. ROOM CLEAR DIMENSIONS TO BE VERIFIED WITH ELEVATOR VENDOR PRIOR TO CONSTRUCTION

**CORNER POSTS**

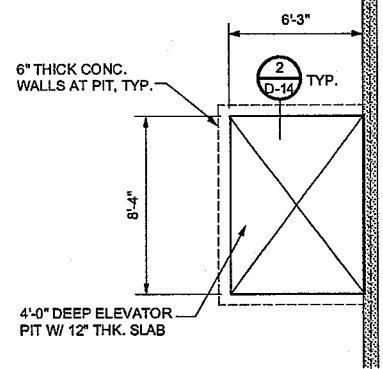


COL. TO BEAM



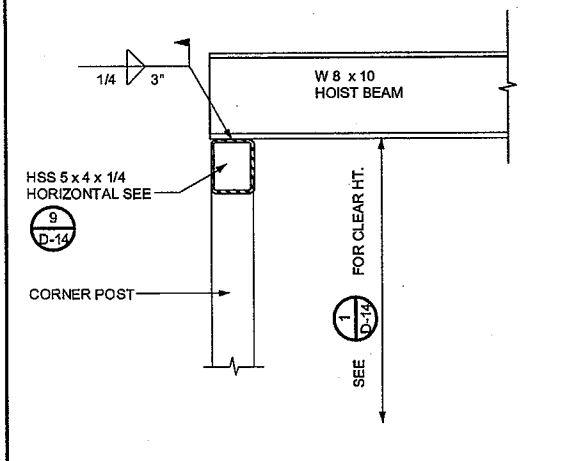
THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE "A" OR LINE "B". LINE "A" AND LINE "B" REPRESENT THE VERTICAL LOCATIONS OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

**ELEVATORS AUDIBLE AND VISUAL**

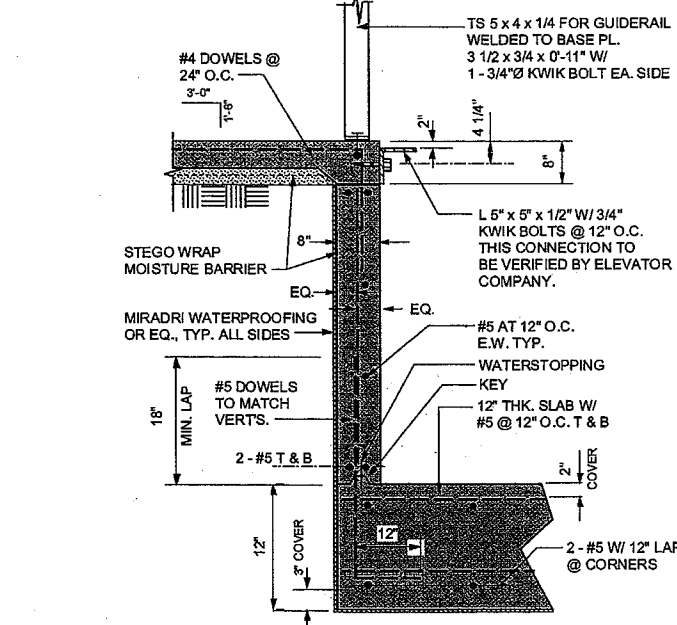


NOTE: CONTRACTOR TO VERIFY PIT DIMENSIONS WITH ELEVATOR VENDOR PRIOR TO CONSTRUCTION

**ELEVATOR PIT**

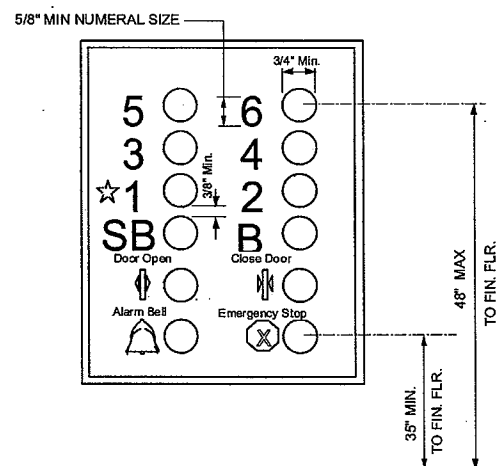


COL. TO BEAM

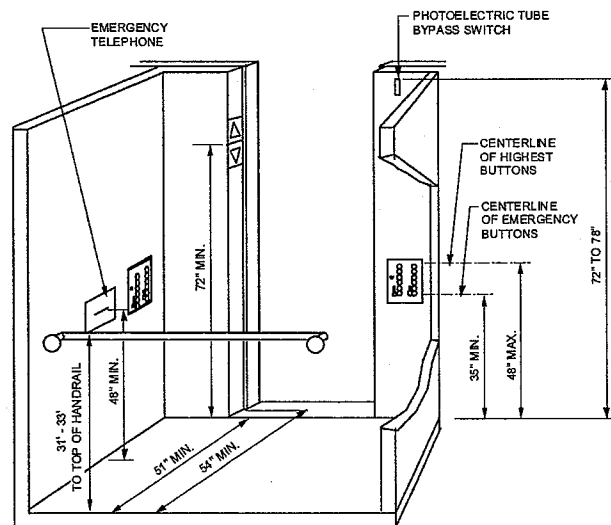


NOTE: VERIFY SILL DETAIL W/ ELEVATOR VENDOR

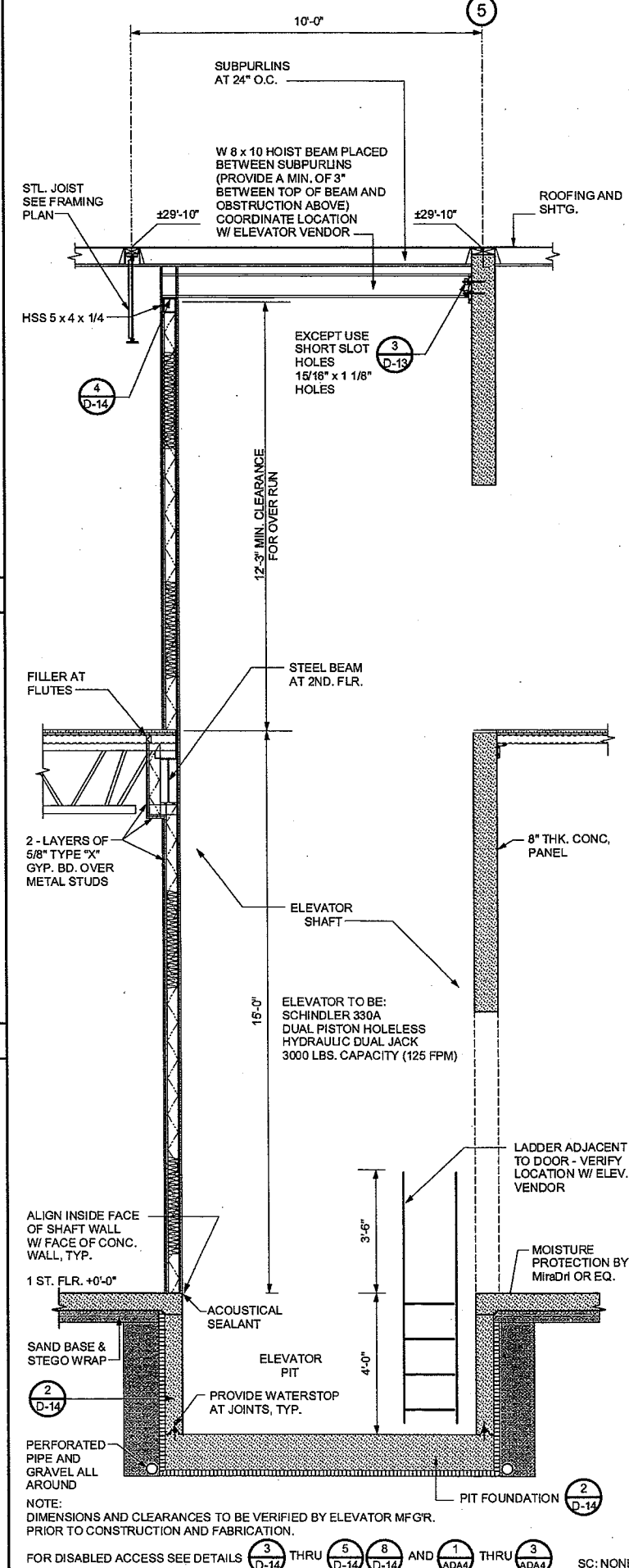
**THRESHOLD ANGLE**



**ELEVATOR CONTROL PANEL**



ELEVATOR



ELEVATOR SECTION



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
GOLETA, CA

**ELEVATOR DETAIL**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:

**D-14**

FOR DISABLED ACCESS SEE DETAILS 3 D-14 THRU 5 D-14 AND 1 ADA THRU 3 ADA SC: NONE

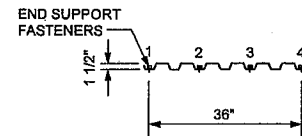
NOT USED

STEEL DECKING SHALL BE MANUFACTURED BY ASC OR VERGO (ICBO ER 2757 OR ER 2078P) B-36 ROOF DECK, PRIMED FOR PAINTING, 18 GAUGE, 1 1/2" DEEP (NON-VENTED) SHALL CONFORM TO THE FOLLOWING PROVISIONS. THE STEEL SHALL BE ASTM DESIGNATION COLD ROLLED STRUCTURAL QUALITY STEEL SHEETING (FOR PAINTED DECK) A446 GRADE "A" (HOT-DIP GALV. DECK AND ACCESSORIES)

WELDING: DECK SHALL BE ATTACHED TO THE STRUCTURAL MEMBER AS PER MANUFACTURER'S RECOMMENDATION AND SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON FRAMING PLANS:

WELD PER PANEL AT SUPPORT: (4) NUMBERS OF 1/2" Ø ARC SPOT PUDDLE WELDS PER 36" WIDE PANEL END, PARALLEL TO DECK; 1/2" Ø PUDDLE WELD @ 18" O.C. U.O.N. ON PLANS.

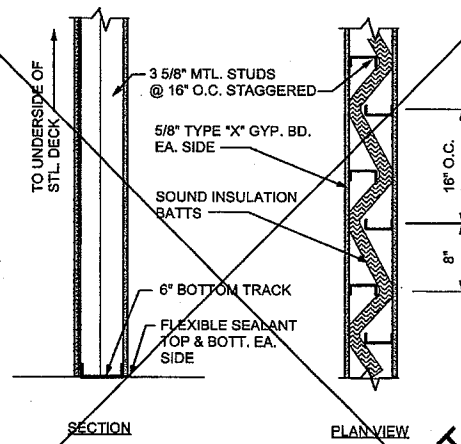
SIDE ATTACHMENT: SIDE LAP CONNECTION SHALL BE BOTTOM PUNCHED (BP) @ 24" O.C.



SC: NONE

STEEL DECKING

6

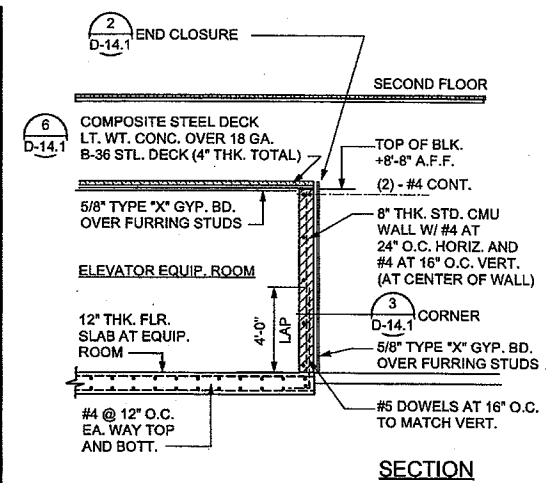


OMIT

SC: 1" = 1'-0"

SOUND WALL

4



NOTE: SOLID GROUT - NO INSPECTION REQUIRED.

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

ELEVATOR EQUIP. ROOM WALL

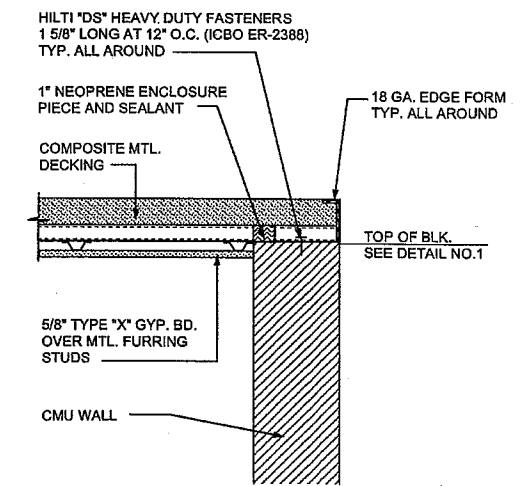
1

NOT USED

NOT USED

7

NOT USED

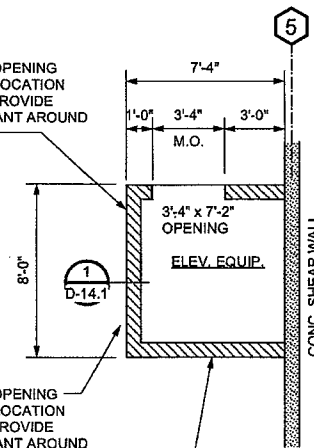


SC: 1 1/2" = 1'-0"

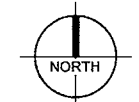
CLOSURE DETAIL

2

PROVIDE 18" x 18" OPENING (VERIFY SIZE AND LOCATION W/ MECH. PLANS) PROVIDE ACOUSTICAL SEALANT AROUND OPENING



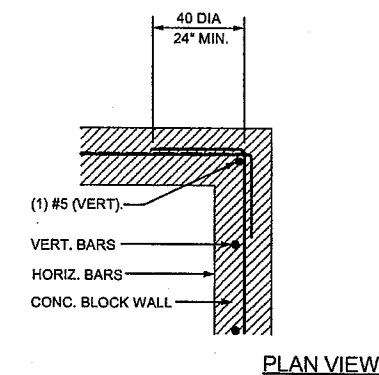
PLAN VIEW



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

ELEVATOR EQUIPMENT ROOM

8



PLAN VIEW

NOTE: INTERLOCK ALL CORNERS AND INTERSECTIONS NO TOOTHING AT CORNERS ALLOWED

SC: NONE

CORNER DETAIL

3



VINCENT DYER  
C-12762



G.O. DYER  
NO. 934

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Revisions

CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVE GOLETA, CA

ELEVATOR EQUIPMENT ROOM

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:



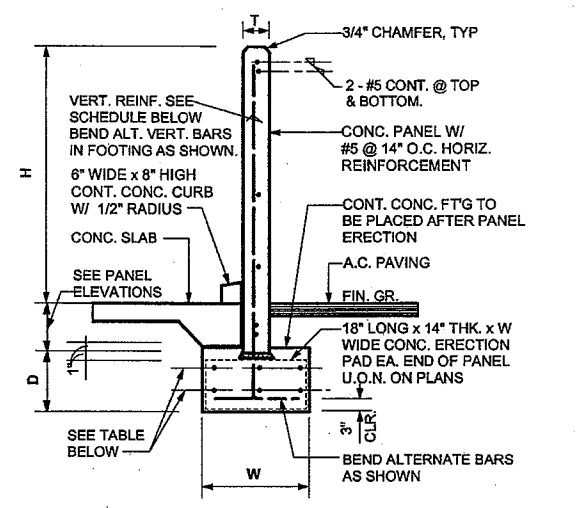
VINCENT DYER  
 C-12762



G.O. DYER  
 NO. 934

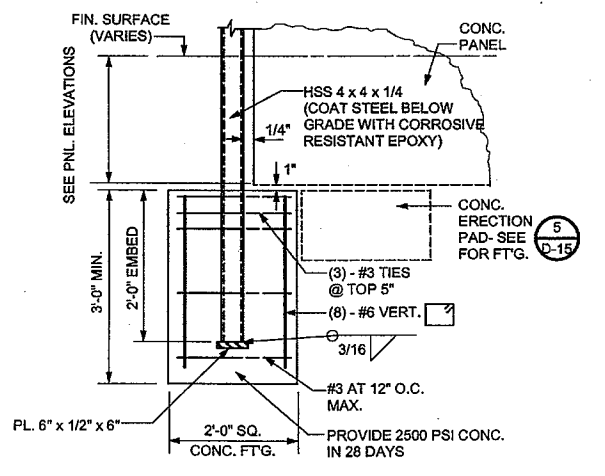
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Revisions



H	VERT. REINF.	FTG. HORIZ. REINF.	W	D	T
7'-0"	#5 @ 16" O.C.	3 - #5 CONT. T. & B.	3'-6"	16"	6"

TRASH ENCLOSURE 5

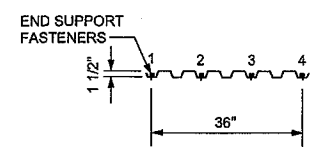


FOOTING DETAIL 6

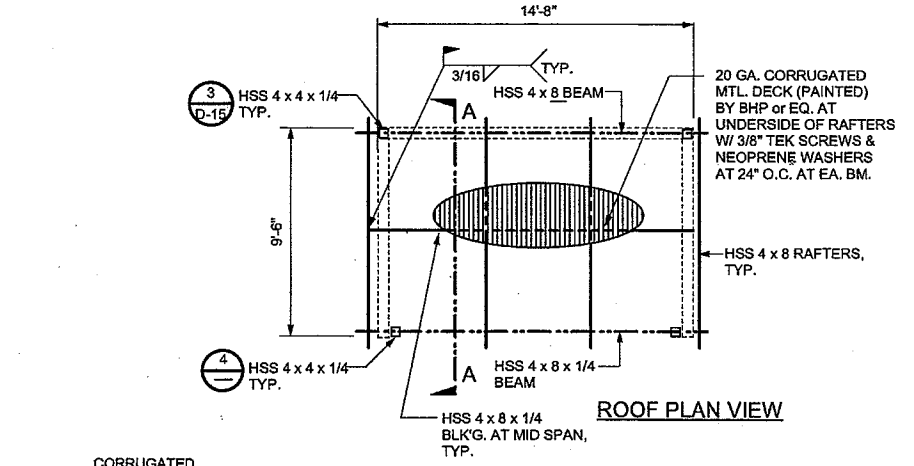
**ROOF DECK CONSTRUCTION NOTES (TRASH ENCLOSURE)**

STEEL DECKING SHALL BE MANUFACTURED BY ASC OR VERCO (ICBO ER-2757 OR ER-2078P) THICKNESS AND TYPE SHALL BE AS INDICATED BELOW AND SHALL CONFORM TO THE FOLLOWING PROVISIONS. THE STEEL SHALL BE ASTM DESIGNATION COLD ROLLED STRUCTURAL QUALITY STEEL SHEETING (FOR PAINTED DECK) A446 GRADE "A" (HOT-DIP GALV. DECK AND ACCESSORIES)

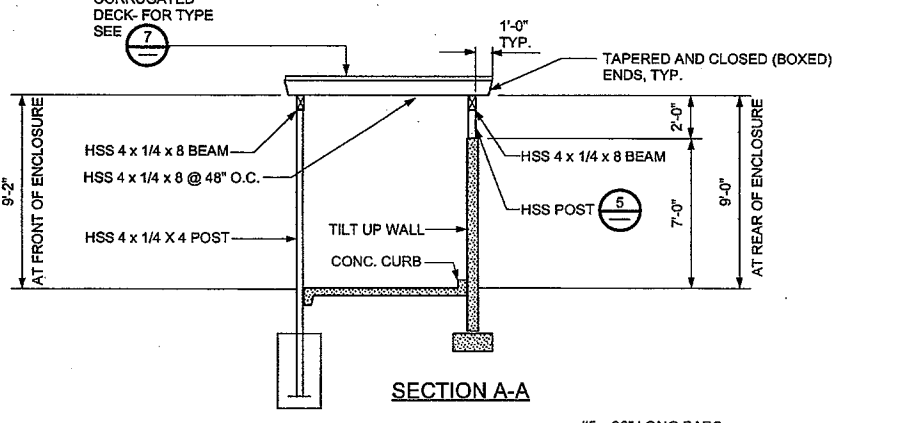
- METAL DECK B-36 GAUGE 20 SHALL BE ATTACHED TO THE STRUCTURAL MEMBER PER RECOMMENDATION OF MANUFACTURER WITH MINIMUM REQUIREMENT GIVEN BELOW:
- FOUR SCREWS AT EACH END SUPPORT PER 36" WIDE SHEET. SCREWS SHALL BE TRAXX 4 (ITW BUILDDEX) (ICBO #ER-3056) WITH NEOPRENE WASHER, TORQUE TO 100 INCH POUNDS. EQUIVALENT STAINLESS STEEL FASTENERS MINIMUM #14 x PENETRATION AS REQUIRED OR EQUIVALENT 1/2" PUDDLE WELDS SHALL BE ACCEPTED.
  - SIDE LAPS SHALL HAVE BOTTOM PUNCHED (PB) AT 24" O.C.
  - FASTEN DECK UNIT TO SUPPORT BEAMS WITH 1/2" PUDDLE WELDS @ 12" O.C.



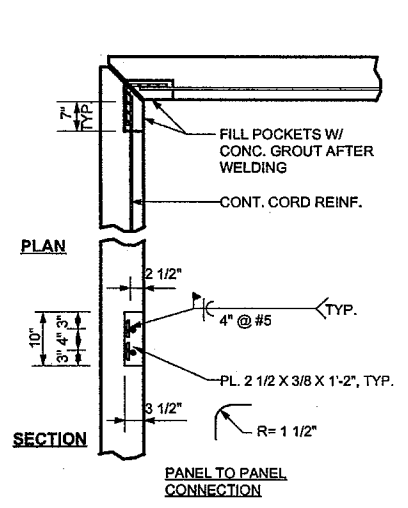
GENERAL NOTES 7



ROOF PLAN VIEW

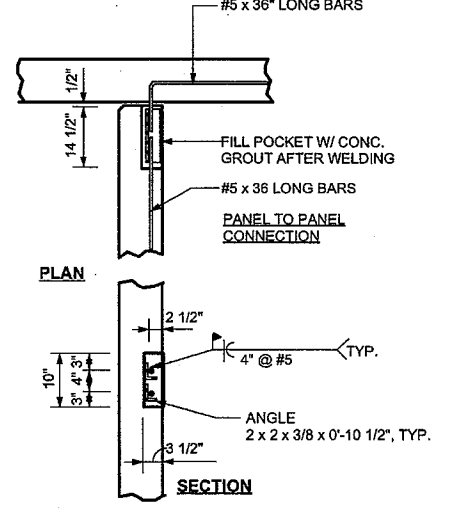


SECTION A-A



PLAN

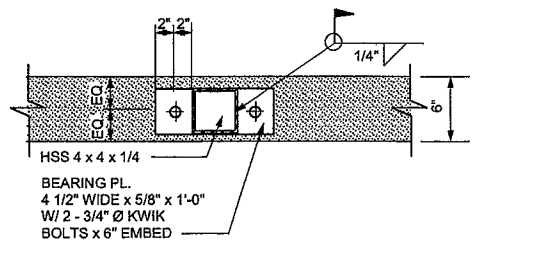
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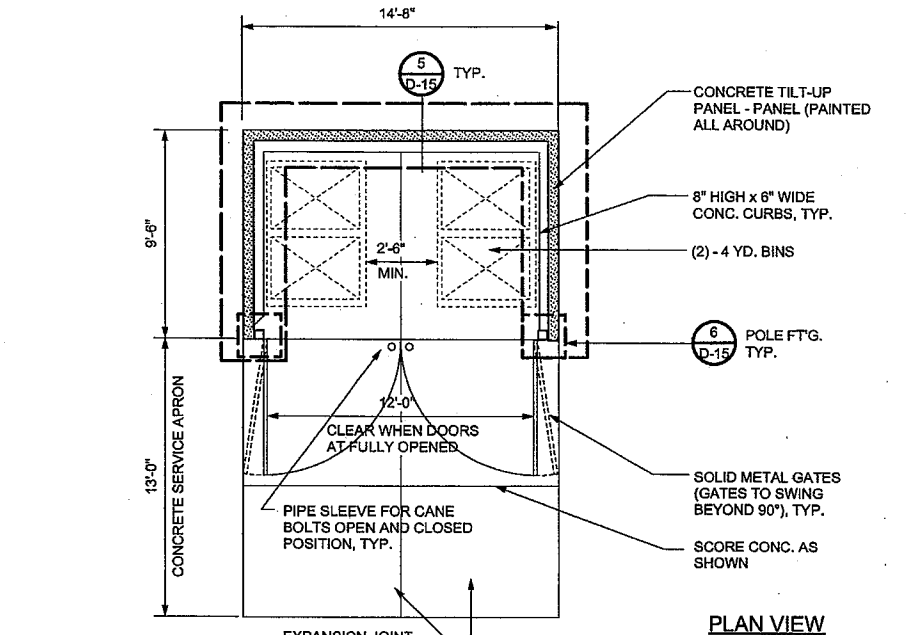
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SECTION

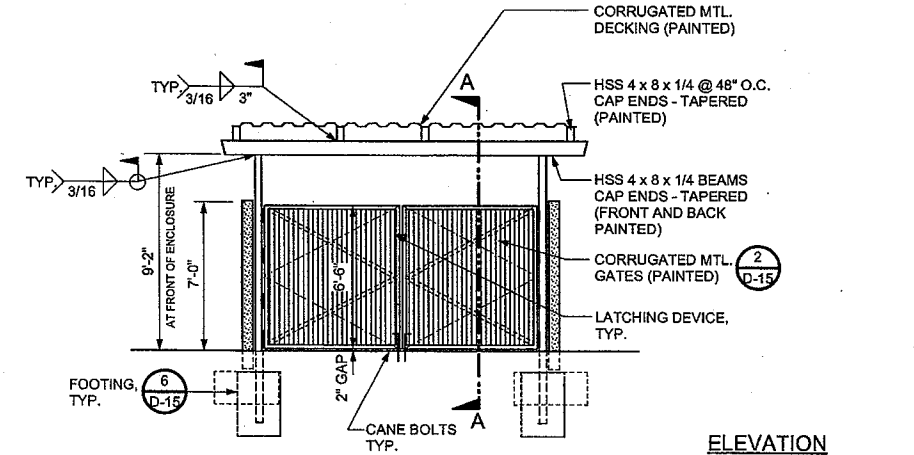
COLUMN BASE PLATE 4



SC: 1 1/2" = 1'-0"



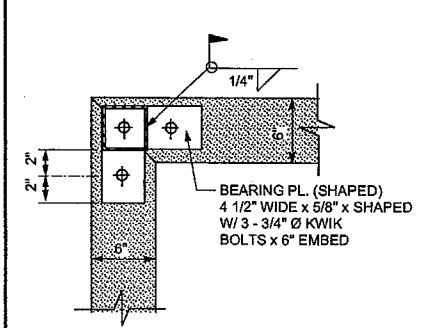
PLAN VIEW



ELEVATION

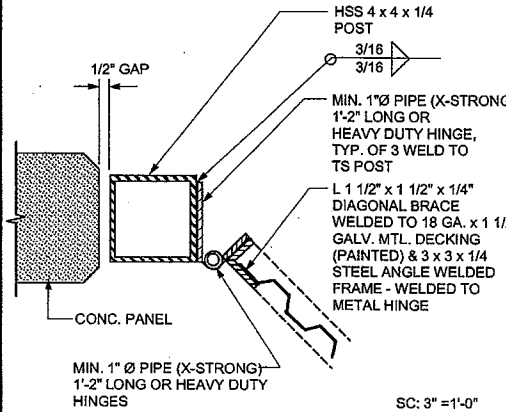
NOTE: TRASH ENCLOSURE TO CONFORM TO PUBLIC WORKS STANDARDS FOR COMMERCIAL / INDUSTRIAL USES.  
 PROVIDE AN APPROVED AUTOMATIC FIRE SPRINKLER IF THE ENCLOSURE IS WITHIN 5'-0" OF AN OCCUPIED BUILDING.

COLUMN BASE PLATE 3



SC: 1 1/2" = 1'-0"

**TRASH ENCLOSURE**



HINGE DETAIL 2

**CABRILLO BUSINESS PARK BUILDING NO. 4**

HOLLISTER AVE  
 GOLETA, CA

**DETAILS**

Date: 11-18-09

Job: 0904

Drawn by:

Sheet:



VINCENT DYER  
 C 12762



G.O. DYER  
 NO. 934

Revisions

NO.	DESCRIPTION

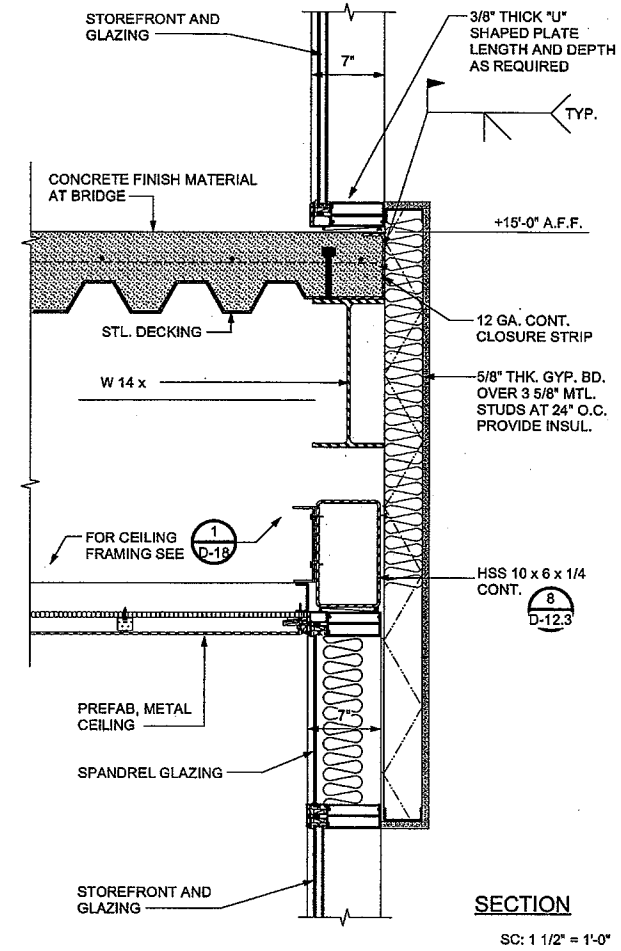
NO.	DESCRIPTION

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 HOLLISTER AVE  
 GOLETA, CA

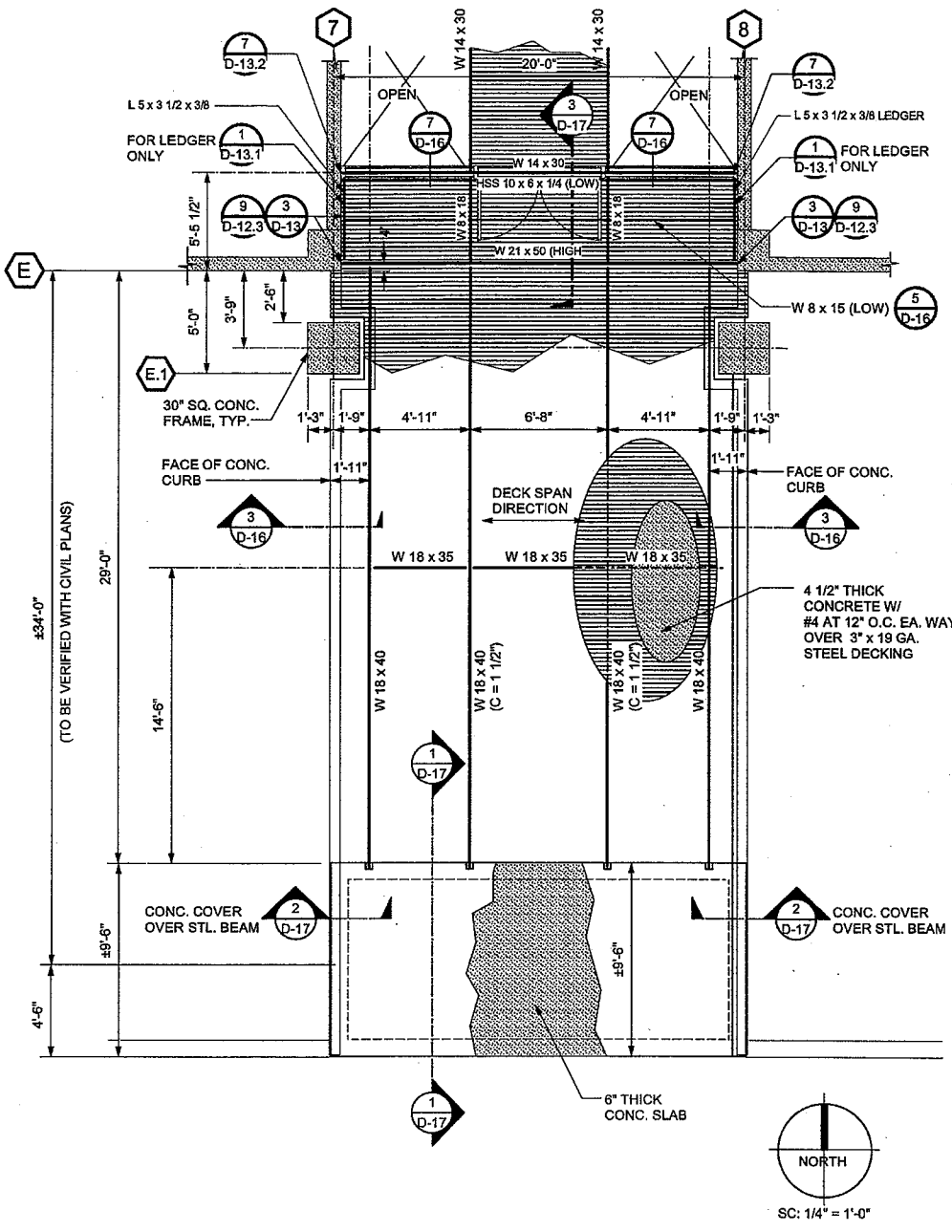
**BRIDGE DETAILS**

Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet:

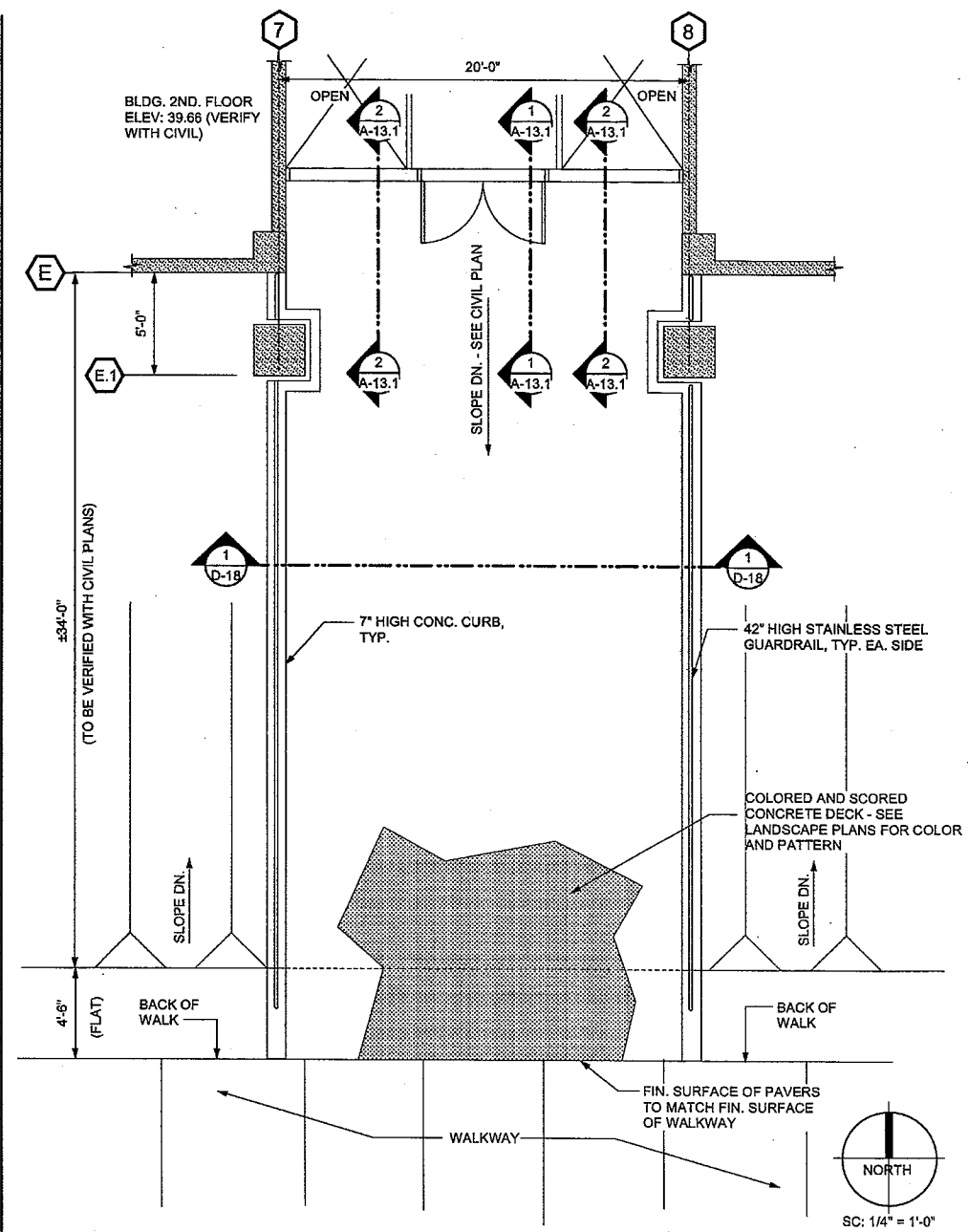
**D-16**



DETAIL 7



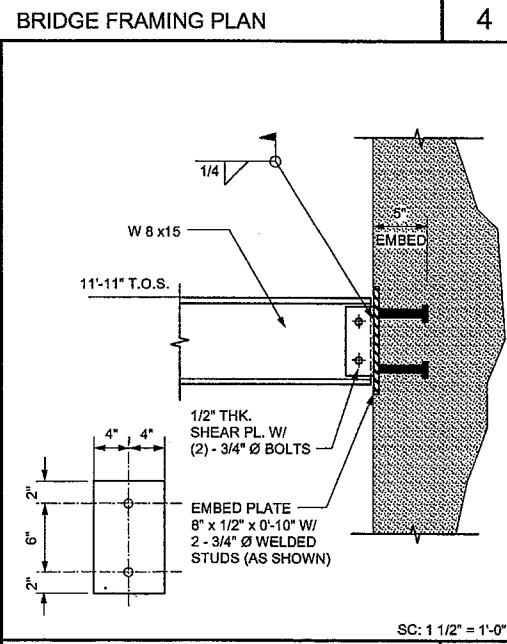
BRIDGE FRAMING PLAN 4



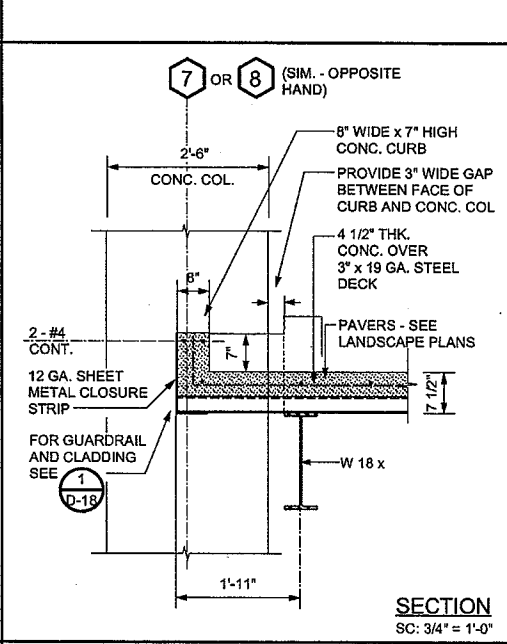
BRIDGE FLOOR PLAN 1

NOT USED

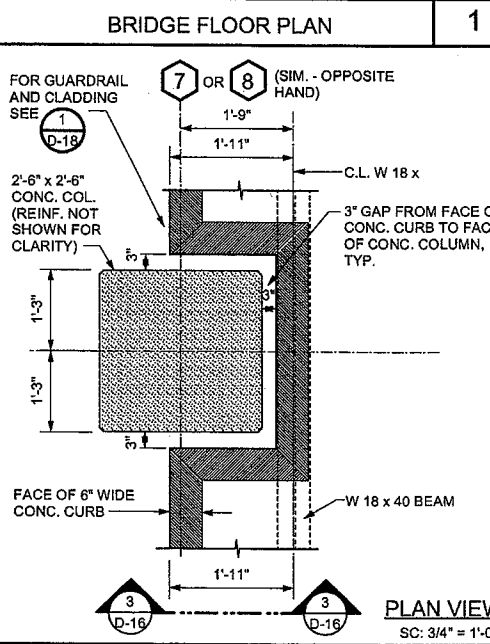
NOT USED



BEAM CONNECTION 5



DETAIL 3



DETAIL 2

8

6

5

3

2

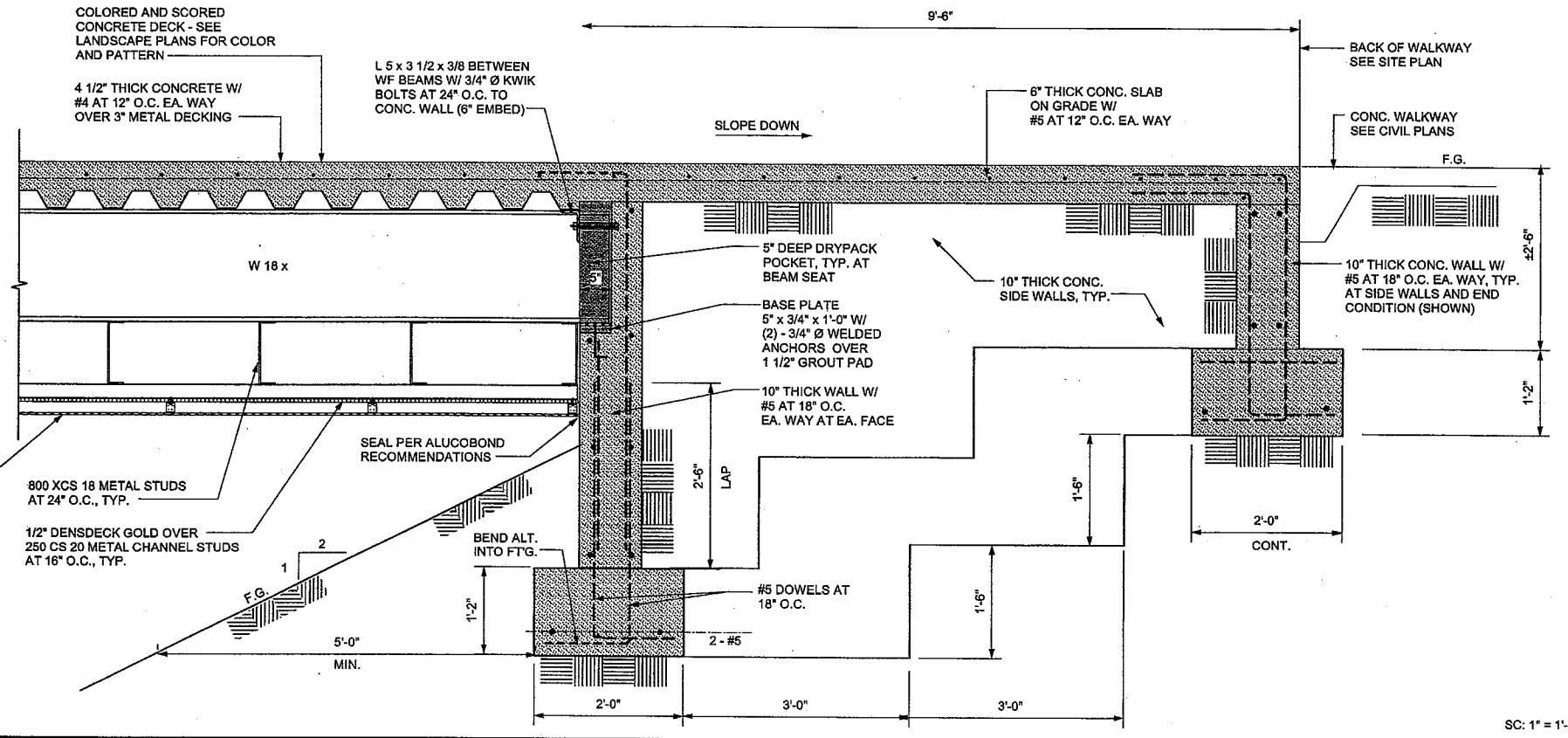


VINCENT DYER  
 C 12762



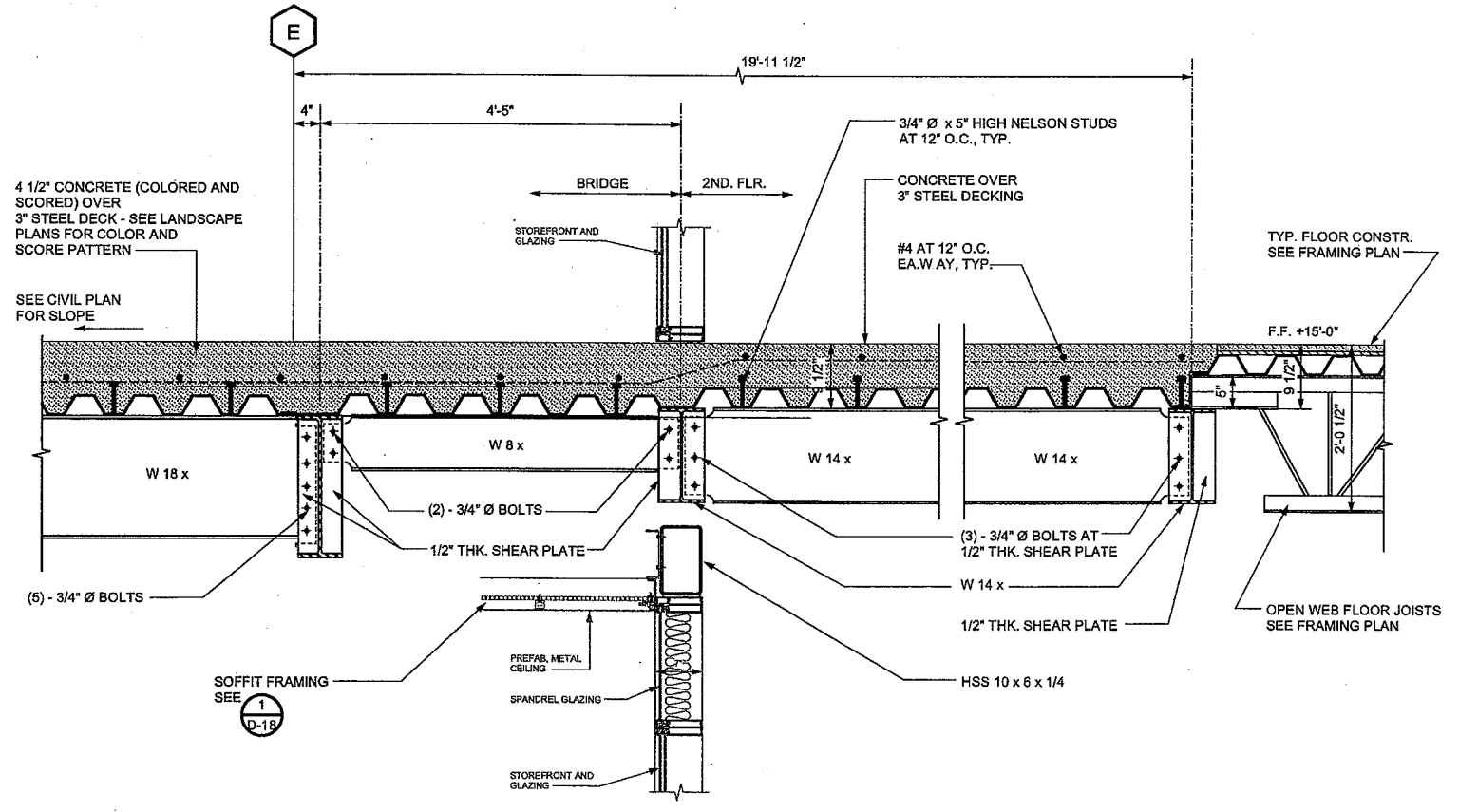
G.O. DYER  
 NO. 934

Revisions



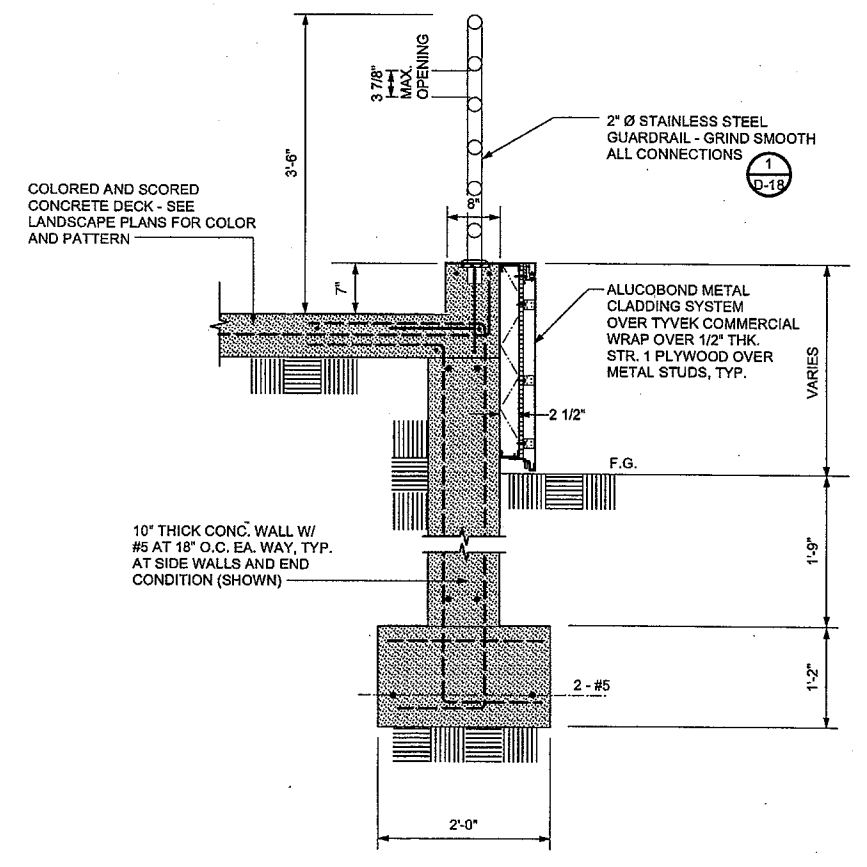
SC: 1" = 1'-0"

RAMP SECTION 1



SC: 1" = 1'-0"

BRIDGE / 2ND. FLOOR SECTION 3



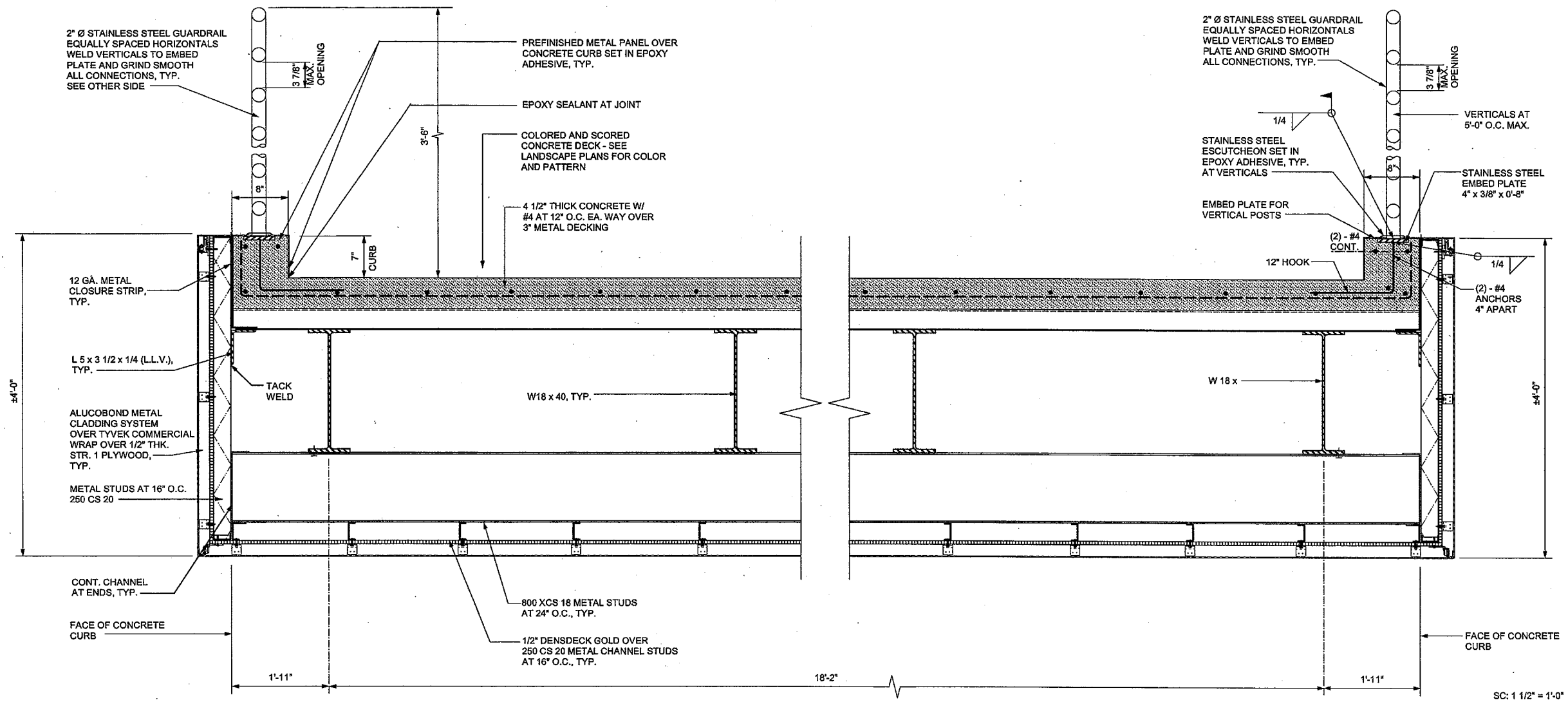
SC: 1" = 1'-0"

RAMP SECTION 2

CABRILLO BUSINESS PARK  
 BUILDING NO. 4  
 HOLLISTER AVE  
 GOLETA, CA

BRIDGE  
 DETAILS

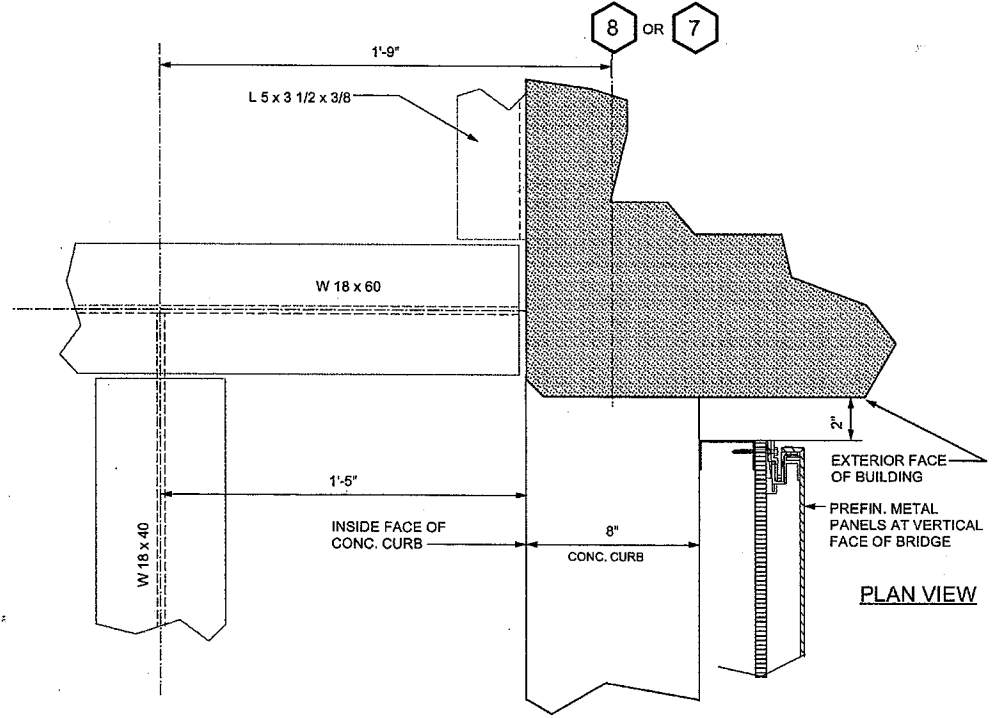
Date: 11-18-09  
 Job: 0904  
 Drawn by:  
 Sheet:



BRIDGE SECTION "A - A"

1

NOT USED



PLAN VIEW

VERTICAL AND HORIZONTAL EXPANSION JOINT

2



VINCENT DYER  
C 12762



G.O. DYER  
NO. 934

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Revisions


CABRILLO BUSINESS PARK  
BUILDING NO. 4  
HOLLISTER AVE  
GOLETA, CA

BRIDGE  
DETAILS

Date: 11-18-09  
Job: 0904  
Drawn by:  
Sheet:



# MECHANICAL SPECIFICATIONS

ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE REFERENCED CODES AND ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

VERIFY ALL SECTIONS AND ELEVATIONS PRIOR TO DUCTWORK FABRICATIONS.

DRAWINGS SHOW PIPE AND DUCTWORK DIAGRAMMATICALLY.

COORDINATED FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED CLEARANCES.

VARY RUN AND SHAPE OF DUCTWORK, AND MAKE OFFSETS DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS APPROVED BY ARCHITECT.

PAY ALL COSTS OF DESIGN AND INSTALLATION FOR CHANGES RESULTING FROM SUBSTITUTION OF ALTERNATE PRODUCTS. ACCEPTANCE OF ALTERNATE PRODUCTS BY THE ARCHITECT DOES NOT CHANGE THIS REQUIREMENT.

COORDINATE ALL AIR OUTLETS WITH REFLECTED CEILING PLAN.

COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND EQUIPMENT.

DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS OTHERWISE SPECIFIED. METAL GAUGES AND CONSTRUCTION: PER SMACNA STANDARDS (SUPPLY FAN PRESSURE CLASSIFICATION) AND UMC. ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.

FABRICATE DUCTWORK IN A WORKMANLIKE MANNER WITH AIRTIGHT JOINTS, PRESENTING SMOOTH SURFACES ON INSIDE, NEATLY FINISHED ON OUTSIDE; CHANGES IN DIRECTION SHALL BE MADE WITH LONG RADIUS ELBOWS (R=1-1/2 DIA) OR MITERED ELBOWS WITH TURNING VANES. MAKE INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIR FLOW.

CONSTRUCT, BRACE, AND SUPPORT DUCTS AND AIR PLENUMS TO PREVENT SAGGING AND TO MINIMIZE VIBRATION PER SMACNA STANDARDS AND UMC.

INSTALL EQUIVALENT SIZE RECTANGULAR DUCT WHERE PREFERRED OR WHERE SPACE IS LIMITED AND IN CONCEALED AREAS ONLY.

FLEXIBLE DUCT MAY BE USED AT RUNOUT TO AIR TERMINALS IN CONCEALED AREAS (MAXIMUM 7 FEET LENGTH) AND AS SHOWN ON DRAWINGS. SUPPORT PER SMACNA STANDARDS.

INSTALL MANUAL VOLUME DAMPER AT EACH DIFFUSER BRANCH AND AS INDICATED ON DRAWINGS AND AS FAR FROM THE DIFFUSER AS POSSIBLE. CONSTRUCT DAMPERS OF SAME MATERIAL AS DUCT, ONE GAUGE HEAVIER, REINFORCED TO PREVENT NOISE. INSTALL IN ACCESSIBLE LOCATION WITH LOCKING DEVICE AND INDICATING QUADRANT.

EXCEPT AS OTHERWISE NOTED ON DRAWINGS, ALL CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS BLANKET INSULATION WITH FOIL JACKET. CONDUCTIVITY SHALL BE 0.29 BTU-IN/HR AT 75 DEG. F. FLAME/FUEL/SMOKE MAXIMUM OF 25/50/50. INSTALL PER SMACNA GUIDELINES.

ALL INTERIOR SUPPLY AND RETURN PLENUMS SHALL BE INSULATED WITH 1 INCH SOUND LINER AND ALL EXTERIOR SUPPLY AND RETURN PLENUMS SHALL BE LINED WITH 1-1/2 INCH THICK SOUND LINER.

ALL ROOF AND EXTERIOR WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO SEAL WEATHER TIGHT.

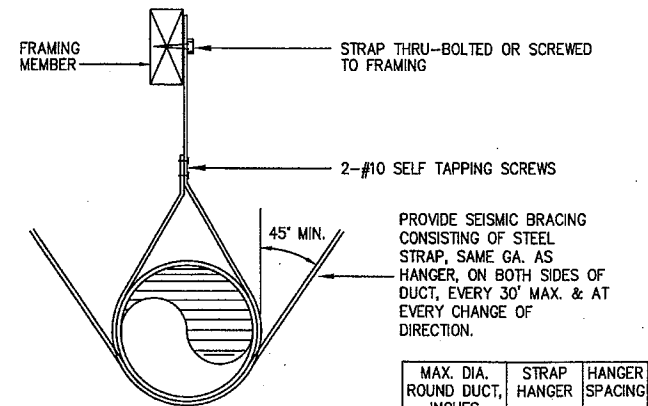
SUBMIT SIX (6) COPIES BOUND SHOP DRAWINGS AND BROCHURES TO ARCHITECT AS FOLLOWS:

- A. MECHANICAL EQUIPMENT
- B. DUCTING
- C. INSULATION

BALANCE SYSTEM TO WITHIN +/- 5% OF THE AIR QUANTITIES SHOWN. SUBMIT AIR BALANCE REPORT BY NEBB CERTIFIED TECHNICIAN TO ARCHITECT.

VISIBLE INTERIOR PORTIONS OF DUCTWORK AND AIR TERMINALS SHALL BE PAINTED FLAT BLACK.

SEAL DUCTWORK JOINTS WITH AIRTIGHT MASTIC.



NOTE: SEISMIC BRACING INDICATED IS FOR ROUND DUCTING LESS THAN 28".

# MECHANICAL EQUIP SCHEDULE

**AC 1** ROOFTOP PACKAGE HEATING AND AIR CONDITIONING UNIT, TRANE YSC102E, 3400 CFM AT 1.2 IWG EXT, 103,000 BTUH TOTAL AND 80,800 BTUH SENSIBLE COOLING CAPACITY AT 80°F DB/67°F WB ENTERING EVAP COIL AND 95°F AMBIENT, 120,000 BTUH INPUT, 97,200 BTUH OUTPUT, 460 VOLT, 3 PHASE, 3.1 FLA INDOOR FAN MOTOR, (2) COMPRESSORS AT 7.1 FLA EACH, 2.8 FLA OUTDOOR FAN MOTOR, 4.0 FLA POWER EXHAUST, 10.0 EER, 1575 LBS, COMPLETE WITH 2" FILTERS, 8" ROOF CURB AND ECONOMIZER WITH MODULATING POWER EXHAUST. PROVIDE WITH LON/BACNET COMPATIBLE CONTROLS.

**AC 2/AC 3/AC 4/AC 5** ROOFTOP PACKAGE AIR CONDITIONING UNIT, TRANE TCD420, 14000 CFM AT 2.0 IWG EXT, 407,000 BTUH TOTAL AND 324,870 BTUH SENSIBLE COOLING CAPACITY AT 80°F DB/67°F WB ENTERING EVAP COIL AND 95°F AMBIENT, 15 HP SUPPLY FAN WITH FACTORY INSTALLED VARIABLE FREQUENCY DRIVE WITH BYPASS, 460 VOLT, 3 PHASE, INDOOR FAN MOTOR = 18.0 FLA, COMPRESSOR 1 = 23.0 FLA, COMPRESSOR 2 = 27.0 FLA (3) CONDENSER FAN MOTORS = 3.5 FLA EACH, (2) EXHAUST FAN 1.8 FLA EACH, POWER EXHAUST = 12.4 FLA, 10.3 EER, 5500 LBS, COMPLETE WITH 4" FILTERS, 8" ROOF CURB WITH SPRING ISOLATION AND ECONOMIZER WITH MODULATING POWER EXHAUST. PROVIDE WITH LON/BACNET COMPATIBLE CONTROLS.

**T** THERMOSTAT, "TRANE", PROGRAMMABLE, WITH LOCKABLE PLASTIC TAMPER PROOF COVER.

**SD** SMOKE DETECTOR, "KELE" SL-2000 PHOTOELECTRIC DUCT MOUNTED, 24 VAC, UL LISTED. PROVIDE ALTERNATE SMOKE DETECTOR IF THE BUILDING HAS A FIRE ALARM CONTROL PANEL. VERIFY EXACT REQUIREMENTS WITH FIRE ALARM CONTROLS CONTRACTOR.

**EF 1** CENTRIFUGAL ROOFTOP EXHAUST FAN, "GREENHECK" MODEL GB-181. 2200 CFM AT 3/4" SP, 120 VOLT, 1 PHASE, 60 HZ, 1/2 HP, 8.8 SONES. COMPLETE WITH BACKDRAFT DAMPER AND ROOF CURB. OP. WEIGHT: 175 LBS. INTERLOCK WITH AC-1 SUPPLY FAN, COORDINATE WITH ELECTRICAL CONTRACTOR.

**EF 2/EF 3** CENTRIFUGAL ROOFTOP EXHAUST FAN, "GREENHECK" MODEL GB-131. 1200 CFM AT 1/2" SP, 120 VOLT, 1 PHASE, 60 HZ, 1/3 HP, 8.7 SONES. COMPLETE WITH BACKDRAFT DAMPER AND ROOF CURB. OP. WEIGHT: 150 LBS. CONTROL FAN WITH LINE VOLTAGE THERMOSTAT, COORDINATE WITH ELECTRICAL CONTRACTOR.

**EF 4** CEILING EXHAUST FAN, "GREENHECK" MODEL SP-A700. 350 CFM AT 5/8" SP, 120 VOLT, 1 PHASE, 60 HZ, 350 WATTS, 4.7 SONES. COMPLETE WITH BACKDRAFT DAMPER AND CEILING GRILLE. OP. WEIGHT: 25 LBS. CONTROL WITH LINE VOLTAGE THERMOSTAT, COORDINATE WITH ELECTRICAL CONTRACTOR.

**GV 1** ROOFTOP EXHAUST CAP, GREENHECK FABRAHOOD, 12" X 12" THROAT SIZE, 1.0 SQ. FT. 100 LBS, COMPLETE WITH ROOF CURB.

**B 1A/B 1B** OUTDOOR HOT WATER BOILER, "RAYPAK" MODEL H-752B OR EQUAL, 750.0 MBH INPUT NATURAL GAS, 635.0 MBH OUTPUT, 84% EFF., 180°F LWT, 160°F EWT, 800 LBS. OPERATING WEIGHT. BOILER SHALL BE LOW NOX AND COMPLY WITH ALL APPLICABLE CODES.

**P 1A/P 1B** PRIMARY SPACE HEATING HOT WATER PUMP, BELL & GOSSETT 1510 SIZE 1-1/2AB OR EQUAL, 59 GPM AT 40 FT HD, 1750 RPM, 1-1/2 HP MOTOR, 460V-3PH, 200 LBS. INCLUDE B & G SUCTION DIFFUSER CB-3. REMOVE START UP STRAINER AT COMPLETION OF JOB.

# LEGEND

SYMBOL	ABREV	DESCRIPTION
⊗	POC	POINT OF CONNECTION
⊗		SUPPLY DUCT SECTION
⊗		RETURN DUCT SECTION
⊗		EXHAUST DUCT SECTION
⊗		SQUARE SUPPLY DIFFUSER
⊗		SQUARE RETURN REGISTER
⊗		SQUARE EXHAUST REGISTER
⊗		FLEXIBLE DUCT
⊗		MANUAL VOLUME DAMPER
⊗		ROOM THERMOSTAT

# AIR OUTLET SCHEDULE

UNIT TAG	PANEL SIZE	MANUFACTURER AND MODEL No	GENERAL NOTATION
S1	24 X 24	PRICE PDN W/OBD	S = SUPPLY R = RETURN
S2	-	PRICE SMDA W/OBD	S1 - ITEM NUMBER 300 - AIR QUANTITY (CFM) 12 X 12 - NECK SIZE
S3	SIDEWALL	PRICE 520 W/OBD	
R1	24 X 24	PRICE PDDR	NOTE: PROVIDE ALL AIR OUTLETS WITH BLACK BACK PANELS.
R2	-	PRICE 535	
R3	24X48	PRICE PDDR	
E1	-	PRICE 535	

# GENERAL NOTES

- FURNISH AND INSTALL CLEAN MERV 7 AIR FILTERS IN AC UNITS AFTER ALL WORK IS COMPLETED.
- THE CALIFORNIA NONRESIDENTIAL ENERGY STANDARDS HAVE BEEN REVIEWED AND THE DESIGN DRAWINGS COMPLY SUBSTANTIALLY WITH THESE STANDARDS.
- ACCESS TO ROOF MOUNTED EQUIPMENT SHALL COMPLY WITH UMC, SECTION 321.8.
- ALL APPLIANCES (HEATING, VENTILATING AND COOLING EQUIPMENT) EQUIPMENT DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER UBC.
- SUPPORT DUCTWORK IN ACCORDANCE WITH THE LATEST EDITION OF THE CMC.
- ALL DUCT JOINTS AND SUPPORTS SHALL COMPLY WITH UL 181 AND 181A.
- ALL WORK TO COMPLY WITH THE 2007 CALIFORNIA MECHANICAL CODE.
- TEMPERATURE/ZONING CONTROLS FOR AC-2, AC-3, AC-4, AC-5 SHALL BE PROVIDED BY THE T.I. CONTRACTOR. AC UNITS SHALL BE LON/BACNET COMPATIBLE.



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Revisions

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CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVENUE GOLETA, CA.

LEGEND, SCHEDULES, AND NOTES

Date: 11-18-09

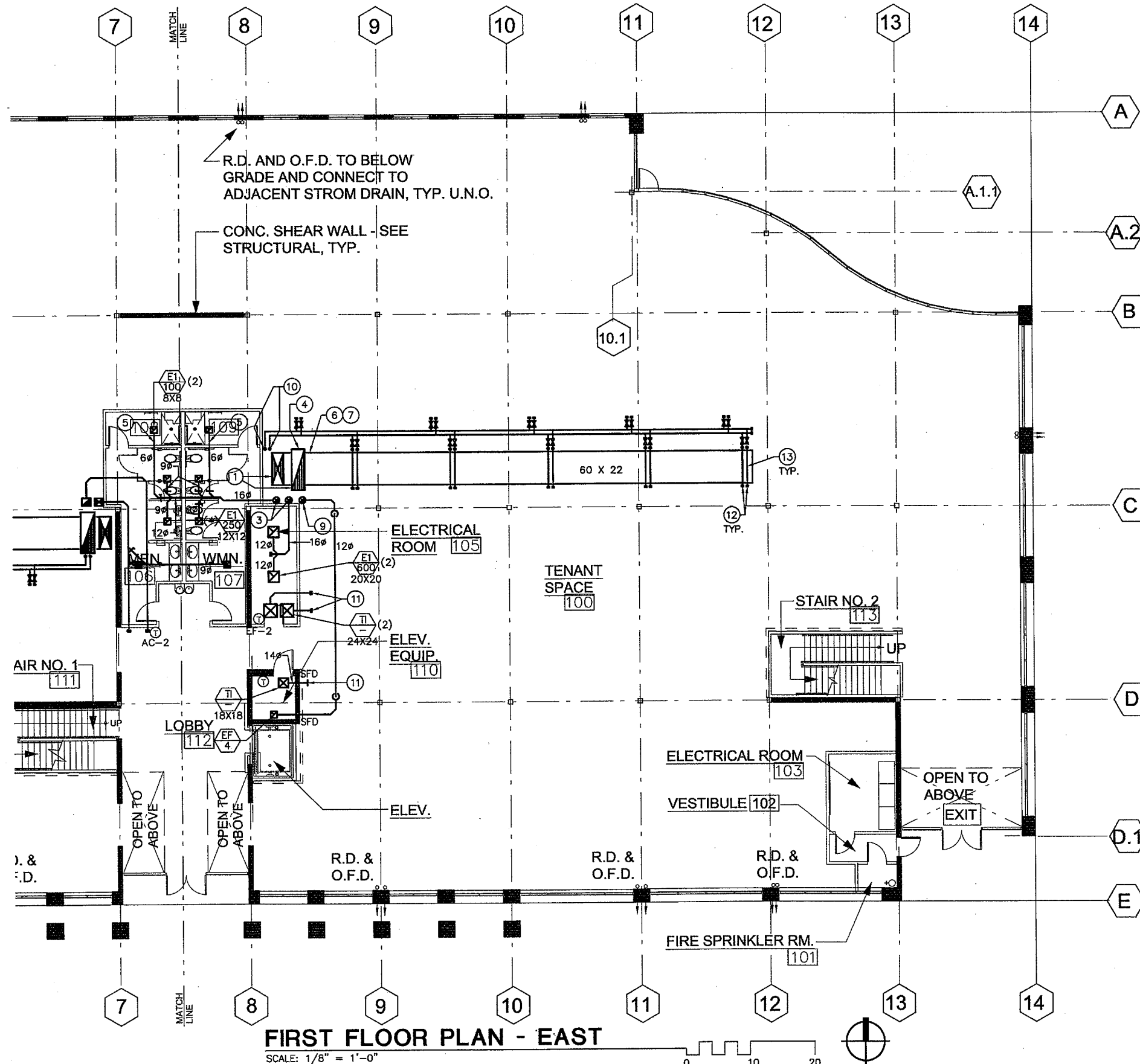
Job: ####

Drawn by: RMA

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M-1





**FIRST FLOOR PLAN - EAST**  
 SCALE: 1/8" = 1'-0"

- REVISIONS NOTES**
- ① 22" X 60" LINED SUPPLY AND 24" X 76" LINED RETURN AIR DUCT UP. SEE M3 FOR CONTINUATION.
  - ② NOT USED
  - ③ 16"Ø EXHAUST AIR DUCT UP. SEE M3 FOR CONTINUATION.
  - ④ STUB RETURN AIR DUCT INTO RETURN AIR PLENUM AND TERMINATE WITH GALV. STEEL SCREEN.
  - ⑤ PROVIDE MINIMUM OF 6' LONG STAINLESS STEEL DUCT FROM REGISTER.
  - ⑥ ROUTE MAIN SUPPLY AIR DUCT TIGHT TO LOWEST BEAM.
  - ⑦ ROUTE SUPPLY AIR DUCT UNDER RETURN AIR DUCT.
  - ⑧ NOT USED
  - ⑨ 12"Ø EXHAUST AIR DUCT UP.
  - ⑩ 1-1/2" HOT WATER SUPPLY AND RETURN PIPING UP.
  - ⑪ STUB TRANSFER AIR DUCT INTO PLENUM AND TERMINATE WITH GALV. STEEL SCREEN.
  - ⑫ 3/4" HOT WATER SUPPLY AND RETURN PIPING WITH SHUT OFF VALVES FOR FUTURE T.I.
  - ⑬ ROUTE PIPING OVER DUCT.

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**MOON**  
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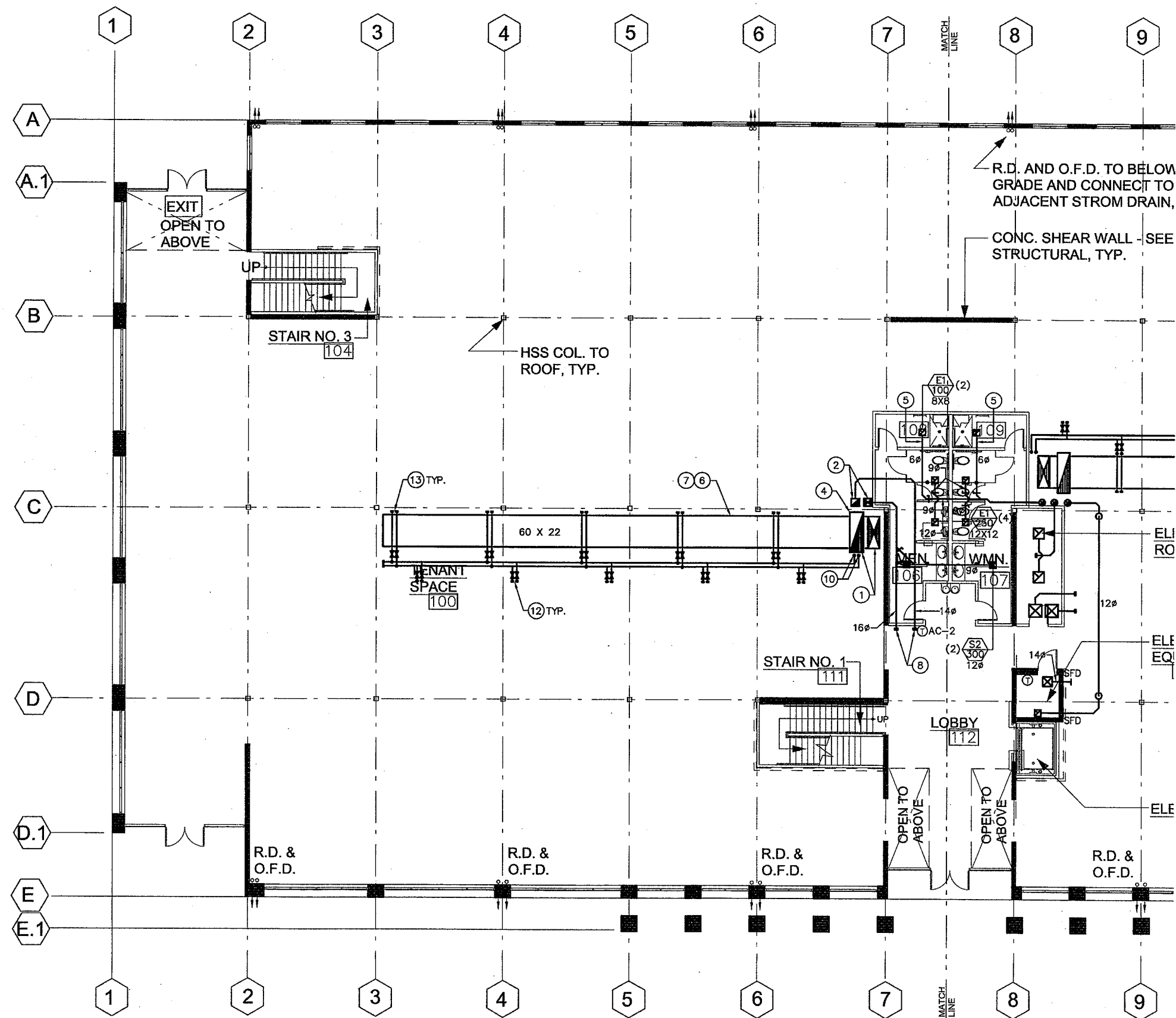
CABRILLO  
 BUSINESS PARK  
 BUILDING NO. 4

HOLLISTER AVENUE  
 GOLETA, CA.

FIRST FLOOR PLAN - EAST

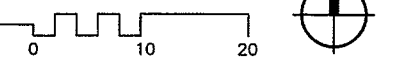
Date: 11-18-09  
 Job: ###  
 Drawn by: RMA  
 Sheet:

M-2



**FIRST FLOOR PLAN - WEST**

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



**REFERENCE NOTES**

- ① 22" X 60" LINED SUPPLY AND 24" X 76" LINED RETURN AIR DUCT UP. SEE M3 FOR CONTINUATION.
- ② 14" X 16" LINED SUPPLY AND RETURN AIR DUCT UP. SEE M3 FOR CONTINUATION.
- ③ NOT USED
- ④ STUB RETURN AIR DUCT INTO RETURN AIR PLENUM AND TERMINATE WITH GALV. STEEL SCREEN.
- ⑤ PROVIDE MINIMUM OF 6' LONG STAINLESS STEEL DUCT FROM REGISTER.
- ⑥ ROUTE MAIN SUPPLY AIR DUCT TIGHT TO LOWEST BEAM.
- ⑦ ROUTE SUPPLY AIR DUCT UNDER RETURN AIR DUCT.
- ⑧ CAP FOR FUTURE ENTRY T.I.
- ⑨ NOT USED
- ⑩ 1-1/2" HOT WATER SUPPLY AND RETURN PIPING UP.
- ⑪ NOT USED
- ⑫ 3/4" HOT WATER SUPPLY AND RETURN PIPING WITH SHUT OFF VALVES FOR FUTURE T.I.
- ⑬ ROUTE PIPING OVER DUCT.



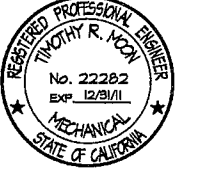
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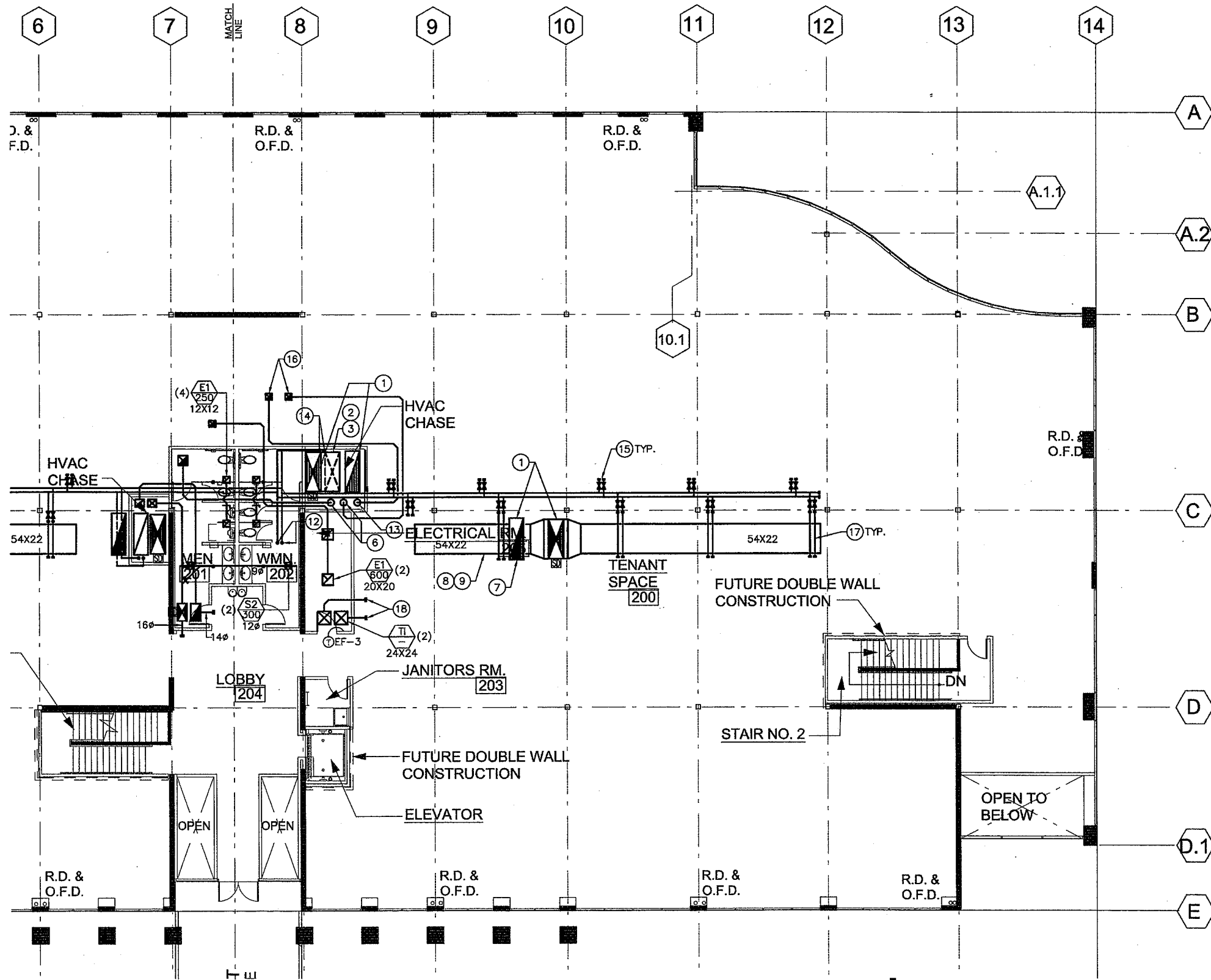



CABRILLO  
BUSINESS PARK  
BUILDING NO. 4  
HOLLISTER AVENUE  
GOLETA, CA.

FIRST FLOOR PLAN - WEST

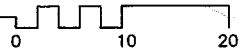
Date: 11-18-01  
Job: ###  
Drawn by: RMA  
Sheet:

M-3



**SECOND FLOOR PLAN - EAST**

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



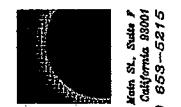
**REFERENCE NOTES**

- ① 26" X 72" LINED SUPPLY AIR AND 24" X 76" LINED RETURN AIR DUCT UP.
- ② TRANSITION TO 22" X 60" LINED SUPPLY AIR DOWN IN SHAFT.
- ③ JOG DUCT INTO SHAFT.
- ④ TRANSITION TO 30" X 76" IN THE SHAFT DOWN.
- ⑤ 18" X 18" EXHAUST AIR DUCT UP.
- ⑥ 16" EXHAUST AIR DUCT DOWN.
- ⑦ STUB RETURN AIR DUCT INTO RETURN AIR PLENUM, TERMINATE WITH GALV. STEEL SCREEN.
- ⑧ ROUTE MAIN SUPPLY AIR DUCT TIGHT TO BEAM.
- ⑨ ROUTE SUPPLY AIR DUCT UNDER RETURN AIR DUCT.
- ⑩ 14" X 16" LINED SUPPLY AND RETURN AIR DUCT DOWN.
- ⑪ NOT USED
- ⑫ 3" HOT WATER SUPPLY AND RETURN PIPING UP THROUGH ROOF. FLASH AND SEAL WEATHERTIGHT.
- ⑬ 12" EXHAUST AIR DUCT DOWN.
- ⑭ 1-1/2" HOT WATER SUPPLY AND RETURN PIPING DOWN.
- ⑮ 3/4" HOT WATER SUPPLY AND RETURN PIPING WITH SHUT OFF VALVES FOR FUTURE T.I.
- ⑯ 12" X 12" EXHAUST AIR DUCT UP.
- ⑰ ROUTE PIPING OVER DUCT.
- ⑱ STUB TRANSFER AIR DUCT INTO PLENUM AND TERMINATE WITH GALV. STEEL SCREEN.



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MOON  
ENGINEERING  
ME Job No. 09015-00

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Revisions

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CABRILLO  
BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

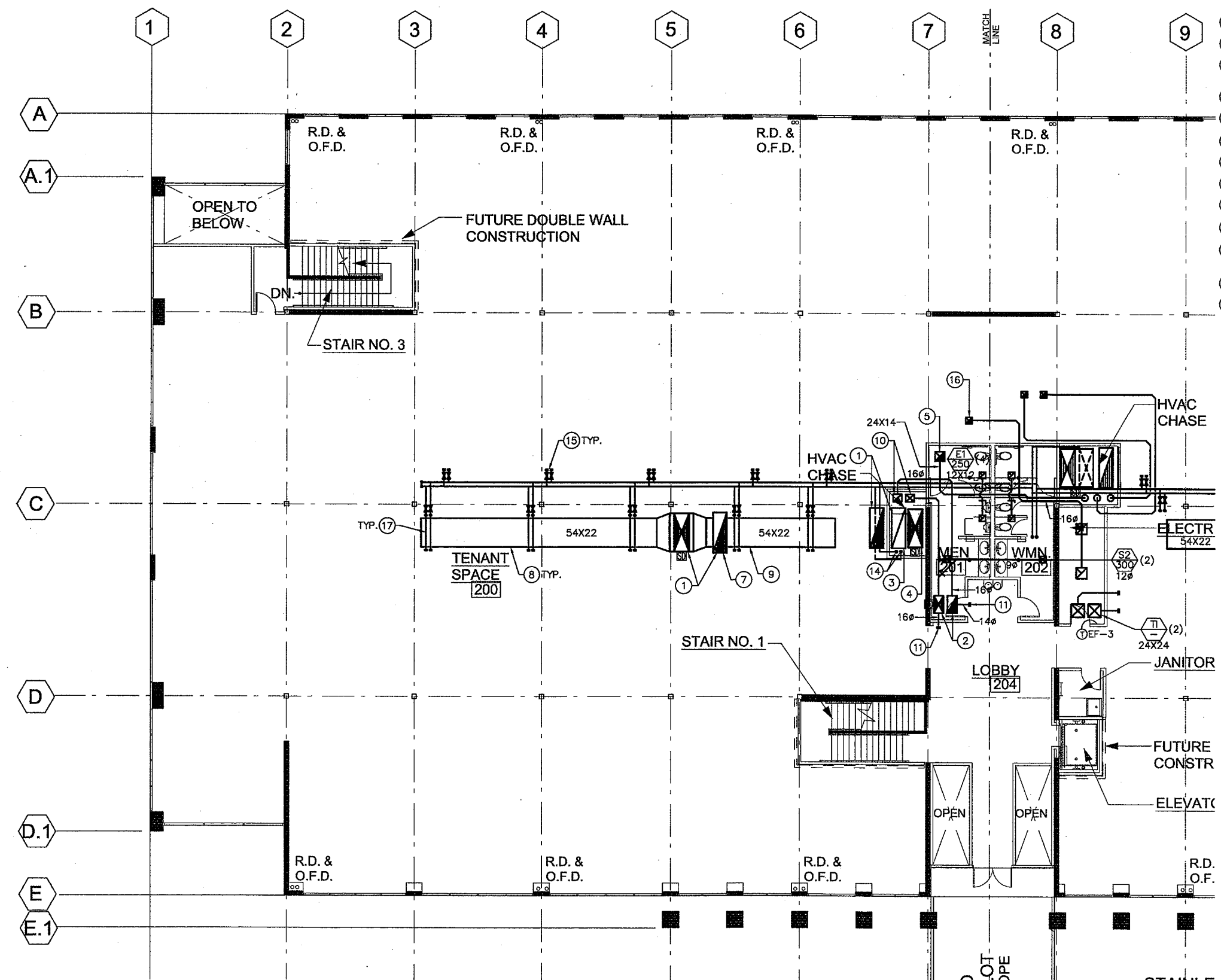
SECOND FLOOR PLAN - EAST

Date: 11-18-09  
Job: ####  
Drawn by: RMA  
Sheet:

M-4

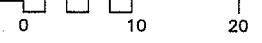
# REFERENCE NOTES

- ① 26" X 72" LINED SUPPLY AIR AND 24" X 76" LINED RETURN AIR DUCT UP.
- ② 18" X 32" LINED SUPPLY AND RETURN AIR DUCT UP.
- ③ JOG DUCT INTO SHAFT.
- ④ TRANSITION TO 22" X 60" LINED SUPPLY AIR DOWN IN SHAFT.
- ⑤ 18" X 18" EXHAUST AIR DUCT UP.
- ⑥ NOT USED
- ⑦ STUB RETURN AIR DUCT INTO RETURN AIR PLENUM, TERMINATE WITH GALV. STEEL SCREEN.
- ⑧ ROUTE MAIN SUPPLY AIR DUCT TIGHT TO BEAM.
- ⑨ ROUTE SUPPLY AIR DUCT UNDER RETURN AIR DUCT.
- ⑩ 14" X 16" LINED SUPPLY AND RETURN AIR DUCT DOWN.
- ⑪ CAP DUCT FOR FUTURE ENTRY T.I.
- ⑫ NOT USED
- ⑬ NOT USED
- ⑭ 1-1/2" HOT WATER SUPPLY AND RETURN PIPING DOWN.
- ⑮ 3/4" HOT WATER SUPPLY AND RETURN PIPING WITH SHUT OFF VALVES FOR FUTURE T.I.
- ⑯ 12" X 12" EXHAUST AIR DUCT UP.
- ⑰ ROUTE PIPING OVER DUCT.

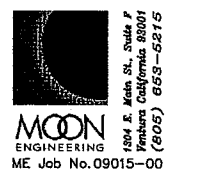


**SECOND FLOOR PLAN - WEST**

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



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CABRILLO  
BUSINESS PARK  
BUILDING NO. 4  
HOLLISTER AVENUE  
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SECOND FLOOR PLAN - WEST

Date:	11-18-09
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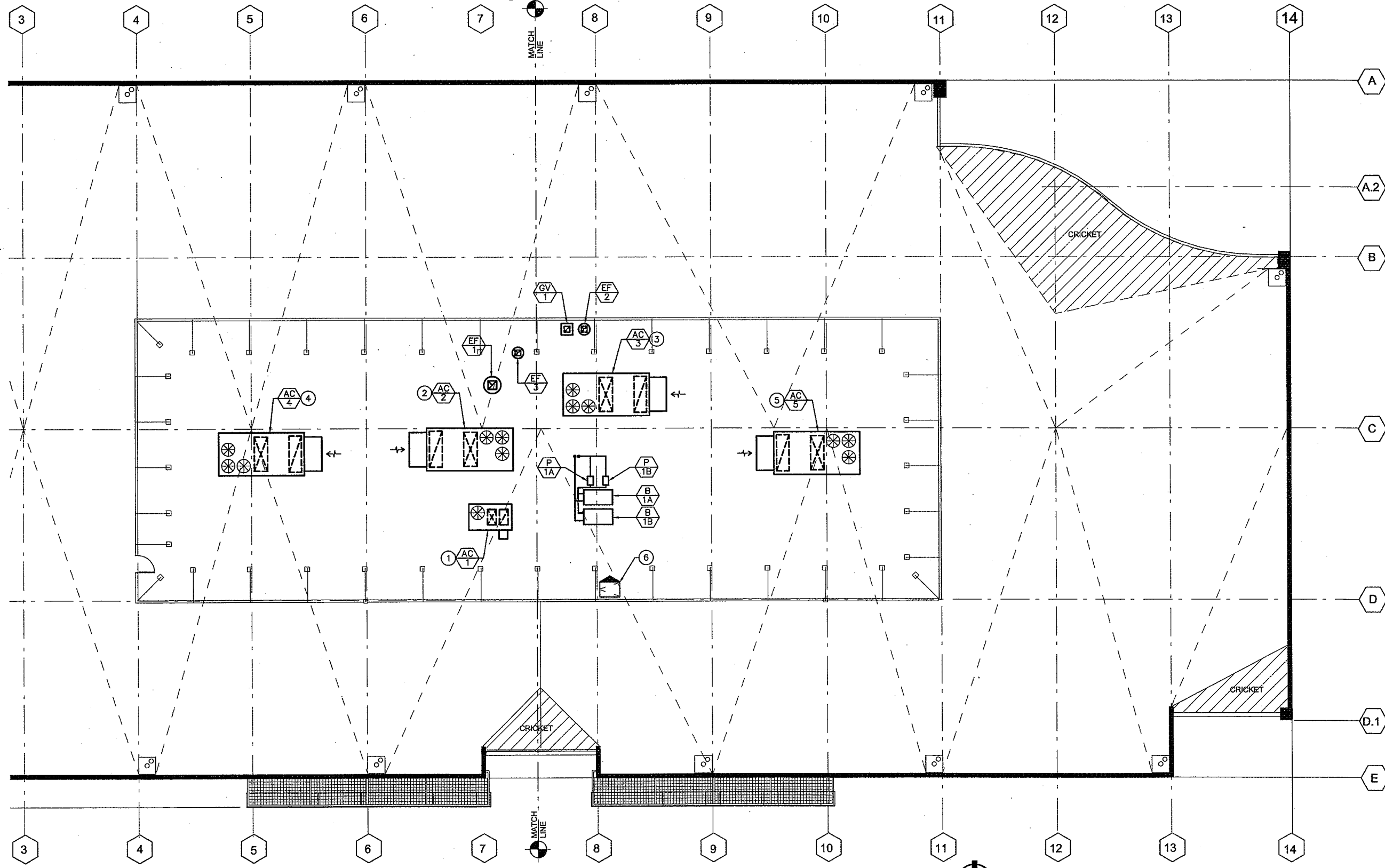
M-5

# GENERAL NOTES

(A) OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10' AWAY FROM FLUES, VENTS AND EXHAUST TERMINATIONS.

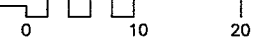
# REFERENCE NOTES

- (1) SET MINIMUM OUTSIDE AIR TO 1050 CFM.
- (2) SET MINIMUM OUTSIDE AIR TO 2100 CFM.
- (3) SET MINIMUM OUTSIDE AIR TO 2100 CFM.
- (4) SET MINIMUM OUTSIDE AIR TO 2050 CFM.
- (5) SET MINIMUM OUTSIDE AIR TO 2050 CFM.
- (6) ROOF ACCESS WITH LADDER, SEE ARCH. DWGS.



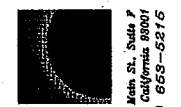
**PARTIAL ROOF PLAN**

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



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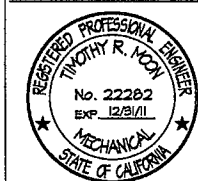


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BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

PARTIAL ROOF PLAN

Date: 11-18-09

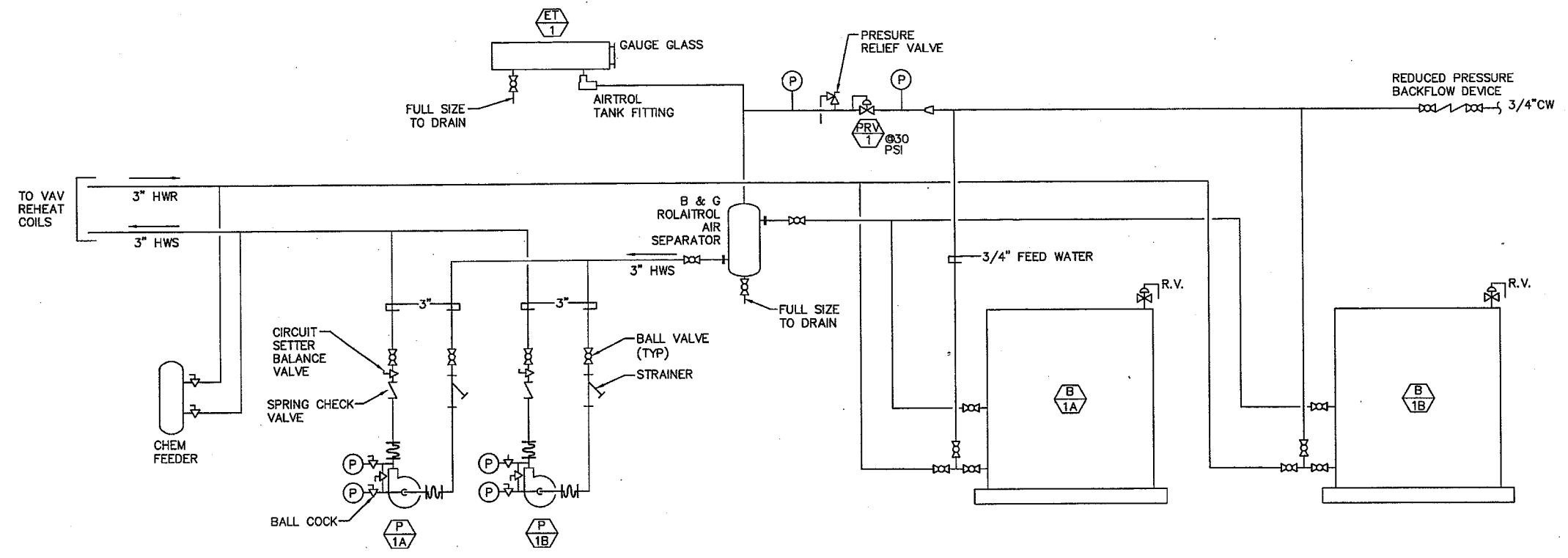
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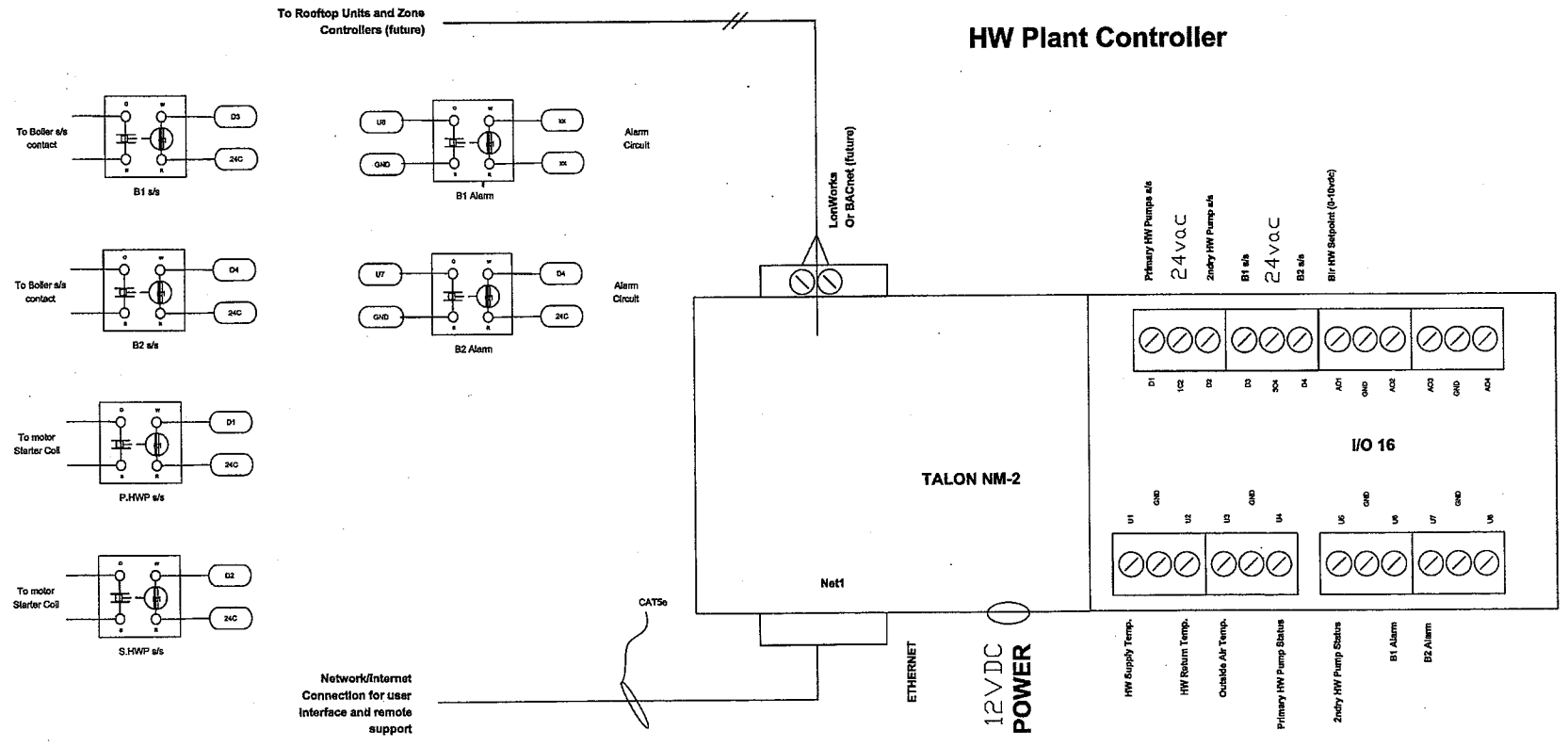
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**HOT WATER PIPING SCHEMATIC**  
NOT TO SCALE



**CONTROL SCHEMATIC**

TAG	QTY	PART #	DESCRIPTION
NM2	1	588-702	SIEMENS-TALON NM2 CONTROLLER w/WEB_UI
I/O 16	1	588-672	SIEMENS-TALON 34 I/O MODULE (10 BO/BAO/14UI)
	1	588-675	Power Adapter
	1	588-654	LonWorks Communications module
	1	588-829	LonWorks Communications driver
	1	588-951	Embedded Workbench Software
	2	ACI10K-AN-BP	10k type3 well sensor
	1	ACI10K-AN-O	10k type3 outside air sensor
	1		22 x 16 Nema 3R Enclosure w/hinged door
	6	PAM-1	low voltage control relay

CONTROL SYSTEM FOR CENTRAL PLANT PER DRAWINGS ON M5.  
CONTACT TOM BREEN AT BAS, (805) 693-8123.

CABRILLO  
BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

PIPING AND CONTROLS  
SCHEMATICS

Date: 11-18-09  
Job: ###  
Drawn by: RMA  
Sheet:

M-7

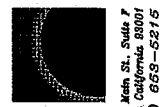


TITLE 24 ENERGY COMPLIANCE DOCUMENTATION



Design Planning Engineering

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CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVENUE GOLETA, CA

TITLE 24 ENERGY FORMS

Date: 11-18-09

Job: ###

Drawn by: RMA

Sheet: M-8

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 1 of 3 PERF-1. PROJECT NAME: CABRILLO BUSINESS PARK B-4. DATE: 11/5/2009. Includes sections for General Information, Statement of Compliance, Envelope Compliance, Lighting Compliance, and Mechanical Compliance.

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 2 of 3 PERF-2. ANNUAL TDV ENERGY USE SUMMARY (kBtu/ft<sup>2</sup>-yr). Includes tables for Energy Component, Building Complies, and Lighting Power Density.

PERFORMANCE CERTIFICATE OF COMPLIANCE Part 3 of 3 PERF-3. ZONE INFORMATION table listing System Name, Zone Name, Occupancy Type, and other details. Includes an Exceptional Conditions Compliance Checklist.

CERTIFICATE OF COMPLIANCE ENV-1-C. FENESTRATION SURFACES table with columns for Surface Type, Area, U-Fac, Insulation, etc. Includes Exterior Shading and Minimum Skylight Area sections.

CERTIFICATE OF COMPLIANCE ENV-1-C. OPAQUE SURFACES table with columns for Surface Type, Area, U-Fac, Insulation, etc. Includes Exterior Shading and Minimum Skylight Area sections.

CERTIFICATE OF COMPLIANCE ENV-1-C. OPAQUE SURFACES table with columns for Surface Type, Area, U-Fac, Insulation, etc. Includes Exterior Shading and Minimum Skylight Area sections.

CERTIFICATE OF COMPLIANCE ENV-1-C. OPAQUE SURFACES table with columns for Surface Type, Area, U-Fac, Insulation, etc. Includes Exterior Shading and Minimum Skylight Area sections.

CERTIFICATE OF COMPLIANCE MECH-1-C. Includes sections for Building Departments, System Acceptance, and Mechanical Compliance with various checkboxes for system requirements.



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Revisions

Revision symbols and lines



CABRILLO BUSINESS PARK BUILDING NO. 4  
HOLLISTER AVENUE  
GOLETA, CA

TITLE 24 ENERGY FORMS  
Date: 11-18-09  
Job: #####  
Drawn by: RMA  
Sheet: M-9

AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
SYSTEM FEATURES: AIR SYSTEMS, Central or Single Zone  
MANDATORY MEASURES: Heating Equipment Efficiency, Cooling Equipment Efficiency, Heat Pump Thermostat, Furnace Controls, Natural Ventilation, Minimum Ventilation, VAV Minimum Position Control, Demand Control Ventilation, Time Control, Setback and Setup Control, Outdoor Damper Control, Isolation Zones, Pipe Insulation, Duct Insulation  
PRESCRIPTIVE MEASURES: Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, Proposed Sensible Cooling Capacity, Fan Control, DP Sensor Location, Supply Pressure Reset, Simultaneous Heat/Cool, Economizer, Heating Air Supply Reset, Cooling Air Supply Reset, Duct Sealing for Prescriptive Compliance

AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
SYSTEM FEATURES: AIR SYSTEMS, Central or Single Zone  
MANDATORY MEASURES: Heating Equipment Efficiency, Cooling Equipment Efficiency, Heat Pump Thermostat, Furnace Controls, Natural Ventilation, Minimum Ventilation, VAV Minimum Position Control, Demand Control Ventilation, Time Control, Setback and Setup Control, Outdoor Damper Control, Isolation Zones, Pipe Insulation, Duct Insulation  
PRESCRIPTIVE MEASURES: Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, Proposed Sensible Cooling Capacity, Fan Control, DP Sensor Location, Supply Pressure Reset, Simultaneous Heat/Cool, Economizer, Heating Air Supply Reset, Cooling Air Supply Reset, Duct Sealing for Prescriptive Compliance

WATER SIDE SYSTEM REQUIREMENTS Part 2 of 2 MECH-2-C  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
SYSTEM FEATURES: WATER SIDE SYSTEMS: Chilliers, Towers, Boilers, Hydronic Loops  
MANDATORY MEASURES: Equipment Efficiency, Pipe Insulation  
PRESCRIPTIVE MEASURES: Calculated Capacity, Proposed Capacity, Tower Fan Controls, Tower Flow Controls, Variable Flow System Design, Chiller and Boiler Isolation, CHW and HRW Reset Control, WLP Isolation Valves, VSD on CHW, CW & WLP Pumps, DP Sensor Location  
ITEM OR SYSTEM TAG(S): DHW Heater  
MANDATORY MEASURES: Water Heater Certification, Water Heater Efficiency, Service Water Heating Installation, Pool and Spa Efficiency and Control, Pool and Spa Installation, Pool Heater - No Pilot Light, Spa Heater - No Pilot Light

MECHANICAL VENTILATION MECH-3-C  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
MECHANICAL VENTILATION (Section 121(h)(2))  
Table with columns: ZONE/SYSTEM, AREA BASIS, OCCUPANCY BASIS, PRESCRIPTIVE REHEAT LIMITATION (Section 144(g)), VAV MINIMUM  
ZONES: WEST OFFICE WEST, EAST OFFICE EAST, WEST SECOND FLOOR, EAST SECOND FLOOR, CORE, ENTRY/BATHROOMS, 1ST/2ND FLOOR CORE

MECHANICAL EQUIPMENT DETAILS Part 1 of 2 MECH-5-C  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
CHILLER AND TOWER SUMMARY  
Table with columns: Equipment Name, Equipment Type, Qty, Efficiency, Tons, Vol. Qty, GPM, BHP, Motor Eff., Pump Control  
RHV/BOILER SUMMARY  
Table with columns: System Name, System Type, Distribution Type, Qty, Rated Input, Vol. Status, Condition, Energy Factor or RE, Standby Loss of Pilot, ZANK INSHUL Ext. R-Val.  
MULTI-FAMILY CENTRAL WATER HEATING DETAILS  
Table with columns: Control, #, HP, Type, In Plenum, Outside, Buried, Add 1/2" INSULATION  
CENTRAL SYSTEM RATINGS  
Table with columns: System Name, System Type, Qty, Output, Eff., Condition Status, Economizer Type  
CENTRAL SYSTEM FAN SUMMARY  
Table with columns: System Name, Fan Type, Motor Location, CFM, BHP, Motor Eff., CFM, BHP, Motor Eff., CFM

ENVELOPE MANDATORY MEASURES ENV-MM  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
DESCRIPTION  
List of items 116(a) through 116(e) regarding insulation, exterior joints, doors, windows, and demisting walls.

MECHANICAL MANDATORY MEASURES Part 1 of 2 MECH-MM  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
DESCRIPTION  
List of items 111 through 122(a) regarding equipment and systems efficiencies, controls, and occupancy sensors.

MECHANICAL MANDATORY MEASURES Part 2 of 2 MECH-MM  
PROJECT NAME: CABRILLO BUSINESS PARK B-4 DATE: 11/5/2009  
DESCRIPTION  
List of items 121(a) through 121(f) regarding ventilation, air balancing, and service water heating systems.

**PLUMBING SPECIFICATION**

OBTAIN AND PAY FOR ALL PERMITS, FEES, CONNECTION CHARGES, AND TEMPORARY SERVICE CHARGES REQUIRED FOR EXECUTION OF WORK.

MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.

COORDINATE FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED CLEARANCES.

PAY COST OF DESIGN AND INSTALLATION FOR CHANGES RESULTING FROM SUBSTITUTION OF ALTERNATE PRODUCTS. ACCEPTANCE OF ALTERNATE PRODUCTS BY THE ARCHITECT DOES NOT CHANGE THIS REQUIREMENT. NO PRODUCT WILL BE ACCEPTED ON JOB SITE WITHOUT PRIOR APPROVAL.

DRAWINGS SHOW PIPE DIAGRAMMATICALLY.

ADHERE TO DRAWINGS AS CLOSELY AS POSSIBLE IN LAYING OUT WORK.

VARY RUN OF PIPING, AND MAKE OFFSETS DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS APPROVED BY ARCHITECT.

EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.

ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, WINDOWS, AND OPENINGS INTO THE BUILDING. TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.

INSTALL ALL HOT WATER PIPING WITH 1 INCH THICK FIBERGLASS INSULATION WITH FACTORY JACKET AND "ZESTON" FITTINGS.

ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.

INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

PIPING SHALL NOT PASS THROUGH FOOTINGS. ALL PIPES SHALL BE RUN ABOVE FOOTING, UNLESS OTHERWISE SHOWN ON PLANS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.

ALL WATER PIPING BELOW GRADE THAT IS UNDER PRESSURE SHALL HAVE A MINIMUM COVER OF 30".

EXTEND ALL CONDENSATE AND INDIRECT DRAIN LINES FROM EQUIPMENT TO FLOOR SINKS OR OTHER APPROVED FIXTURES.

TERMINATE ALL WATER AND GAS ROUGH-INS WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND FIXTURES.

CUTTING, WHEN REQUIRED, SHALL BE SUBJECT TO APPROVAL BY ARCHITECT.

BIND SUBMITTAL IN BOOKLET FORM. SUBMIT SHOP DRAWINGS, BROCHURES AS FOLLOWS:

- A. PIPE FITTINGS AND INSULATION.
- B. FIXTURES AND EQUIPMENT.
- C. VALVES.

SEAL PIPES PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE STOP MATERIAL.

PIPE AND FITTINGS SHALL BE AS FOLLOWS:

SERVICE	SIZE	SPECIFICATIONS
GAS	ALL	SCHEDULE 40 BLACK SEAMLESS STEEL, ASTM A106 OR A53, GRADE A OR B. FITTINGS: 150 LB. BLACK MALLEABLE IRON, SCREWED, ASTM A338.
VENT	2-1/2"	SCHEDULE 40 GALVANIZED BUTT WELD STEEL, ASTM A120. FITTINGS: 150 LB. GALVANIZED SCREWED.
CW, HW	ALL	COPPER TUBING TYPE L ASTM B88. FITTINGS: CAST BRONZE OR WROUGHT COPPER SOLDER.
WASTE, RWL	ALL	HUBLESS CAST IRON SERVICE WEIGHT PIPE AND FITTINGS WITH NEOPRENE COUPLINGS AND CORRUGATED STAINLESS STEEL BANDS.

HANGERS AND SUPPORTS SHALL BE DESIGNED TO SUPPORT WEIGHT OF PIPE, WEIGHT OF FLUID, AND WEIGHT OF PIPE INSULATION.

PROVIDE EACH HANGER OR CLAMP WITH AN ISOLATION MATERIAL, HAVING A METAL BACKING, TO ISOLATE SOUND VIBRATION AND ELECTROLYSIS. ISOLATOR NOT REQUIRED FOR SOIL, WASTE, VENT OR FUEL GAS PIPING.

INSULATED PIPING SHALL HAVE A SADDLE INSTALLED AT EACH HANGER OR SUPPORT. SIZE SADDLES FOR PIPE DIAMETER AND FOR INSULATION THICKNESS.

BURIED CAST IRON PIPE SHALL BE COATED WITH ASPHALTUM VARNISH OR SIMILAR COATING STANDARD OF PIPE MANUFACTURER.

BURIED BLACK STEEL PIPE SHALL BE FACTORY WRAPPED WITH PROTECTIVE CHLORIDE OR POLYETHYLENE TAPE. SIMILAR TO "SCOTCHWRAP NO. 51".

FURNISH ALL MATERIALS AND COORDINATE INSTALLATION OF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS FOR VENTS, PIPES, AND FLUES.

PURGE ALL WATER AND GAS LINES BEFORE FINAL INSPECTION.

TEST ALL WATER SYSTEMS AT HYDROSTATIC PRESSURE OF NOT LESS THAN 150 PSIG, WITH 5 PSIG PERMISSIBLE DROP AT END OF FOUR HOURS.

FILL ENTIRE WASTE AND VENT SYSTEM WITH WATER TO LEVEL OF HIGHEST VENT STACK. SYSTEM SHALL HOLD WATER FOR TWO HOURS.

TEST RAINWATER SYSTEMS IN SAME MANNER AS WASTE AND VENT SYSTEM. TEST FUEL GAS PIPING WITH AIR AT A PRESSURE OF NOT LESS THAN 10 PSIG FOR A MINIMUM OF 15 MINUTES WITH NO PERCEPTIBLE DROP IN PRESSURE.

UPON COMPLETION OF WORK, ALL CHANGES SHALL BE NOTED ON A NEW SET OF PRINTS AND DELIVERED TO THE ARCHITECT.

TESTS MUST BE PERFORMED AND SYSTEMS APPROVED PRIOR TO PAINTING, COVERING, INSULATING, FURRING, OR CONCEALING PIPING.

**PLUMBING FIXTURE SCHEDULE**

- WC 1** WATER CLOSET (ADA COMPLIANT), "AMERICAN STANDARD" MODEL CADET 3043.102, VITREOUS CHINA, FLOOR MOUNTED, 1.6 GALLON FLUSH, ELONGATED BOWL, 17" RIM HEIGHT, "SLOAN ROYAL" #8111 BATTER POWERED FLUSH VALVE, "OLSONITE" #95 OPEN FRONT SEAT (WHITE).
- WC 2** WATER CLOSET, "AMERICAN STANDARD" MODEL MADERA 2234.015, VITREOUS CHINA, FLOOR MOUNTED, 1.6 GALLON FLUSH, ELONGATED BOWL, 14" RIM HEIGHT, "SLOAN ROYAL" #8111 BATTER POWERED FLUSH VALVE, "OLSONITE" #95 OPEN FRONT SEAT (WHITE).
- UR 1** URINAL (ADA COMPLIANT), "AMERICAN STANDARD" MODEL WASHBROOK 6501.010, VITREOUS CHINA, WALL MOUNTED WITH WALL CARRIER, 1.0 GALLON FLUSH VALVE, 15" RIM HEIGHT, "SLOAN" ROYAL #8186-1 BATTER POWERED FLUSH VALVE.
- L 1** LAVATORY (ADA COMPLIANT), "AMERICAN STANDARD" MODEL OVALYN II, 0497.221, VITREOUS CHINA, UNDER COUNTER MOUNT, "SLOAN" MODEL EBF-85, BATTERY POWERED BARRIER-FREE FAUCET WITH THERMOSTATICALLY CONTROLLED MIXING VALVE, SUPPLY WITH CHROME PLATED GRID DRAIN, CHROME PLATED P-TRAP, BRASS SUPPLY STOPS, AND "BROCAR PRODUCTS, INC." TRAP WRAP KIT C500R.
- SS 1** MOP SINK, "FAIT" MODEL MSB-2424, 24X24 MOLDED-STONE MOP SINK, COMPLETE WITH P-TRAP AND STAINLESS STEEL GRID DRAIN. "AMERICAN STANDARD" MODEL 8340.243, FAUCET WITH PAIL HOOK, VACUUM BREAKER, 8" CENTERS.
- SH 1** SHOWER(ADA COMPLIANT), "SYMMONS" MODEL 96-500-B30-L-V, PRESSURE-BALANCE MIXING VALVE WITH SINGLE BLADE LEVER HANDLE AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, DIVERTER WITH INTEGRAL VOLUME CONTROL, SHOWER HEAD WITH ARM AND FLANGE, WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING.
- SD 1** SHOWER DRAIN, "JR SMITH" MODEL 2005, ROUND TO, SIZE 2".
- DF 1** ELECTRIC DRINKING FOUNTAIN, "HAWS" MODEL HWBFABL.VRC, DUAL HEIGHT STAINLESS STEEL ELECTRIC WATER COOLER DRINKING FOUNTAIN, POLISHED CHROME BUBBLER, MEETING ADA REQUIREMENTS. INSTALL WITH P-TRAP FOR EACH FOUNTAIN. 120 VOLT, 1 PHASE.
- FD 1** FLOOR DRAIN, "JR SMITH" MODEL 2005, ROUND TOP WITH P-TRAP AND TRAP PRIMER FITTING, SIZE 2".
- HB 1** HOSE BIBB, "ACORN" MODEL 8151, SINGLE TEMP HOSE BIBB WITH VACUUM BREAKER IN STAINLESS STEEL VALVE BOX WITH DOOR.
- RD 1** ROOF DRAIN, "JR SMITH" MODEL 1010, SEE ROOF PLAN FOR SIZE.
- OD 1** OVERFLOW ROOF DRAIN, "JR SMITH" MODEL 1080, SEE ROOF PLAN FOR SIZE.

**LEGEND**

SYMBOL	ABREV	DESCRIPTION
—————	D	CONDENSATE DRAIN PIPE
— G —	G	GAS PIPE
— · — · —	CW	COLD WATER PIPE
—————	HW	HOT WATER PIPE
—————	W	SANITARY SOIL OR WASTE PIPE
—————	(E)W	(E)SANITARY SOIL OR WASTE PIPE
- - - - -	V	VENT PIPE
⊕	FCO	FLOOR CLEAN OUT
⊕	WCO	WALL CLEAN OUT
⊕		POINT OF CONNECTION
⊕	SOV	SHUT OFF VALVE

**PLUMBING EQUIPMENT SCHEDULE**

- WH 1** WATER HEATER, "QUIETSIDER" MODEL QVM9-150W1-NG, TANKLESS INSTANTANEOUS WATER HEATER, 3.4 GPM AT 70F TEMP RISE, 135 MBH NATURAL GAS INPUT. OP WT = 60 LBS. ROUTE FLUE THRU EXTERIOR WALL WITH "QUIETSIDER" THROUGH WALL VENT TERMINATOR (3"PVC INTAKE AND FLUE VENT). INSTALL PER MFR'S REQUIREMENTS.
- SV 1** SEISMIC SHUTOFF VALVE, "STRAND" MODEL 315, SIZE 3", CA-DSA#45R-113R, 7 PSI MAX. PRESS.
- TRAP PRIMER, "PPP INC." MODEL PR-500 WITH DISTRIBUTION UNIT AS REQUIRED FOR QUANTITY OF TRAPS SERVED. LOCATE BEHIND ACCESS DOOR IN WALL ADJACENT TO FLOOR DRAIN.
- WATER HAMMER ARRESTOR, "PPP INC." SC SERIES, LOCATE AT END OF MAIN LINE SERVING TOILET ROOMS, FULL SIZE OF LINE SERVING TOILET ROOMS.

**MINIMUM CONNECTION SIZES**

FIXTURE	S/W	VENT	DRAIN	COLD WATER	HOT WATER
WATER CLOSET (FLUSH VALVE)	4"	2"	-	1-1/2"	-
URINAL	2"	1-1/2"	-	1"	-
LAVATORY	2"	1-1/2"	-	1/2"	1/2"
SHOWER	2"	1-1/2"	-	1/2"	1/2"
MOP SINK	3"	2"	-	3/4"	3/4"
DRINKING FTN	2"	1-1/2"	-	1/2"	-

**GENERAL NOTES**

1. COORDINATE PIPING SYSTEMS WITH CIVIL PLANS. PAY ALL FEE REQUIRED FOR CONNECTION TO UTILITIES. COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES.
2. DISINFECT POTABLE WATER PIPING IN ACCORDANCE WITH SECTION 609.9 OF CPC, 2001 EDITION.



Design Planning Engineering

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ME Job No. 09015-00

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Revisions

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CABRILLO BUSINESS PARK BUILDING NO. 4

HOLLISTER AVENUE GOLETA, CA.

LEGEND, SCHEDULES, AND NOTES

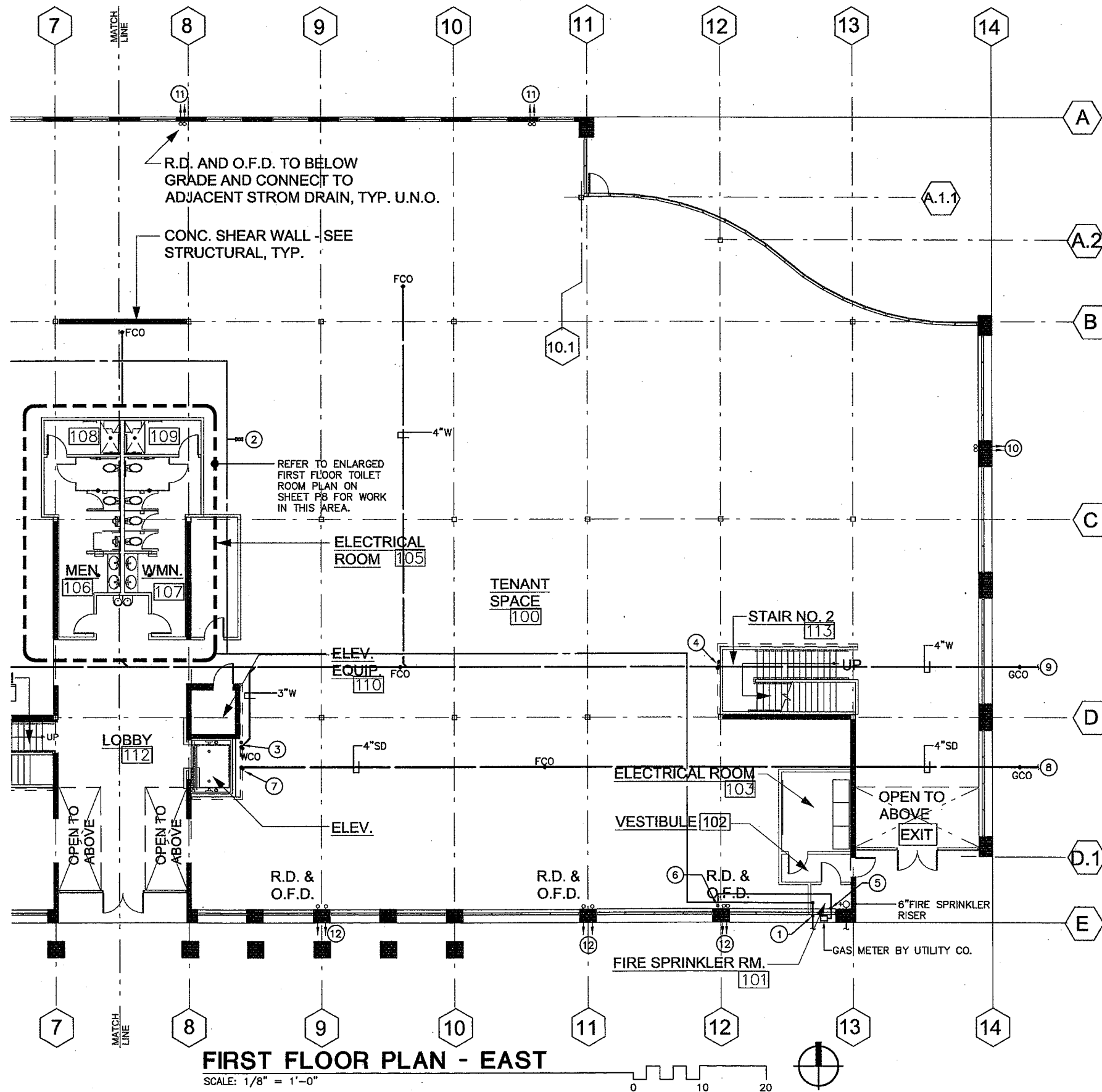
Date: 11-18-09  
Job: ####  
Drawn by: RMA  
Sheet:

### GENERAL NOTES

- (A) REFER TO WASTE & VENT PIPING RISER DIAGRAM ON SHEET P-5 FOR PIPE SIZES.
- (B) REFER TO GAS PIPING RISER DIAGRAM ON SHEET P-6 FOR PIPE SIZES.
- (C) INSTALL INDIVIDUAL SOV FOR EACH TOILET RM ABOVE CEILING BEHIND LOCKABLE ACCESS DOOR.

### REFERENCE NOTES

- (1) 2-1/2" CW RISER WITH SOV AND PRESSURE REGULATOR SET AT 80 PSI MAX.
- (2) 3/4" CW STUBOUT WITH SOV FOR FUTURE.
- (3) 3"W UP TO 2ND FLOOR PLBG FIXTURE.
- (4) STUB-OUT 3"W & 2"V BELOW 2ND FLOOR AND ABOVE 1ST FLOOR CEILING FOR FUTURE 2ND FLOOR PLBG FIXTURES.
- (5) GAS PIPE UP TO 1ST FLOOR CEILING. OFF SET WITH RISER TO 2ND FLOOR.
- (6) GAS PIPE UP TO 2ND FLOOR.
- (7) REFER TO ARCH PLANS FOR FRENCH DRAIN AROUND ELEVATOR.
- (8) 4" PVC FRENCH DRAIN BELOW GRADE. REFER TO CIVIL PLANS FOR EXTENSION TO STORM DRAIN SYSTEM
- (9) 4" BLDG SEWER BELOW GRADE. REFER TO CIVIL PLANS FOR CONTINUATION.
- (10) 3" ROOF DRAIN RAIN WATER LEADER (RWL) BELOW GRADE TO STORM DRAIN. DISCHARGE 3" OVER FLOW ROOF DRAIN RWL 1" BEYOND EXTERIOR WALL, 6" ABV. GRADE.
- (11) 4" ROOF DRAIN RAIN WATER LEADER (RWL) BELOW GRADE TO STORM DRAIN. DISCHARGE 4" OVER FLOW ROOF DRAIN RWL 1" BEYOND EXTERIOR WALL, 6" ABV. GRADE.
- (12) 4" ROOF DRAIN RAIN WATER LEADER (RWL) BELOW GRADE TO CURB FACE. DISCHARGE 4" OVER FLOW ROOF DRAIN RWL 1" BEYOND EXTERIOR WALL, 6" ABV. GRADE.



**FIRST FLOOR PLAN - EAST**

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



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CABRILLO BUSINESS PARK BUILDING NO. 4  
HOLLISTER AVENUE  
GOLETA, CA.

FIRST FLOOR PLAN - EAST

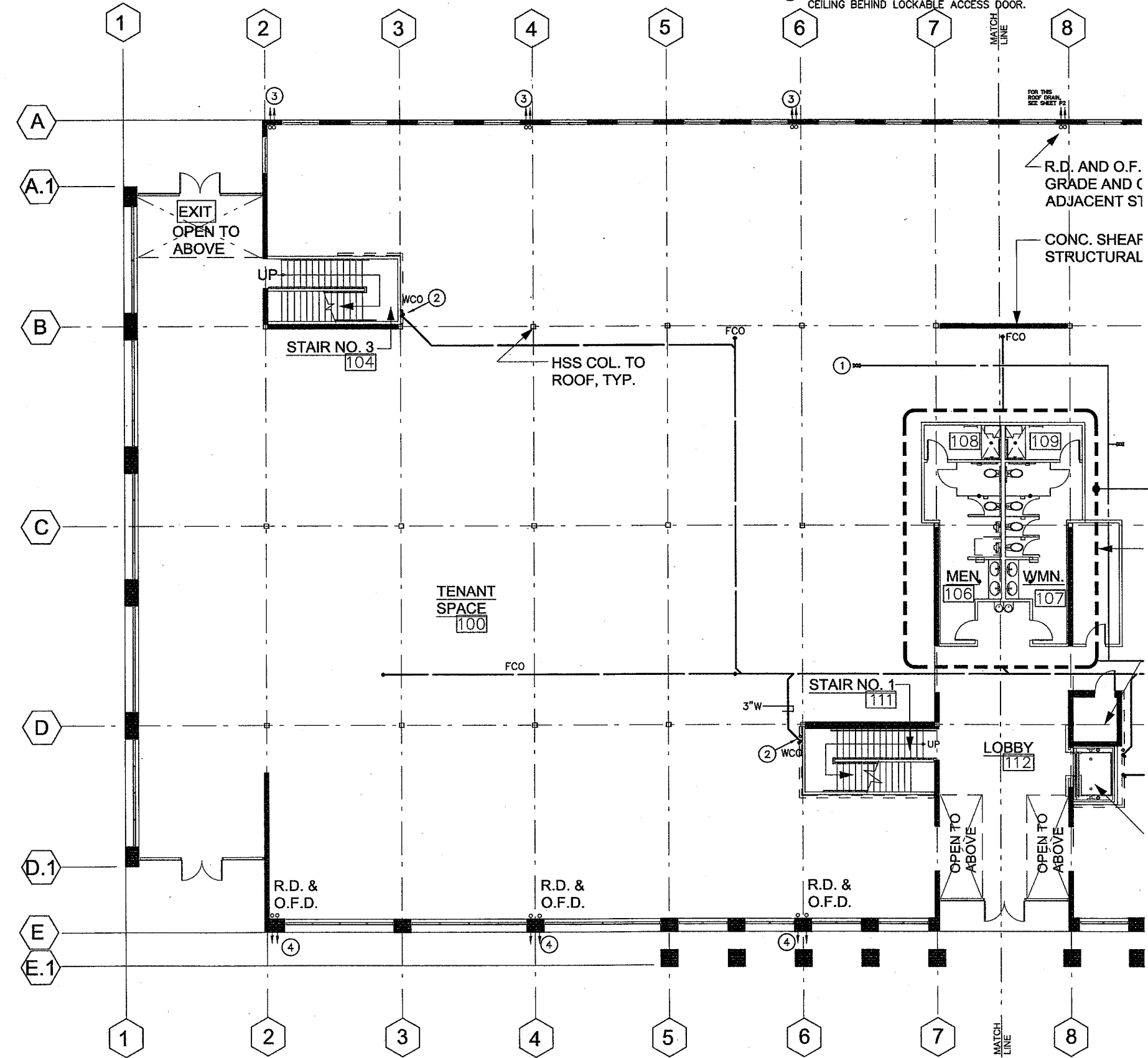
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Job:	####
Drawn by:	RMA
Sheet:	

**GENERAL NOTES**

- (A) REFER TO WASTE & VENT PIPING RISER DIAGRAM ON SHEET P-5 FOR PIPE SIZES.
- (B) REFER TO GAS PIPING RISER DIAGRAM ON SHEET P-6 FOR PIPE SIZES.
- (C) INSTALL INDIVIDUAL SOV FOR EACH TOILET RM ABOVE CEILING BEHIND LOCKABLE ACCESS DOOR.

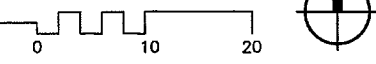
**REFERENCE NOTES**

- ① 3/4" CW STUBOUT WITH SOV FOR FUTURE.
- ② STUB-OUT 3"W & 2"V BELOW 2ND FLOOR AND ABOVE 1ST FLOOR CEILING FOR FUTURE 2ND FLOOR PLBG FIXTURES.
- ③ 4" ROOF DRAIN RAIN WATER LEADER (RWL) BELOW GRADE TO STORM DRAIN. DISCHARGE 4" OVER FLOW ROOF DRAIN RWL 1" BEYOND EXTERIOR WALL, 6" ABV. GRADE.
- ④ 4" ROOF DRAIN RAIN WATER LEADER (RWL) BELOW GRADE TO CURB FACE. DISCHARGE 4" OVER FLOW ROOF DRAIN RWL 1" BEYOND EXTERIOR WALL, 6" ABV. GRADE.



**FIRST FLOOR PLAN - WEST**

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



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CABRILLO  
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BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

FIRST FLOOR PLAN - WEST

Date: 11-18-09

Job: ####

Drawn by: RMA

Sheet:

P-3

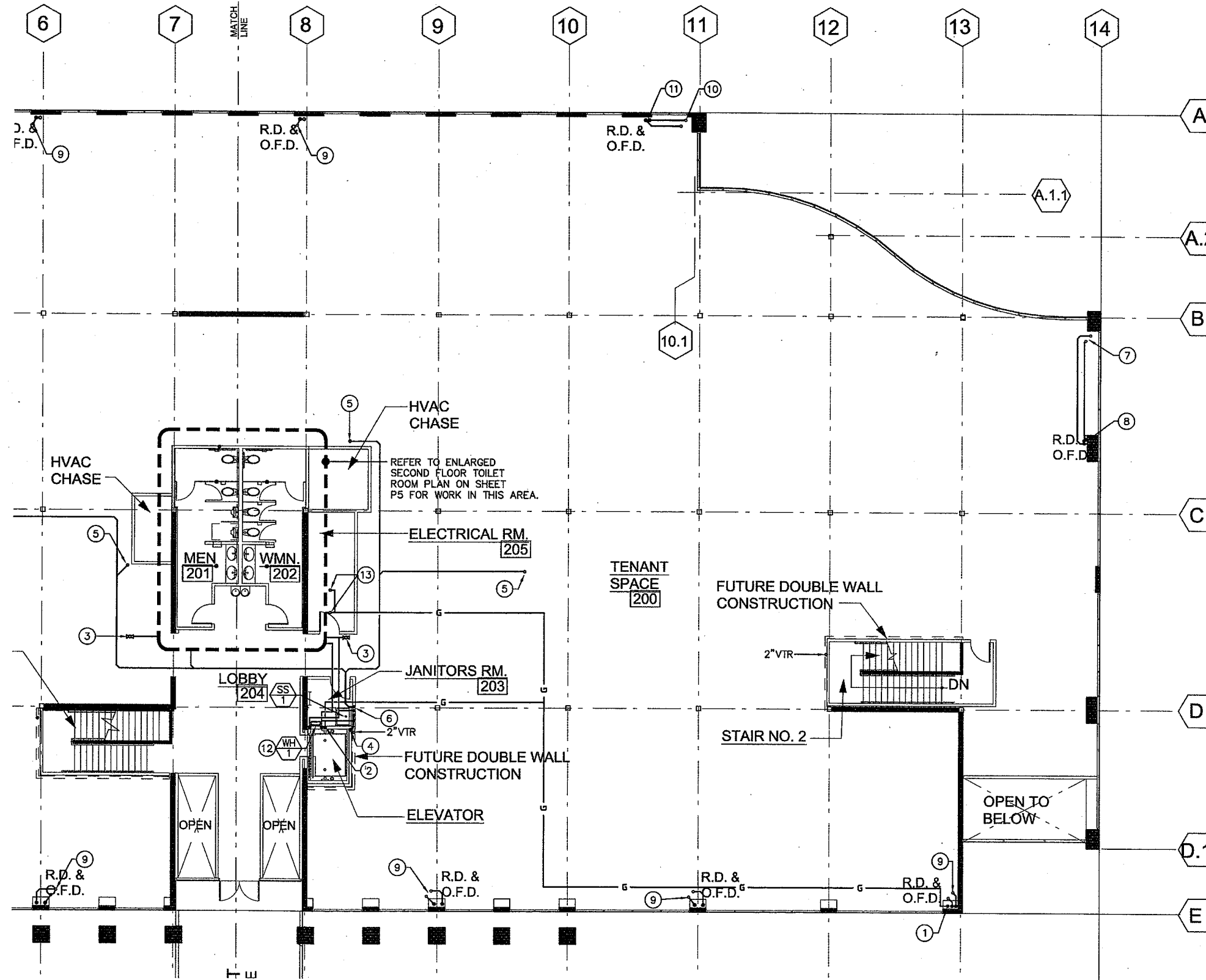


# GENERAL NOTES

- (A) REFER TO MINIMUM CONNECTION SIZE TABLE ON SHEET P-1 FOR INDIVIDUAL FIXTURE PIPE SIZES.
- (B) REFER TO WASTE & VENT PIPING RISER DIAGRAM ON SHEET P-5 FOR PIPE SIZES.
- (C) REFER TO GAS PIPING RISER DIAGRAM ON SHEET P-6 FOR PIPE SIZES.
- (D) INSTALL INDIVIDUAL SOV FOR EACH TOILET RM ABOVE CEILING BEHIND LOCKABLE ACCESS DOOR.

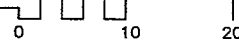
# REFERENCE NOTES

- (1) GAS PIPE UP FROM 1ST FLOOR TO ROOF STRUCTURE. SUSPEND FROM ROOF STRUCTURE IN ROUTE TO GAS APPLIANCES.
- (2) GAS PIPE DOWN IN WALL TO WATER HEATER. CONNECT TO WH WITH FLEXIBLE PIPE CONNECTOR AND SOV.
- (3) 3/4" CW STUB-OUT FOR FUTURE.
- (4) 3" W DOWN TO 1ST FLOOR.
- (5) 1-1/2" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT.
- (6) 1-1/2" COPPER COMBINED CONDENSATE DRAIN DOWN IN WALL TO MOP SINK.
- (7) 3" RAIN WATER LEADER (RWL) UP THRU ROOF TO ROOF DRAIN AND OVERFLOW ROOF DRAIN. OFFSET RWL'S AT 1/4" PER FOOT SLOPE AND SUPPORT FROM ROOF STRUCTURE IN ROUTE TO DROPS SHOWN.
- (8) 3" RWL'S DOWN TO 1ST FLOOR.
- (9) 4" RWL'S UP THRU ROOF TO ROOF DRAIN AND OVERFLOW ROOF DRAIN. OFFSET RWL'S AND DROP TO 1ST FLOOR.
- (10) 4" RWL'S UP THRU ROOF TO ROOF DRAIN AND OVERFLOW ROOF DRAIN. OFFSET RWL'S AT 1/4" PER FOOT SLOPE AND SUPPORT FROM ROOF STRUCTURE IN ROUTE TO DROPS SHOWN.
- (11) 4" RWL'S DOWN TO 1ST FLOOR.
- (12) INSTALL TANKLESS WATER HEATER WITH CARTRIDGE WATER FILTER IN CW SUPPLY UP STREAM OF WH. INSTALL WITH PRESSURE RELIEF VALVE AND 3/4" COPPER DRAIN TO MOP SINK. ROUTE PVC FLUE VENT AND COMBUSTION AIR INTAKE UP THRU ROOF WITH CONCENTRIC FITTING PER MFR'S REQUIREMENTS. ROUTE 1" H&CW PIPING TO WH.
- (13) GAS PIPE UP THRU ROOF TO SPACE HTG BOILER.



**SECOND FLOOR PLAN - EAST**

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



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CABRILLO  
BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

SECOND FLOOR PLAN - EAST

Date:	11-18-09
Job:	####
Drawn by:	RMA
Sheet:	

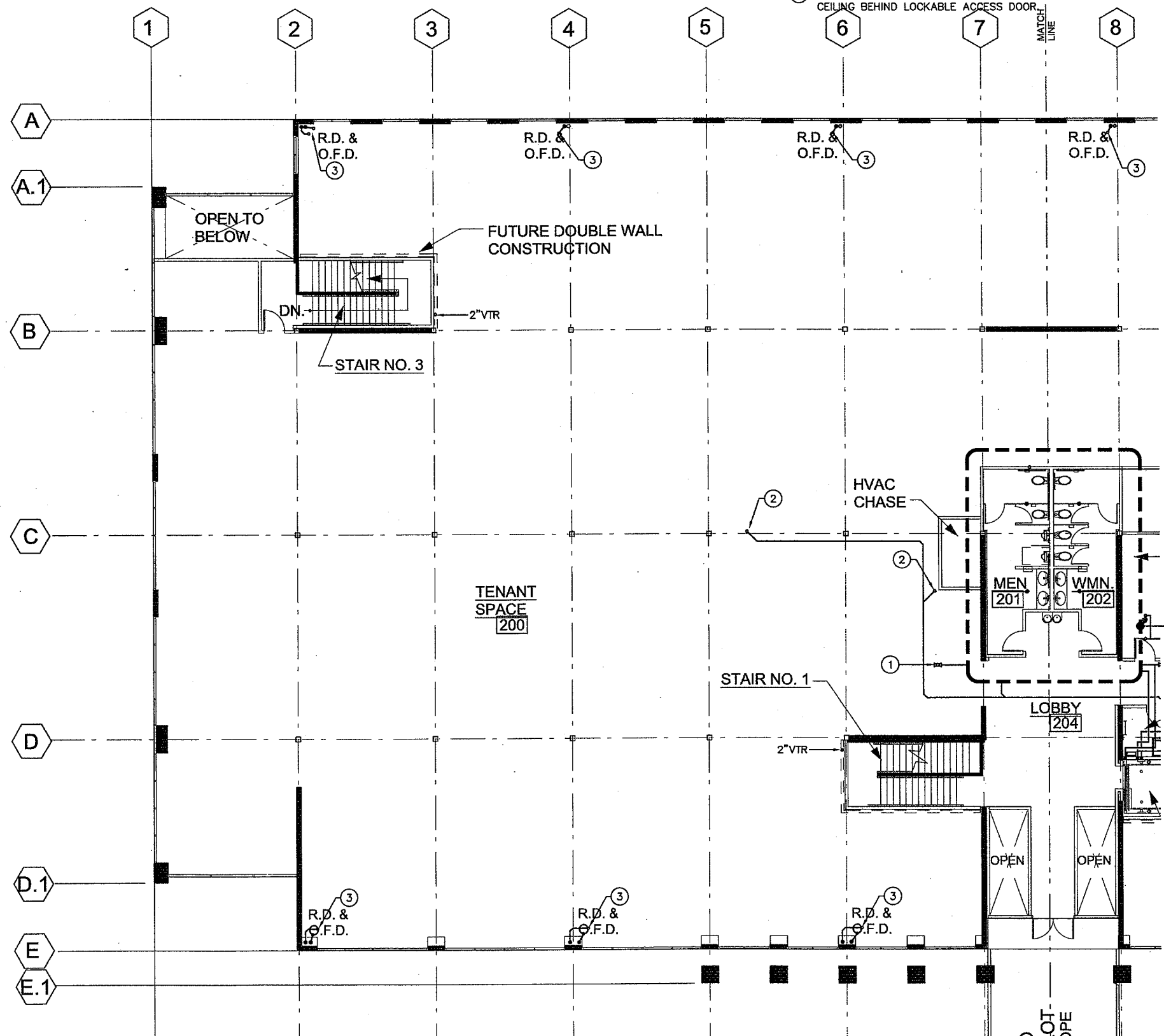
P-4

**GENERAL NOTES**

- (A) REFER TO MINIMUM CONNECTION SIZE TABLE ON SHEET P-1 FOR INDIVIDUAL FIXTURE PIPE SIZES.
- (B) REFER TO WASTE & VENT PIPING RISER DIAGRAM ON SHEET P-5 FOR PIPE SIZES.
- (C) REFER TO GAS PIPING RISER DIAGRAM ON SHEET P-6 FOR PIPE SIZES.
- (D) INSTALL INDIVIDUAL SOV FOR EACH TOILET RM ABOVE CEILING BEHIND LOCKABLE ACCESS DOOR.

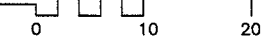
**REFERENCE NOTES**

- (1) 3/4" CW STUB-OUT FOR FUTURE.
- (2) 1-1/2" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT.
- (3) 4" RWL'S UP THRU ROOF TO ROOF DRAIN AND-OVERFLOW ROOF DRAIN. OFFSET RWL'S AND DROP TO 1ST FLOOR.



**SECOND FLOOR PLAN - WEST**

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



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REFER TO ENLARGED SECOND FLOOR TOILET ROOM PLAN ON SHEET P5 FOR WORK IN THIS AREA.

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BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

SECOND FLOOR PLAN - WEST

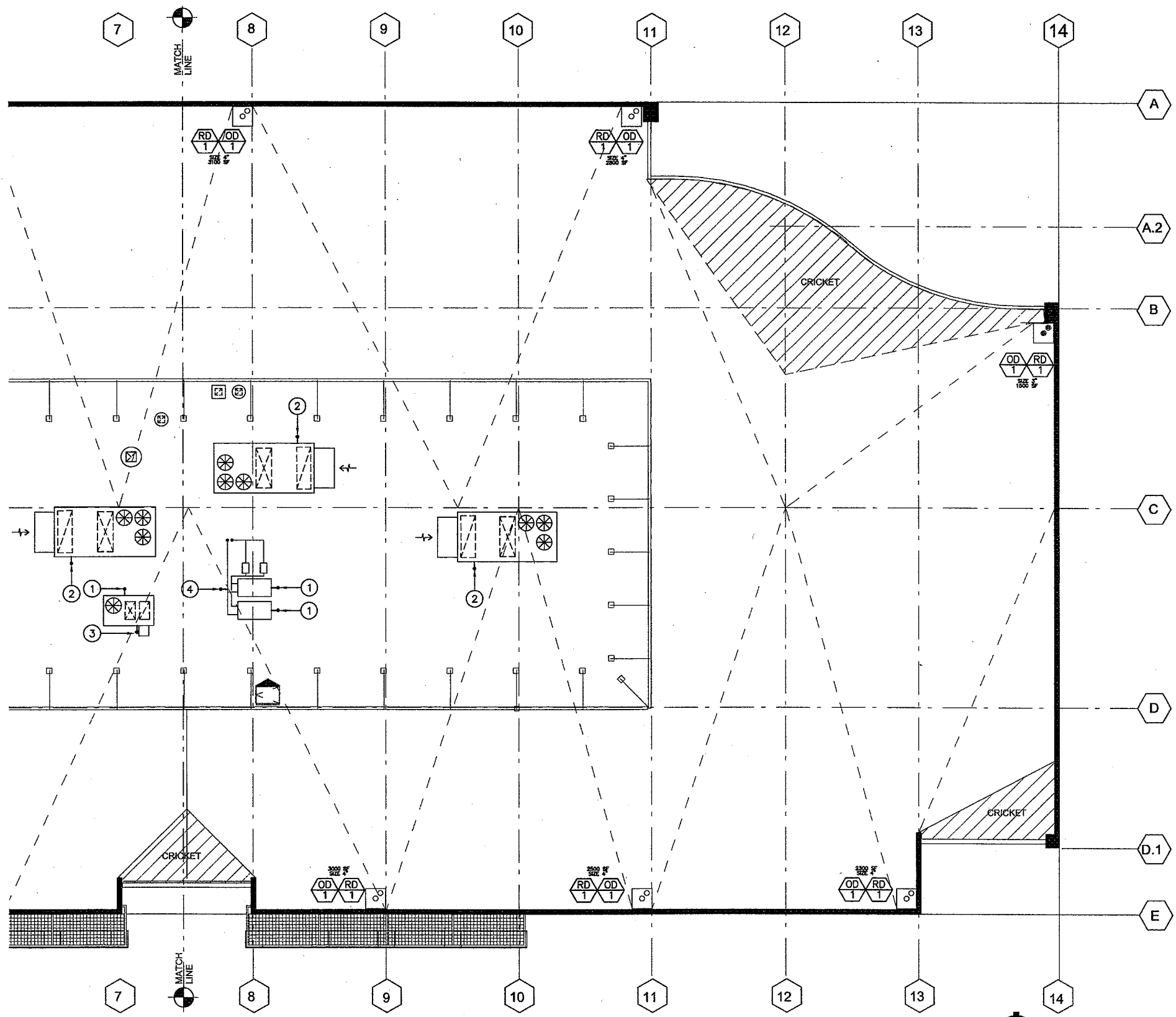
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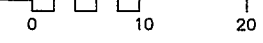
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P-5



**ROOF PLAN - EAST**

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

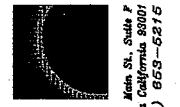


- REFERENCE NOTES**
- ① GAS PIPING UP THRU ROOF TO ROOFTOP AC UNIT/BOILER. CONNECT TO GAS FIRED APPLIANCE WITH FLEXIBLE PIPE CONNECTOR AND SOV.
  - ② 1-1/2" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT. CONNECT TO UNIT WITH P-TRAP AND VENT.
  - ③ 1" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT. CONNECT TO UNIT WITH P-TRAP AND VENT.
  - ④ 3/4" CW UP THRU ROOF TO BOILER MAKEUP WITH REDUCED PRESSURE BACKFLOW DEVICE AND SOV.



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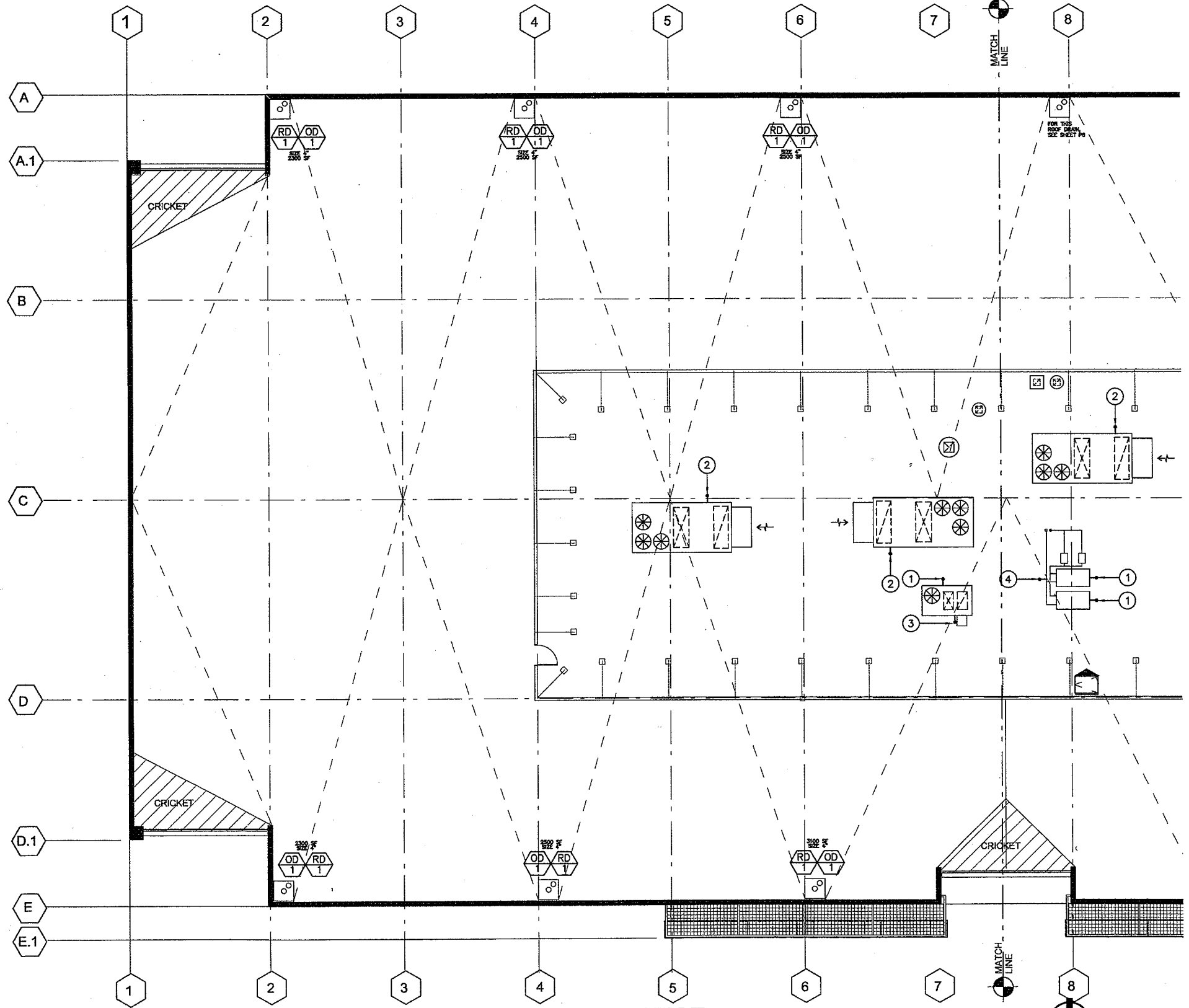
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BUSINESS PARK  
BUILDING NO. 4

HOLLISTER AVENUE  
GOLETA, CA.

ROOF PLAN - EAST

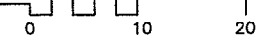
Date:	11-18-09
Job:	####
Drawn by:	RMA
Sheet:	

P-6



**ROOF PLAN - WEST**

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



**REFERENCE NOTES**

- ① GAS PIPING UP THRU ROOF TO ROOFTOP AC UNIT/BOILER. CONNECT TO GAS FIRED APPLIANCE WITH FLEXIBLE PIPE CONNECTOR AND SOV.
- ② 1-3/4" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT. CONNECT TO UNIT WITH P-TRAP AND VENT.
- ③ 1" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT. CONNECT TO UNIT WITH P-TRAP AND VENT.
- ④ 3/4" CW UP THRU ROOF TO BOILER MAKEUP WITH REDUCED PRESSURE BACKFLOW DEVICE AND SOV.



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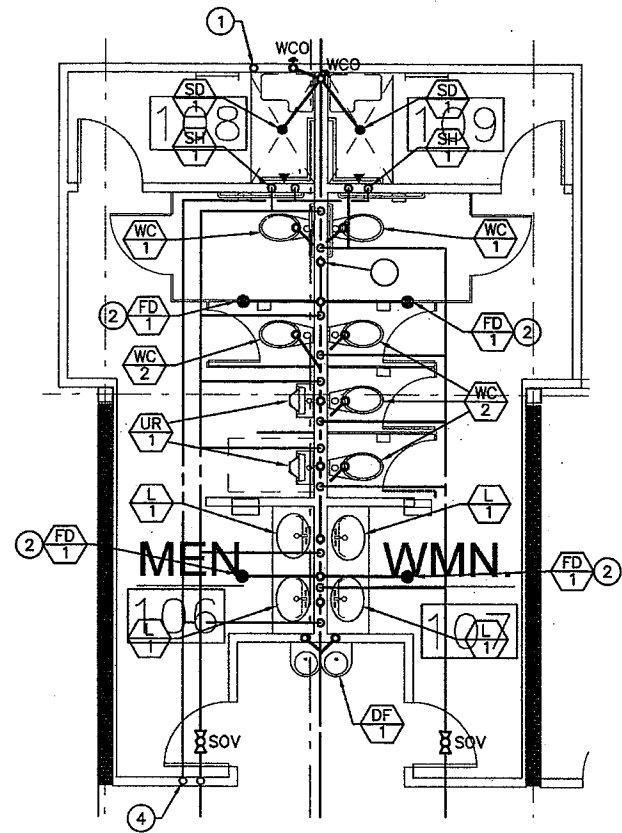
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BUILDING NO. 4  
HOLLISTER AVENUE  
GOLETA, CA.

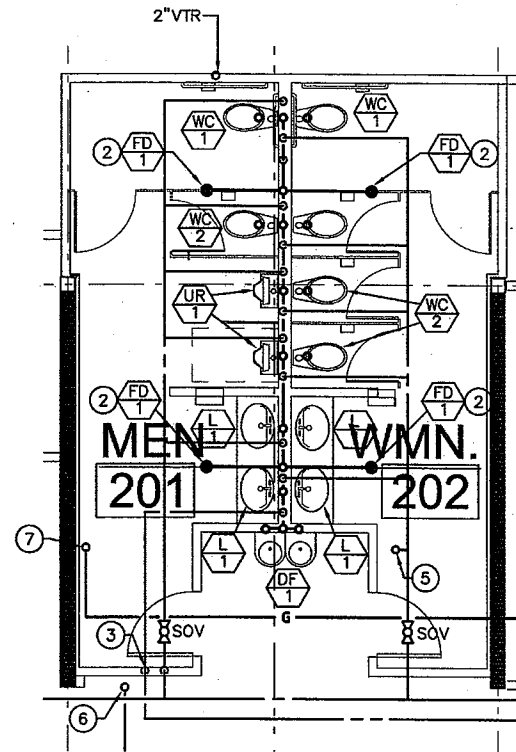
ROOF PLAN - WEST  
Date: 11-18-09  
Job: ####  
Drawn by: RMA  
Sheet:

P-7



**ENLARGE FIRST FLOOR  
TOILET ROOM PLAN**

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



**ENLARGE SECOND FLOOR  
TOILET ROOM PLAN**

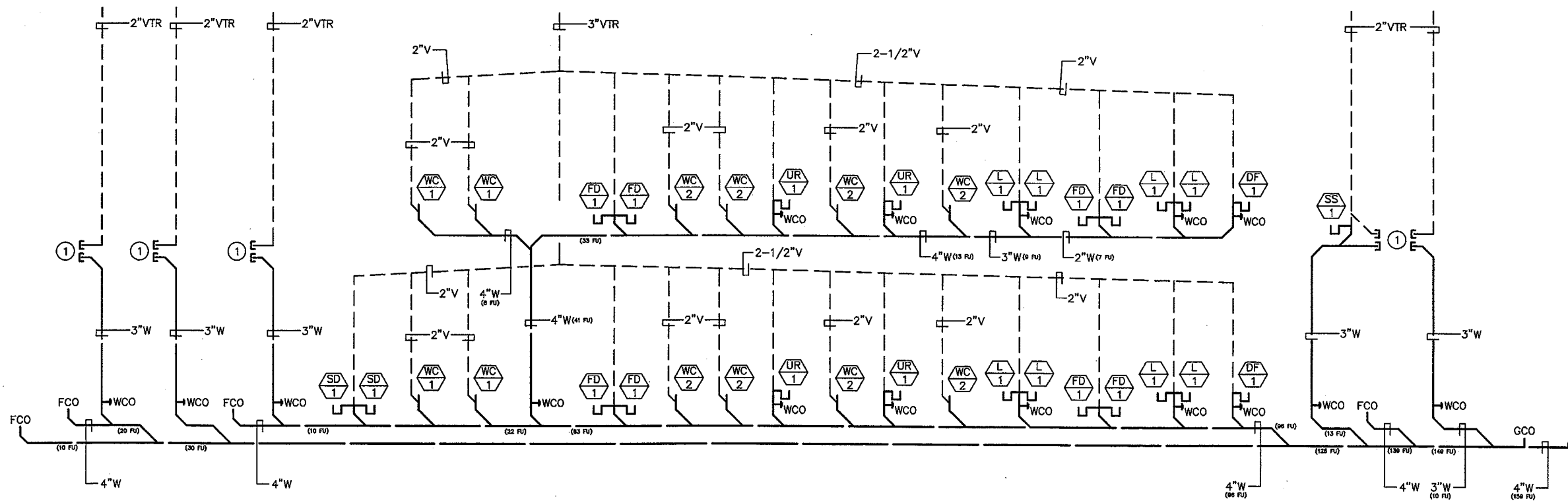
SCALE: 1/4" = 1'-0"

**REFERENCE NOTES**

- ① STUB-OUT AND CAP 3"W AND 2"V PIPING BELOW 2ND FLOOR AND ABOVE FUTURE 1ST FLOOR CEILING FOR FUTURE 2ND FLOOR PLBG FIXTURES.
- ② ROUTE CW SUPPLY TO FLOOR DRAIN P-TRAP FROM TRAP PRIMING DEVICE. LOCATE TRAP PRIMER IN WALL BEHIND LOCKABLE ACCESS DOOR.
- ③ 2"CW AND 1"HW DOWN TO 1ST FLOOR.
- ④ 2"CW AND 1"HW UP TO 2ND FLOOR.
- ⑤ 3/4"CW SUPPLY UP THRU ROOF TO SPACE HEATING HW MAKEUP.
- ⑥ 1" COPPER CONDENSATE DRAIN UP THRU ROOF TO ROOFTOP AC UNIT.
- ⑦ GAS PIPE UP THRU ROOF TO ROOFTOP AC UNIT.

**GENERAL NOTES**

- (A) REFER TO MINIMUM CONNECTION SIZE TABLE ON SHEET P-1 FOR INDIVIDUAL FIXTURE PIPE SIZES.
- (B) REFER TO WASTE & VENT PIPING RISER DIAGRAM ON SHEET P-5 FOR PIPE SIZES.
- (C) REFER TO GAS PIPING RISER DIAGRAM ON SHEET P-6 FOR PIPE SIZES.
- (D) INSTALL INDIVIDUAL SOV FOR EACH TOILET RM ABOVE CEILING BEHIND LOCKABLE ACCESS DOOR.



NOTE: SLOPE ALL DRAIN PIPING AT MINIMUM 1/4" PER FOOT

**WASTE AND VENT PIPING RISER DIAGRAM**

NO SCALE



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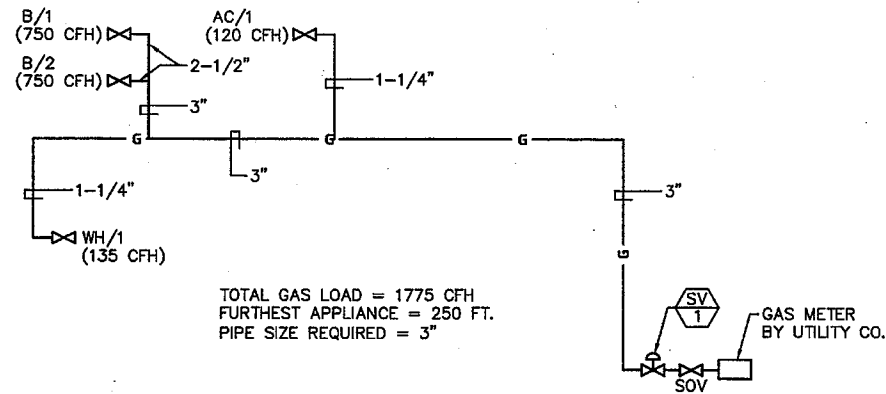
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CABRILLO  
BUSINESS PARK  
BUILDING NO. 4  
HOLLISTER AVENUE  
GOLETA, CA.

ENLARGED TOILET RM PLANS  
AND PIPING RISER DIAGRAM

Date: 11-18-04  
Job: #####  
Drawn by: RMA  
Sheet:



### GAS PIPING RISER DIAGRAM

NO SCALE

## UTILITY LOADS

### WATER:

QUANTITY	FIXTURE	FIXTURE UNITS CW	TOTAL UNITS CW
12	WC (FV)	4	= 48
8	LAV	1	= 8
4	URINAL	2	= 8
2	SHOWER	2	= 4
1	MOP SINK	3	= 3
4	DRKG FTN	1	= 4
TOTAL			= 75

PLBG FIXTURES = 75 FU + 25 FU (FUTURE) = 68 GPM

TOTAL DEMAND = 68 GPM  
 CALC BASED ON 2" METER AND 2-1/2" CW MAIN, 2-1/2" REDUCED PRESSURE BACKFLOW DEVICE

AVAILABLE PRESSURE	=	80 PSI
LOSS THRU METER	=	2 PSI
LOSS THRU BACKFLOW DEVICE	=	12 PSI
LOSS THRU PRV	=	6 PSI
ELEVATION LOSS = 14 FT X 0.43	=	6 PSI
RESIDUAL PRESSURE (FLUSH VALVE)	=	25 PSI
PRESSURE AVAILABLE FOR LOSS	=	29 PSI

FRICITION LOSS/100 FT = 29 PSI/100 FT  
 FRICITION LOSS = 29 PSI/300 FT X 100 FT = 9.67 PSI  
 WATER METER SIZE = 2"  
 BLDG WATER SUPPLY SIZE = 2-1/2"  
 BUILDING SEWER SIZE = 4"

PIPE SCHEDULE (FU)					
SIZE	F.T.	F.V.	HW	GPM	FPS
1/2"	3	-	3	3	5
3/4"	12	-	9	9	6
1"	27	-	17	18	8
1-1/4"	56	14	29	31	8
1-1/2"	104	35	48	44	8
2"	260	136	120	77	8
2-1/2"	474	358	246	118	8



Associates

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CABRILLO  
 BUSINESS PARK  
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HOLLISTER AVENUE  
 GOLETA, CA.

PIPING RISER DIAGRAM AND  
 WATER SIZING CALCULATION

Date: 11-18-09

Job: #1111

Drawn by: RMA

Sheet:

P-9



# GENERAL NOTES

- THE WORK DONE UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT REFERRED TO, SHOWN HEREIN OR THE DRAWINGS EXCEPT SUCH MATERIAL AND EQUIPMENT AS MAY BE SPECIFICALLY MENTIONED TO BE PROVIDED BY OTHERS.
- FOR THE PURPOSE OF CLARIFICATION AND LIABILITY, THE DRAWINGS ARE ESSENTIALLY UNAMBIGUOUS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL MAKE USE OF THE DATA ON ALL THE CONTRACT DOCUMENTS TO VERIFY THIS INFORMATION.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK. THE DRAWINGS OF THE VARIOUS TRADES TAKE PRECEDENCE IN THE REPRESENTATION OF THE WORK OF THOSE TRADES. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALL DRAWINGS TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF THE OTHER TRADES.
- THE LOCATION OF ALL ELECTRICAL EQUIPMENT AND OUTLETS, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE ONLY EXCEPT WHERE INDICATED OTHERWISE. HEIGHTS, OR DETAILS COULD BE LOCATED BY REFERENCE TO ARCHITECTURAL DETAILS OR VERIFIED WITH THE ARCHITECT AND/OR OWNER.
- THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING AND SITE, AND COMPARE THE DRAWINGS WITH EXISTING CONDITIONS. HE WILL FURTHER VERIFY ALL REQUIREMENTS WITH THE PROPER COMPANIES INVOLVED. BY THE ACT OF SUBMITTING A BID, THE ELECTRICAL CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFOR IN PREPARING HIS PROPOSAL.
- THE ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM THE WORK OUTLINED. HE SHALL BE FAMILIAR WITH ALL LOCAL CODES HAVING JURISDICTION, AND SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS AND VERIFY THAT ALL SYSTEMS CONTAINED THEREIN ARE IN COMPLIANCE WITH THOSE CODES HAVING JURISDICTION. BY THE ACT OF SUBMITTING A BID, THE ELECTRICAL CONTRACTOR SHALL BE DEEMED TO HAVE ACCEPTED SUCH CONDITIONS AND REQUIREMENTS, AND TO HAVE MADE ALLOWANCES THEREFOR IN PREPARING HIS PROPOSAL SO THAT THERE WILL BE NO ADDITIONAL COSTS REQUESTED FOR ANY ADDITIONAL REQUIREMENTS MADE BY THOSE AGENCIES HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL INFORM HIMSELF PRIOR TO SUBMISSION OF BIDS, AS TO THE ELECTRICAL WORK REQUIRED BY OTHER SECTIONS OF THE PLANS OR THE OPERATIONS OF SUCH AS MECHANICAL, PLUMBING, ELEVATORS, ETC., AND SHALL INCLUDE THOSE ITEMS INDICATED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR OR BY OTHERS.
- REQUIREMENTS AND AVAILABILITY OF SERVICES HAVE BEEN DETERMINED AS ACCURATELY AS POSSIBLE AND INDICATED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABILITY OF SERVICES AND DETERMINE ACTUAL DETAILS PERTAINING TO EXACT LOCATIONS AND BE RESPONSIBLE THEREFOR. NO CONSIDERATION FOR EXTRA COSTS WILL BE GIVEN RESULTING FROM FAILURE OF THE ELECTRICAL CONTRACTOR TO COMPLY WITH THIS REQUIREMENT.
- THE OWNER RESERVES THE RIGHT TO MOVE ANY OUTLET WITHIN THE RANGE OF SIX FEET WITHOUT ADDITIONAL EXPENSE TO THE OWNER. NO ALLOWANCE WILL BE MADE FOR EXTRA COSTS FOR ANY CHANGES IN LOCATION EXCEPT WHERE EQUIPMENT HAS BEEN SET AND LOCATED BEFORE ANY CHANGE IS ORDERED, AND THEN ONLY WHERE SUCH CHANGE IS ORDERED IN WRITING.
- THE DRAWINGS SHOW THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE CONDUITS, THE NUMBER AND SIZE OF WIRING TRUNKS, AND SUGGEST THE PROPER ROUTE FOR THE CONDUITS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSTALL THE CONDUITS WITH A MINIMUM NUMBER OF BENDS IN SUCH A MANNER AS SHOWN TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PREVENT HEADROOM, KEEP CONDUITS AND PARALLELS CLEAR, AND MEET ALL STRUCTURAL CODE REQUIREMENTS.
- VERIFY THAT A PERMANENT MEANS OF ACCESS TO ALL ELECTRICALLY OPERATED EQUIPMENT HAS BEEN PROVIDED BY OTHERS, OR BY ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERVISOR WHO SHALL BE CONSTANTLY IN CHARGE OF THE WORK, TOGETHER WITH QUALIFIED JOHWIRING, HELPERS AND LABORERS REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK TO BE DONE.
- THE ELECTRICAL CONTRACTOR SHALL REMOVE, STORE, AND INSTALL ALL LIGHTING FIXTURES, LAMPS, APPLIANCES AND THE ELECTRICAL ITEMS FURNISHED BY OWNER.
- IN THE EVENT OF FAILURE OF ANY ELECTRICAL WORK DURING THE LIFE OF THE GUARANTEE, THE ELECTRICAL CONTRACTOR SHALL REMOVE OR REPLACE THE DEFECTIVE WORK AND SHALL REMOVE, REPLACE OR REPAIR, AT HIS OWN COST TO THE OWNER, ANY PART OF THE STRUCTURE OR BUILDING WHICH MAY BE DAMAGED AS THE DIRECT RESULT OF THE CONTRACTOR'S WORK OR REPLACEMENT OF THE DEFECTIVE WORK.
- ALL CONDUITS SHALL BE COVERED WITH THREE/THIRTH INSULATION, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS. ALL CONDUIT TERMINATIONS SHALL BE RATED AT 75% BREAK.
- ALL METALLIC GAS AND/OR WATER PIPES WHICH PASS IN CLOSE PROXIMITY TO THE ELECTRICAL CONDUITS, OUTLETS, EQUIPMENT, ETC. SHALL BE BONDED TO THE ELECTRICAL SYSTEM.
- ALL ELECTRICAL EQUIPMENT, FUSES AND CIRCUIT BREAKERS SHALL HAVE AN INTERRUPTING RATING OF NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE EXPOSED.
- THE COMPLETE INSTALLATION, INCLUDING THE NEUTRAL CONDUCTOR, METALLIC CONDUIT AND RACEWAYS, BOXES, CABINETS AND EQUIPMENT SHALL BE PERMANENTLY AND APPROPRIATELY GROUNDED IN ACCORDANCE WITH ALL CODES REQUIREMENTS, WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN AND/OR PROVIDED. GROUND RESISTANCE AT ANY POINT SHALL NOT EXCEED FIVE OHMS.
- THE ELECTRICAL EQUIPMENT SHALL BE TRIED AND BE PLACED IN WORKING ORDER BEFORE THE INSTALLATION SHALL BE CONSIDERED COMPLETE. ALL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GUARANTEED TO PERFORM THE REQUIRED FUNCTIONS IN ACCORDANCE WITH THE PERFORMANCE REQUIREMENTS WHICH ARE INDICATED ON SPECIFICATIONS OR WHERE SUCH PARTICULAR REQUIREMENTS ARE NOT STATED, SHALL PERFORM IN ACCORDANCE WITH THE PERFORMANCES RECORDED THEREON OR REQUIREMENTS DURING THE PERIOD OF ONE YEAR FOLLOWING COMPLETION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REPAIRS OR REPLACEMENTS NECESSARY TO ACCOMPLISH THE REQUIRED PERFORMANCE.
- ALL ELECTRICAL MATERIALS, FIXTURES, WIRING DEVICES, APPARATUS AND EQUIPMENT SHALL BE NEW AND OF THE TYPE AND CONSTRUCTION SPECIFIED BY THE SPECIFICATIONS AND BY THE ELECTRICAL SAFETY CODES ISSUED BY THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS. MATERIALS SHALL BEAR THE LABEL OF THE MANUFACTURER'S LABORATORY, OR OF OTHER RECOGNIZED ELECTRICAL TESTING LABORATORY WHERE APPLICABLE. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LISTINGS.
- ALL INFORMATION CONTAINED ON THE DRAWINGS AND SPECIFICATIONS ARE BASED ON INFORMATION FURNISHED BY OTHERS. ALTHOUGH THERE IS NO REASON TO DOUBT THE SOURCE OF THIS INFORMATION, SILVER ENGINEERING DOES NOT GUARANTEE ITS ACCURACY.
- ALL ELECTRICAL OUTLETS, MOTORS, DEVICES, APPARATUS, EQUIPMENT, FIXTURE AND APPLIANCES, WHETHER INSTALLED BY THE OR BY OTHER TRADES, SHALL BE FULLY CONNECTED TO THE PROPER ELECTRICAL SOURCE AND CONTROLS BY THE ELECTRICAL CONTRACTOR AND LEFT IN OPERATING CONDITION, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATIONS.

# SYMBOL LIST

## LIGHTING

- OUTLET AND LIGHT FIXTURE, CEILING OR PENDANT MOUNTED
- OUTLET AND LIGHT FIXTURE, WALL MOUNTED
- RECESSED LIGHT FIXTURE WITH JUNCTION BOX
- FLUORESCENT STRIP LIGHT, SURFACE MOUNTED
- FLUORESCENT LIGHT FIXTURE, RECESSED
- OUTLET OR JUNCTION BOX AND FLUORESCENT LIGHT FIXTURE
- ⊙ EXIT LIGHT
- OUTLET, TRACK AND LIGHT FIXTURES
- ⊕ BATTERY EMERGENCY LIGHT
- ⊙ LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT
- ⊕ INDICATES TYPE OF LIGHT FIXTURE, PER FIXTURE SCHEDULE
- ⊕ INDICATES QUANTITY OF LIGHT FIXTURE

## RECEPTACLES

- ⊕ DUPLEX CONVENIENCE RECEPTACLE OUTLET AT 48", OR AS NOTED.
- ⊕ DUPLEX RECEPTACLE 1/2 HOT, 1/2 SWITCHED
- ⊕ DUPLEX RECEPTACLE : ON TWO INDEPENDENT 120 VOLT CIRCUITS
- ⊕ DUPLEX RECEPTACLE : ISOLATED GROUND TYPE, 20 AMP OR AS NOTED
- ⊕ DOUBLE DUPLEX RECEPTACLE OUTLET, 3-BANK BOX OR AS NOTED
- ⊕ SINGLE RECEPTACLE CONVENIENCE OUTLET, 20 AMP OR AS NOTED
- ⊕ CLOCK RECESSED SINGLE RECEPTACLE OUTLET, 15 AMP OR AS NOTED
- ⊕ FLUSH FLOOR RECEPTACLE OUTLET
- ⊕ SURFACE FLOOR RECEPTACLE OUTLET

## MISCELLANEOUS

- ⊕ TELEPHONE OUTLET: 48", OR AS NOTED
- ⊕ DATA OUTLET: 48", OR AS NOTED
- ⊕ TELEVISION OUTLET: 48", OR AS NOTED
- ⊕ FLUSH OR SURFACE FLOOR TELEPHONE OUTLET
- ⊕ SPEAKER OUTLET
- ⊕ SMOKE DETECTOR
- ⊕ JUNCTION BOX: 4" SQUARE x 3-1/2" DEEP, OR AS NOTED
- ⊕ EXHAUST FAN

## POWER

- SWITCHBOARD
- PANELBOARD: SURFACE MOUNTED, WITH DOOR
- PANELBOARD: RECESSED, WITH DOOR
- ⊕ TRANSFORMER
- ⊕ MOTOR: NUMBER INDICATES HORSEPOWER
- ⊕ DRY TYPE TRANSFORMER
- ⊕ UTILITY COMPANY METER, WITH CURRENT TRANSFORMERS
- ⊕ UTILITY COMPANY METER, SELF-CONTAINED
- ⊕ METER, SELF-CONTAINED

## CONTROL

- ⊕ SINGLE POLE SWITCH -48", OR AS NOTED
- ⊕ TWO POLE SWITCH
- ⊕ THREE WAY SWITCH
- ⊕ FOUR WAY SWITCH
- ⊕ LETTER INDICATES LIGHTS CONTROLLED
- ⊕ DIMMER SWITCH
- ⊕ DISCONNECT SWITCH
- ⊕ MAGNETIC MOTOR STARTER
- ⊕ COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
- ⊕ THERMOSTAT: 48", OR AS NOTED
- ⊕ RELAY
- ⊕ GROUND FAULT PROTECTION

## CONDUIT

- 1/2" O - 2 1/2" CONCEALED IN CEILING OR WALL
- 1/2" O - 2 1/2"
- 1/2" O - 4 1/2"
- 3/4" O - 2 1/2"
- 3/4" O - 4 1/2"
- 3/4" O - 7 1/2"
- 3/4" O - 8 1/2"
- 1" O - 2 1/2"
- 1" O - 4 1/2" - 1 1/2" GROUND
- CONDUIT IN OR UNDER FLOOR, OR UNDERGROUND
- GROUND TO COLD WATER PIPE OR OTHER APPROVED GROUNDING ELECTRODE
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- CONDUIT HOSE RUN TO PANELBOARD

## ABBREVIATIONS

- |  |                                    |
|--|------------------------------------|
| U.G. UNDERGROUND   | O.C. CONDUIT ONLY                  |
| W.P. WEATHERPROOF  | V.L. VERIFY LOCATION               |
| T.C. TIME CLOCK  | E.O. ELECTRICAL CONTRACTOR         |
| M.L. MOUNTING HEIGHT                                     | L.O.L. LONG CONTINUOUS LOAD        |
| D.E. DUAL ELEMENT  | E.D.P. ELECTRIC DRAGON POUNTAIN    |
| A.P. AMP. FUSE   | F.B.O. FURNISHED BY OTHERS         |
| A.B. AMP. SWITCH   | G.F.I. GROUND FAULT INTERRUPTER    |
| N.T.S. NOT TO SCALE                                      | N.L. NIGHT LIGHT                   |
| N.O. NOT IN CONTRACT                                     | S.N. SOLID NEUTRAL                 |
| U.O.N. UNLESS OTHERWISE NOTED                            | ph. W. PHASE, WIRING               |
| U.G.P.S. UNDERGROUND FULL SECTION                        | ES. EXISTING                       |
| A.I.C. AMP. INTERRUPTING CAPACITY                        | S.P.D. SURGE PROTECTION DEVICE     |
| 4" DP 4" x 4" x 3-1/2" BOX                               | 6" DP 4-1/2" x 4-1/2" x 3-1/2" BOX |
| -82" HEIGHT FROM FINISHED FLOOR TO CENTER LINE OF OUTLET |                                    |

# SHEET INDEX

LATEST CHANGE	ISSUED WITH THIS SET	SHEET NUMBER	SHEET TITLE
	○	E-1.0	GENERAL NOTES AND SYMBOLS LIST
	○	E-2.0	FIRST FLOOR PLAN
	○	E-2.1	FIRST FLOOR EGRESS PATH LIGHTING PHOTOMETRIC PLAN
	○	E-3.0	SECOND FLOOR PLAN
	○	E-3.1	SECOND FL. EGRESS PATH LIGHTING PHOTOMETRIC PLAN
	○	E-4.0	ROOF PLAN
	○	E-5.0	SERVICE DETAILS
	○	E-5.1	PANEL SCHEDULES
	○	E-6.0	DETAILS
	○	E-7.0	TITLE 24 - INTERIOR
	○	E-7.1	TITLE 24 - INTERIOR
	○	E-7.2	TITLE 24 - EXTERIOR
	○	E-8.0	PARTIAL SITE LIGHTING PLANS
	○	E-8.1	FIRST FLOOR PARTIAL SITE PHOTOMETRIC PLAN
	○	E-8.2	SECOND FLOOR PARTIAL SITE PHOTOMETRIC PLAN

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REVISIONS  
 NO. DATE BY

Revisions

CABRILLO BUSINESS PARK BUILDING NO. 4

6767 HOLLISTER AVE. GOLETA, CA

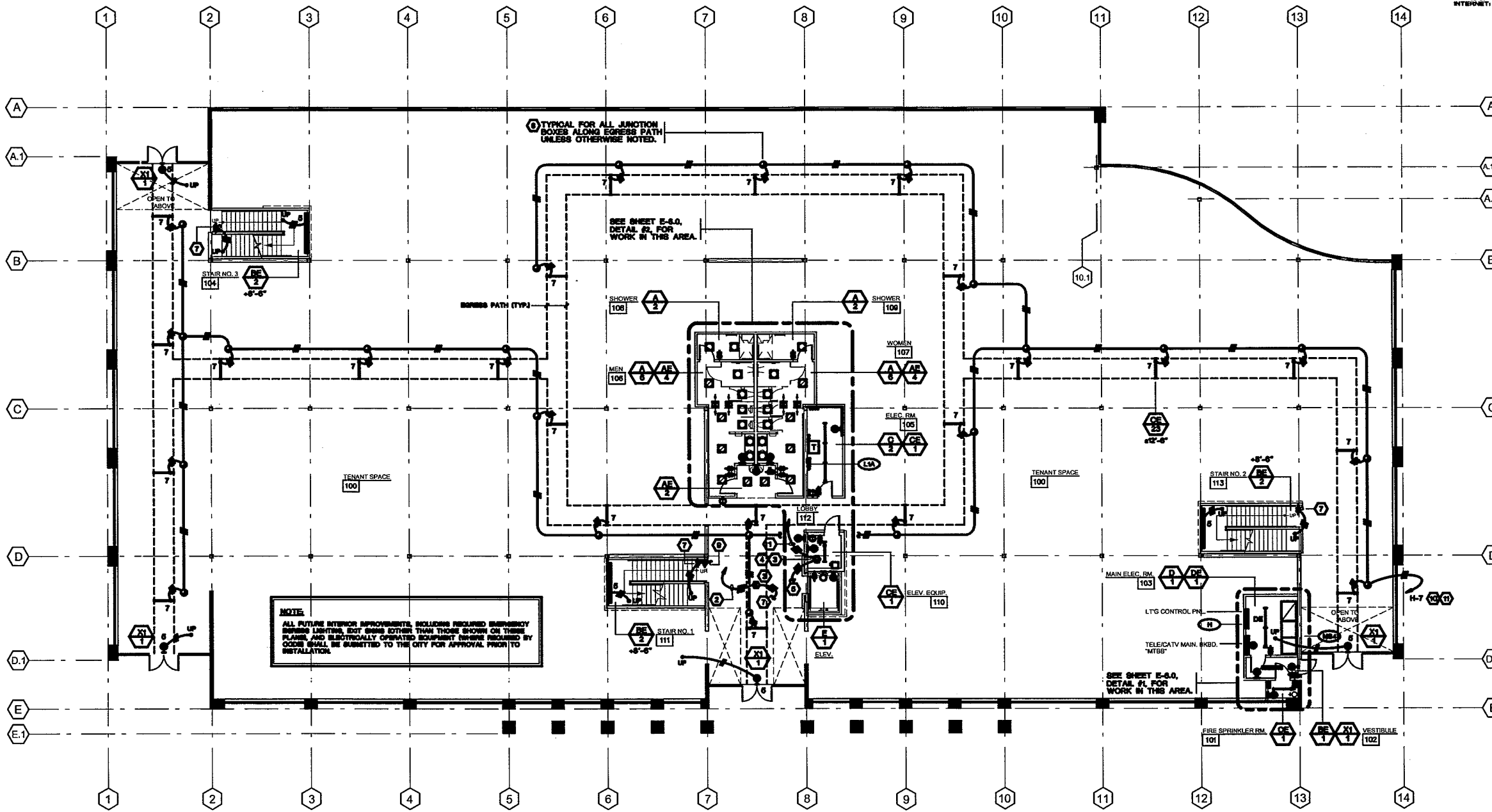
GENERAL NOTES & SYMBOLS LIST

Date: 18-NOV-00  
 Job: 9820903  
 Drawn by: SE  
 Sheet :

E-1.0



Revisions

- NOTES:**
- TO ELEVATOR CIRCUIT BREAKER SHUNT-TRIP RELAY LOCATED ADJACENT TO PANEL "L1A". CONNECT RELAY TO SHUNT-TRIP DEVICE ON THE ELEVATOR FEEDER CIRCUIT BREAKER IN "M84". VERIFY REQUIRED CONNECTIONS WITH ELEVATOR CONTRACTOR.
  - TO ELEVATOR CONTROLLER. VERIFY LOCATION AND COORDINATE INSTALLATION WITH ELEVATOR CONTRACTOR.
  - SMOKE DETECTOR SURFACE MOUNTED ON CEILING. PROVIDE DEVICES, CONDUIT AND WIRE NECESSARY AND MAKE ALL CONNECTIONS FOR POWER AND CONTROL. VERIFY REQUIREMENTS WITH ELEVATOR CONTRACTOR.
  - CONNECT SMOKE DETECTORS SUCH THAT EITHER DETECTOR WILL OPEN THE ELEVATOR EQUIPMENT FEEDER DISCONNECT SWITCH. PROVIDE CONTROL CIRCUIT POWER. VERIFY REQUIREMENTS WITH ELEVATOR CONTRACTOR.
  - UP TO SMOKE DETECTOR AT CEILING OF ELEVATOR SHAFT. VERIFY LOCATION.
  - UP TO SMOKE DETECTOR AT CEILING OF SECOND FLOOR ELEVATOR LOBBY. VERIFY LOCATION.
  - PROVIDE AN ALTERNATE PRICE TO REPLACE THE TWO 3-WAY SWITCHES WITH ONE SINGLE POLE SWITCH (TO BE LOCATED AT OR NEAR THIS LOCATION - VERIFY WITH OWNER).
  - 1/8" DEEP JUNCTION BOX MOUNTED ON CEILING STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.

- NOTES (continued):**
- BY-PASS SWITCH FOR EGRESS PATH LIGHTING ONLY. LOAD NO. CH-1-WH-WH WITH T0-WGATS CABLE TO "RP1".
  - ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL "RP1". EXIT SIGNS AND EMERGENCY BALLAST SHALL BYPASS ALL LIGHTING CONTROLS. SEE SHEET E-61 FOR WIRING DIAGRAM OF "RP1".
  - EGRESS PATH LIGHTING CONTROLLED BY TIMECLOCK ("RP1") AND BY-PASS SWITCH ONLY.



**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE. GOLETA, CA  
**FIRST FLOOR PLAN**  
 Date: **18-NOV-08**  
 Job: **SE20003**  
 Drawn by: **SE**  
 Sheet :

REVISIONS

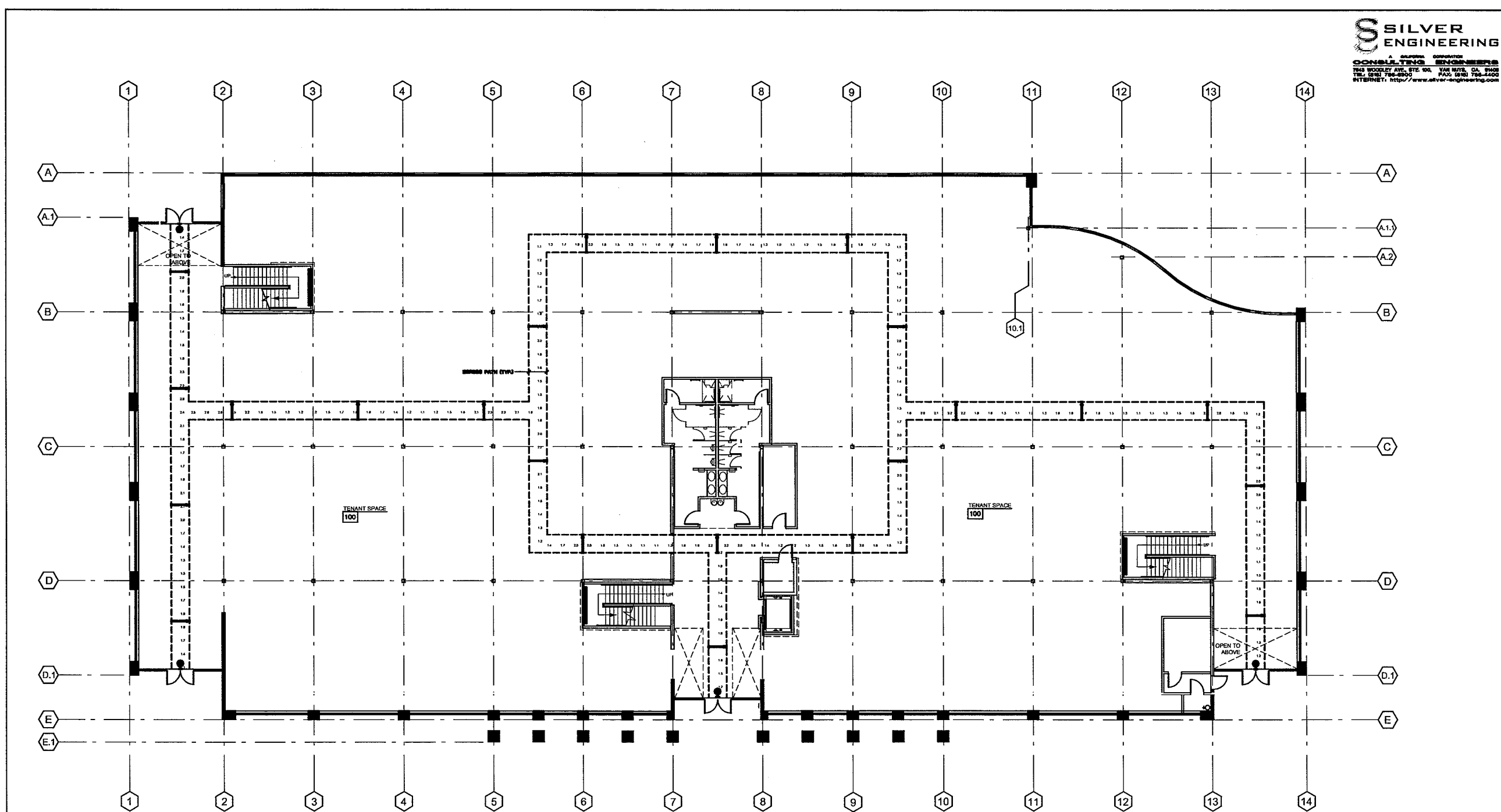
NO.	DATE	DESCRIPTION

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE.  
 GOLETA, CA

**FIRST FLOOR EGRESS PATH**

Date: **18-NOV-09**  
 Job: **0820003**  
 Drawn by: **SE**  
 Sheet :

**E-2.1**



Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
■	CE	23	C 1.32 TUBI	GENERAL PURPOSE CHANNEL, 4' ILP TB ELEC	ONE 32-WATT T8 LINEAR FLUORESCENT.	LS049JES	1400	1.00	32

Description	Avg	Max	Min	Max/Min	Avg/Min
PATH OF EGRESS	1.7 fc	2.8 fc	1.0 fc	2.8:1	1.7:1

No.	Label	MH	Orientation
1	CE	12.5	0.0
2	CE	12.5	-90.0
3	CE	12.5	-90.0
4	CE	12.5	0.0
5	CE	12.5	-90.0
6	CE	12.5	0.0
7	CE	12.5	-90.0
8	CE	12.5	0.0
9	CE	12.5	0.0
10	CE	12.5	-90.0
11	CE	12.5	-90.0
12	CE	12.5	0.0

No.	Label	MH	Orientation
13	CE	12.5	0.0
14	CE	12.5	0.0
15	CE	12.5	0.0
16	CE	12.5	0.0
17	CE	12.5	-90.0
18	CE	12.5	0.0
19	CE	12.5	0.0
20	CE	12.5	-90.0
21	CE	12.5	-90.0
22	CE	12.5	-90.0
23	CE	12.5	-90.0





Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**

6767 HOLLISTER AVE.  
 GOLETA, CA

**SECOND FLOOR PLAN**

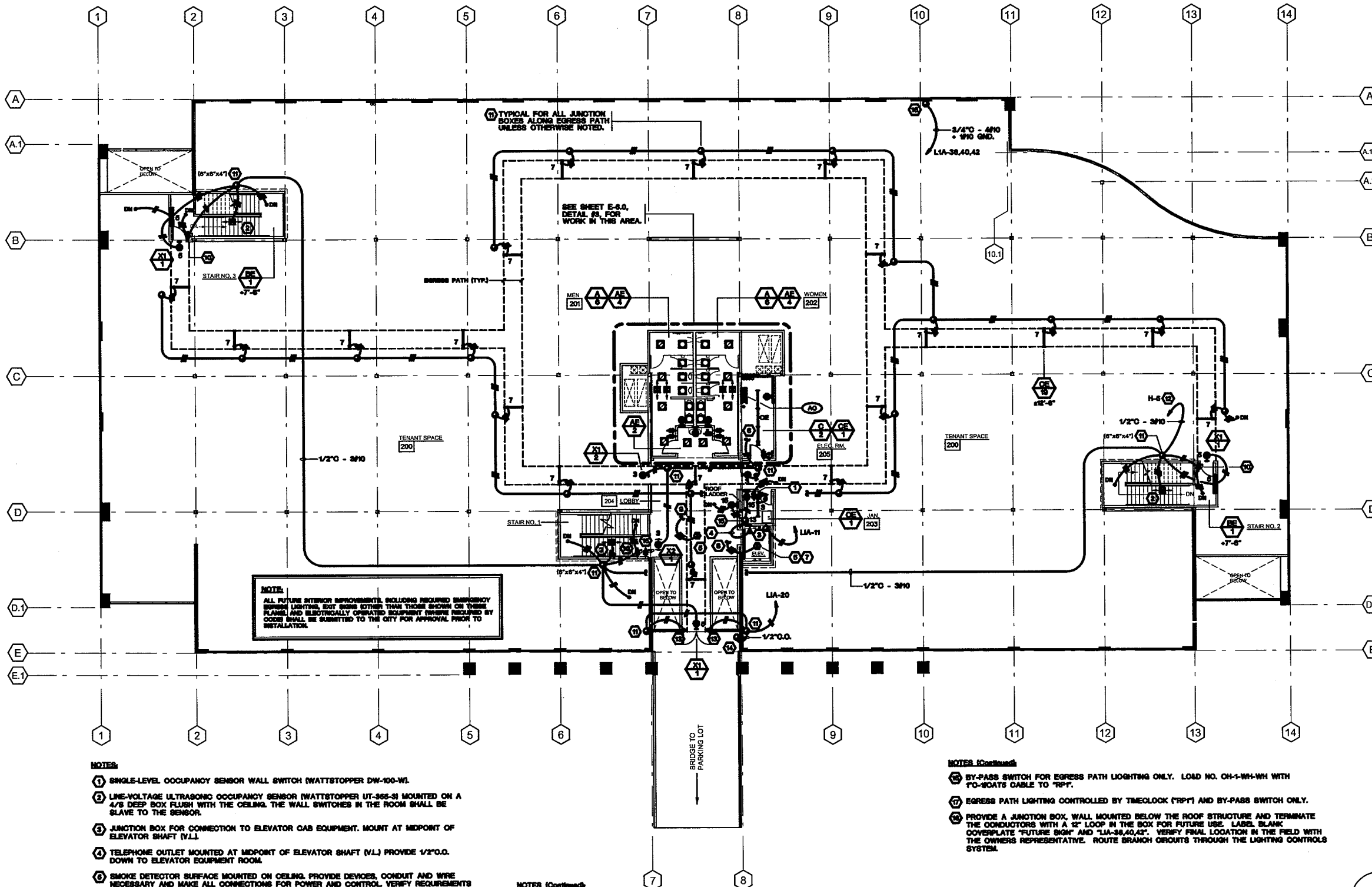
Date: **18-NOV-08**

Job: **SE20003**

Drawn by: **SE**

Sheet :

**E-3.0**

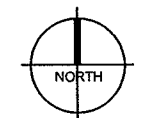


**NOTE:**  
 ALL FUTURE INTERIOR IMPROVEMENTS, INCLUDING REQUIRED EMERGENCY EGRESS LIGHTING, EXIT SIGNS OTHER THAN THOSE SHOWN ON THESE PLANS, AND ELECTRICALLY OPERATED EQUIPMENT (WHERE REQUIRED BY CODE) SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.

- NOTES:**
- 1 SINGLE-LEVEL OCCUPANCY SENSOR WALL SWITCH (WATTSTOPPER DW-100-W).
  - 2 LINE-VOLTAGE ULTRASONIC OCCUPANCY SENSOR (WATTSTOPPER UT-365-S) MOUNTED ON A 4/8" DEEP BOX FLUSH WITH THE CEILING. THE WALL SWITCHES IN THE ROOM SHALL BE SLAVE TO THE SENSOR.
  - 3 JUNCTION BOX FOR CONNECTION TO ELEVATOR CAB EQUIPMENT. MOUNT AT MIDPOINT OF ELEVATOR SHAFT (N.L.).
  - 4 TELEPHONE OUTLET MOUNTED AT MIDPOINT OF ELEVATOR SHAFT (N.L.) PROVIDE 1/2" O.C. DOWN TO ELEVATOR EQUIPMENT ROOM.
  - 5 SMOKE DETECTOR SURFACE MOUNTED ON CEILING. PROVIDE DEVICES, CONDUIT AND WIRE NECESSARY AND MAKE ALL CONNECTIONS FOR POWER AND CONTROL. VERIFY REQUIREMENTS WITH ELEVATOR CONTRACTOR.
  - 6 SEE SHEET E-6.0, DETAIL #8, FOR CONTINUATION OF BRANCH CIRCUIT.
  - 7 CONNECT SMOKE DETECTORS SUCH THAT EITHER DETECTOR WILL OPEN THE ELEVATOR EQUIPMENT DISCONNECT SWITCH. PROVIDE CONTROL CIRCUIT POWER. VERIFY REQUIREMENTS WITH ELEVATOR CONTRACTOR.
  - 8 DOWN TO SMOKE DETECTOR AT CEILING IN ELEVATOR EQUIPMENT ROOM ON FIRST FLOOR. VERIFY LOCATION.
  - 9 DOWN TO SMOKE DETECTOR AT CEILING OF FIRST FLOOR ELEVATOR LOBBY. VERIFY LOCATION.
  - 10 PROVIDE AN ALTERNATE PRICE TO REPLACE THE TWO 3-WAY SWITCHES WITH ONE SINGLE POLE SWITCH (TO BE LOCATED AT OR NEAR THIS LOCATION - VERIFY WITH OWNER).

- NOTES (Continued):**
- 11 JUNCTION BOX MOUNTED ON THE UNDERSIDE OF ROOF STRUCTURE ABOVE 1/8" DEEP UNLESS OTHERWISE NOTED.
  - 12 ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL "TRP". EXIT SIGNS AND EMERGENCY BALLASTS SHALL BYPASS ALL LIGHTING CONTROLS. SEE SHEET E-4.1 FOR WIRING DIAGRAM OF "TRP".
  - 13 ELECTRIC DOOR STRIKE. VERIFY ALL REQUIREMENTS WITH ARCHITECT.
  - 14 SURFACE MOUNTED 4" SQUARE WEATHERPROOF BOX AT +36" FOR HANDICAP CONTROL DEVICE. CORE THROUGH WALL AND PROVIDE 3/4" O.C. TO SINGLE GANG BOX WITH BLANK COVERPLATE.
  - 15 JUNCTION BOX FOR CONNECTION TO WATER HEATER CONTROLLER.

- NOTES (Continued):**
- 16 BY-PASS SWITCH FOR EGRESS PATH LIGHTING ONLY. LOAD NO. CH-1-WH-WH WITH T0-SOATS CABLE TO "TRP".
  - 17 EGRESS PATH LIGHTING CONTROLLED BY TIMELOCK ("TRP") AND BY-PASS SWITCH ONLY.
  - 18 PROVIDE A JUNCTION BOX, WALL MOUNTED BELOW THE ROOF STRUCTURE AND TERMINATE THE CONDUCTORS WITH A 12" LOOP IN THE BOX FOR FUTURE USE. LABEL BLANK COVERPLATE "FUTURE SIGN" AND "LJA-38,40,42". VERIFY FINAL LOCATION IN THE FIELD WITH THE OWNER'S REPRESENTATIVE. ROUTE BRANCH CIRCUITS THROUGH THE LIGHTING CONTROLS SYSTEM.



SC: 3/32" = 1'-0"  
**SECOND FLOOR PLAN**



Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**

6767 HOLLISTER AVE.  
 GOLETA, CA

**SECOND FLOOR EGRESS PATH**

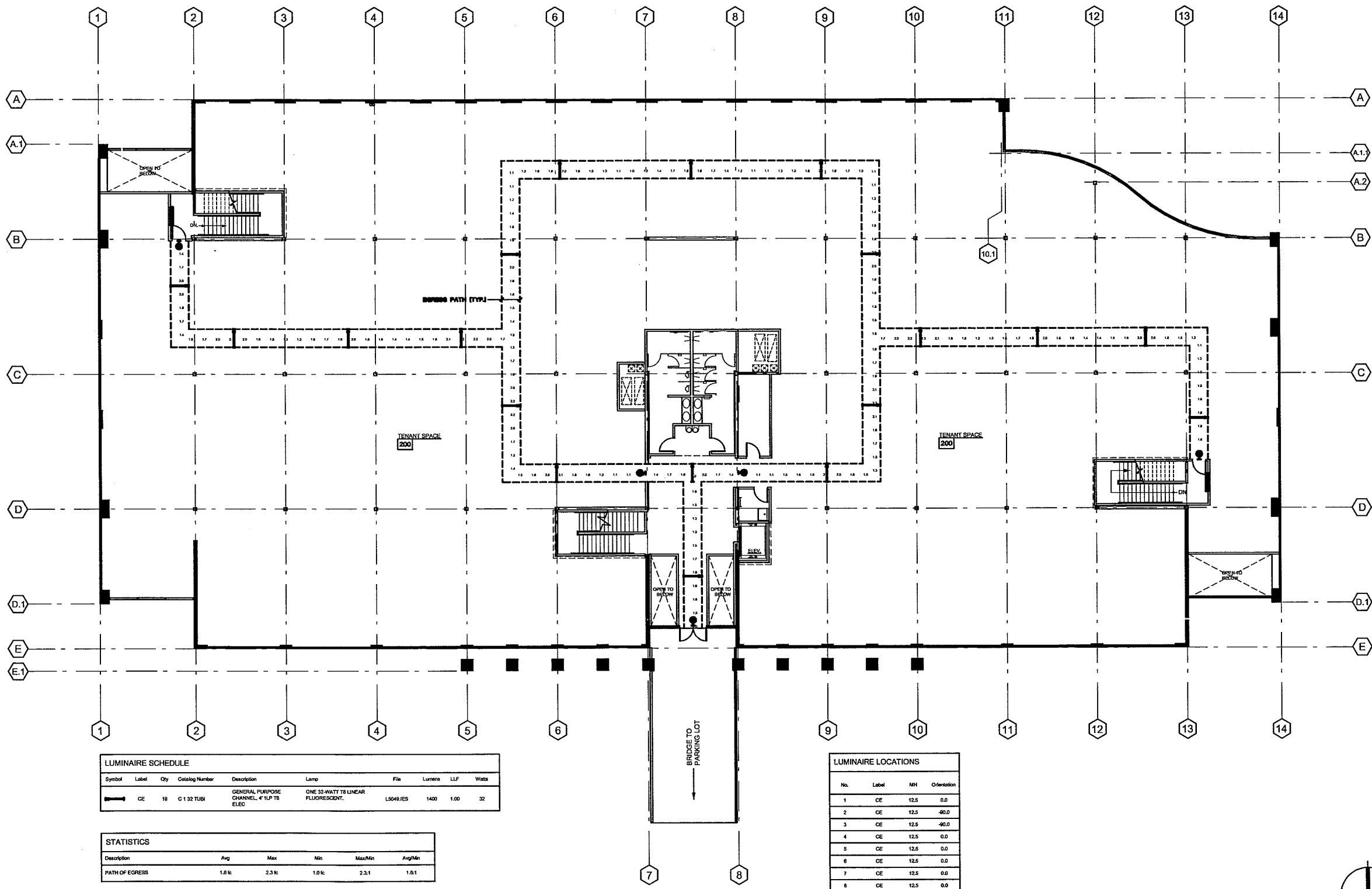
Date: **18-NOV-09**

Job: **SE20003**

Drawn by: **SE**

Sheet :

**E-3.1**



**LUMINAIRE SCHEDULE**

Symbol	Label	Qty	Catalog Number	Description	Lamp	Flu	Lumens	LLF	Watts
—	CE	19	C 1.32 TL8H	GENERAL PURPOSE CHANNEL, 4' ILP T8 ELEC	ONE 32-WATT T8 LINEAR FLUORESCENT.	L5049 JES	1400	1.00	32

**STATISTICS**

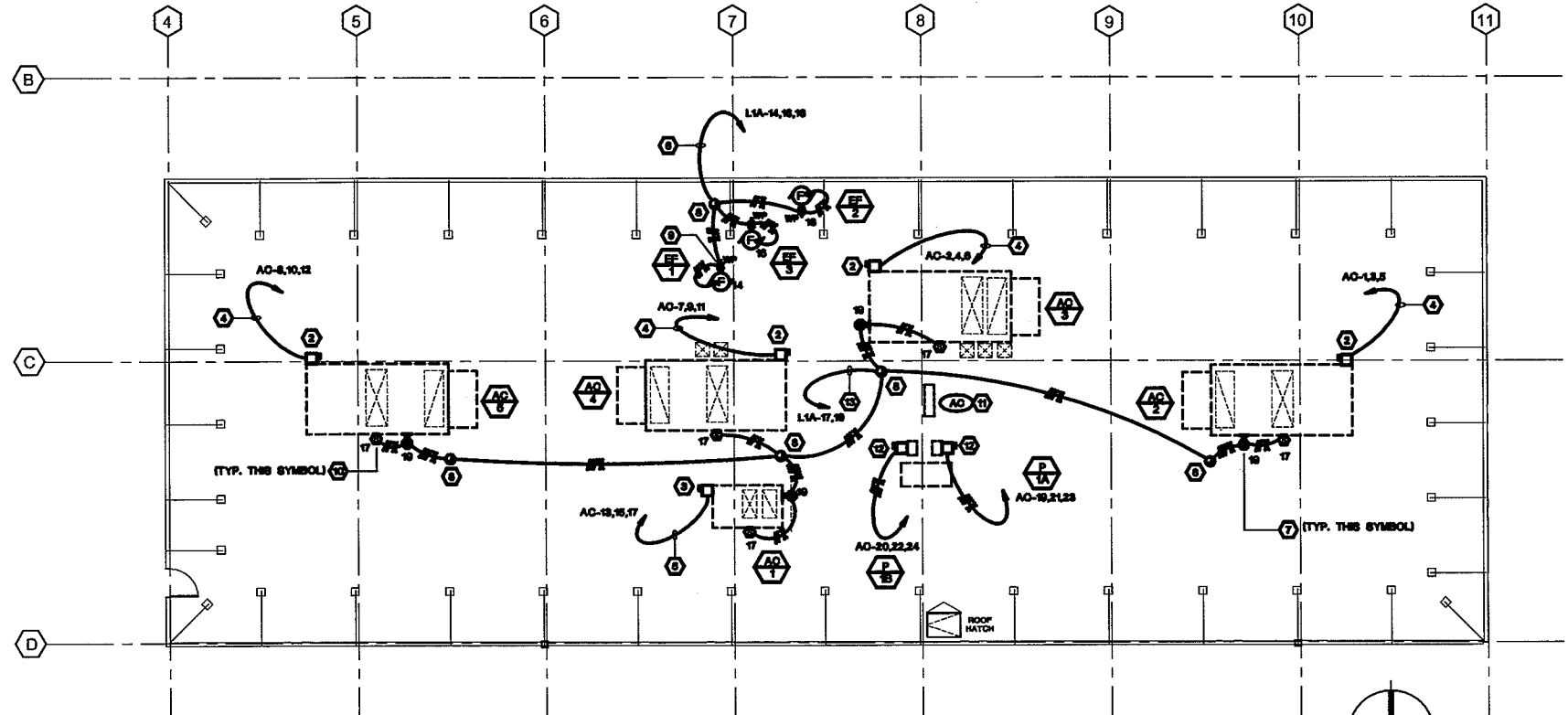
Description	Avg	Max	Min	Max/Min	Avg/Min
PATH OF EGRESS	1.8 fc	2.3 fc	1.0 fc	2.3:1	1.8:1

**LUMINAIRE LOCATIONS**

No.	Label	MH	Orientation
1	CE	12.5	0.0
2	CE	12.5	-90.0
3	CE	12.5	-90.0
4	CE	12.5	0.0
5	CE	12.5	0.0
6	CE	12.5	0.0
7	CE	12.5	0.0
8	CE	12.5	0.0
9	CE	12.5	0.0
10	CE	12.5	0.0
11	CE	12.5	-90.0
12	CE	12.5	-90.0
13	CE	12.5	-90.0
14	CE	12.5	0.0
15	CE	12.5	0.0
16	CE	12.5	0.0
17	CE	12.5	-90.0
18	CE	12.5	0.0
19	CE	12.5	-90.0



SC: 3/32" = 1'-0"  
**SECOND FLOOR PLAN  
 EGRESS PATH LT'G  
 PHOTOMETRIC PLAN**

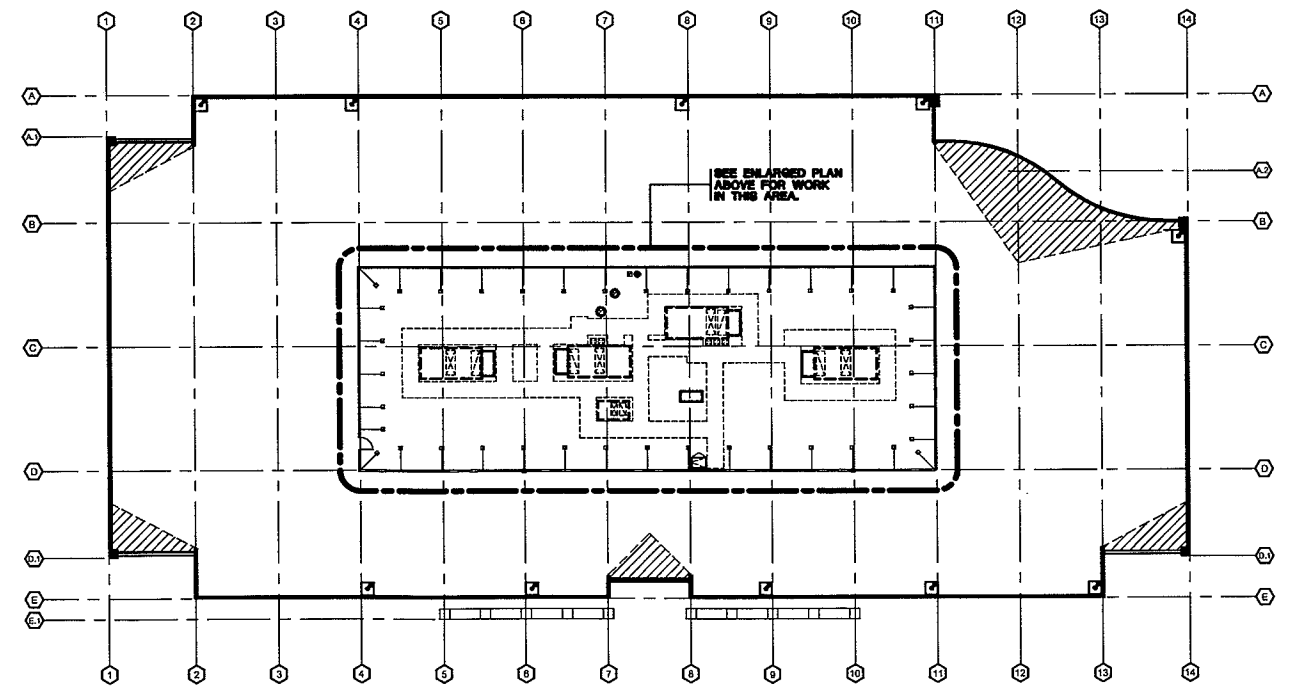


NORTH  
 SC: 1/8" = 1'-0"  
**PARTIAL ROOF PLAN**

- NOTES:**
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DEVICES, CONDUIT AND WIRE AND MAKE ALL NECESSARY CONNECTIONS FOR POWER AND CONTROL OF HVAC EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. ALL CONDUITS SHALL BE ROUTED WITHIN THE BUILDING. VERIFY EXACT LOCATIONS PRIOR TO PENETRATING ROOF. MAXIMUM LENGTH OF CONDUIT EXPOSED ABOVE THE ROOF IS 24". COORDINATE THE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
  - WEATHERPROOF 800V, 200AS, 125AF (D.E.) MOUNTED ON HVAC UNIT.
  - WEATHERPROOF 800V, 30AS, 30AF (D.E.) MOUNTED ON HVAC UNIT.
  - 1-1/4" - 3/4" x 1/8 GND.
  - 1/2" - 3/16" x 1/16 GND.
  - 1/2" - 4/16" x 1/16 GND.
  - SINGLE-GANG FB BOX WITH GFI DUPLEX RECEPTACLE AND WEATHERPROOF COVERPLATE MOUNTED ON HVAC INT ON ROOF.
  - JUNCTION BOX MOUNTED ON UNDERSIDE OF ROOF 1/8" DEEP, UNLESS OTHERWISE NOTED.
  - WEATHERPROOF MOTOR RATED TOGGLE DISCONNECT SWITCH MOUNTED AT FAN (TYPICAL FOR 3L ONLY EP-1 IS TO BE INTERLOCKED WITH AQ-1. SEE MECHANICAL DRAWINGS FOR DETAILS).
  - 24V SMOKE DETECTOR IN SUPPLY DUCT. PROVIDE 120/24V LOW VOLTAGE TRANSFORMER AND CONNECT AS REQUIRED.
  - PANEL LOCATED AT FLOOR BELOW.
  - WEATHERPROOF 800V, 30A NON-FUSED DISCONNECT SWITCH MOUNTED ON HOT WATER PUMP.
  - 1/2" - 3/16" x 1/16 GND.

REVISIONS

NO.	DATE	DESCRIPTION



NORTH  
 NOT TO SCALE  
**ROOF KEY PLAN**

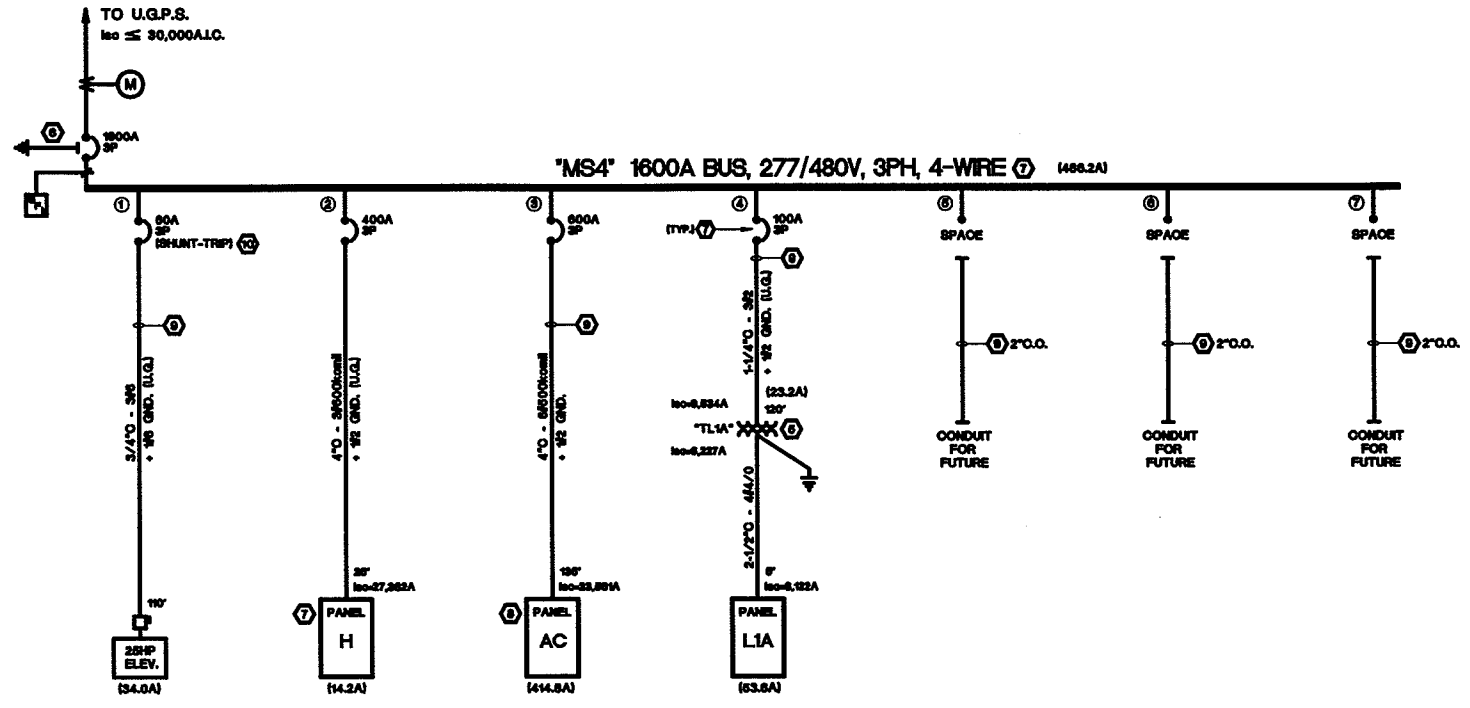
**CABRILLO BUSINESS PARK BUILDING NO. 4**

6767 HOLLISTER AVE. GOLETA, CA

**ROOF PLAN**

Date: **18-NOV-09**  
 Job: **SE20003**  
 Drawn by: **SE**  
 Sheet :





- NOTES:**
- ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED FOR MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED (4,000A MINIMUM FOR 277/480V AND 10,000A MINIMUM FOR 120/208V). THE CONTRACTOR MAY SUBMIT AN ALTERNATE BID FOR SERIES RATED EQUIPMENT, BUT MUST INCLUDE THE COSTS FOR RE-ENGINEERING AND APPROVALS IN THE PRICE.
  - THE SWITCHBOARD IS LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL ONLY. A LABEL WARNING OF POSSIBLE ARC FLASH HAZARD SHALL BE ADDED TO MEET THE REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE (CEC ARTICLE 110.16).
  - NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN SIX FEET OF THE FLOOR, OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF THE ELECTRICAL EQUIPMENT (PER CEC ARTICLE 110.26).
  - ALL FEEDER AND BRANCH CIRCUIT TERMINATIONS SHALL BE RATED AT 75% MINIMUM.
  - 75KVA, 480-120/208V, 3-PHASE TRANSFORMER WITH 1/2\"/>

**"MS4" LOAD SUMMARY:**

① ELEVATOR	34.0A
② PANEL "H"	14.2A
③ PANEL "AC"	414.8A
④ XFMR "TL1A"	23.2A
⑤ SPACE	0.0A
⑥ SPACE	0.0A
⑦ SPACE	0.0A
<b>TOTAL</b>	<b>486.2A</b>

**SINGLE LINE DIAGRAM**  
 NOT TO SCALE

**SHORT CIRCUIT CALC'S BASED ON BUSBAR'S POINT-TO-POINT METHOD:**

Inc S.I.G.P.S.I = 30,000A (PER 802)

Hs 25FT. OF 2500kcmil  
 $f = \frac{25 \times 1.732 \times 30,000}{(480 \sqrt{3} \times 2500)} = 0.0964$

Inc B6 =  $\frac{30,000A}{1.0964} = 27,362A$

Ac 150FT. OF 2500kcmil  
 $f = \frac{150 \times 1.732 \times 30,000}{(480 \sqrt{3} \times 2500 \times 100)} = 0.3733$

Inc UACI =  $\frac{30,000A}{1.3733} = 21,891A$

TL1A 120FT. OF 18  
 $f = \frac{120 \times 1.732 \times 30,000}{(480 \sqrt{3} \times 18 \times 100)} = 3.1467$

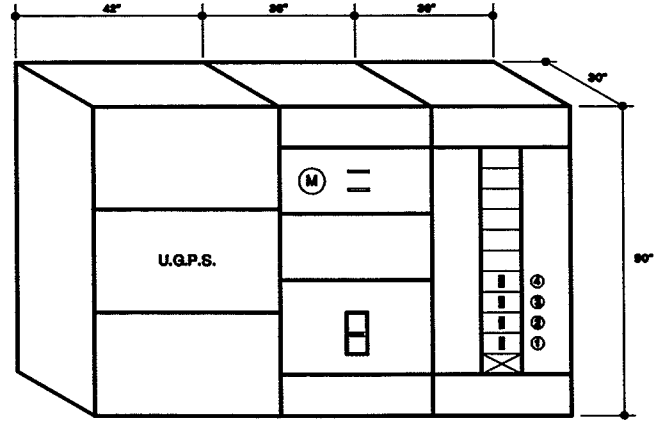
Inc (TL1A) =  $\frac{30,000A}{3.1467} = 9,534A$

TL1A 75KVA, 480-120/208V, 3p, 2.4%Z  
 $f = \frac{9,534 \times 480 \sqrt{3} \times 2.4}{100,000 \times 75 \times 10^3} = 2.6994$

Inc (TL1A-802) =  $\frac{(9,534 \times 2.4)}{(208 \sqrt{3} \times 2.6994)} = 6.327A$

L1A 8FT. OF 1/4\"/>
 $f = \frac{8 \times 1.732 \times 6.327}{(208 \sqrt{3} \times 0.08)} = 0.0172$

Inc S.I.A) =  $\frac{6.327A}{1.0172} = 6.222A$



**SWITCHBOARD 'MS4' ELEVATION**  
 NOT TO SCALE

REVISIONS

NO.	REVISION

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE.  
 GOLETA, CA

**SERVICE DETAILS**

Date: **18-NOV-09**  
 Job: **SE20003**  
 Drawn by: **SE**  
 Sheet :



REVISIONS  
 NO. DATE BY

Revisions

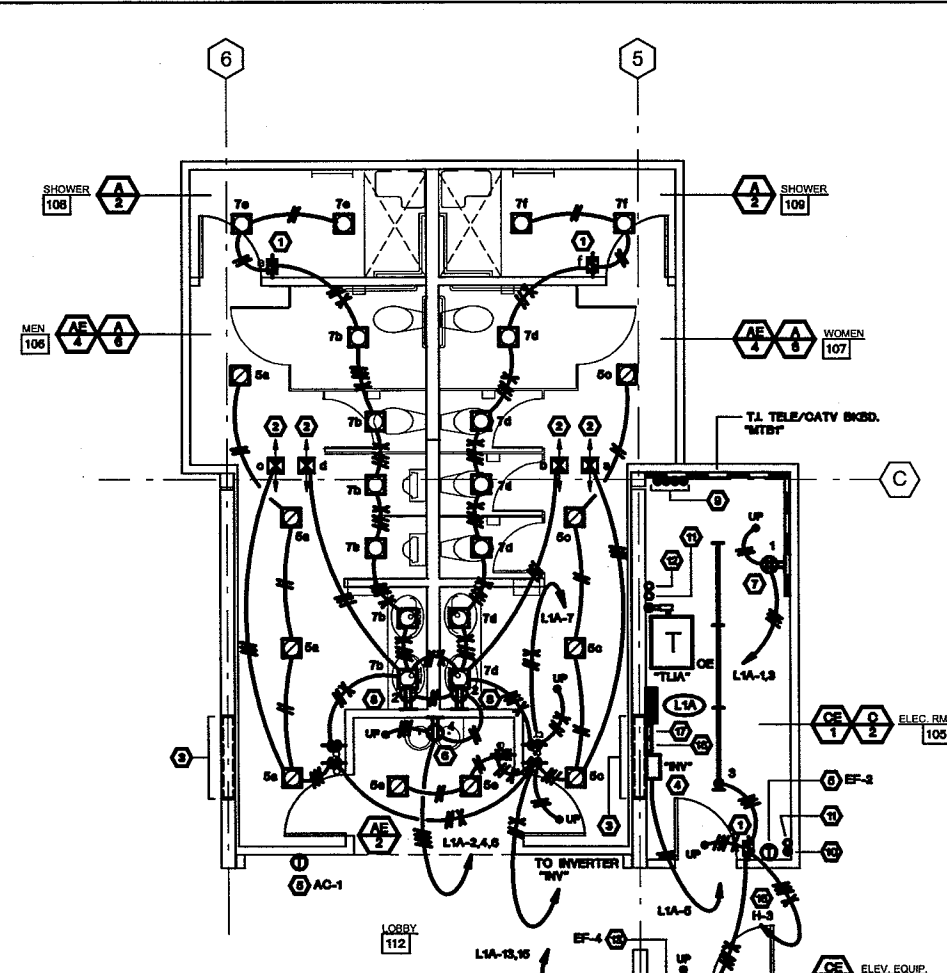

**CABRILLO BUSINESS PARK BUILDING NO. 4**

6767 HOLLISTER AVE. GOLETA, CA

**DETAILS**

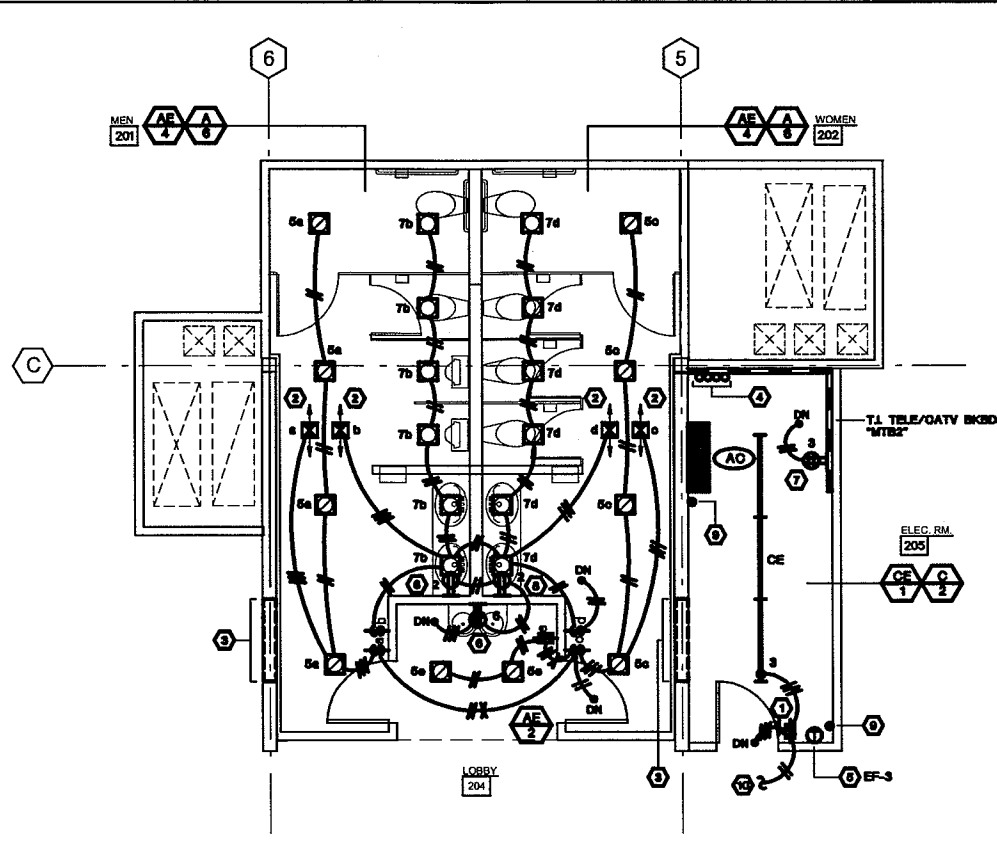
Date: **18-NOV-09**  
 Job: **8E20003**  
 Drawn by: **SE**  
 Sheet :

**E-6.0**

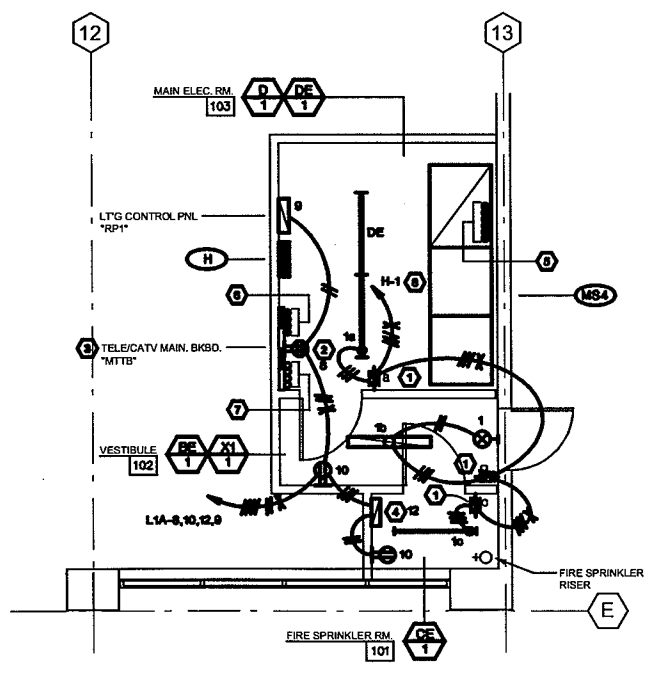


- NOTES:**
- SINGLE-LEVEL OCCUPANCY SENSOR WALL SWITCH (WATTSTOPPER DW-100-W).
  - LINE-VOLTAGE ULTRASONIC OCCUPANCY SENSOR (WATTSTOPPER UT-365-S) MOUNTED ON A 4/8" DEEP BOX FLUSH WITH THE CEILING. THE WALL SWITCHES IN THE ROOM SHALL BE SLAVE TO THE SENSOR.
  - GENERAL CONTRACTOR SHALL PROVIDE AN OPENING IN THE SHEAR WALL, 12" HIGH x 48" WIDE (9'-0" TO BOTTOM OF OPENING, FOR FUTURE CONDUIT PATH). VERIFY LOCATION WITH ARCHITECT.
  - EMERGENCY POWER INVERTER FOR LED LIGHT FIXTURES. INVERTER BY GUTH LIGHTING - #RCOF-350.
  - SINGLE-GANG FLUSH BOX FOR THERMOSTAT WITH 1/2" O.D. (WITH PULLROPE) TO HVAC UNIT OR EXHAUST FAN AT ROOF. VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
  - 120V, 20A RATED GFI DUPLEX RECEPTACLE.
  - 120V, 20A RATED DOUBLE DUPLEX RECEPTACLE.
  - 120V, 15A RATED GFI DUPLEX RECEPTACLE AT +48" ABOVE FINISHED FLOOR (N.L.).
  - STUB AND CAP (4) 2" O.D. (WITH PULLSTRING) FOR TELEPHONE AND CATV (N.L.).
  - STUB AND CAP (8) 2" O.D. WITH PULLSTRING FOR FUTURE POWER (N.L.).
  - (4) 2" O.D. (WITH PULLSTRING) UP TO ELECTRICAL ROOM AT FLOOR ABOVE (N.L.).
  - FEEDEE FOR PANEL "AO" UP TO ELECTRICAL ROOM AT FLOOR ABOVE (N.L.).
  - SINGLE-GANG FLUSH BOX FOR THERMOSTAT TO CONTROL EXHAUST FAN. VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
  - 600V, 60A, 3P, 80AF WALL MOUNTED ADJACENT TO THE ELEVATOR EQUIPMENT. PROVIDE ALL DEVICES, CONDUIT AND WIRE AND MAKE ALL CONNECTIONS NECESSARY FOR POWER AND CONTROL OF ELEVATOR. VERIFY REQUIREMENTS WITH ELEVATOR EQUIPMENT CONTRACTOR.
  - CONNECT TO FIRE/SMOKE DAMPER AS REQUIRED. VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
  - ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL "RPT". EXIT SIGNS AND EMERGENCY BALLASTS SHALL BYPASS ALL LIGHTING CONTROLS. SEE SHEET E-6.1 FOR WIRING DIAGRAM OF "RPT".
  - SINGLE-POLE NORMALLY OPEN RELAY WITH 120V COIL. VERIFY VOLTAGE OF ELEVATOR SMOKE DETECTOR AND SHUNT-TRIP DEVICE AND PROVIDE COMPLETE SYSTEM FOR PROPER SHUT DOWN OF ELEVATOR POWER. CONNECT TO SHUNT-TRIP CIRCUIT BREAKER, SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM AND SHUNT, TRANSFORMER (IF REQUIRED) AND CIRCUIT L1A-17A.
  - LOAD No. GR2404-EX1. SLAVE LIGHTING CONTROL RELAY PANEL MOUNTED NEAR PANEL "L1A". ROUTE SIGN CIRCUITS (3) THROUGH RELAYS. PROVIDE 1" - 60AT-5 CABLE TO "RPT". CONNECT POWER SUPPLY TO "L1A-1".

**2 ENLARGED ROOMS #105,106,107,108,109,110**  
 SCALE 1/4" = 1'-0"



**3 ENLARGED ROOMS #201,202,205**  
 SCALE 1/4" = 1'-0"



**1 ENLARGED ROOMS #101,102,103**  
 SCALE 1/4" = 1'-0"

- NOTES:**
- SINGLE-LEVEL OCCUPANCY SENSOR WALL SWITCH (WATTSTOPPER DW-100-W).
  - 120V, 20A RATED DOUBLE DUPLEX RECEPTACLE.
  - 4'-0" x 6'-0" x 3/4" PLYWOOD TELEPHONE BACKBOARD WITH 1/2" - 96 GROUND (SOLID COPPER, NOT STRANDED) TO THE BUILDING MAIN GROUNDING POINT PER VERIZON REQUIREMENTS.
  - CONNECT TO FIRE SPRINKLER CONTROL PANEL AS REQUIRED (N.L.). PROVIDE 3/4" O.D. TO A SINGLE-GANG BOX FOR KEYPAD (N.L.), A 3/4" O.D. TO A SINGLE-GANG BOX FOR A MANUAL PULLSTATION (N.L.), A 3/4" O.D. LOOPED TO FLUSH SINGLE GANG BOXES ON EACH FLOOR (N.L.), A 3/4" O.D. TO THE MAIN TELEPHONE BACKBOARD, 1/2" - 96 + 3/4" O.D. TO A 4/8" DEEP BOX AT THE FIRE SPRINKLER RISER (N.L.), 1/2" - 96 TO THE EXTERIOR FIRE SIBL (N.L.) AND A 3/4" O.D. (PVC UNDERGROUND) TO A SINGLE-GANG FB BOX AT THE BACKFLOW PREVENTER FOR POST INDICATOR VALVE (N.L.). ALL EMPTY CONDUITS SHALL HAVE A PULLROPE.
  - (8) 4" O.D. PVC SCHEDULE 40I FOR POWER WITH 30" MINIMUM COVER PER BOE STANDARD REQUIREMENTS. INTERCEPT EXISTING (6) CONDUITS AND EXTEND AS REQUIRED. VERIFY LOCATION IN FIELD.
  - (2) 4" O.D. PVC SCHEDULE 40I FOR GATV SERVICE WITH 30" MINIMUM COVER PER RESPECTIVE UTILITY COMPANY. PROVIDE EACH CONDUIT WITH PULLROPE. ELECTRICAL CONTRACTOR SHALL VERIFY SIZE OF WORKING UTILITY SERVICE CONDUITS AND INTERCEPT AND EXTEND AS REQUIRED.
  - (2) 4" O.D. PVC SCHEDULE 40I FOR TELEPHONE AND (2) 4" O.D. (PVC SCHEDULE 40I FOR CATV SERVICE TO TELE/CATV BACKBOARD "MTB" AT ROOM 108. PROVIDE EACH CONDUIT WITH PULLROPE.
  - ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROL PANEL "RPT". EXIT SIGNS AND EMERGENCY BALLASTS SHALL BYPASS ALL LIGHTING CONTROLS. SEE SHEET E-6.1 FOR WIRING DIAGRAM OF "RPT".

### CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

PROJECT ADDRESS: **6767 HOLLISTER AVENUE, GOLETA, CA**

PRINCIPAL DESIGNER/LIGHTING: **MICHAEL J. SILVER** TELEPHONE: **818798-0900** Building Permit # \_\_\_\_\_

DOCUMENTATION AUTHOR: **MICHAEL J. SILVER** TELEPHONE: **818798-0900** Checked by: **[Signature]** Enforcement Agency Use

---

**GENERAL INFORMATION**

DATE OF PLANS: **18-NOV-08** BUILDING CONDITIONED FLOOR AREA: **87,798 SQ. FT.** CLIMATE ZONE: \_\_\_\_\_

BUILDING TYPE:  NONRESIDENTIAL  HIGH RISE RESIDENTIAL  HOTEL/MOTEL/GUEST

CONDITIONED SPACES  UNCONDITIONED SPACES  INDOOR/OUTDOOR SIGNS

PHASE OF CONSTRUCTION:  NEW CONSTRUCTION  ADDITION  ALTERATION

METHOD OF LIGHTING COMPLIANCE:  PERFORMANCE  COMPLETE BUILDING  AREA CATEGORY  TAILORED  COMMON LIGHTING

---

**STATEMENT OF COMPLIANCE**

This Certificate of Compliance lists the building features and performance specifications that comply with Title 24, Parts 1 and 8 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR: **MICHAEL J. SILVER** SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 115, 120, 125, 146, 148, and 149 of Title 24, Part 1.

The plans & specifications meet the requirements of Part 8 (Sections 10-102a)  The installation certifies meet the requirements of Part 8 (Sections 10-103a 3)

The operation & maintenance information meet the requirements of Part 8 (10-103b). Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

I affirm 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 or electrical engineer, or as a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing the work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER: **MICHAEL J. SILVER** SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_ LIC. #: **E1077**

---

**LIGHTING MANDATORY MEASURES**

Indicate location on plans of Note Block for Mandatory Measures **E-7.1**

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**LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)**

<input checked="" type="checkbox"/>	LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance, Part 1 of 4 and 2 of 4 are required for all submits
<input checked="" type="checkbox"/>	LTG-1-C, Part 3 of 4	Certificate of Compliance, Part 3 of 4 submit is required only if Control Credits are claimed
<input checked="" type="checkbox"/>	LTG-1-C, Part 4 of 4	Certificate of Compliance, Part 4 of 4 submit is required when lighting controls are installed
<input checked="" type="checkbox"/>	LTG-2-C	Interior Lighting Schedule
<input type="checkbox"/>	LTG-3-C	Portable Lighting Worksheet
<input checked="" type="checkbox"/>	LTG-4-C	Lighting Control Credit Worksheet
<input checked="" type="checkbox"/>	LTG-5-C	Interior Lighting Power Allowance
<input type="checkbox"/>	LTG-6-C	Tailored Method Worksheet
<input type="checkbox"/>	LTG-7-C	Room Cavity Ratio Worksheet
<input type="checkbox"/>	LTG-8-C	Common Lighting System Method Worksheet
<input type="checkbox"/>	LTG-9-C	Live Voltage Track Lighting Worksheet
<input type="checkbox"/>	OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

2005 Nonresidential Compliance Forms April 2005

### CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

**Designer:**

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parenthesis. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow responsible party to budget for the scope of work appropriately.

**Building Departments:**

Systems Acceptance. Before an occupancy permit is granted for newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MCH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 8.

---

**Test Description** | **Test Performed By:**

<input checked="" type="checkbox"/>	LTG-2-A: Lighting Control Acceptance Document	
<ul style="list-style-type: none"> <li>Occupancy Sensor Acceptance</li> <li>Manual Daylight Controls Acceptance</li> <li>Automatic Time Switch Control Acceptance</li> </ul>		<b>OCCUPANCY SENSORS</b>
Equipment requiring acceptance testing: _____		
<input type="checkbox"/>	LTG-3-A: Automatic Daylight Controls Acceptance Document	
Equipment requiring acceptance testing: _____		

2005 Nonresidential Compliance Forms April 2005

### CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

#### INSTALLED INTERIOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	<b>2,424.0</b>
PORTABLE LIGHTING (From LTG-3-C)	<b>+ 0.0</b>
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	<b>- 208.4</b>
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	<b>= 2,217.8</b>
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	<b>823.0</b>
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	<b>- 82.6</b>
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	<b>= 450.4</b>

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**ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES**

COMPLETE BUILDING METHOD (From LTG-5-C)

AREA CATEGORY METHOD (From LTG-5-C)

TAILORED METHOD (From LTG-5-C)

**ALLOWED LIGHTING POWER: 67,883.4**

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**ALTERNATE COMPLIANCE**

PERFORMANCE METHOD

COMMON LIGHTING SYSTEM (from LTG-6-C)

**ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C): 440.0**

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**MANDATORY LIGHTING MEASURES FOR INTERIOR LIGHTING AND DAYLIT AREAS**

**MANDATORY INTERIOR AND DAYLIGHTING AUTOMATIC CONTROLS**

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	SPACE CONTROLLED (List the location of controlled lights)	✓ If Conformed to for Daylighting	NOTE TO FIELD
ELEC. RM.	T.A.	AUTO TIME SWITCH	SEE LTG PLANS		

2005 Nonresidential Compliance Form April 2005

### INTERIOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

#### INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES

LUMINAIRE	LAMPS/BALLASTS					INSTALLED WATTS				
	A	B	C	D	E	F	G	H	I	J
Name	Type	Description	Lamp Type	No. of Lamp/Luminaire	Watts Per Lamp	No. of Ballast/Luminaire	Watts/Lum.	If CEC Default	No. of Luminaires	Installed Watts (H X J)
A	RECESSED MOUNT.	LED DOWNLIGHT	LED	4	3	1	12	✓	28	336.0
AE	RECESSED MOUNT.	LED DOWNLIGHT	LED	4	3	1	12		20	240.0
BE	WALL MOUNTED	3-LAMP, 4' FLUOR.	FS02T8	2	32	1	63		8	504.0
OE	PEN. MTD., 1-LAMP	4' FLUOR. STRIP	FS02T8	1	32	1	32		42	1,344.0

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**PAGE TOTAL: 2,424.0**

**BUILDING TOTAL (sum of all pages): 2,424.0**

**PORTABLE LIGHTING (From LTG-3-C): 0.0**

**CONTROL CREDIT (From LTG-4-C): 208.4**

**ADJUSTED ACTUAL WATTS: 2,217.8**

2005 Nonresidential Compliance Form April 2005

### CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

#### CONTROLS FOR CREDIT IN CONDITIONED AND UNCONDITIONED SPACES

CONTROL LOCATION (Room # or Dwg #)	CONTROL IDENTIFICATION	CONTROL TYPE (Occ. Sensor, Daylight, Dimming, etc.)	LUMINAIRES CONTROLLED		NOTE TO FIELD
			TYPE	# OF LUMINAIRES	
101		OCCUPANCY SENSOR	OE	1	
102		OCCUPANCY SENSOR	BE	1	
103		OCCUPANCY SENSOR	D/DE	1/1	
104		OCCUPANCY SENSOR	BE	3	
105		OCCUPANCY SENSOR	C/OE	2/1	
106		OCCUPANCY SENSOR	A/AE	6/4	
107		OCCUPANCY SENSOR	A/AE	6/4	
108		OCCUPANCY SENSOR	A	2	
109		OCCUPANCY SENSOR	A	2	
110		OCCUPANCY SENSOR	OE	1	
111		OCCUPANCY SENSOR	BE	2	
112		OCCUPANCY SENSOR	BE	2	
201		OCCUPANCY SENSOR	A/AE	6/4	
202		OCCUPANCY SENSOR	A/AE	6/4	
203		OCCUPANCY SENSOR	OE	1	
206		OCCUPANCY SENSOR	C/OE	2/1	

2005 Nonresidential Compliance Form September 2005

### INTERIOR LIGHTING SCHEDULE (Part 2 of 2) LTG-2-C

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 8, 2008**

#### INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES

LUMINAIRE	LAMPS/BALLASTS					INSTALLED WATTS				
	A	B	C	D	E	F	G	H	I	J
Name	Type	Description	Lamp Type	No. of Lamp/Luminaire	Watts Per Lamp	No. of Ballast/Luminaire	Watts/Lum.	If CEC Default	No. of Luminaires	Installed Watts (H X J)
BE	WALL MOUNTED	3-LAMP, 4' FLUOR.	FS02T8	2	32	1	63	✓	1	63.0
O	PEN. MTD., 1-LAMP	4' FLUOR. STRIP	FS02T8	1	32	1	30		4	120.0
OE	PEN. MTD., 1-LAMP	4' FLUOR. STRIP	FS02T8	1	32	1	32		8	160.0
D	PEN. MTD., 2-LAMP	4' FLUOR. STRIP	FS02T8	2	32	1	67		1	67.0
DE	PEN. MTD., 2-LAMP	4' FLUOR. STRIP	FS02T8	2	32	1	63		1	63.0
E	WALL MOUNTED	INCANDESCENT	A10	1	60	1	60		1	60.0

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**PAGE TOTAL: 823.0**

**BUILDING TOTAL (sum of all pages): 823.0**

**CONTROL CREDIT (From LTG-4-C): 82.6**

**ADJUSTED ACTUAL WATTS: 450.4**

2005 Nonresidential Compliance Form April 2005



5376 N. Sterling Center Drive  
Westlake Village, CA 91361  
Phone 818.706.3997  
Fax 818.706.2455

**Revisions**


**CABRILLO BUSINESS PARK BUILDING NO. 4**

6767 HOLLISTER AVE.  
GOLETA, CA

**TITLE 24 - INTERIOR**

Date: **18-NOV-08**

Job: **SE20003**

Drawn by: **SE**

Sheet: \_\_\_\_\_

E-7.0

**LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C**

CONTROL CREDITS FOR CONDITIONED SPACES  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2008**

A	B	C	D	E	F	G	H	I	J
ROOM # OR UNCONDITIONED SPACE	LIGHTING CONTROL DESCRIPTION	PLANS REFERENCE	ROOM AREA (SQ. FT.)	DAYLIGHTING THROUGH WALLS	DAYLIGHTING THROUGH GLAZING	DAYLIGHTING THROUGH GLAZING	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR <sup>1</sup>	CONTROL POINT WATTS PER SQ. FT.
104	OCCUPANCY SENSOR	E-2.0	250	N/A	N/A	N/A	150	0.2	37.5
106	OCCUPANCY SENSOR	E-2.0	253	N/A	N/A	N/A	120	0.2	24.0
107	OCCUPANCY SENSOR	E-2.0	263	N/A	N/A	N/A	120	0.2	24.0
108	OCCUPANCY SENSOR	E-2.0	72	N/A	N/A	N/A	34	0.2	4.8
109	OCCUPANCY SENSOR	E-2.0	72	N/A	N/A	N/A	34	0.2	4.8
111	OCCUPANCY SENSOR	E-2.0	200	N/A	N/A	N/A	126	0.2	25.2
113	OCCUPANCY SENSOR	E-2.0	250	N/A	N/A	N/A	120	0.2	24.0
201	OCCUPANCY SENSOR	E-2.0	253	N/A	N/A	N/A	120	0.2	24.0
202	OCCUPANCY SENSOR	E-2.0	253	N/A	N/A	N/A	120	0.2	24.0

1) From Equation 146-A  
 2) From Table 146-A  
 PAGE TOTAL: **206.4**  
 BUILDING TOTAL: **206.4**  
 Enter in LTG-2-C: Lighting Control Credit

**LIGHTING CONTROLS CREDIT WORKSHEET (Part 2 of 2) LTG-4-C**

CONTROL CREDITS FOR UNCONDITIONED SPACES  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2008**

A	B	C	D	E	F	G	H	I	J
ROOM # OR UNCONDITIONED SPACE	LIGHTING CONTROL DESCRIPTION	PLANS REFERENCE	ROOM AREA (SQ. FT.)	DAYLIGHTING THROUGH WALLS	DAYLIGHTING THROUGH GLAZING	DAYLIGHTING THROUGH GLAZING	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR <sup>1</sup>	CONTROL POINT WATTS PER SQ. FT.
101	OCCUPANCY SENSOR	E-2.0	40	N/A	N/A	N/A	32	0.2	6.4
102	OCCUPANCY SENSOR	E-2.0	50	N/A	N/A	N/A	68	0.2	13.6
103	OCCUPANCY SENSOR	E-2.0	120	N/A	N/A	N/A	120	0.2	24.0
105	OCCUPANCY SENSOR	E-2.0	100	N/A	N/A	N/A	82	0.2	16.4
110	OCCUPANCY SENSOR	E-2.0	50	N/A	N/A	N/A	32	0.2	6.4
203	OCCUPANCY SENSOR	E-2.0	85	N/A	N/A	N/A	32	0.2	6.4
205	OCCUPANCY SENSOR	E-2.0	100	N/A	N/A	N/A	82	0.2	16.4

1) From Equation 146-A  
 2) From Table 146-A  
 PAGE TOTAL: **82.6**  
 BUILDING TOTAL: **82.6**  
 Enter in LTG-2-C: Lighting Control Credit

**INTERIOR LIGHTING POWER ALLOWANCE LTG-5-C**

PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2008**  
 ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES			
BUILDING CATEGORY (From § 146 Table 146-B)	WATTS PER (SQ. FT.)	COMPLETE BLDG. AREA	ALLOWED WATTS

AREA CATEGORY METHOD - CONDITIONED SPACES			
A	B	C	D
BUILDING CATEGORY (From § 146 Table 146-C)	WATTS PER (SQ. FT.)	AREA (SQ. FT.)	ALLOWED WATTS
SUPPORT AREAS (STAIRS, TOILETS, SHOWER)	0.6	1,674	1,004.4
LOBBY	1.5	1,332	1,998.0
TENANT LEASE SPACE	1.0	54,953	54,953.0
TOTALS		57,959	57,994.4

TOTAL ALLOWED WATTS (From LTG-4-C):

UNCONDITIONED SPACES			
A	B	C	D
Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	WATTS PER (SQ. FT.)	AREA (SQ. FT.)	ALLOWED WATTS
ELEC. RMs., ELEV. ED. RM., FIRE SPRINKLER RM.	0.7	630	371.0
SUPPORT AREAS (LANTOR, VESTIBULE)	0.6	115	69.0
TOTALS		645	440.0

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-4-C)



**JDO Dyer**  
 5378 N. Sterling Center Drive  
 Westlake Village, CA 91361  
 Phone 818. 706. 3997  
 Fax 818. 706. 2433

Revisions

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**MANDATORY MEASURES - INTERIOR LIGHTING**

- BUILDING LIGHTING SHUT-OFF**  
 The building lighting shut-off system consists of an automatic time switch, with a zone for each floor; or the building is separately metered and exempt from the shut-off requirement.
- VERRIDE FOR BUILDING LIGHTING SHUT-OFF**  
 The automatic building shut-off system is provided with a manual accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
- AUTOMATIC CONTROL DEVICES CERTIFIED**  
 All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
- FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED**  
 All fluorescent ballasts subject to certification and specified for the projects are certified.
- INDIVIDUAL ROOM/AREA CONTROLS**  
 Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.
- UNIFORM REDUCTION FOR INDIVIDUAL ROOMS**  
 All rooms and areas greater than 100 square feet and more than 0.8 watts per square feet of lighting load shall be controlled with multi-level switching for uniform reduction of lighting within the room.
- DAYLIGHT AREA CONTROL**  
 All rooms that are greater than 250 square feet and contain windows and skylights, that allow for the effective use of daylight in the area shall have 50% of the lighting power in each daylight area controlled by a separate switch, or  
 The effective use of daylight throughout cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of year is included on plans.

**FIXTURE SCHEDULE**

TYPE	MANUFACTURER	CATALOG NO.	MOUNTING			TOTAL WATTS	NO. LAMPS	LAMP TYPE	REMARKS
			SURF	REC	WALL				
A	OSRE	L180-G124-L18WH-R08				12	—	3600K LED	①
AB	OSRE	L180-G124-L18WH-R08				12	—	3600K LED	①
BE	LITHONIA	CA-232-MVOLT-GE310RS-EL14				63	2	FOSETA/836	②
O	LITHONIA	C-123-MVOLT-GE310RS				30	1	FOSETA/836	②
OE	LITHONIA	C-123-MVOLT-GE310RS-EL				32	1	FOSETA/836	②
D	LITHONIA	C-232-MVOLT-GE310RS				67	2	FOSETA/836	②
DE	LITHONIA	C-232-MVOLT-GE310RS-EL14				63	2	FOSETA/836	②
E	(ANY)	BEYLESS				60	1	A19	
G	KIM	2086-70M4277/ED7-08			IN - GRADE	66	1	70M/ED7	③
H	AAL	PM16X-100M2ES-DEZ-DM0J				115	1	100M/ED7	④
L	AAL	AM16X-100M2ES-100M-277V				115	1	100M/ED7	④
M	BESA	2056P-277V				43	1	39W CFL	⑤
N	BESA	2056P-277V				43	1	39W CFL	⑤
YI	LITHONIA	L0M-SW-1-R-20/277-ELH				30	—	INCL.	⑥
Y2	LITHONIA	L0M-SW-3-R-20/277-ELH				30	—	INCL.	⑥

- ①- FIXTURE WITH INTEGRAL BATTERY PACK.
- ②- ALL FLUORESCENT FIXTURE BALLASTS SHALL HAVE A MINIMUM 0.88 BALLAST FACTOR UNLESS OTHERWISE NOTED.
- ③- PROVIDE FIXTURE WITH EMERGENCY BATTERY PACK.
- ④- THE 2-LAMP BALLAST SHALL BE "PARALLEL LAMP OPERATION" TYPE EMERGENCY POWER PACK AND BALLAST COMBINATION 90 MINUTE OPERATION, 1400 LUMENS MINIMUM FOR EMERGENCY EGRESS LIGHTING.
- ⑤- VERIFY FINISH WITH OWNER.
- ⑥- BOTTOM OF LIGHT FIXTURE IS 20" ABOVE FINISHED GRADE.
- ⑦- CENTER OF LIGHT FIXTURE IS 24" ABOVE FINISHED WALKWAY GRADE.
- ⑧- BOTTOM OF LIGHT FIXTURE IS 24" ABOVE FINISHED GRADE.
- ⑨- BOTTOM OF LIGHT FIXTURE IS 20"-0" ABOVE FINISHED WALKWAY GRADE.

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE.  
 GOLETA, CA

TITLE 24 - INTERIOR

Date: **18-NOV-08**  
 Job: **SE20003**  
 Drawn by: **SE**  
 Sheet :

**CERTIFICATE OF COMPLIANCE** (Part 1 of 2) **OLTG-1-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
 PROJECT ADDRESS: **6767 HOLLISTER AVENUE, GOLETA, CA**  
 PRINCIPAL DESIGNER LIGHTING: **MICHAEL J. SILVER** TELEPHONE: **(818) 786-6900**  
 DOCUMENTATION AUTHOR: **MICHAEL J. SILVER** TELEPHONE: **(818) 786-6900**  
 GENERAL INFORMATION  
 DATE OF PLANS: **NOV. 18, 2008** OUTDOOR LIGHTING ZONE: (✓) **OW**  L1  L2  L3  L4  
 FUNCTION TYPE:  OUTDOOR LIGHTING  OUTDOOR SIGNS  INDOOR SIGNS  
 PHASE OF CONSTRUCTION:  NEW CONSTRUCTION  ADDITION  ALTERATION

**STATEMENT OF COMPLIANCE**  
 This Certificate of Compliance lists outdoor lighting system specifications need to comply with Title 24, Parts 1 and 8 of the California Code of Regulations. This certificate applies only to building lighting requirements. The documentation prepared hereby certifies that the documentation is accurate and complete.  
 DOCUMENTATION AUTHOR: **MICHAEL J. SILVER** SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 I hereby affirm 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 or electrical engineer, or I am a licensed architect.  
 I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 8737.3 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 the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 8737.1.  
 (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)  
 PRINCIPAL LIGHTING DESIGNER NAME: **MICHAEL J. SILVER** SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_ LIC. # **811077**

**INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (✓ box if worksheet is incl.)**  
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.  
 **OLTG-1-C** Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.  
 **OLTG-2-C** LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (except for signs).  
 **OLTG-3-C** AREA CALCULATIONS WORKSHEETS. Applicable Parts required for all outdoor area calculations.  
 **OLTG-4-C** SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

**LIGHTING COMPLIANCE SUMMARY** (Part 1 of 4) **OLTG-2-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
 LIGHTING POWER ALLOWANCES- GENERAL SITE ILLUMINATION (TABLE 147-A)

LIGHTING APPLICATIONS CATEGORY (Table 147-A)	ALLOWED WATTS				LUMINAIRE CODE FOR LUMIN. TYPE	DESCRIPTION	LAMP TYPE	LAMP/BALLASTS				INSTALLED WATTS			
	A	B	C	D				H	I	J	K	L	M	N	O
<b>ENTRANCE</b>	<b>1080</b>	<b>0.7</b>	<b>786.0</b>		<b>H</b>	<b>WALL MTD HLD.</b>	<b>FULL</b>	<b>HLD.</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>116</b>	<b>0</b>	<b>890.0</b>	
<b>TOTAL ALLOTTED WATTS</b> <b>786.0</b>														<b>890.0</b>	

2005 Nonresidential Compliance Form September 2005

**LIGHTING COMPLIANCE SUMMARY** (Part 2 of 4) **OLTG-2-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
 LIGHTING POWER ALLOWANCES- LOCAL ORDINANCE (TABLE 147-C) OR SECURITY MULTIPLIERS (TABLE 147-D)

LIGHTING APPLICATIONS CATEGORY	ALLOWED WATTS				LUMINAIRE CODE FOR LUMIN. TYPE	DESCRIPTION	LAMP TYPE	LAMP/BALLASTS				INSTALLED WATTS			
	A	B	C	D				H	I	J	K	L	M	N	O
<b>WALKWAY</b>	<b>8,683</b>	<b>.17</b>	<b>2</b>	<b>2,982.0</b>	<b>A</b>	<b>NOISE MTD DOWNLIGHT</b>	<b>FULL</b>	<b>LED</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>108.0</b>	
					<b>G</b>	<b>WALL MTD HLD.</b>	<b>FULL</b>	<b>HLD.</b>	<b>1</b>	<b>70</b>	<b>1</b>	<b>86</b>	<b>0</b>	<b>818.0</b>	
					<b>H</b>	<b>WALL MTD HLD.</b>	<b>FULL</b>	<b>HLD.</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>116</b>	<b>10</b>	<b>1,150.0</b>	
					<b>L</b>	<b>CORNER MTD HLD.</b>	<b>FULL</b>	<b>HLD.</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>116</b>	<b>0</b>	<b>890.0</b>	
<b>TOTAL INSTALLED WATTS</b> <b>2,484.0</b>															

CHECKLIST  
 EXCEPTION 1 TO § 147(c)(1) B- There is a law through a local ordinance requiring specific light levels, and therefore, the power allowances in Table 147-C were used.  
 2005 Nonresidential Compliance Form September 2005

**CERTIFICATE OF COMPLIANCE** (Part 2 of 2) **OLTG-1-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
 Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power  
 Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4  
 Not Applicable  
 Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4  
 Not Applicable  
 Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4  
 Not Applicable  
 Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4  
 Not Applicable  
 Sign lighting compliance on OLTG-4-C  
 Not Applicable

**Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment**  
 Installed lighting power has been determined in accordance with § 130(c)(1)  
 Not Applicable  
 All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor § 132(b)  
 Not Applicable  
 All luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of § 132(b)  
 Not Applicable  
 All permanently installed outdoor lighting meets the Control Requirements of § 132(c)(1)  
 Not Applicable  
 Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of § 132(c)(2)  
 Not Applicable

**MANDATORY AUTOMATIC CONTROLS**

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch/Photosensor, etc.)	AREA CONTROLLED	NOTE TO FIELD
<b>ELECTRIC ROOM</b>	<b>T.O.</b>	<b>AUTO TIME SWITCH</b>	<b>BLDG'S EXTERIOR</b>	
		<b>PHOTOSENSOR</b>		

**ILLUMINATED AREA CALCULATION WORKSHEET** (Part 1 of 5) **OLTG-3-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
**HARDSCAPE-METHOD (I)**  
 A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads

A	B	AREAS (F <sup>2</sup> ) TO SUBTRACT FROM WITHIN ILLUMINATED AREA				H
LIST SPECIFIC APPLICATION (Table 147-A)	Actual Paved Area 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides.	OVERLAPPING AREAS OF ANOTHER APPLICATION OR LUMINAIRE	BUILDING AREAS	AREAS OBSTRUCTED BY SIGN OR OTHER STRUCTURE	SUBTOTAL OF AREAS TO SUBTRACT (C + D + E + F)	ILLUMINATED AREA (B - G)

A. Hardscape for pedestrian use, including plazas, sidewalks, walkways and bikeways

A	B	AREAS (F <sup>2</sup> ) TO SUBTRACT FROM WITHIN ILLUMINATED AREA				H
LIST SPECIFIC APPLICATION (Table 147-A)	Actual Paved Area plus 5' of unpaved land on either side of path of travel. Shall include all contiguous paved areas before including adjacent grounds.	OVERLAPPING AREAS OF ANOTHER APPLICATION OR LUMINAIRE	BUILDING AREAS	AREAS OBSTRUCTED BY SIGN OR OTHER STRUCTURE	SUBTOTAL OF AREAS TO SUBTRACT (C + D + E + F)	ILLUMINATED AREA (B - G)
<b>WALKWAY</b>	<b>8,683</b>					<b>8,683</b>

CHECKLIST  
 § 147(c)(1) B- Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.  
 § 147(c)(1) A- General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by a sign or other structure.

**ILLUMINATED AREA CALCULATION WORKSHEET** (Part 2 of 5) **OLTG-3-C**  
 PROJECT NAME: **CABRILLO BUSINESS PARK BLDG. 4** DATE: **JUN. 9, 2009**  
**A. HARDSCAPE-METHOD (II)**  
 Hardscape for driveways, site roads, sidewalks, walkways and bikeways-

A	B
LIST SPECIFIC APPLICATION (Table 147-A)	LENGTH OF 25' WIDE PATH INCORPORATING AS MUCH OF THE PAVED AREA AS POSSIBLE

**B. BUILDING ENTRANCES WITHOUT CANOPIES**

A	B	C
WIDTH OF DOOR PLUS 3 FEET	SMALLER OF 18 FEET OR DISTANCE TO THE EDGE OF THE PROPERTY LINE	AREA (A x B) (F.T. <sup>2</sup> )
<b>12</b>	<b>18</b>	<b>216</b>
<b>12</b>	<b>18</b>	<b>216</b>
<b>12</b>	<b>18</b>	<b>216</b>
<b>12</b>	<b>18</b>	<b>216</b>
<b>12</b>	<b>18</b>	<b>216</b>

CHECKLIST  
 § 147(c)(1) B- Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.  
 § 147(c)(1) A- General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by a sign or other structure.

Revisions

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE. GOLETA, CA

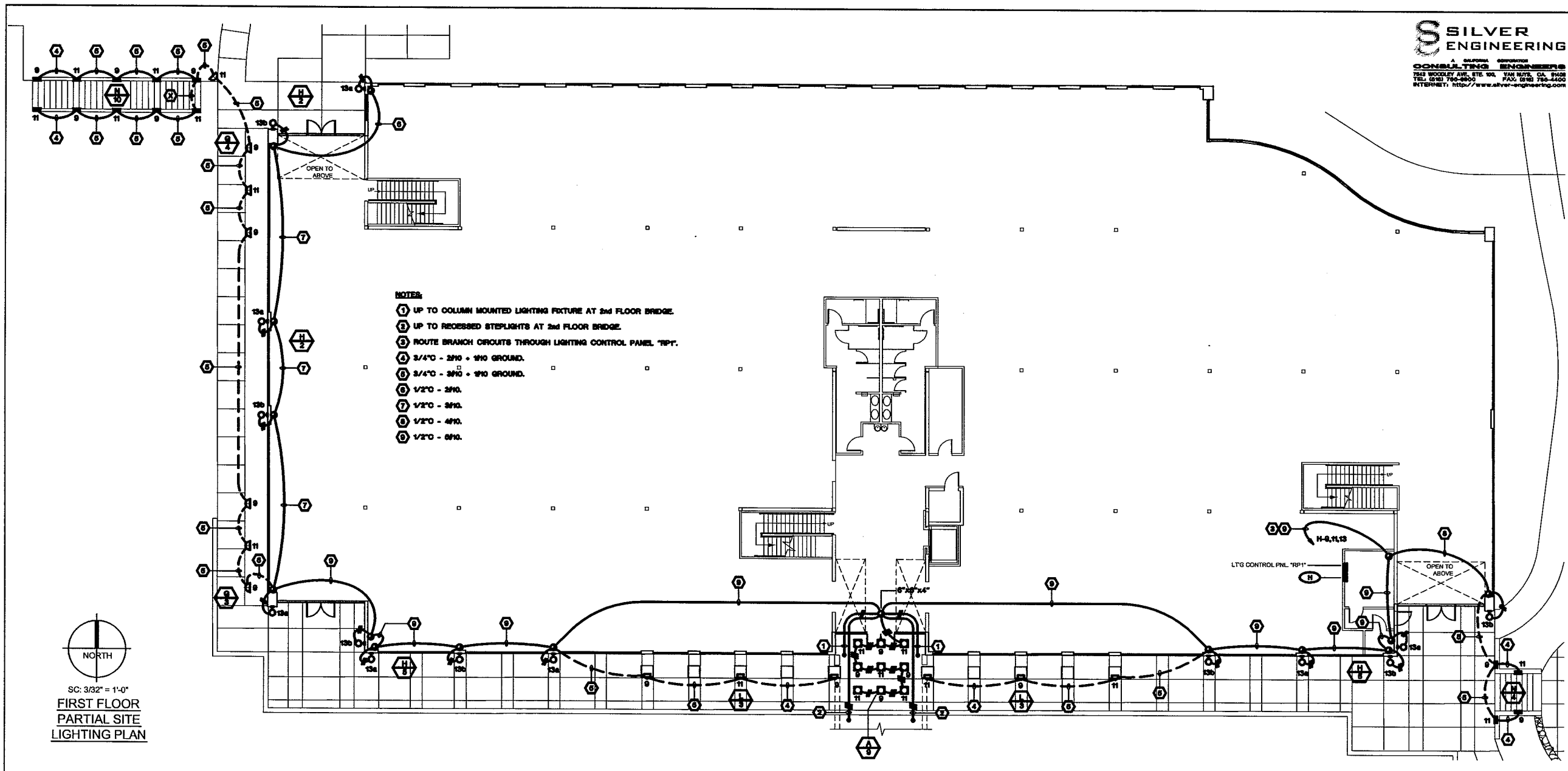
**TITLE 24 - EXTERIOR**

Date: **18-NOV-09**  
 Job: **0820003**  
 Drawn by: **GE**  
 Sheet :



**REVISIONS**

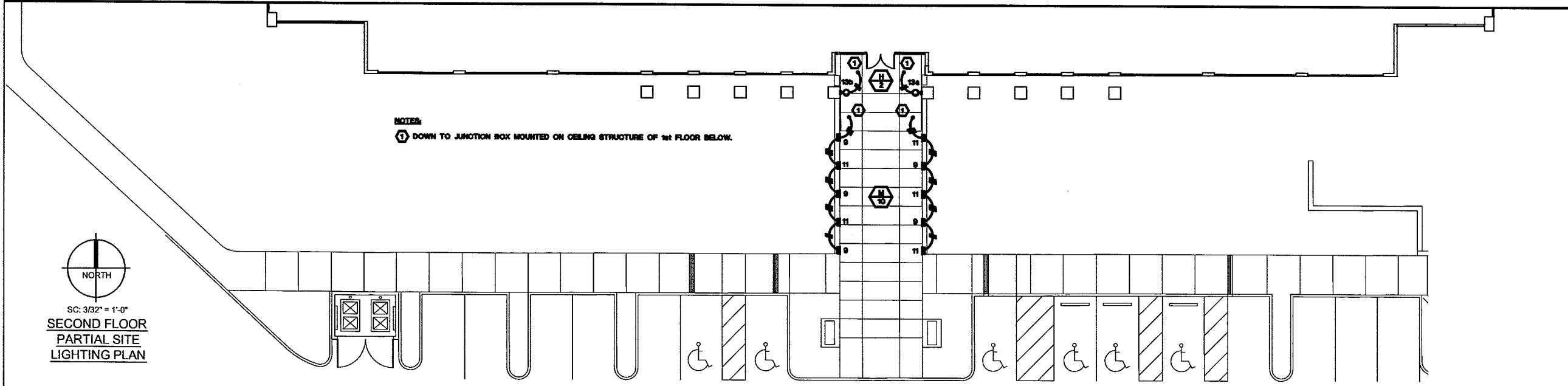
Revisions

- NOTES:**
- ① UP TO COLUMN MOUNTED LIGHTING FIXTURE AT 2nd FLOOR BRIDGE.
  - ② UP TO RECESSED STEPLIGHTS AT 2nd FLOOR BRIDGE.
  - ③ ROUTE BRANCH CIRCUITS THROUGH LIGHTING CONTROL PANEL "RP1".
  - ④ 3/4"Ø - 2'10" - 2'10" GROUND.
  - ⑤ 3/4"Ø - 3'0" - 2'10" GROUND.
  - ⑥ 1/2"Ø - 2'10".
  - ⑦ 1/2"Ø - 2'10".
  - ⑧ 1/2"Ø - 4'10".
  - ⑨ 1/2"Ø - 2'10".

**FIRST FLOOR PARTIAL SITE LIGHTING PLAN**

SC: 3/32" = 1'-0"



- NOTES:**
- ① DOWN TO JUNCTION BOX MOUNTED ON CEILING STRUCTURE OF 1st FLOOR BELOW.

**SECOND FLOOR PARTIAL SITE LIGHTING PLAN**

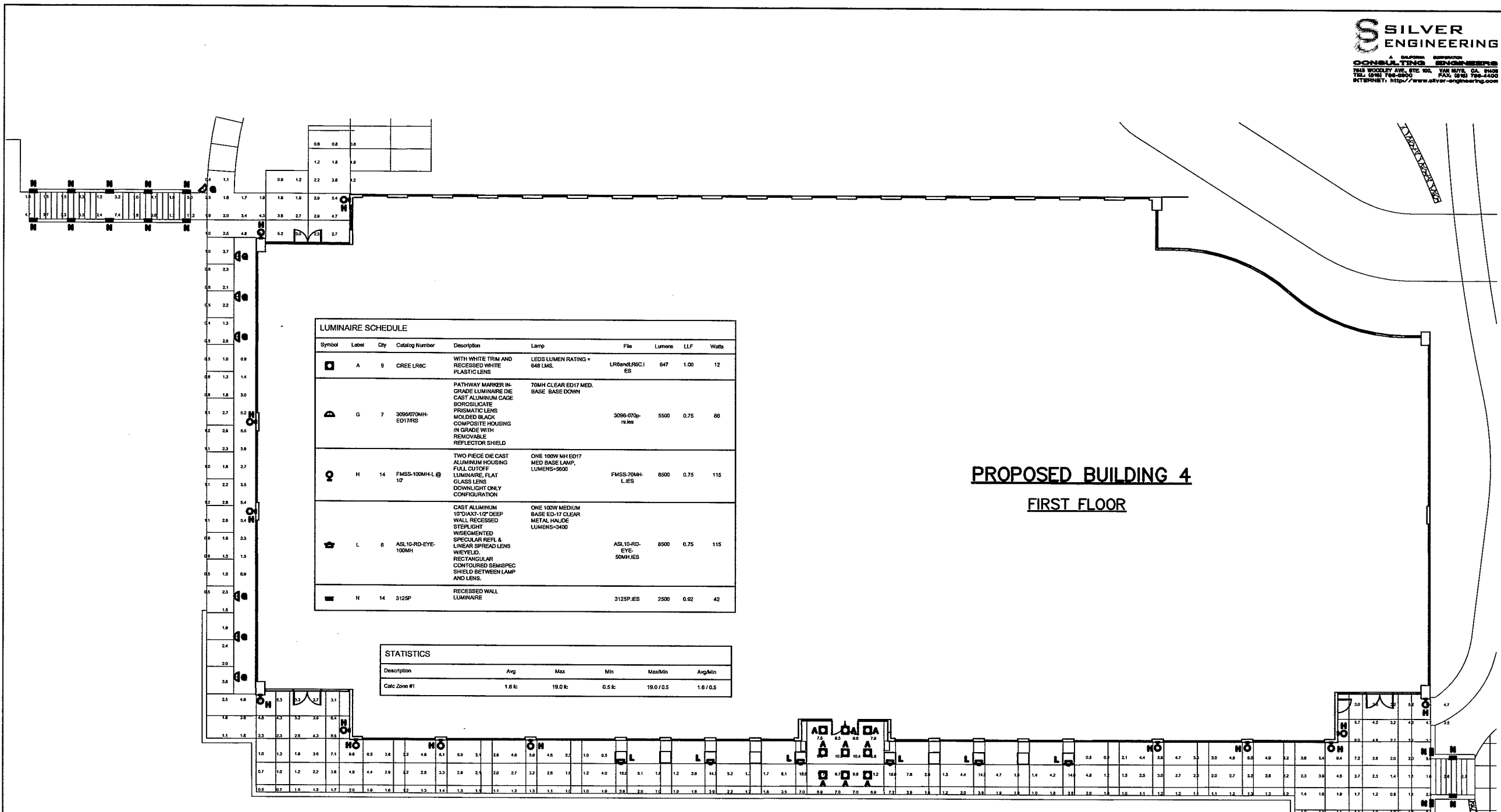
SC: 3/32" = 1'-0"

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE.  
 GOLETA, CA

**PARTIAL SITE LIGHTING PLANS**

Date: **18-NOV-09**  
 Job: **0220003**  
 Drawn by: **GE**  
 Sheet :

**E-8.0**



**PROPOSED BUILDING 4  
 FIRST FLOOR**

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	A	9	CREE LRRC	WITH WHITE TRIM AND RECESSED WHITE PLASTIC LENS	LED'S LUMEN RATING = 648 LMS.	LRRecessLED	647	1.00	12
▲	G	7	3096070MH-ED17RS	PATHWAY MARKER IN-GRADE LUMINAIRE DIE CAST ALUMINUM CASE BOROSILICATE PRISMATIC LENS MOLDED BLACK COMPOSITE HOUSING IN-GRADE WITH REMOVABLE REFLECTOR SHIELD	70MH CLEAR ED17 MED. BASE, BASE DOWN	3096-070p-re.les	5500	0.75	88
○	H	14	FMSS-100MH-L @ 10'	TWO PIECE DIE CAST ALUMINUM HOUSING FULL CUTOFF LUMINAIRE, FLAT GLASS LENS DOWNLIGHT ONLY CONFIGURATION	ONE 100W MH ED17 MED BASE LAMP, LUMENS=5000	FMSS-70MH-LIES	8500	0.75	115
⊞	L	6	ASL10-RD-EYE-100MH	CAST ALUMINUM 10"DIA X 1/2" DEEP WALL RECESSED STEPLIGHT W/SEGMENTED SPECULAR REFL & LINEAR SPREAD LENS W/WEYELD. RECTANGULAR CONTOURED SS/MSPEC SHIELD BETWEEN LAMP AND LENS.	ONE 100W MEDIUM BASE ED-17 CLEAR METAL, HALIDE LUMENS=3400	ASL10-RD-EYE-50MHIES	8500	0.75	115
■	N	14	3125P	RECESSED WALL LUMINAIRE		3125P.IES	2500	0.92	42

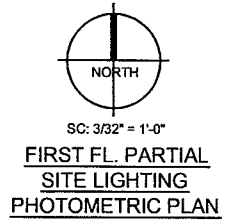
STATISTICS					
Description	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	1.6 fc	19.0 fc	0.5 fc	19.0 / 0.5	1.6 / 0.5

LUMINAIRE LOCATIONS					LUMINAIRE LOCATIONS					LUMINAIRE LOCATIONS				
No.	Label	MH	Orientation	Tilt	No.	Label	MH	Orientation	Tilt	No.	Label	MH	Orientation	Tilt
1	G	0.5	-90.0	0.0	18	A	12.0	0.0	0.0	35	H	10.0	-90.0	0.0
2	G	0.5	-90.0	0.0	19	A	12.0	0.0	0.0	36	H	2.0	0.0	0.0
3	H	10.0	0.0	0.0	20	A	12.0	0.0	0.0	37	N	2.0	0.0	0.0
4	H	10.0	-90.0	0.0	21	A	12.0	0.0	0.0	38	N	2.0	0.0	0.0
5	H	10.0	-90.0	0.0	22	A	12.0	0.0	0.0	39	H	2.0	179.9	0.0
6	H	10.0	180.0	0.0	23	A	12.0	0.0	0.0	40	N	2.0	179.9	0.0
7	H	10.0	-90.0	0.0	24	A	12.0	0.0	0.0	41	N	2.0	179.9	0.0
8	H	10.0	180.0	0.0	25	L	2.5	180.0	0.0	42	H	2.0	-90.0	0.0
9	H	10.0	180.0	0.0	26	L	2.5	180.0	0.0	43	N	2.0	180.0	0.0
10	H	10.0	180.0	0.0	27	L	2.5	180.0	0.0	44	N	2.0	-90.0	0.0
11	H	10.0	180.0	0.0	28	L	2.5	180.0	0.0	45	H	2.0	-0.1	0.0
12	H	10.0	180.0	0.0	29	L	2.5	180.0	0.0	46	N	2.0	0.0	0.0
13	H	10.0	180.0	0.0	30	L	2.5	180.0	0.0	47	N	2.0	179.9	0.0
14	H	10.0	90.0	0.0	31	G	0.5	-90.0	0.0	48	H	2.0	0.0	0.0
15	H	10.0	180.0	0.0	32	G	0.5	-90.0	0.0	49	N	2.0	179.9	0.0
16	A	12.0	0.0	0.0	33	G	0.5	-90.0	0.0	50	G	0.5	130.0	0.0
17	A	12.0	0.0	0.0	34	G	0.5	-90.0	0.0					

Revisions


**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE. GOLETA, CA  
 1st FL. PARTIAL SITE LIGHTING PHOTOMETRIC

Date: **18-NOV-08**  
 Job: **0820003**  
 Drawn by: **GE**  
 Sheet :

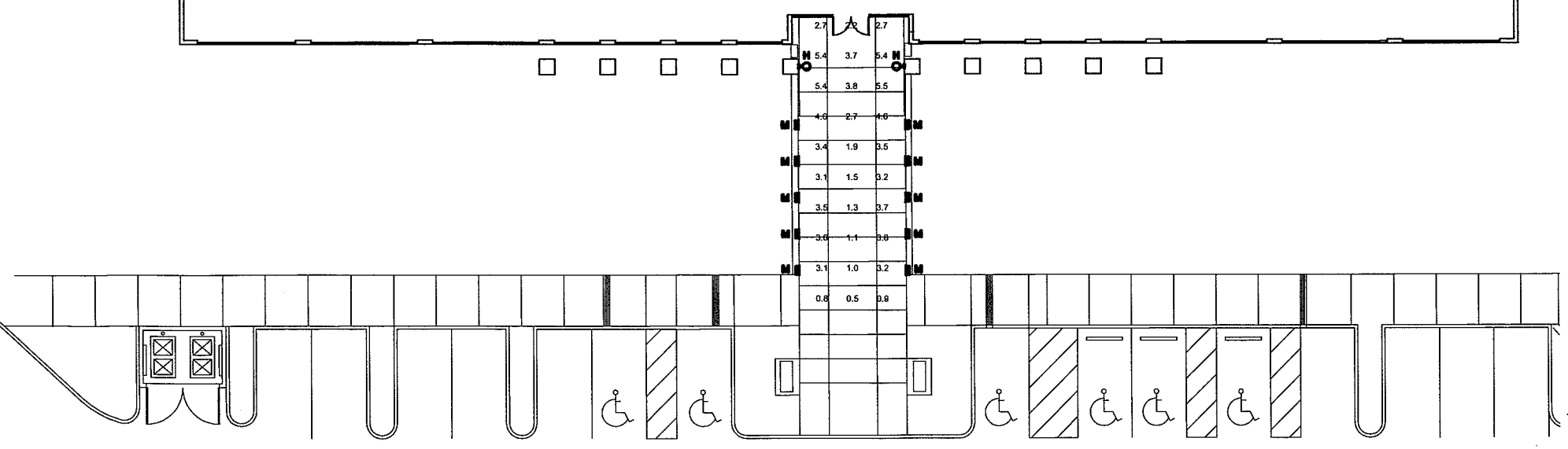


**PROPOSED BUILDING 4**  
**SECOND FLOOR**

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	H	2	FMS-100MH-L @ 10"	TWO PIECE DIE CAST ALUMINUM HOUSING FULL CUTOFF LUMINAIRE, FLAT GLASS LENS, DOWNLIGHT ONLY CONFIGURATION	ONE 100W MH ED17 MED BASE LAMP, LUMENS=9600	FMS-T0MH-LIES	8500	0.75	115
	M	10	202SP @ 8"	RECESSED WALL LUMINAIRE	38WPLL 2011	202SP.IES	2500	0.82	42

LUMINAIRE LOCATIONS				
No.	Label	MH	Orientation	Tilt
1	H	10.0	90.0	0.0
2	M	0.5	90.0	0.0
3	M	0.5	90.0	0.0
4	M	0.5	90.0	0.0
5	M	0.5	90.0	0.0
6	M	0.5	90.0	0.0
7	H	10.0	-90.0	0.0
8	M	0.5	-90.0	0.0
9	M	0.5	-90.0	0.0
10	M	0.5	-90.0	0.0
11	M	0.5	-90.0	0.0
12	M	0.5	-90.0	0.0

STATISTICS					
Description	Avg	Max	Min	Max/Min	Avg/Min
BRIDGE	2.8 fc	5.5 fc	0.5 fc	11.0:1.0	5.8:1.0



**REVISIONS**

Revisions	

**CABRILLO BUSINESS PARK BUILDING NO. 4**  
 6767 HOLLISTER AVE. GOLETA, CA  
**2nd FL. PARTIAL SITE LIGHTING PHOTOMETRIC**

Date: **16-NOV-09**  
 Job: **SE20003**  
 Drawn by: **SE**  
 Sheet :

NORTH  
 SC: 3/32" = 1'-0"  
**SECOND FL. PARTIAL SITE LIGHTING PHOTOMETRIC PLAN**