College of San Mateo

Building 15 Modernization

San Mateo County Community College District

ARCHITECT OF RECORD

noll & tam architects and planners

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
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PROJECT TEAM

Designer / Builder

Pankow Special Projects
2101 Webster Street, Suite 1500
Oakland, CA 94612
Tel: 510.893.5170
FAX: 510.893.8950

Architects

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729 Heinz Avenue, Suite 7
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FAX: 510.649.3008

Structural Engineers

KPFF Consulting Engineers
1160 Battery Street, Suite 300
San Francisco, California 94111
Tel: 415.989.1004
FAX: 415.989.1552

Design-Build Mechanical

ACCO Engineered Systems
1133 Aladdin Avenue
San Leandro, CA 94577
Tel: 510.346.4300
FAX: 510.347.1317

Design-Build Plumbing

L.J. Kruse
920 Pardee Street
Berkeley, CA 94710
Tel: 510.644.0260
FAX: 510.849.9909

Design-Build Electrical

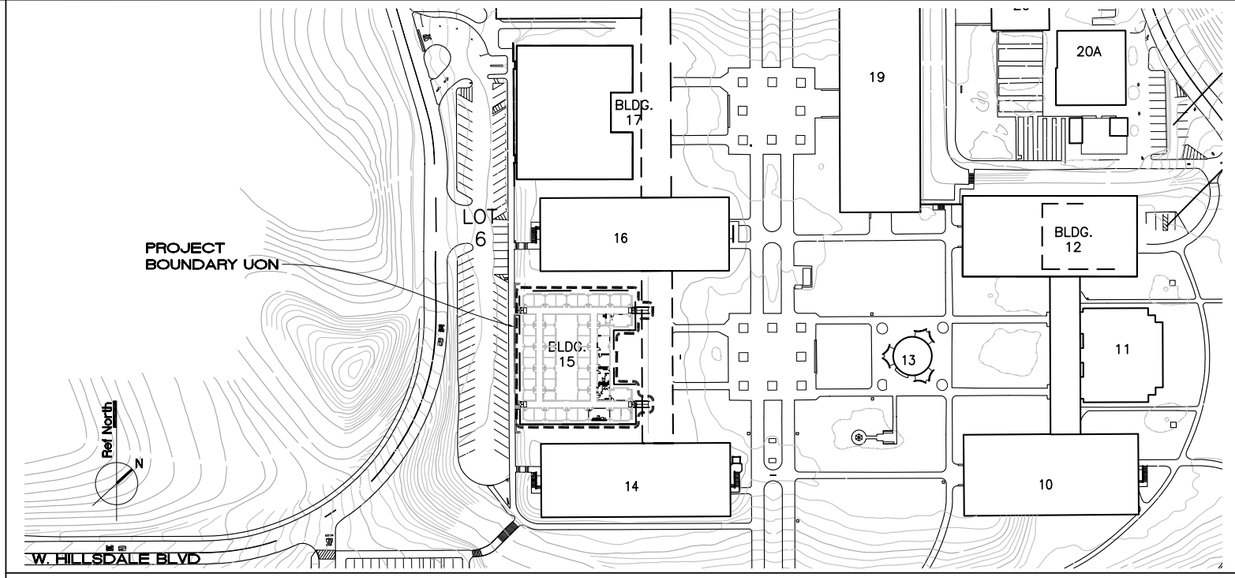
Cupertino Electric, Inc.
1470 Caesar Chavez
San Francisco, CA 94142
Tel: 415.970.3442
FAX: 415.970.3434

LOCAL FIRE AUTHORITY REVIEW

SEE SHEET R-2

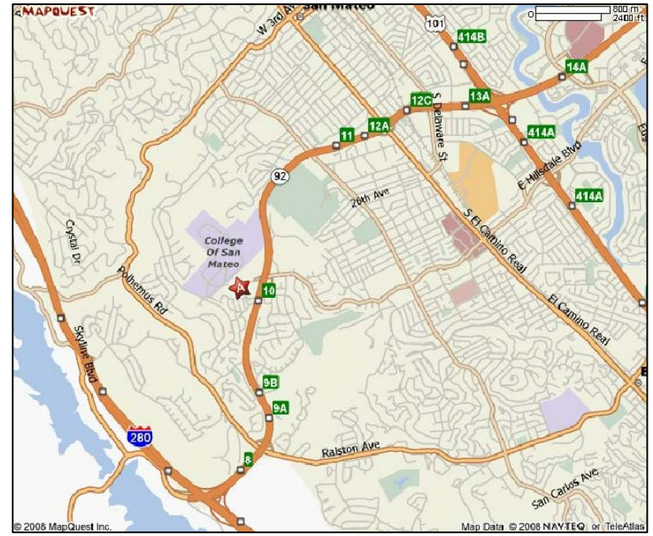
GENERAL SITE PLAN - EXISTING

SCALE: 1" = 120'-0"



VICINITY MAP

NOT TO SCALE



CODE COMPLIANCE

2007 CBC, TITLE 24 CCR (WITH 2007 AMMENDS.)

1. Part 1 Building Standards Administrative Code

   Part 2 California Building Code (CBC)

   Part 3 California Electrical Code (CEC)

   Part 4 California Mechanical Code

   Part 5 California Plumbing Code

   Part 6 California Energy Code

   Part 9 California Fire Code

   Part 12 California Referenced Standards Code

   State Fire Marshal Regulations
   National Reference Standards

ADA Code of Federal Regulations including Amendments
ASD(AISC) Manual of Steel Construction, 9th Edition
ACI-318-95 Code & Commentary
2002 NFPA 13 Installation of Sprinkler Systems
2003 NFPA 14 Installation of Standpipe, Private Hydrant and Hose Systems
2002 NFPA 17A to a UL 300 for Class I Hood Fire Suppression System. (Wet Chemical Extinguishing Systems)
2002 NFPA 24 Installation of Private Fire Service Mains and Their Appurtenances
2002 NFPA 72 National Fire Alarm Code
NFPA 90A, 2002 Edition

CHAPTER 4 PART 1, TITLE 24 C.C.R. ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY)

1. A copy of Parts 1 and 2, Title 24, C.C.R. shall be kept on the job site at all times.
2. All change orders and addend to be signed by the Architect and the Owner and approved by DSA. Change orders are not valid until approved by DSA Section 4-338, Part 1, title 24.
3. All tests to conform to the requirements of Section 4-335, Part 1, Title 24, and approved T & I sheet.
4. Tests of materials and testing laboratory shall be in accordance with Section 4-335 of Part 1, Title 24 and the District shall employ and pay the laboratory. Costs of re-test may be back charged to the Contractor.
5. DSA shall be notified at the start of construction and prior to the placement of concrete per Section 4-331, Part 1, Title 24.
6. Inspector shall be approved by DSA. Inspector shall be in accordance with Section 4-333(b). The duty of the Inspector shall be in accordance with Section 4-342, Part 1, Title 24.
7. Supervision of Construction by DSA shall be in accordance with section 4-334, Part 1, Title 24.
8. Contractor, Inspector, Architect, and Engineers shall submit verified reports(Form SSS-6) in accordance with Section 4-336 and 4-343, Part 1, Title 24.
9. The Architect and the Structural Engineer shall perform their duties in accordance with Section 4-33(a) and 4-341, Part 1, Title 24.
10. The Contractor shall perform his duties in accordance with Section 4-343, Part1, Title 24.
11. The intent of the drawings and specifications is to construct the school building in accordance with Title 24, C.C.R. Should any conditions develop not covered by the contract documents wherein the finished work will not comply with Title 24, C.C.R., a change order detailing and specify the required work shall be submitted to and approved by the Office of Regulation Services before proceeding with the work.

DIVISION OF THE STATE ARCHITECT REQUIREMENTS

1. Addenda and Changes as per Section 4-338.
2. Inspector approved by DSA.
3. Inspector and Continuous inspection of work per Section 4-333(b) and 4-342.
4. Tests and testing laboratory per Section 4-335 (Owner shall pay the testing laboratory).
5. Special inspection per Section 4-333(c).
6. Contractor shall submit verified report per section 4-336 & 4-343 (c).
7. Administration of Construction per Part I, Title 24, C.C.R.
8. Duties of Architect, Structural Engineer, or Professional Engineer per Section 4-333(a) and 4-341.
9. Duties of contractor per Section 4-343.
10. Verified Reports per Section 4-336.
11. A copy of Part 1 & 2 of Title 24, shall be kept and available in field during Construction.
12. DSA shall be notified on start of construction per Section 4-331.
13. Supervision by DSA per Section 4-343.
14. DSA is not subject to Arbitration.

SCOPE OF WORK

BUILDING 15:

1. MODERNIZATION OF EXISTING RESTROOMS
2. DOOR HARDWARE UPGRADES IN HALLWAYS
3. INSTALLATION OF SUSPENDED ACOUSTIC CEILING IN HALLWAYS
4. INTERIOR IMPROVEMENTS TO THE FOLLOWING ROOMS:
   - WORK ROOM 109
   - MEETING ROOM 110
   - DEAN'S OFFICE 113
   - DIVISION OFFICE 115
   - BREAK ROOM 154
5. ENLARGING DOORS TO THE FOLLOWING ROOMS TO BE 3'-0":
   - WORK ROOM 109
   - MEETING ROOM 110
   - DEAN'S OFFICE 113
   - DIVISION OFFICE 115
   - BREAK ROOM 154
   - WOMEN 162
   - MEN 164
6. NEW ENTRANCE DOORS AND RAMP
7. SIGNAGE

ARCHITECT'S STATEMENT

With the exception of the General (G Series) and Architectural (A Series) these drawings and/or specifications and/or calculations for the items listed above have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.

The items listed above have been coordinated with my plans and specifications and are acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge.

The accepted drawings are listed above.

Christopher Noll, Principal — Date
NOLL & TAM Architects

CA License No C15915 — Expiration Date: 12/31/09

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 XXXXX
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DATE

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Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

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BUILDING 15
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San Mateo, CA 94402

College of San Mateo
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SHEET TITLE
Cover Sheet

REVISIONS

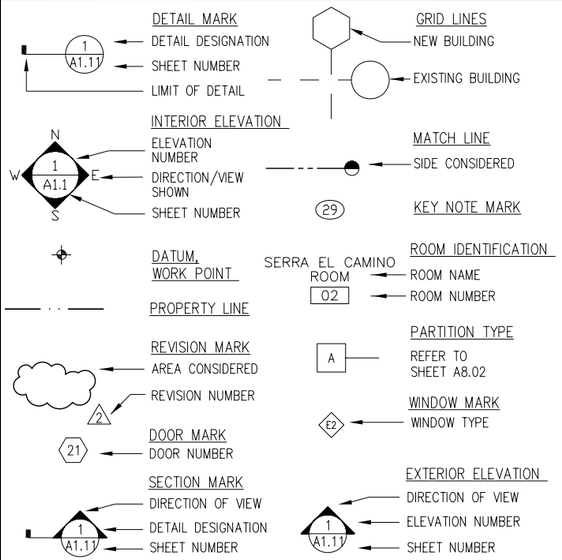
NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	JC
SCALE	NA
N&T JOB NO.:	2901

SHEET NUMBER

COVER

SYMBOLS



GENERAL NOTES

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
2. ALL WORK SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF THE LATEST ADOPTED EDITION AND SUPPLEMENTS OF THE CODES AND REGULATIONS.
3. INFORMATION CONTAINED WITHIN THESE DOCUMENTS SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REFERENCED CODES.
4. CONTRACTOR SHALL EXAMINE THE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY BE FOUND PRIOR TO THE START OF WORK.
5. ALL DETAILS, SCHEDULES, ADDENDA, AND SPECIFICATIONS BOUND SEPARATELY ARE A PART OF THE CONTRACT DOCUMENTS.
6. ITEMS MARKED "N.I.C." ARE NOT IN CONTRACT. SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS WHEN CONTRACTOR'S COORDINATION IS REQUIRED OR FOR CLARIFICATION OF PROJECT LIMITS.
7. DIMENSIONS:
   IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE DRAWINGS.
   ALL DIMENSIONS ARE TO THE ROUGH OPENING UON.
   ALL DIMENSIONS TO STUD WALLS ARE TO THE FACE OF FINISH, UON.
   CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED FACE OF CEILING, UON.
   ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS PRIOR TO PROCEEDING WITH CONSTRUCTION.
   COORDINATE WITH EQUIPMENT CONTRACTORS FOR ROUGH-IN DIMENSIONS AND TEMPLATES.
8. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES, UON.
   WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THE PROJECT.

ABBREVIATIONS

AB	ANCHOR BOLT	E	EAST	INT	INTERIOR	RO	ROUGH OPENING
AC	ASPHALTIC CONC	(E)	EXISTING	JST	JOIST	REV	REVISION
ACC	ACCESS	EA	EACH	JAN	JANITOR	RM	ROOM
ACOUS	ACOUSTICAL	EJ	EXPANSION JOINT	J BOX	JUNCTION BOX	RWL	RAIN WATER LEADER
AD	AREA DRAIN	ELEC	ELECTRICAL	JT	JOINT	S	SOUTH
ADJ	ADJACENT/ADJUSTABLE	ELEV	ELEVATOR/ELEVATION	LAM	LAMINATE	SC	SOLID CORE
AFF	ABOVE FINISHED FLOOR	EP	ELECTRICAL PANEL	LAV	LAVATORY	SCHED	SCHEDULE
AGG	AGGREGATE	EQ	EQUAL	LB	LAG BOLT	SE	STRUCTURAL ENGINEER
ALT	ALTERNATE	EQUIP	EQUIPMENT	LF	LINEAR FEET	SED	SEE ELECTRICAL DRAWINGS
ALUM	ALUMINUM	EWC	ELECTRIC WATER COOLER	LKR	LOCKER	SF	SUPPLY FAN
&	AND	EXH	EXHAUST	LT	LIGHT	SMD	SEE MECHANICAL DRAWINGS
ANOD	ANODIZED	EXP	EXPANSION	MAS	MASONRY	SOG	SLAB ON GRADE
APPROX	APPROXIMATE	EXT	EXTERIOR	MATL	MATERIAL	SS	STAINLESS STEEL
@	AT			MAX	MAXIMUM	SSD	SEE STRUCTURAL DRAWINGS
		FA	FIRE ALARM	MB	MACHINE BOLT	STD	STANDARD
BO	BOTTOM OF	FD	FLOOR DRAIN	MECH	MECHANICAL	SEC	SECTION
BD	BOARD	FDN	FOUNDATION	MFR	MANUFACTURER	SH	SINGLE HUNG
BLDG	BUILDING	FE	FIRE EXTINGUISHER	MH	MANHOLE	SHT	SHEET
BLK	BLOCK	FEC	FIRE EXTINGUISHER CABINET	MIN	MINIMUM	SHTG	SHEATHING
BLKG	BLOCKING	FHC	FIRE HOSE CABINET	MISC	MISCELLANEOUS	SIM	SIMILAR
BM	BEAM	FOC	FACE OF CONCRETE	MTD	MOUNTED	SLD	SEE LANDSCAPE DRAWINGS
BOT	BOTTOM	FOF	FACE OF FINISH	MTL	METAL	SP	STONE PANEL
BUR	BUILT UP ROOFING	FOS	FACE OF STUD	MUL	MULLION	SPEC	SPECIFICATION
CB	CARRIAGE BOLT	FIN	FINISH	N	NORTH	SQ	SQUARE
CE	CIVIL ENGINEER	FIN FLR	FINISHED FLOOR	(N)	NEW	SSK	SERVICE SINK
CER	CERAMIC	FIXT	FIXTURE	NA	NOT APPLICABLE	STL	STEEL
CEM	CEMENT/CEMENTITIOUS	FLR	FLOOR	NIC	NOT IN CONTRACT	STRL	STRUCTURAL
CJ	CONTROL JOINT	FLUOR	FLUORESCENT	NTS	NOT TO SCALE	STOR	STORAGE
CMU	CONCRETE MASONRY UNIT	FR	FIRE RESISTANT/RETARDANT	NO	NUMBER	SUSP	SUSPENDED
CO	CLEAN OUT	FT	FOOT OR FEET	NOM	NOMINAL	SYS	SYSTEM
CAB	CABINET	FTG	FOOTING	OA	OVERALL	T	TREAD
CI	CAST IRON	FURN	FURNITURE	OC	ON CENTER	TEL	TELEPHONE
CLG	CEILING	FX	FIXED	OD	OUTSIDE DIAMETER/ OVERFLOW DRAIN	TEMP	TEMPERED
CLKG	CAULKING	GB	GRAB BAR			T&G	TONGUE & GROOVE
CLO	CLOSET	GC	GENERAL CONTRACTOR	OF	OUTSIDE FACE	THRESH	THRESHOLD
CLR	CLEAR	GFI	GROUND FAULT INTERRUPT	OFCI	OWNER FURNISH- CONTRACTOR INSTALL	THK	THICK(NESS)
CNTR	COUNTER	GI	GALVANIZED IRON			TJI	TRUSS JOIST
COL	COLUMN	GLAM	GLUE LAMINATED	OFF	OFFICE	TOC	TOP OF PAVING
CONC	CONCRETE	GA	GAUGE	OP	OPERABLE	TOP	TOP OF CONCRETE/CURB
CONN	CONNECTION	GALV	GALVANIZED	OPP HD	OPPOSITE HAND	TOS	TOP OF STEEL
CONT	CONTINUOUS	GL	GLASS, GLAZING	OPNG	OPENING	TOW	TOP OF WALL
CONTR	CONTRACTOR	GR	GRADE	OPP	OPPOSITE	TS	TUBE STEEL
CORR	CORRIDOR	GSM	GALVANIZED SHEET METAL	PT	PRESSURE TREATED	TYP	TYPICAL
CPT	CARPET	GWB	GYPSUM WALLBOARD	PVC	POLYVINYLCHLORIDE		
CSMT	CASEMENT	GYP	GYPSUM	PARTN	PARTITION	UON	UNLESS OTHERWISE NOTED
CTR	CENTER	H	HIGH	PL	PLATE	UR	URINAL
CTSK	COUNTERSINK	HB	HB	P LAM	PLASTIC LAMINATE		
D	DEPTH	HC	HOLLOW CORE	PLAS	PLASTIC	VCT	VINYL COMPOSITION TILE
DEPT	DEPARTMENT	HM	HOLLOW METAL	PLY	PLYWOOD	VIF	VERIFY IN FIELD
DF	DOUGLAS FIR/DRINKING FOUNTAIN		HEATING VENTILATING & AIR	PR	PAIR	VENT	VENTILATION
DH	DOUBLE HUNG	HVAC	CONDITIONING	PROJ	PROJECT/PROJECTOR	VERT	VERTICAL
DS	DOWNSPOUT	HD	HEAD	PT	POINT/PRESSURE TREATED	VEST	VESTIBULE
DBL	DOUBLE	HDR	HEADER	PTD	PAINTED		
DEMO	DEMOLITION, DEMOLISH	HDWD	HARDWOOD	QTY	QUANTITY	W	WEST, WIDTH
DTL	DETAIL	HDW	HARDWARE	R	RISER	W/	WITH
DIA	DIAMETER	HORIZ	HORIZONTAL	RAD	RADIUS	W/O	WITHOUT
DIM	DIMENSION	HR	HOUR	RD	ROOF DRAIN	WC	WATER CLOSET
DISP	DISPOSAL	HT	HEIGHT	REF	REFERENCE	WD	WOOD
DN	DOWN	ID	INSIDE DIAMETER	REFR	REFRIGERATOR	WDO	WINDOW
DR	DOOR	IF	INSIDE FACE	REINF	REINFORCING	WH	WATER HEATER
DWR	DRAWER	INC	INCANDESCENT	REG	REGISTER	WR	WATER RESISTANT
DWG	DRAWING	INSUL	INSULATION	REQD	REQUIRED	WT	WEIGHT
				RES	RESILIENT		

INDEX OF DRAWINGS

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 xxxxx
AC _____ FLS _____ SS
DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402

College of San Mateo
1700 W. Hillsdale Blvd.
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SHEET TITLE
INDEX OF DRAWINGS, GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	JC
SCALE	N/A
N&T JOB NO.:	2901

SHEET NUMBER

G0.01

CODE ANALYSIS – California Building Code, 2007 Edition

BUILDING 15

Existing Conditions

Existing Structure: Type I B
Fire Suppression Sprinkler System: Unsprinklered
CBC 903.2.: Sprinklers not required for B Occupancy
Fire Alarm System: Consists of a Siemens MXL (District Standard) Fire Alarm Control Panel that is tied to the Main Campus Fire Alarm Control Panel.

Occupancy

CBC Chapter 3 Article 304.1

Primary Occupancy – B: Education for Students Above Grade 12 – Community College

Additional Occupancies – none: Section 303.1 Exceptions define spaces such as meeting rooms with less than 50 occupants as B occupancies.

Allowable Building Area

Building Area total below horizontal roof projection per CBC 502.1:
17,534 Square feet
CBC Chapter 5 Table 503
Basic Allowable Floor Area (B Occ): Unlimited

Required Separation of Occupancies

CBC Chapter 5 Table 508.3.3 Occupancy Separation Not required

Fire Resistant Rating Requirements

CBC Table 601
Fire Resistive Rated Construction:
Bearing walls – Exterior = 2 hours
Interior = 2 hours (1 hour where supporting a roof only)
Non–bearing walls – 0 hours
Floor construction – 2 hours
Roof construction – 1 hour

Allowable Openings

No new exterior openings are proposed

Occupant Load

Gross Floor Area inside exterior walls per CBC 1002.1: 12,378 sf
Net Floor Area excluding corridors, mechanical and toilet rooms per CBC 1002.1: 7,568 sf
CBC Chapter 10 Table 1004.1.1
1) Break room: 301 SF (net)/15 SF per occupant = 21 occupants – 1 means of egress required and provided
2) Work Room: 300 SF (net)/15 SF per occupant = 20 occupants – 1 means of egress required and provided
3) Meeting Room: 300 SF (net)/15 SF per occupant = 20 occupants – 1 means of egress required and provided

Egress Requirements

CBC 1005.1

Egress Width for Building Exits: Occupant Load x 0.2 inches = 148 x 0.2 = 30 inches required
144 Inches provided

2 exits required – 4 provided

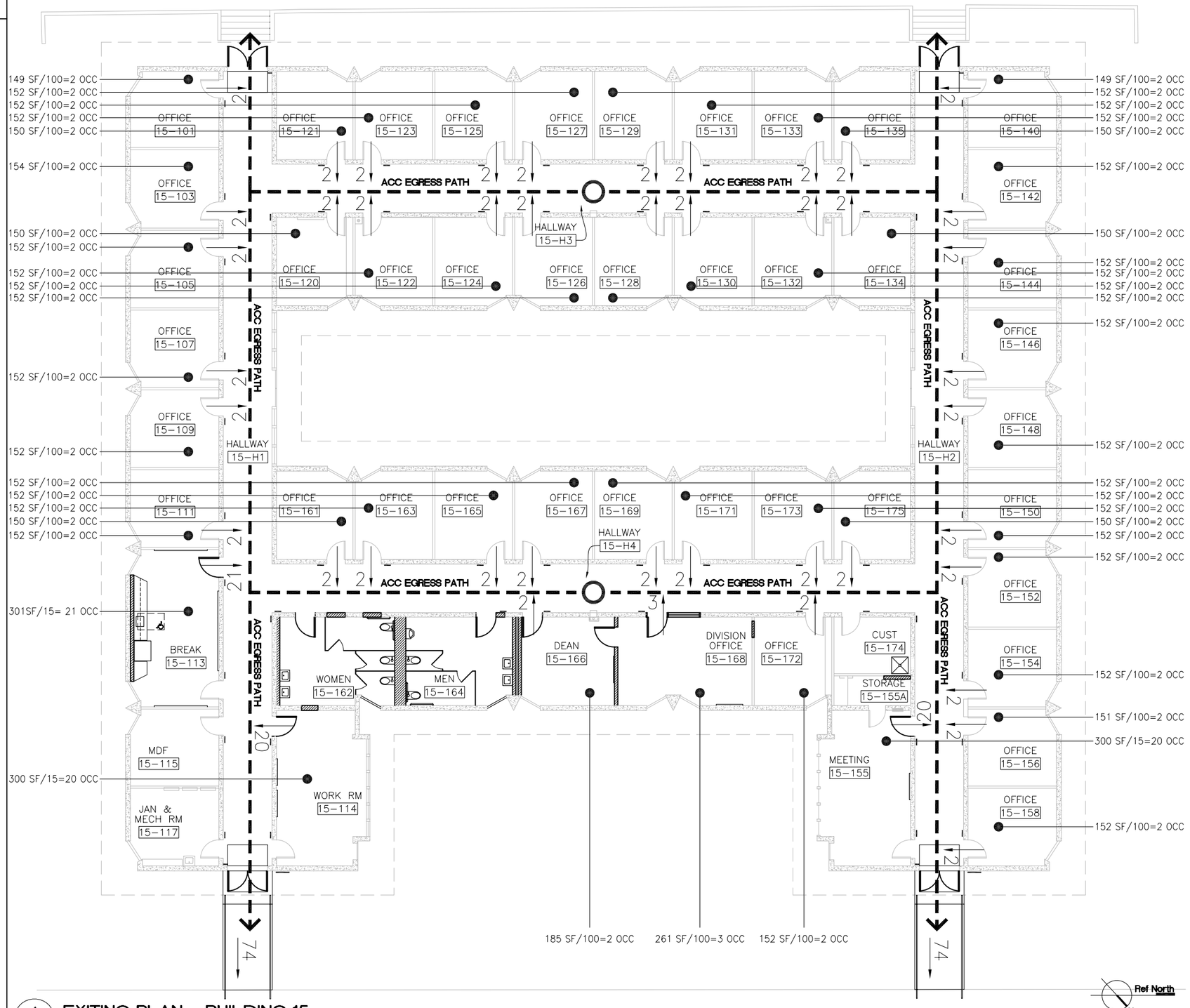
CBC 1014.3
Maximum allowable length of Common Path of Egress Travel: 75 feet maximum (Non–Sprinklered Building)

Maximum proposed length of Common Path of Egress Travel: 50 feet <100

CBC Table 1016.1
Exit Access Travel Distance: 200 feet maximum (Non–Sprinklered Building)

Maximum proposed length of Exit Access Travel Distance: 153 feet < 200

CBC 1017.1
Corridor requirement: Fire rated corridor not required per 1017.1 Exception 4 based on Table 1015.1



1 G1.20 EXITING PLAN – BUILDING 15

1/8" = 1'–0"

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CODE ANALYSIS
EXITING PLAN

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CHECKED JC
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N&T JOB NO.: 2901

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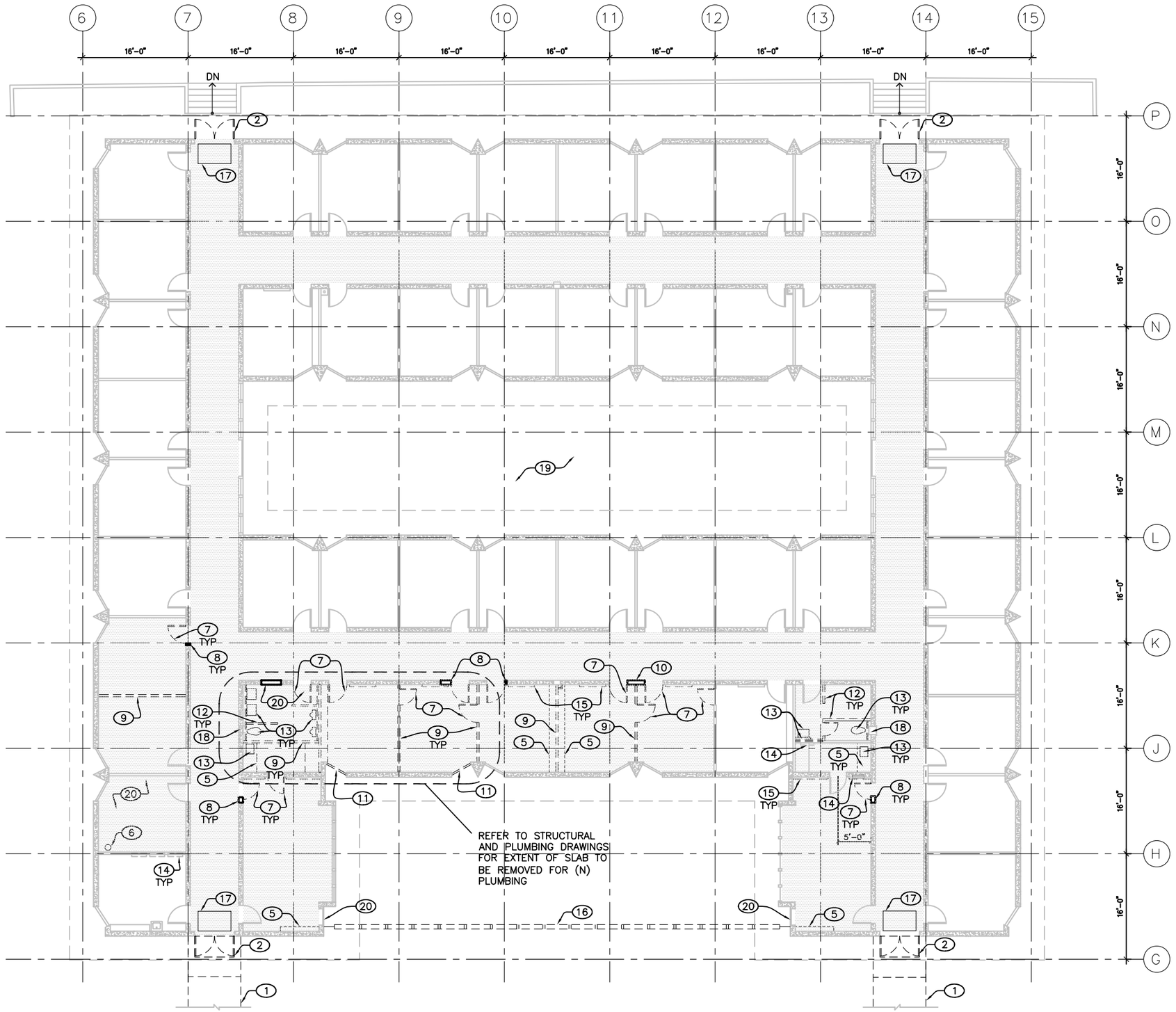

1 A2.10 **DEMOLITION PLAN – BUILDING 15**

1/8"=1'-0"

GENERAL NOTES

1. REFER TO DOOR SCHEDULE FOR HARDWARE REPLACEMENT
2. PROTECT EXISTING ELECTRICAL, TELECOM AND FIRE ALARM PANELS AND EQUIPMENT NOT INDICATED TO BE REMOVED
3. WITHIN THE WORK AREA: DEMO (E) CASEWORK, WHITE BOARDS, TACK BOARDS, THERMOSTATS, WALL GUARDS, CHAIR RAILS, AND OTHER MISCELLANEOUS ITEMS. RE-WIRE ELECTRICAL OUTLETS PER ELECTRICAL DRAWINGS
4. PATCH AND REPAIR (E) GYPSUM BOARD AND CONCRETE AS REQUIRED TO PROVIDE A SMOOTH FLUSH SURFACE AT LOCATIONS WHERE INTERIOR PARTITIONS ARE REMOVED
5. PATCH AND REPAIR (E) FLOOR SLAB AS REQUIRED TO PROVIDE A SMOOTH FLUSH SURFACE AT LOCATIONS WHERE INTERIOR PARTITIONS ARE REMOVED

KEY NOTES

1. DEMO (E) WALKWAY AND RAMP
2. DEMO (E) ALUMINUM STOREFRONT AND DOORS
3. NOT USED
4. NOT USED
5. DEMO (E) CASEWORK OR UNIT KITCHEN
6. REFER TO MECHANICAL AND STRUCTURAL FOR (N) MECHANICAL PIPING PENETRATIONS
7. DEMO (E) DOOR AND DOOR FRAME
8. SAWCUT AND REMOVE PORTION OF (E) CONC WALL, SSD. PREP OPEN'G TO RECEIVE (N) DOOR FRAME AND DOOR
9. DEMO (E) STUD WALL
10. SAWCUT AND REMOVE PORTION OF (E) CONC WALL, SSD
11. DEMO (E) GLAZING PROTECT (E) FRAME AND PREP FOR INSTALLATION OF (N) GLAZING
12. DEMO (E) RESTROOM PARTITIONS
13. DEMO (E) FIXTURES AND ACCESSORIES
14. (E) ELEC. PANEL TO REMAIN
15. REMOVE (E) TACKBOARD
16. (E) CONCRETE SCREEN TO BE DEMOLISHED UNDER SEPARATE CONTRACT
17. PREP CONCRETE THIS AREA TO RECEIVE (N) SURFACE MOUNTED WALK-OFF MAT
18. DEMOLISH (E) DRINKING FOUNTAIN
19. INTERIOR COURT NOT ACCESSIBLE TO PUBLIC USE
20. (E) DOOR. REMOVE (E) HARDWARE AND PROVIDE BLANK OFF AS REQUIRED. PROTECT DEADLOCK IN PLACE.

LEGEND

- EXISTING STUD WALL TO REMAIN
- EXISTING CONC WALL TO REMAIN
- DEMO STUD WALL
- DEMO CONC WALL
- DEMO DOOR
- EXISTING DOOR TO REMAIN
- (E) CEILING FRAMING, LIGHT FIXTURES AND FINISH AND FLOOR FINISH TO BE DEMO'D UNDER ABATEMENT CONTRACT

Ref North

N

0 2 4 8 16 24

ARCHITECT OF RECORD

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SHEET TITLE

BUILDING 15 DEMOLITION PLAN

REVISIONS

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DATE	MARCH 9, 2009
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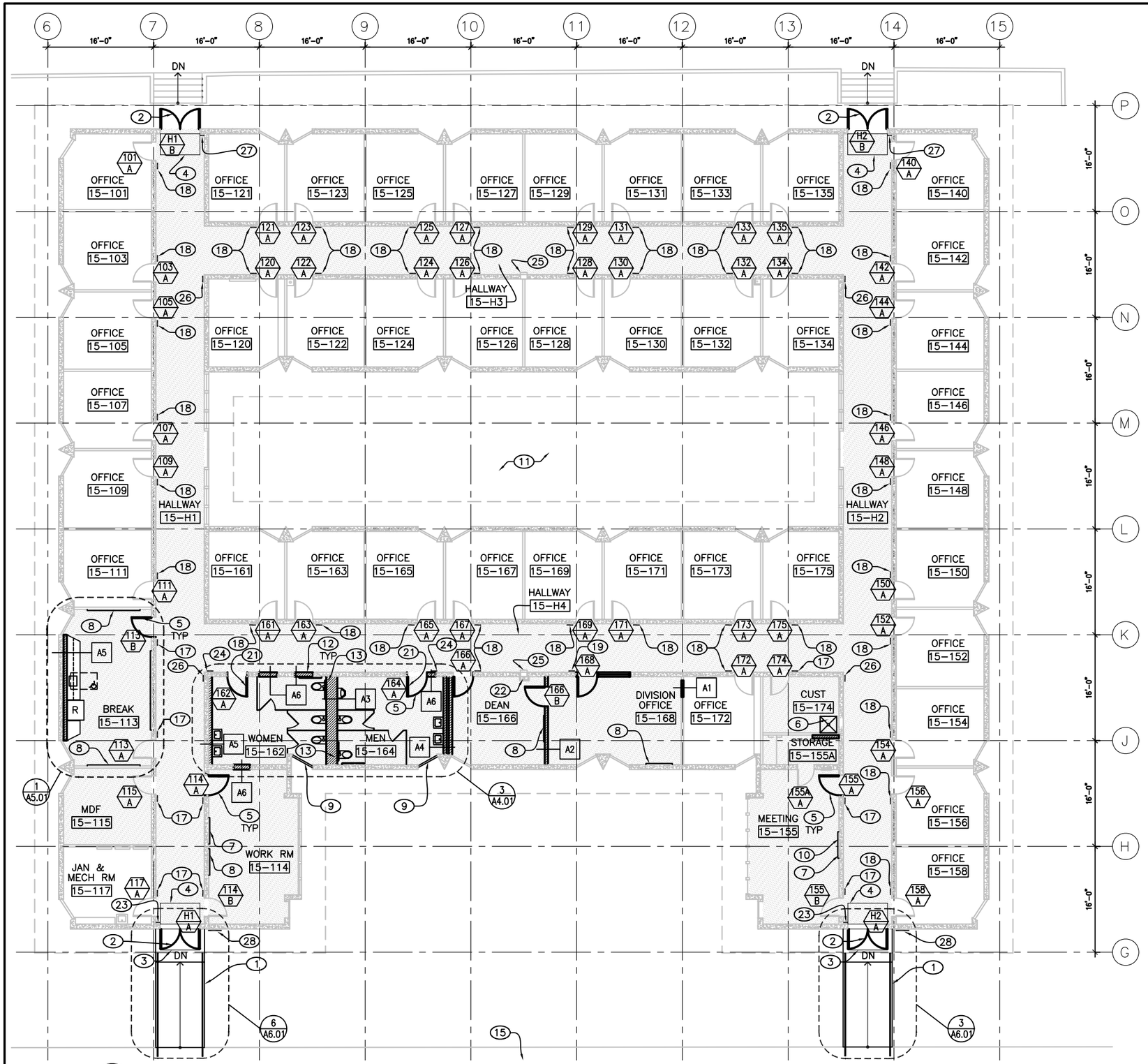
CHECKED	JC
SCALE	1/8" = 1'-0"
N&T JOB NO.:	2901

SHEET NUMBER

A1.10



1 A2.10 FLOOR PLAN - BUILDING 15

1/8"=1'-0"

GENERAL NOTES

1. REFER TO DOOR SCHEDULE FOR HARDWARE REPLACEMENT
2. REFER TO SHEET G0.01 FOR SYMBOLS AND ABBREVIATIONS
3. REFER TO SHTS A8.00 AND A8.01 FOR TYP. INTERIOR WALL FRAMING.
   REFER TO SHT A8.02 FOR TYP WALL BASE DTL, TYP WALL HEAD DTL, AND INTERIOR PARTITION SCHEDULE
4. ALL MTL STUDS FOR (N) INTERIOR WALLS AND PARTITIONS SHALL BE 3⅝" UON. PROVIDE FURRING AS REQUIRED TO FINISH FLUSH WITH EXISTING SURFACES ADJACENT
5. PROVIDE (N) METAL STUDS AND GYPSUM BOARD INFILL WHERE INDICATED.

KEY NOTES

(1) CONCRETE RAMP, RAILS, AND LANDING
(2) ALUM STOREFRONT DOOR
(3) 6'-0" X 3'-0" RECESSED WALK-OFF MAT
(4) SURFACE MTD 6'-0" X 3'-0" WALK-OFF MAT
(5) SEE DOOR SCHEDULE
(6) FLOOR MTD MOP SINK
(7) WHITE BOARD SEE DTL 6/A9.01
(8) TACK BOARD, SEE DTL 5/A9.01.
(9) TEMPERED OBSCURE GLAZING, INSTALL IN (E) FRAME
(10) PROJECTION SCREEN, SEE DTL 3/A7.02
(11) LIGHT COURT, NOT ACCESSIBLE TO PUBLIC USE
(12) MTL STUD INFILL WALL
(13) NOT USED
(14) NOT USED
(15) (E) CONC WALKWAY
(16) SIGNAGE, SEE DTL 2/A8.04
(17) SIGNAGE, SEE DTL 3/A8.04
(18) SIGNAGE, SEE DTL 4/A8.04
(19) SIGNAGE, SEE DTL 5/A8.04
(20) SIGNAGE, SEE DTL 6/A8.04
(21) SIGNAGE, EE DTL 7/A8.04
(22) (E) ROOF DRAIN
(23) SIGNAGE, SEE DTL 9/A8.04
(24) SIGNAGE, SEE DTL 10/A8.04
(25) (E) FIRE EXTINGUISHER CABINET
(26) SIGNAGE, SEE DTL 12/A8.04
(27) SIGNAGE, SEE DTL 13/A8.04
(28) SIGNAGE, SEE DTL 14/A8.04

LEGEND

EXISTING STUD WALL
EXISTING CONC WALL
NEW STUD WALL
EXISTING DOOR AND FRAME
NEW DOOR AND FRAME
WALL TYPE, SEE A8.00 — A2
AREA OF (N) WORK

Ref North N

0 2 4 8 16 24

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APPLICATION NUMBER 01 XXXXX
AC ____ FLS ____ SS
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Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

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COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION

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College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

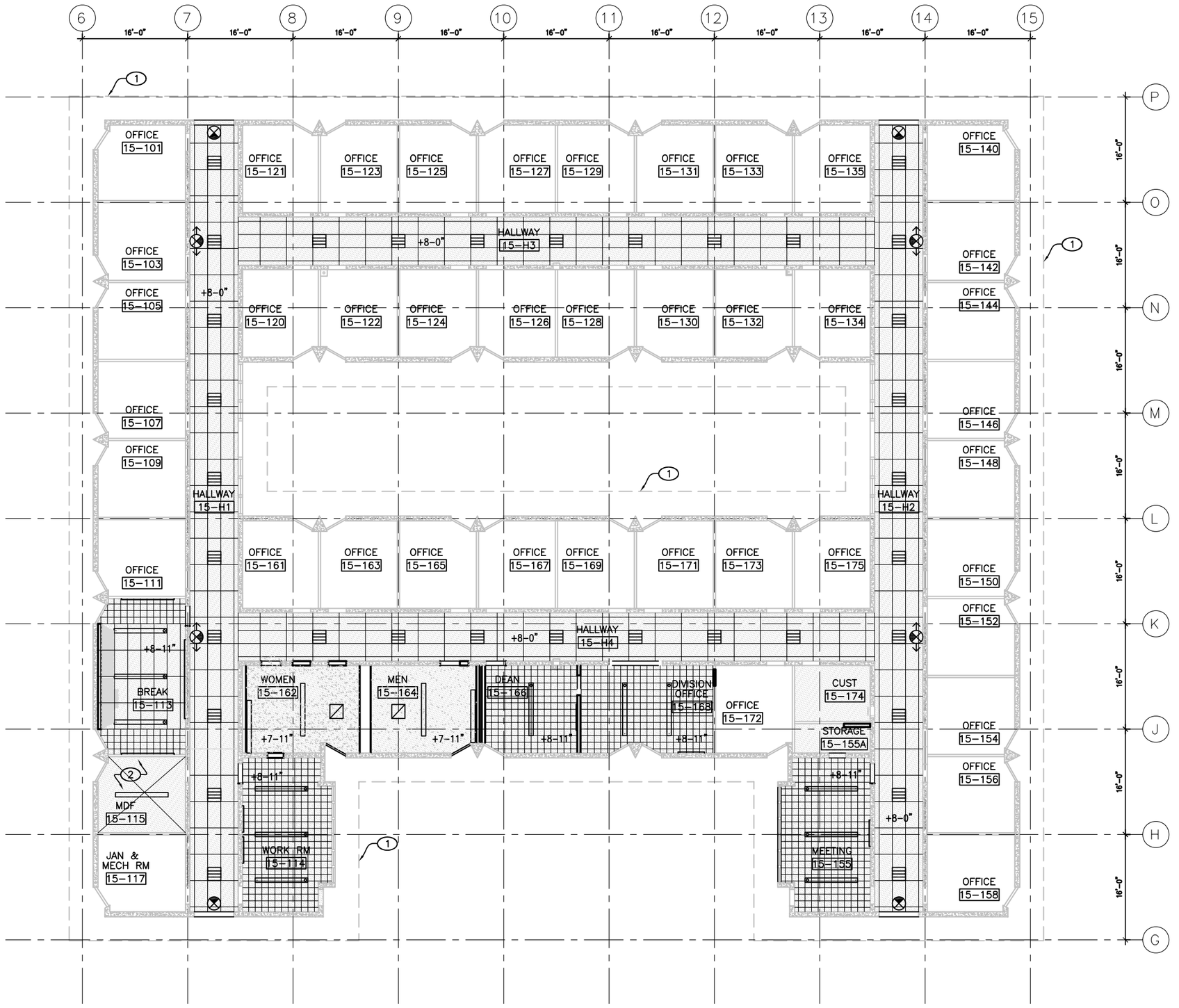
SHEET TITLE
BUILDING 15 FLOOR PLAN

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	JC
SCALE	1/8" = 1'-0"
N&T JOB NO.:	2901

SHEET NUMBER
A2.10



1 A2.12 REFLECTED CEILING PLAN - BUILDING 15

1/8"=1'-0"

GENERAL NOTES

1. SEE SHEET A7.01 FOR TYP SUSPENDED LAY-IN CEILING DETAILS. SEE A7.02 FOR SUSPENDED GYP. CEILING DETAILS
2. ALL CEILINGS TO BE FINISHED WITH ACOUSTICAL CEILING TILE UNLESS OTHERWISE NOTED

KEY NOTES

(1) ROOF OUTLINE
(2) OPEN TO STRUCTURE ABOVE

LEGEND

	RECESSED LENSED FLUOR. FIXT, SED	⊗	EXIT SIGN, SED
	EXHAUST GRILLE, SMD		PENDANT MOUNTED FLUOR. FIXT, SED
			SURFACE MOUNTED FLUOR. FIXT, SED

EXISTING CEILING

OPEN TO STRUCTURE ABOVE

GYPSUM BOARD

2x4 ACOUSTICAL CEILING TILE

1x1 ACOUSTICAL CEILING TILE

Ref North
N
0 2 4 8 16 24

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SHEET TITLE
BUILDING 15 REFLECTED CEILING PLAN

REVISIONS

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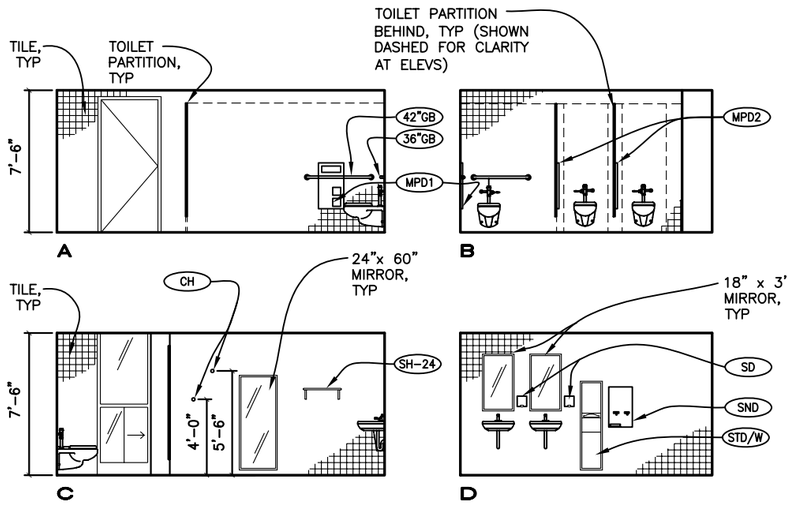
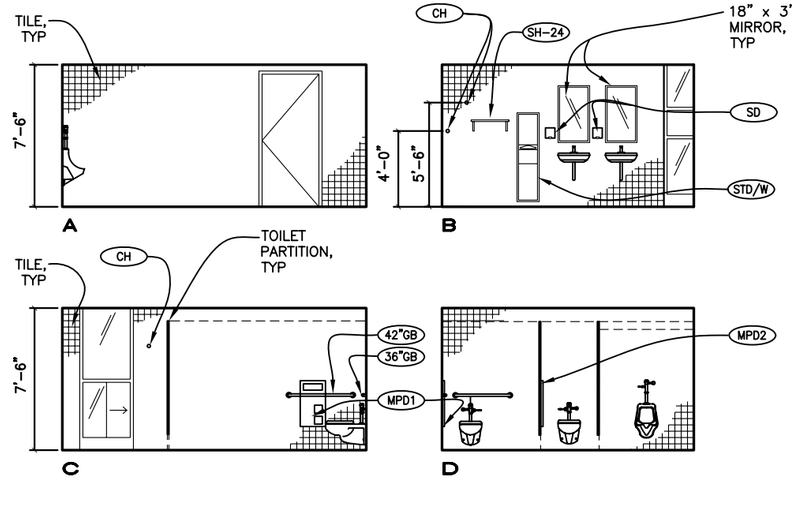
N&T JOB NO.:	2901

SHEET NUMBER
A2.11



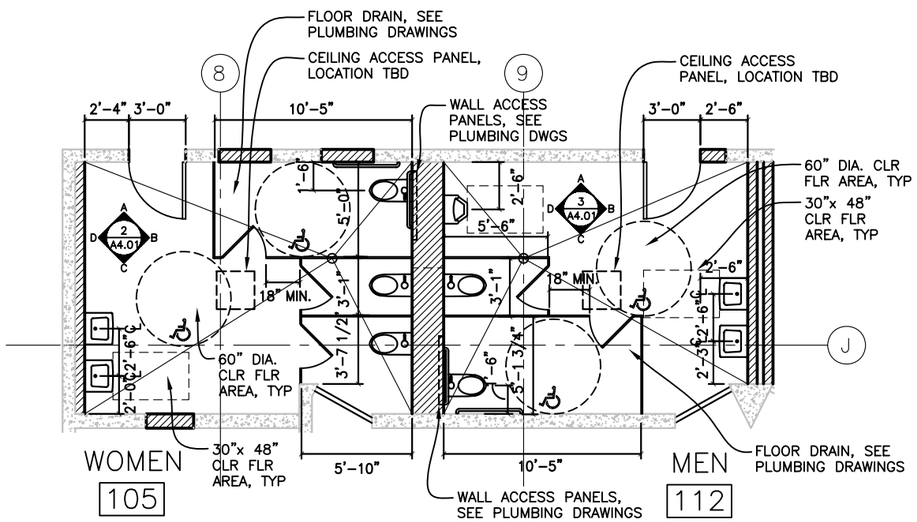
1 A4.01 INTERIOR ELEVATIONS - WOMEN'S RESTROOM

ROOM 105 1/4"=1'-0"



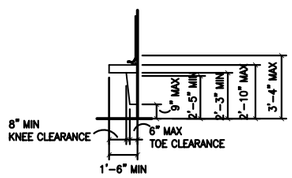
2 A4.01 INTERIOR ELEVATION - MEN'S RESTROOM

ROOM 112 1/4"=1'-0"

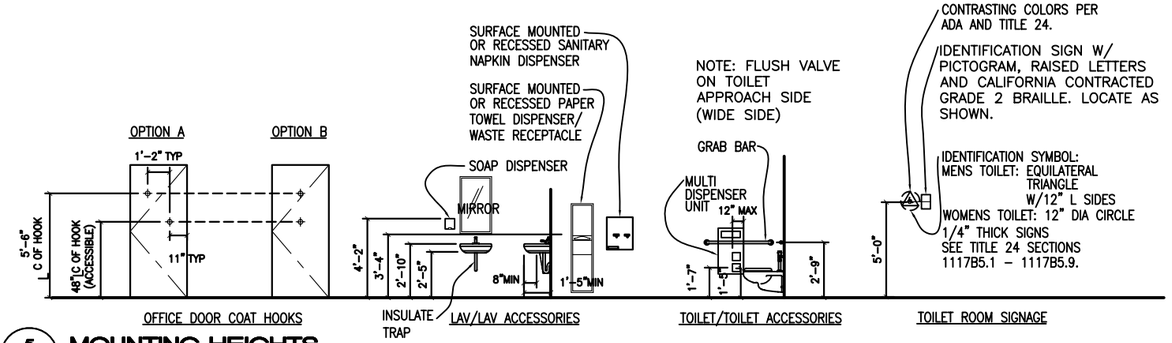


3 A4.01 ENLARGED RESTROOM PLAN

ROOM 2 1/4"=1'-0"



4 A7.05 LAV ELEVATION



5 A7.05 MOUNTING HEIGHTS

1/4" = 1'-0"

SHEET NOTES

1. TYP CERAMIC TILE BASE (4/A7.03)
2. TYP GRAB BAR BACKING (1/A7.03)
3. TYP TOILET PARTITION ANCHORAGE (2/A7.03)
4. PROVIDE BACKING @ METAL STUD WALL CONDITION FOR SURFACE MOUNTED ITEMS.
5. GYP BD TYPE AND FINISH, SEE A8.02 FOR WALL TYPES AND A8.10 FOR FINISH SCHEDULE
6. DIMENSIONS THIS SHEET MEASURED TO FACE OF FINISH

KEY NOTES

(1) FLOOR DRAIN (5/A7.03) TYP

(2) REFER TO ARCH DWGS. A10.11, A10.12, A10.31 & A10.32 FOR THE CERAMIC TILE FLOOR AND WALL PATTERNS

ACCESSORY LEGEND

36"GB	36" GRAB BAR
42"GB	42" GRAB BAR
MIRROR	MIRROR – SIZE SHOWN ON ELEVATIONS
RTD/W	RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
STD/W	SURFACE MOUNTED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
SD	SURFACE MOUNTED SOAP DISPENSER
MPD1	MULTI DISPENSER UNIT – M
MPD2	MULTI DISPENSER UNIT – W
SND	SURFACE MOUNTED SANITARY NAPKIN DISPENSER
RND	RECESSED SANITARY NAPKIN DISPENSER
CH	COAT HOOK
SH-24	24" SHELF

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SHEET TITLE
BUILDING 15 ENLARGED RESTROOM PLANS AND ELEVATIONS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
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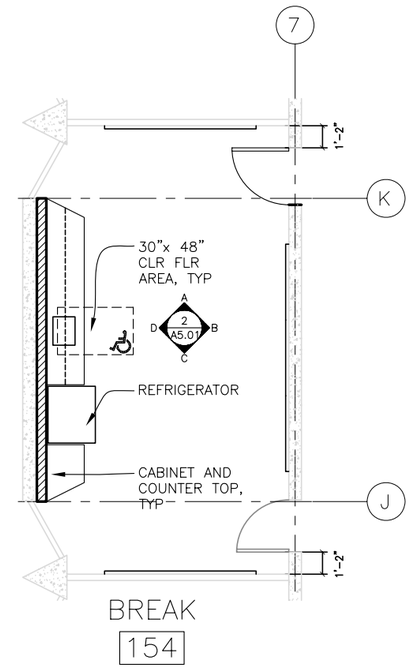
SCALE	1/4" = 1'-0"
N&T JOB NO.:	2901

SHEET NUMBER
A4.01

SHEET NOTES

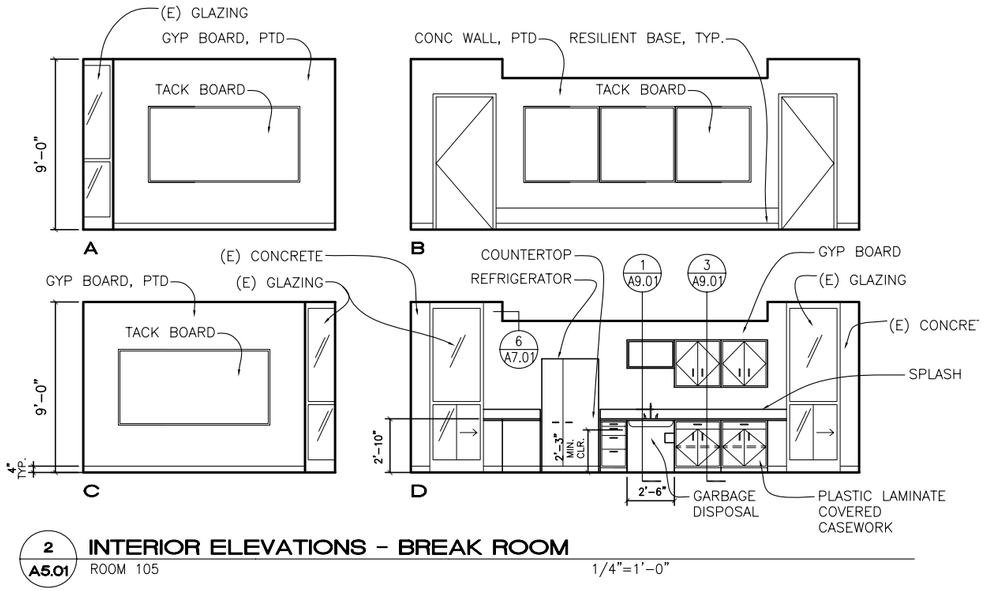
1. DETAILS FOR CABINET ANCHORAGE, SEE SHEET A9.01
2. GYP BD TYPE AND FINISH, SEE A8.02 FOR WALL TYPES AND A8.11 FOR FINISH SCHEDULE
3. PROVIDE BACKING FOR WALL MOUNTED CABINETS, ACCESSORIES, AND EQUIPMENT. SEE A8.01 FOR BACKING TYPES
4. MARKER BOARDS AND TACK BOARDS TO BE 4'–0" HIGH, TYP UON. LOCATE TO ALIGN WITH TOP OF DOOR FRAMES UON. SE A9.01 FOR MOUNTING DETAILS



BREAK
154

1 A5.01 ENLARGED BREAK ROOM PLAN

ROOM 2 — 1/4"=1'–0"



2 A5.01 INTERIOR ELEVATIONS – BREAK ROOM

ROOM 105 — 1/4"=1'–0"

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SHEET TITLE
BUILDING 15 ENLARGED BREAK RM PLANS AND ELEVATIONS

REVISIONS

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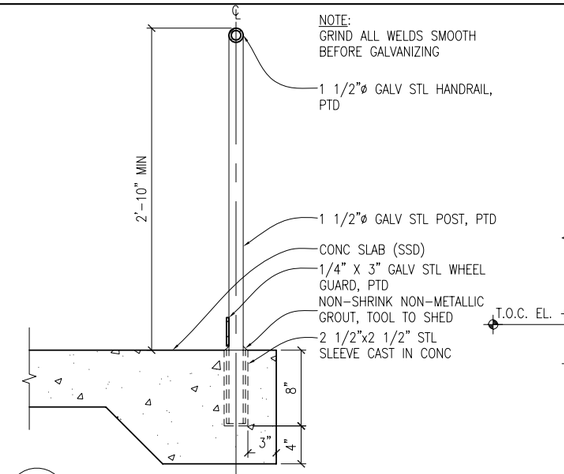
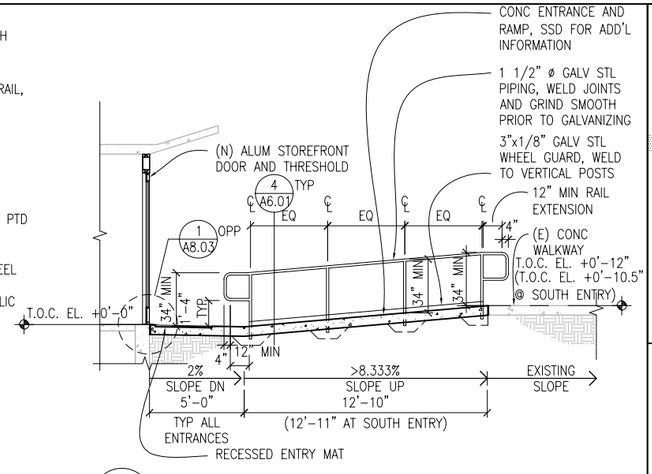
N&T JOB NO.:	2901

SHEET NUMBER

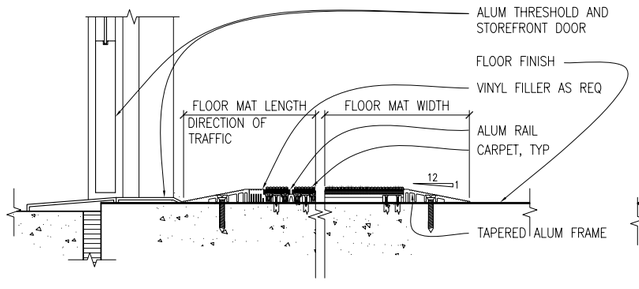
A5.01



4 A6.01 **TYPICAL RAMP HANDRAIL DETAIL** 1 1/2"=1'-0"

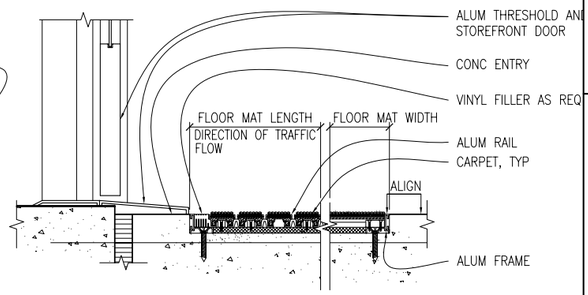


1 A6.01 **ACCESSIBLE RAILING - NORTH ENTRY** SOUTH ENTRANCE SIM 1/4" = 1'-0"



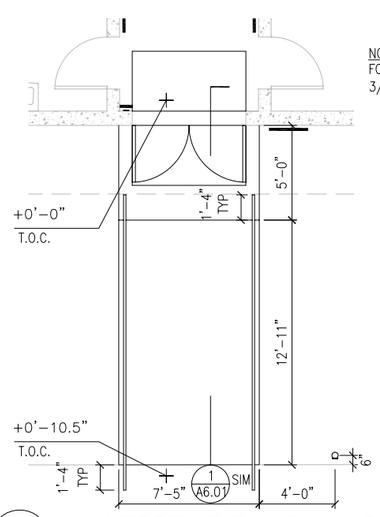
SECTION A-A SECTION B-B

5 A6.01 **SURFACE ENTRY MAT** 3"=1'-0"

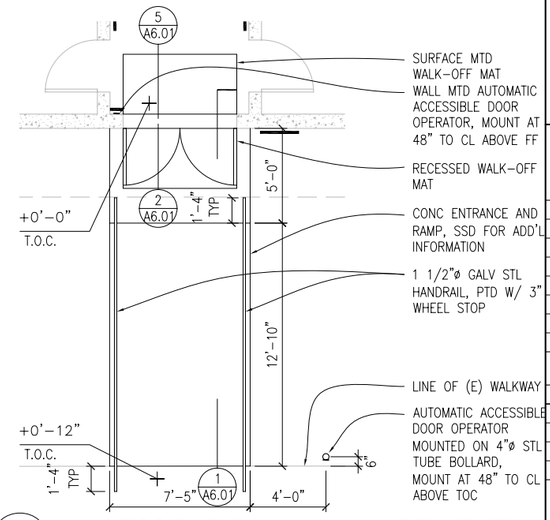


SECTION A-A SECTION B-B

2 A6.01 **RECESSED ENTRY MAT** 3"=1'-0"



6 A6.01 **ACCESSIBLE RAILING - SOUTH ENTRY** 1/4" = 1'-0"



3 A6.01 **ACCESSIBLE RAILING - NORTH ENTRY** 1/4" = 1'-0"

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SHEET TITLE

SITE AND ENTRY DETAILS

REVISIONS

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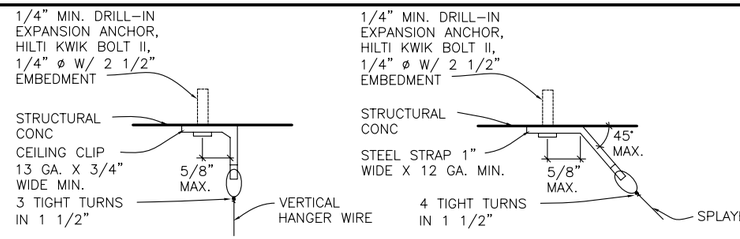
N&T JOB NO.:	2901

SHEET NUMBER

A6.01

G:\CSM B12-15-17-34\CAD\N&TCAD\BLDG 15 DSA\A6.01-CSM_B15_SITE DETAILS.DWG



VERTICAL HANGER WIRE CLIP ATTACHMENT

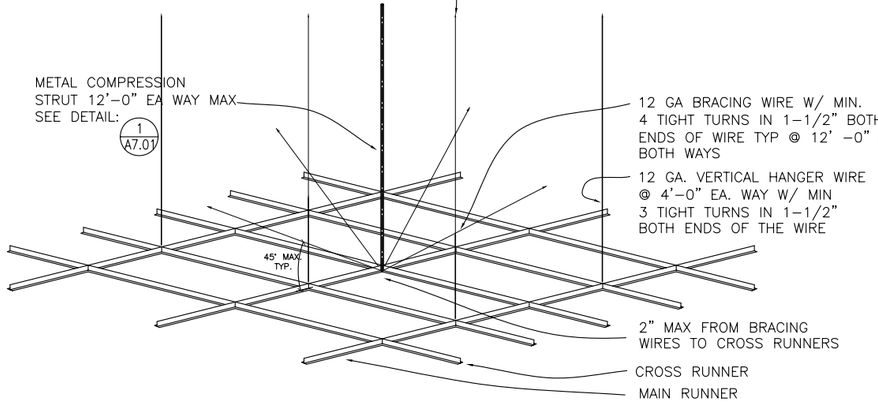
SPLAYED HANGER WIRE CLIP ATTACHMENT

8 A7.01 TYP WIRE CONNECTIONS TO CAST-IN-PLACE CONCRETE

NTS

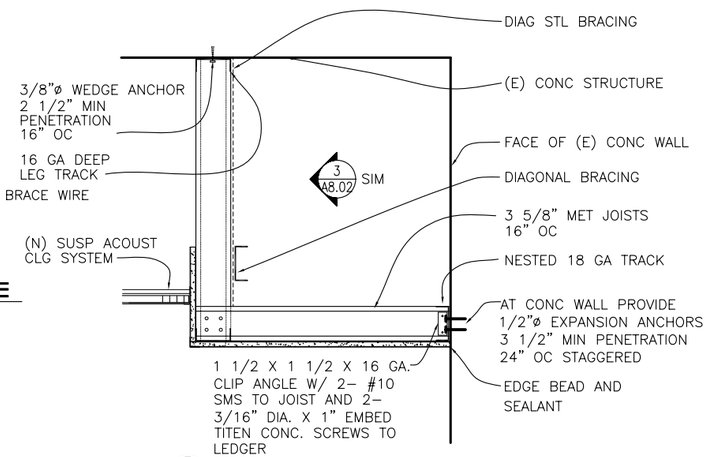
NOTE:
LATERAL BRACING SHALL CONSIST OF (4) 12 GA WIRES AND COMPRESSION STRUT SECURED TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION. WIRES SHALL BE SPLAYED 90 DEGREES IN PLAN FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM PLANE OF CEILING.

FOLLOW CEILING MANUFACTURER'S STANDARD DETAILS AND SPECS FOR INSTALLATION OF CEILING SYSTEM PER CODE AND DSA STANDARDS, TYP.



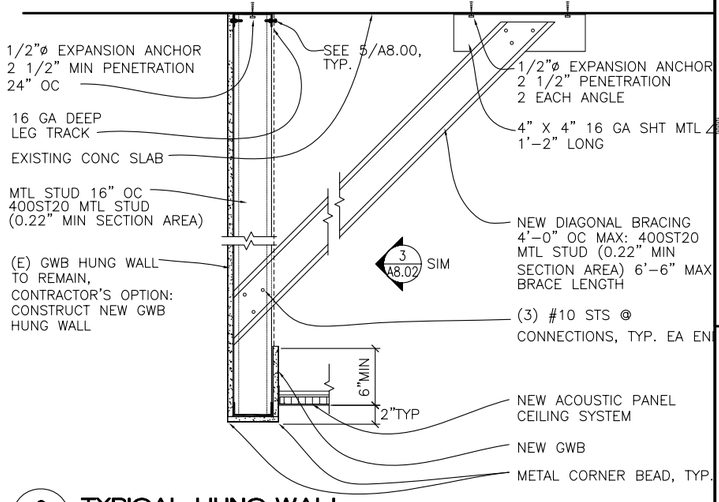
7 A7.01 SOFFIT AT EXISTING WALL

1 1/2" = 1'-0"



6 A7.01 TYPICAL HUNG WALL

1 1/2" = 1'-0"



5 A7.01 TYP LAY IN CEILING GRID BRACING

NTS

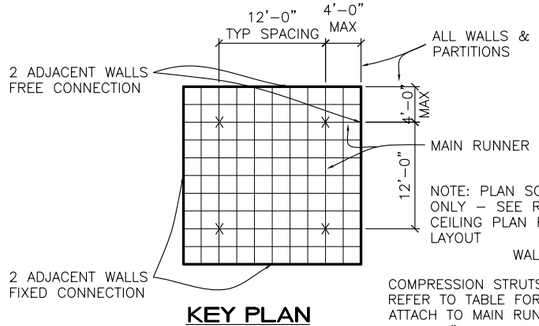
'USG' DONN COMPRESSION POST (PA-030)			
MODEL NO	ALLOWABLE LENGTH		
VSA 12	1'-6" TO 2'-6"		
VSA 24	2'-6" TO 4'-0"		
VSA 47	4'-0" TO 7'-0"		
VSA 710	7'-0" TO 10'-0"		
VSA 1012	10'-0" TO 12'-0"		
METAL PIPE STRUTS			
TRADE SIZE	ALLOWABLE LENGTH		
	EMT	IMC	RMC
1/2"		4'-4"	4'-4"
3/4"		5'-7"	5'-7"
1"		7'-0"	7'-0"

IMC-INTERMEDIATE METAL CONDUIT
RMC-RIGID METAL CONDUIT

NOTE:
LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

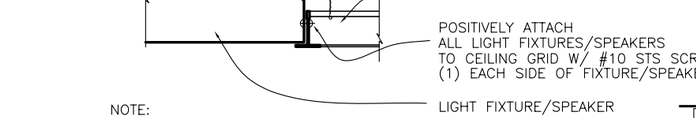
3 A7.01 COMPRESSION STRUT SCHEDULE

NTS



KEY PLAN

COMPRESSION STRUTS: REFER TO TABLE FOR SIZE. ATTACH TO MAIN RUNNERS WITHIN 2" OF CROSS RUNNER WITH 2-#12 SELF-DRILLING SELF-TAPPING (SDST) SCREWS AND TO STRUCTURE WITH 3/16" DIAMETER ANCHOR AT CONCRETE. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE.



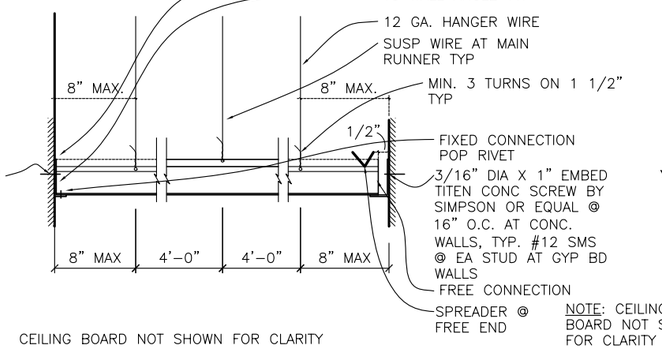
NOTE:
LIGHT FIXTURES/SPEAKERS WEIGHING 56 POUNDS OR MORE BY 4 TAUT 12 GA. WIRES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS- REFER TO DETAIL 8/S7.01, SIM.

LIGHT FIXTURES/SPEAKERS WEIGHING LESS THAN 56 POUNDS SHALL HAVE (2) 12 GA WIRES CONNECTED FROM THE FIXTURE HOUSING TO STRUCTURE ABOVE

4 A7.01 LIGHT FIXTURE/SPEAKER SUPPORT

LAY-IN ACOUSTICAL TILE NTS

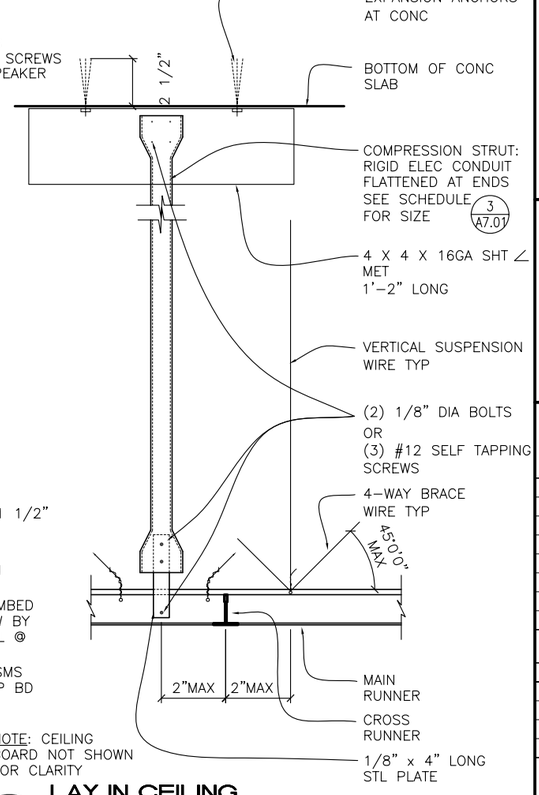
NOTE:
TYP VERTICAL SUSPENSION WIRE:
12 GA GALV SOFT ANNEALED MILD STEEL INSTALL WIRES NO MORE THAN 1 IN 6 OUT OF PLUMB



CEILING BOARD NOT SHOWN FOR CLARITY

2 A7.01 LAY IN CEILING VERTICAL SUPPORT

NTS



NOTE: CEILING BOARD NOT SHOWN FOR CLARITY

1 A7.01 LAY IN CEILING LATERAL BRACING

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SHEET TITLE
CEILING DETAILS

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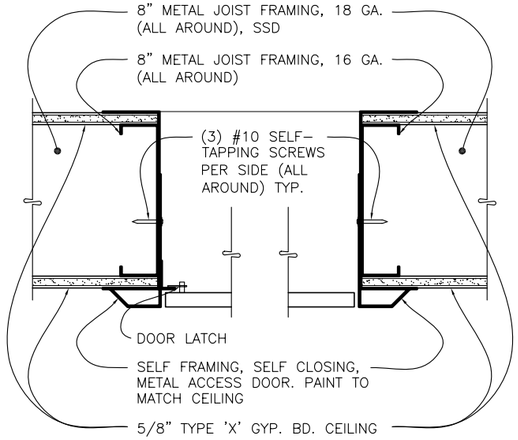
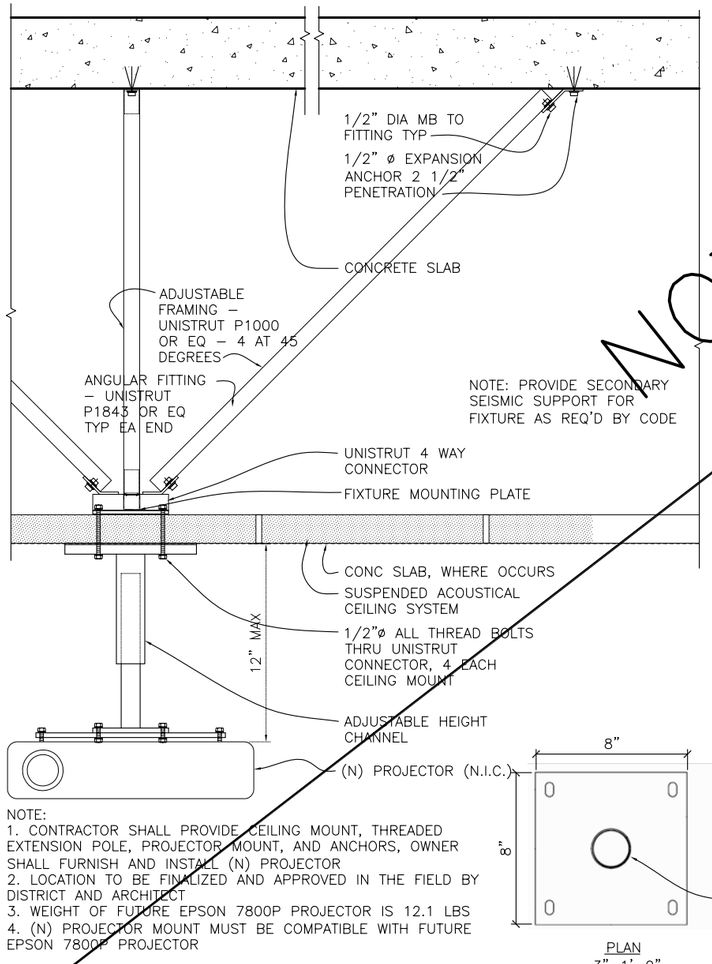


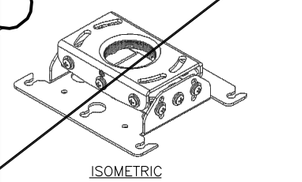
7 A7.02 CEILING ACCESS HATCH

REFER TO DTL. 12/A8.01 FOR FRAMING INFORMATION

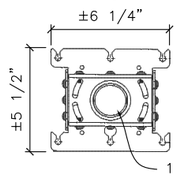
3" = 1'-0"



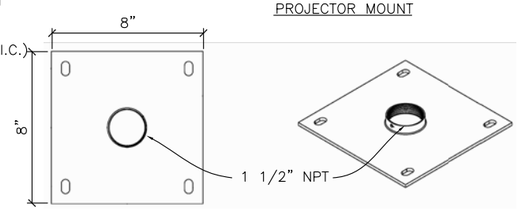
NOTE:
1. CONTRACTOR SHALL PROVIDE CEILING MOUNT, THREADED EXTENSION POLE, PROJECTOR MOUNT, AND ANCHORS, OWNER SHALL FURNISH AND INSTALL (N) PROJECTOR
2. LOCATION TO BE FINALIZED AND APPROVED IN THE FIELD BY DISTRICT AND ARCHITECT
3. WEIGHT OF FUTURE EPSON 7800P PROJECTOR IS 12.1 LBS
4. (N) PROJECTOR MOUNT MUST BE COMPATIBLE WITH FUTURE EPSON 7800P PROJECTOR



ISOMETRIC
N.T.S.



PLAN
3"=1'-0"
PROJECTOR MOUNT



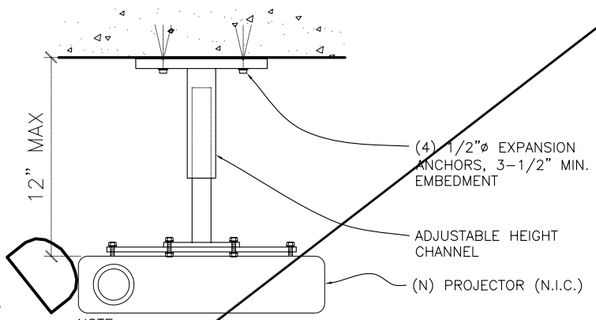
PLAN
3"=1'-0"
CEILING MOUNT

ISOMETRIC
N.T.S.

3 A7.02 CEILING-MOUNTED PROJECTOR DETAIL

1 1/2" = 1'-0"

NOT USED



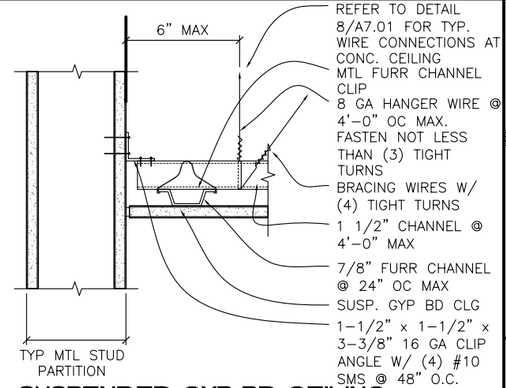
NOTE:
1. AT CONCRETE BEAM, PROVIDE MIN. 3" DISTANCE FROM C OF EXPANSION ANCHOR TO FACE OF BEAM. L

2. WEIGHT OF FUTURE EPSON 7800P PROJECTOR IS 12.1 LBS. MAX.

4 A7.02 CEILING-MOUNTED PROJECTOR

AT CONC. SLAB-CONC. BEAM SIM.

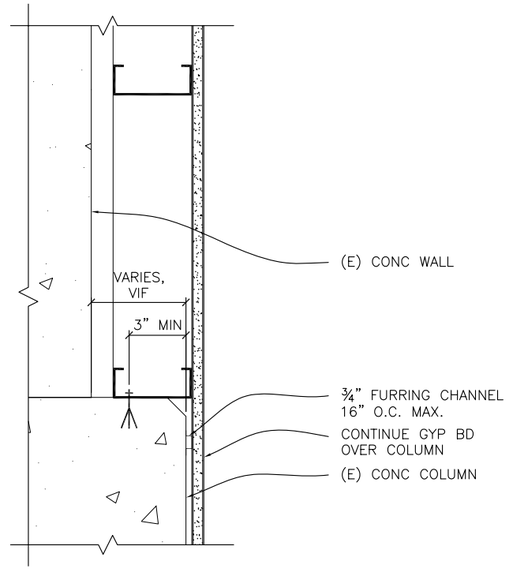
1 1/2" = 1'-0"



5 A7.02 SUSPENDED GYP BD CEILING @ FULL-HEIGHT PARTITION

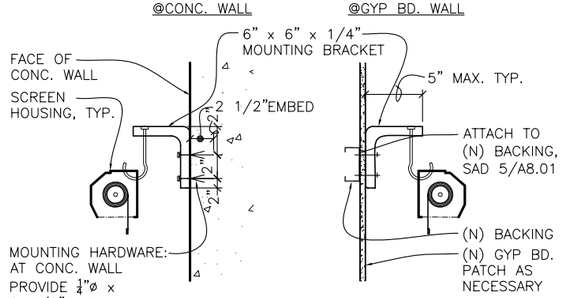
REFER TO IR 25-3 AND CBC SECTION 2504, 2511 FOR ADDITIONAL INFORMATION

3" = 1'-0"



2 A7.02 FULL HEIGHT FURRING AT CONC COLUMNS OR WALLS - PLAN

3" = 1'-0"



3 A7.02 WALL-MOUNTED PROJECTION SCREEN DETAIL

1 1/2" = 1'-0"

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noll & tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

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DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402

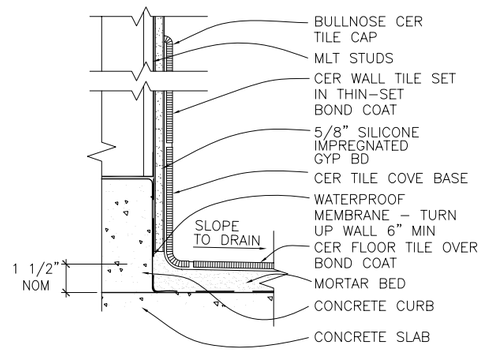
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
INTERIOR DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

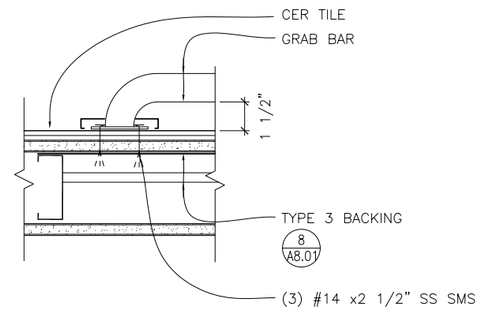
DATE	MARCH 9, 2009
DRAWN	TC
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER
A7.02



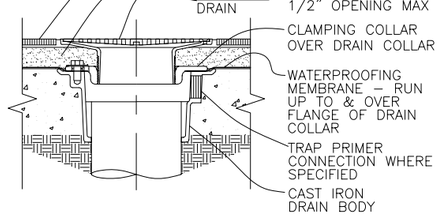
4 A7.03 CERAMIC TILE WAINSCOT

3"=1'-0"



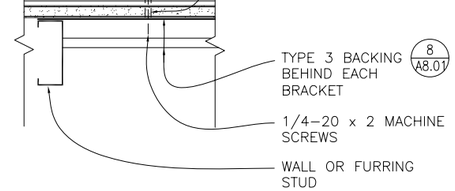
1 A7.03 GRAB BAR BACKING

3"=1'-0"



5 A7.03 FLOOR DRAIN SLAB ON GRADE

3"=1'-0"



2 A7.03 TOILET PARTITION ANCHOR

3"=1'-0"

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architects and planners
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Berkeley, CA 94710
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San Mateo, CA 94402

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1700 W. Hillsdale Blvd.
San Mateo, CA 94402

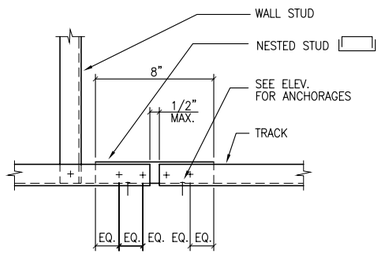
SHEET TITLE
RESTROOM DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

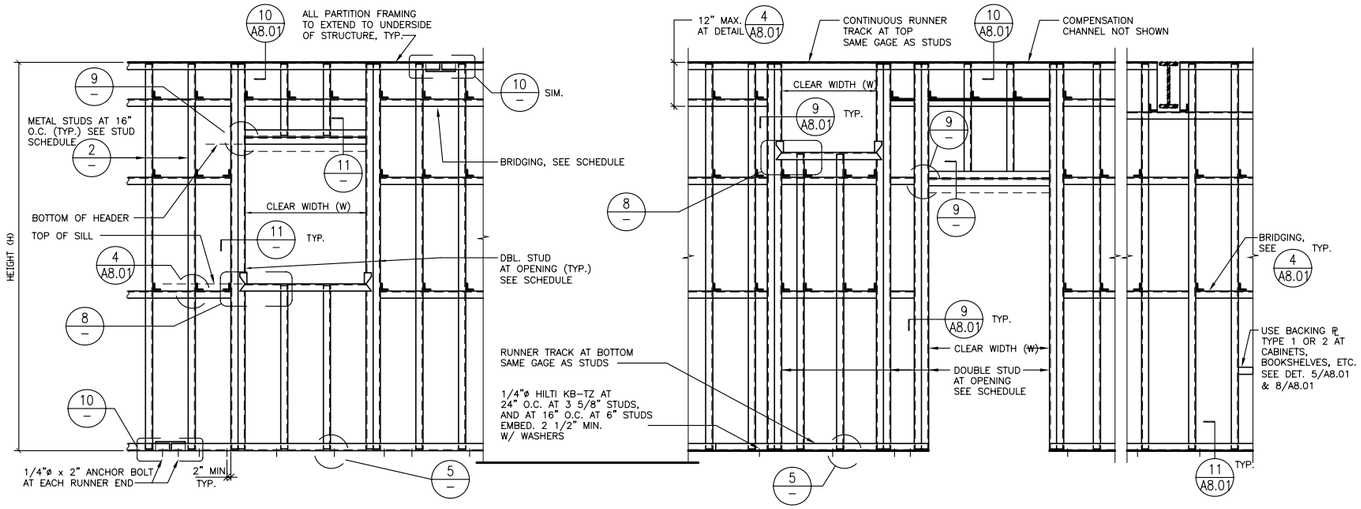
DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	JC
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER
A7.03



10 A8.00 TRACK SPLICE

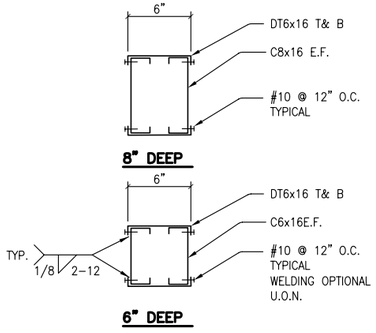
NTS



PARTITION WITH FRAMED OPENINGS — **PARTITION AT BEAM**

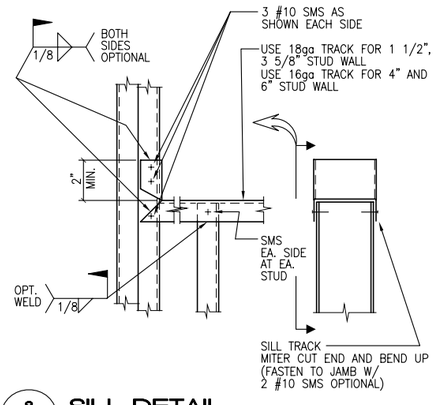
1 A8.00 ELEVATIONS TYPICAL INTERIOR NON-BEARING METAL STUD WALL

NTS



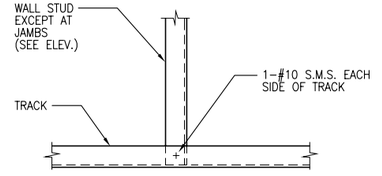
11 A8.00 TYPICAL BOX BEAM

NTS



8 A8.00 SILL DETAIL

NTS



FOR CONNECTION TO TOP TRACK, SEE SECTIONS.

5 A8.00 WALL STUD TO BOTTOM TRACK

NTS

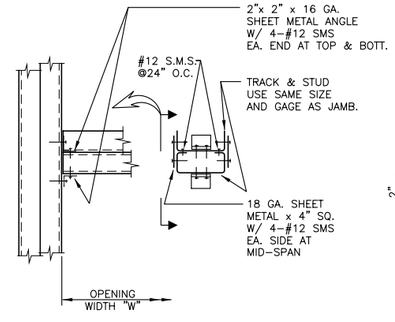
MAXIMUM HEIGHT LENGTH (FEET)	MINIMUM STUD PROPERTIES				
	DEPTH	GAGE (MIN.)	SPACING (U.O.N.)	S_x MIN.	I_x MIN.
10'	3 5/8"	20	16"	0.304	0.551
13'	6"	18	16"	0.772	2.316

NOTES:

1. FRAMING 16 GA. AND HEAVIER TO BE 50 KSI, ALL OTHER FRAMING TO BE 33 KSI MIN.
2. ALL TRACK TO BE 18 GA. W/ 1 1/2" FLANGE, U.O.N.
3. BLOCKING TO MATCH SIZE AND GAGE OF STUD

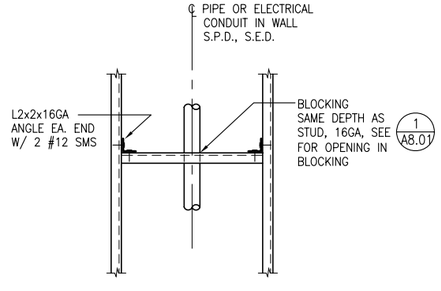
2 A8.00 METAL FRAMING SCHEDULE

NTS



9 A8.00 TYPICAL HEADER SCREWED CONNECTION DETAILS

NTS



6 A8.00 TYPICAL BLOCKING DETAIL @ PIPE IN WALL

NTS

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1700 W. Hillsdale Blvd.
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SHEET TITLE

METAL STUD DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
1	07/02/07	CONFROM SET

DATE	MARCH 9, 2009
DRAWN	JM
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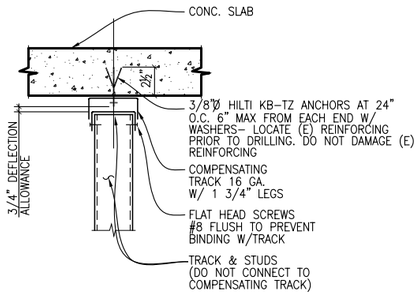
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER

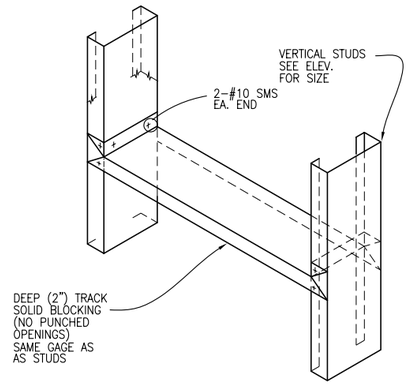
A8.00

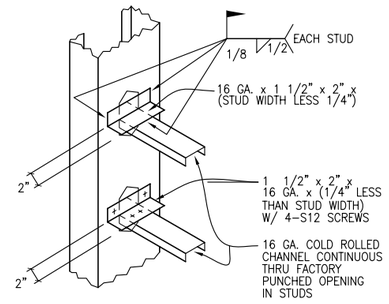


TOP TRACK

10 A8.01 DETAILS @ TOP OF NON-BEARING METAL STUD PARTITION

NTS



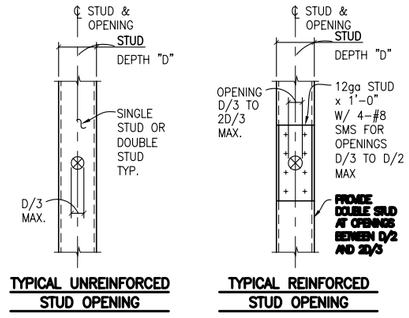


WALL HEIGHT "H"	APPROXIMATE LOCATION
0'-10'	ONE ROW AT MIDSPAN
10'-15'	TWO ROWS AT THIRDSPAN
15'-20'	FOUR ROWS AT QUARTERSPAN

4 A8.01 TYPICAL BRIDGING DETAILS

NOTE: FOR BRIDGING BETWEEN STUDS W/ PUNCHED OPENINGS, THE CONTRACTOR HAS THE OPTION TO WELD OR SCREW PER THIS DETAIL. FOR BRIDGING BETWEEN SOLID STUDS (NO PUNCHED OPENINGS); PROVIDE SCREWS PER DETAIL.

NTS



TYPICAL UNREINFORCED STUD OPENING

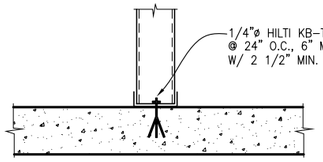
TYPICAL REINFORCED STUD OPENING

NOTE:

1. NO OPENINGS IN METAL STUD GREATER THAN 2D/3 ALLOWED.
2. DO NOT LOCATE OPENINGS AT BACKING PLATE.

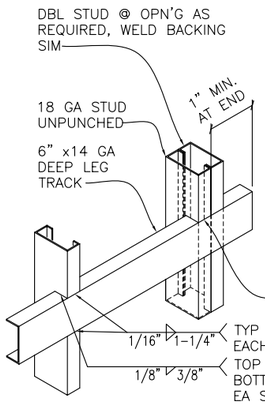
1 A8.01 TYPICAL OPENING IN METAL STUD DETAIL

NTS



11 A8.01 PARTITION @ FLOOR

NTS

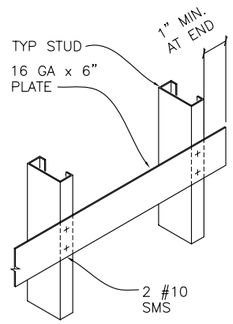


NOTES:

1. USE FOR GRAB BARS AND EQUIPMENT AS NEEDED MAX WT-300 LBS/LINEAR FT
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BEING FASTENED SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN
4. USE #12 SELF TAPPING SCREWS MIN WHEN ATTACHING ITEMS
5. USE DBL STUDS WHEN STUD IS SUPPORTING MORE THAN (2) BACKING PL

8 A8.01 BACKING TYPE 3 MAX 300 LBS/LF LOAD

NTS

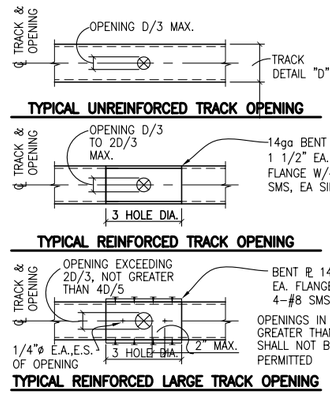


NOTES:

1. USE FOR MISC ITEMS (EXAMPLE: SURFACE MOUNTED MIRROR, WASTE RECEPTACLES, TOWEL DISPENSERS, WALL MOUNTED DOOR STOP, ETC). MAX WT 50 LB POINT LOAD
2. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE & NUMBER REQUIRED W/ ACCESSORY MANUFACTURERS.
3. USE #12 SELF TAPPING SCREWS MIN WHEN ATTACHING ITEMS TO BACKING.
4. SEE FRAMING ELEVATION.

5 A8.01 BACKING TYPE 1 MAX 50 LB POINT LOAD

NTS



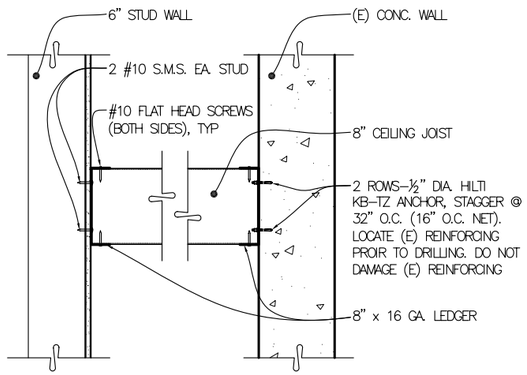
TYPICAL UNREINFORCED TRACK OPENING

TYPICAL REINFORCED TRACK OPENING

TYPICAL REINFORCED LARGE TRACK OPENING

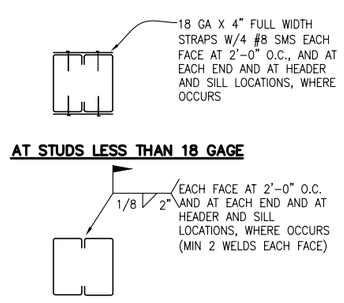
2 A8.01 TYPICAL OPENING IN BOTTOM TRACK DETAIL

NTS



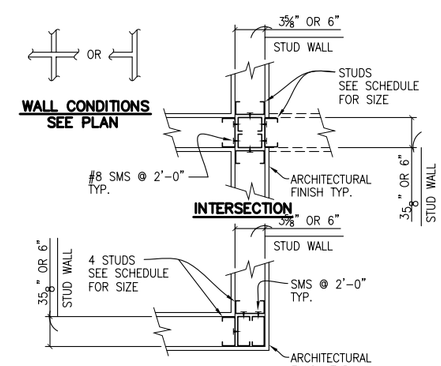
12 A8.01 CEILING JOIST AT RESTROOMS

1 1/2"= 1'-0"



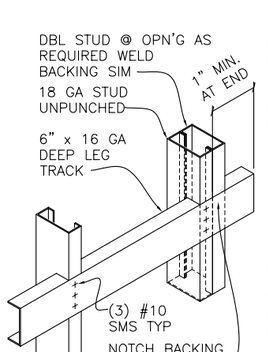
9 A8.01 TYPICAL DOUBLE STUD STITCH DETAIL

NTS



6 A8.01 TYPICAL PLAN DETAILS @ WALL INTERSECTIONS

NTS



NOTES:

1. USE FOR UPPER WALL HUNG CABINETS, FULL HEIGHT CABINETS, HANDRAILS, WALL HUNG EQUIP ETC MAX WT-200 LBS/LIN FT
2. LENGTH, HEIGHT AND LOCATION TO SUIT ITEMS BENG FASTENED. SEE ANCHORAGE DETAIL OF SPECIFIC ITEMS FOR ADDITIONAL INFORMATION.
3. ATTACH TO THREE STUDS MIN.
4. USE #12 SELF TAPPING SCREWS MIN WHEN ATTACHING ITEMS.
5. USE DBL STUDS WHEN STUD IS SUPPORTING MORE THAN (3) BACKING PL
6. USE 16GAx4" PLATE AT LOWER CASEWORK CABINETS.

3 A8.01 BACKING TYPE 2 MAX 200 LBS/LF LOAD

NTS

ARCHITECT OF RECORD
noll & tam
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SHEET TITLE
METAL STUD DETAILS

REVISIONS		
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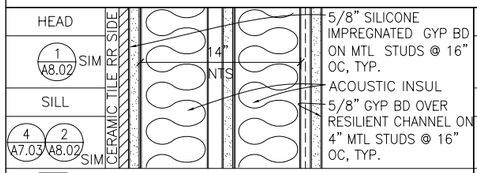
SHEET NUMBER
A8.01

PARTITION NOTES

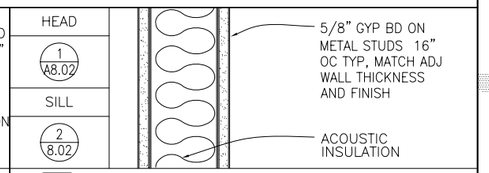
1. REFER TO SHEET A8.00 & A8.01 FOR TYPICAL FRAMING DETAILS AND SCHEDULES
2. PARTITION TYPES INDICATE HEAD CONDITIONS FOR PARTITIONS ATTACHED TO THE BOTTOM OF CONC DECK
3. PROVIDE BACKING AS REQUIRED FOR WALL ATTACHED EQUIPMENT, CASEWORK, AND ACCESSORIES AS REQUIRED TO SUPPORT WEIGHT FOR FIRESTOPPING PER 3/A8.01, 5/A8.01 OR 8/A8.01
4. PROVIDE BLOCKING AND STRAPS WHERE WALL FINISH OCCURS ONLY ONE SIDE OF STUDS OR WHERE NO FINISH OCCURS
5. ALL GYP BOARD TO BE 5/8" TYPE X FOR ONE-HOUR FIRE RESISTIVE CONSTRUCTION THROUGHOUT INDICATED IN THE PARTITION TYPES KEY AS FR

PARTITION TYPES KEY



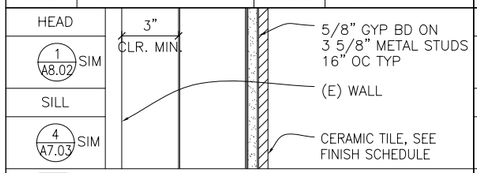
A3 **ACOUSTIC PLUMBING WALL**

FIRE FR SOUND -0-



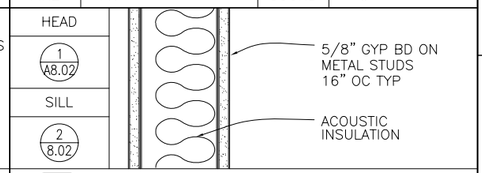
A1 **PARTITION**

FIRE FR SOUND -0-



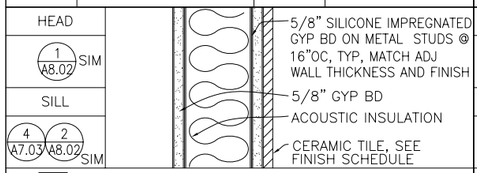
A5 **FULL HEIGHT FURRING**

FIRE FR SOUND -0-



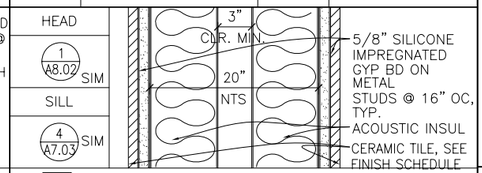
A2 **PARTITION**

FIRE FR SOUND -0-



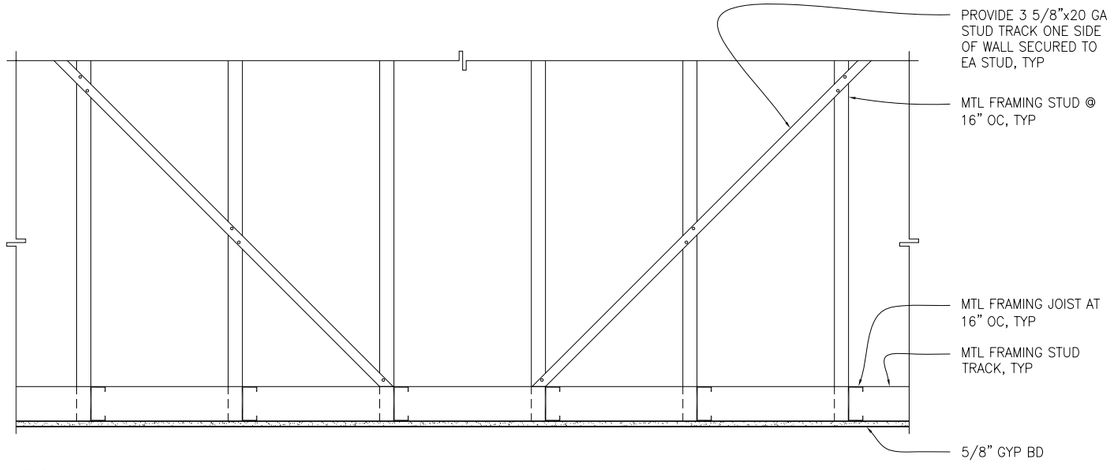
A6 **RR WALL**

FIRE FR SOUND -0-



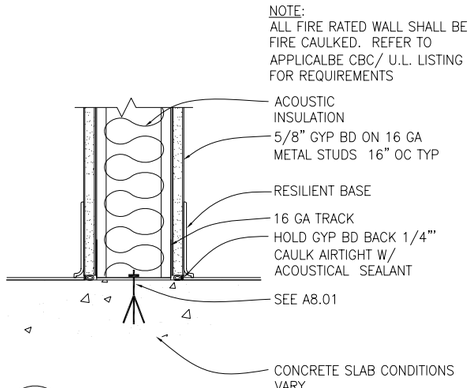
A3 **PLUMBING WALL**

FIRE FR SOUND -0-



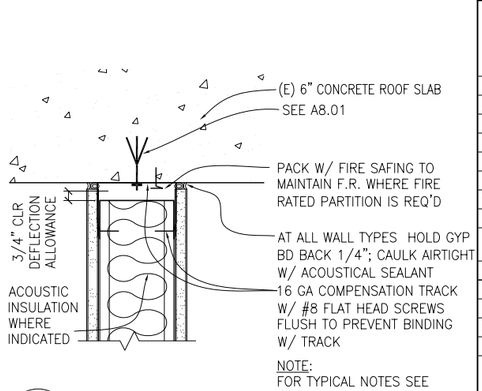
3 A8.02 **DETAIL - SOFFIT DIAGONAL BRACING**

1 1/2" = 1'-0"



2 A8.02 **PARTITION BOTTOM TRACK**

REFER TO WALL TYPES SCHEDULE FOR ADDITIONAL REQUIREMENTS 3"= 1'-0"



1 A8.02 **TOP TRACK**

REFER TO WALL TYPES SCHEDULE FOR ADDITIONAL REQUIREMENTS 3"= 1'-0"

ARCHITECT OF RECORD

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 XXXXX
AC _____ FLS _____ SS
DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402

College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

PARTITION TYPES AND DETAILS

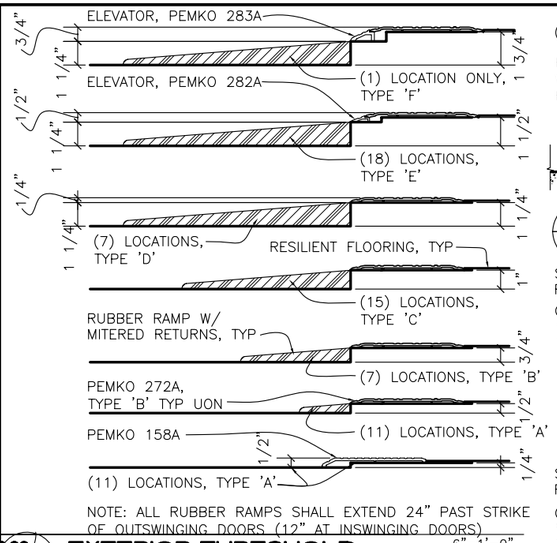
REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	JC
SCALE	AS NOTED
N&T JOB NO.:	2901

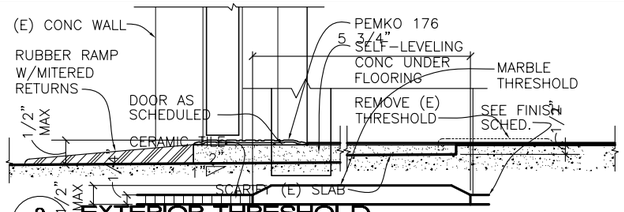
SHEET NUMBER

A8.02



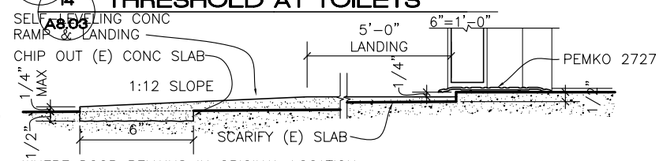
NOTE: ALL RUBBER RAMPS SHALL EXTEND 24" PAST STRIKE OF OUTSWINGING DOORS (12" AT INSWINGING DOORS)

A8.03/8 A8.03 EXTERIOR THRESHOLD 6"=1'-0"
WHERE OFFSET MATCHES DIMENSIONS HERE 3"-1'-0"

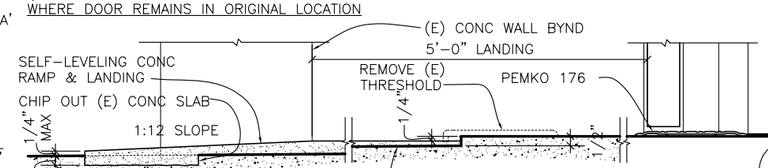


9 A8.03 EXTERIOR THRESHOLD
WHERE (N) DOOR LOCATION IS SET FORWARD FROM ORIGINAL LOCATION 3"-1'-0"

14 A8.03 THRESHOLD AT TOILETS 6"=1'-0"

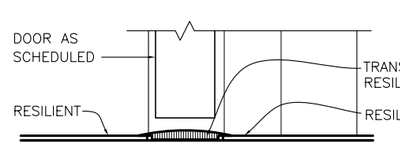


WHERE DOOR REMAINS IN ORIGINAL LOCATION

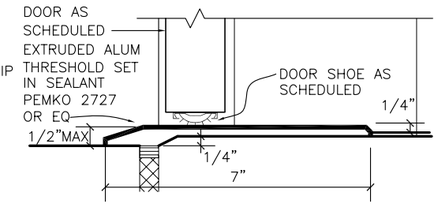


WHERE (N) DOOR IS SET BACK FROM ORIGINAL LOCATION

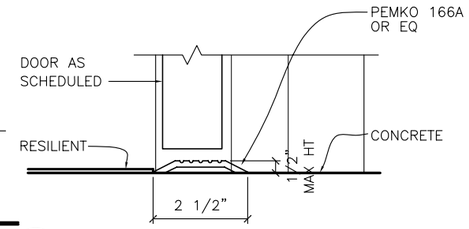
10 A8.03 EXTERIOR THRESHOLD
AT CONC LANDINGS AND RAMPS 3"-1'-0"



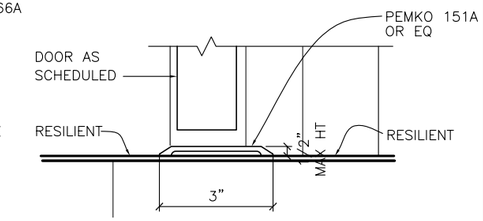
5 A8.03 RESILIENT / RESILIENT 6"=1'-0"



1 A8.03 EXTERIOR 6"=1'-0"

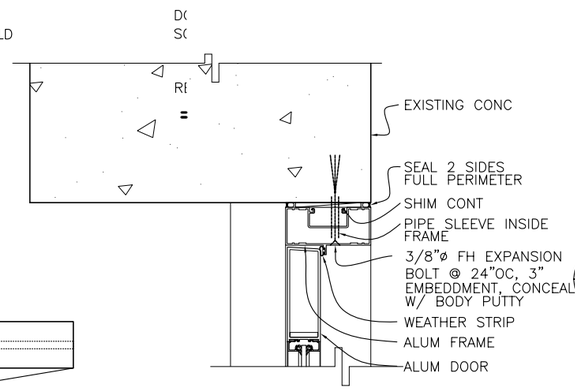


6 A8.03 RESILIENT/CONCRETE 6"=1'-0"

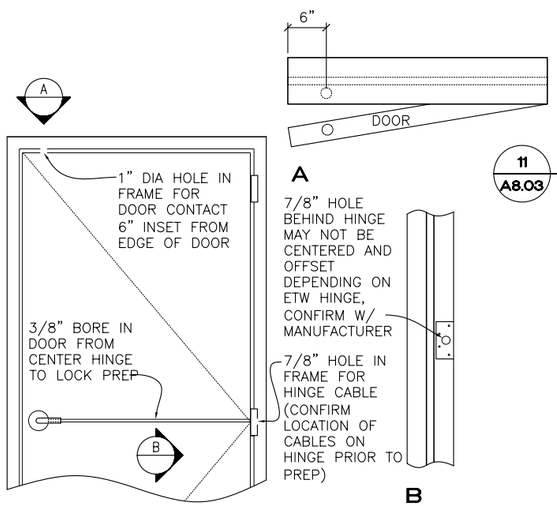


2 A8.03 RESILIENT/RESILIENT 6"=1'-0"

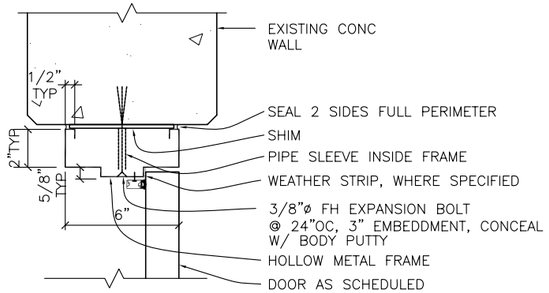
14 A8.03 THRESHOLD AT TOILETS 6"=1'-0"



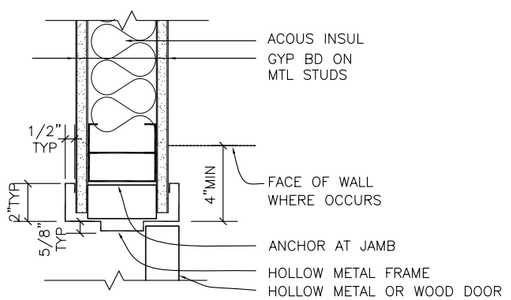
11 A8.03 ALUM DOOR IN (E) CONC JAMB - HEAD SIM 3"-1'-0"



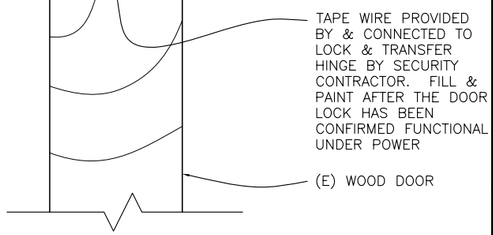
15 A8.03 DOOR AND FRAME PREPARATION
FOR DOORS TO RECEIVE SECURITY HARDWARE NTS



7 A8.03 DOOR IN (N) OR (E) CONC WALL JAMB - HEAD SIM 3"-1'-0"

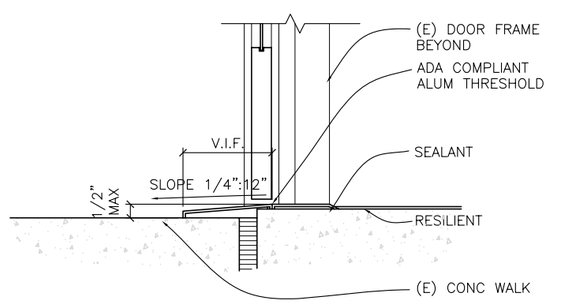


8 A8.03 INTERIOR DOOR JAMB - HEAD SIM 3"=1'-0"



3 A8.03 DOOR PREP FOR ELECTRIFIED LOCKS @ (E) WOOD DOORS FULL SIZE

NOTE: 1/2" MAX. BETWEEN FINISH FLOOR ON BOTH SIDES OF THRESHOLD, TYP.



4 A8.03 (N) THRESHOLD @ ALUM STOREFRONT 3"=1'-0"

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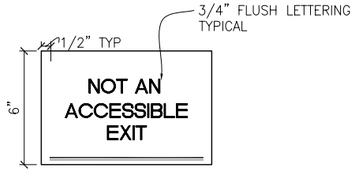
San Mateo, CA 94402

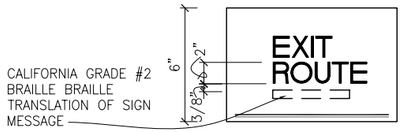
SHEET TITLE
DOOR DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	SW
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901

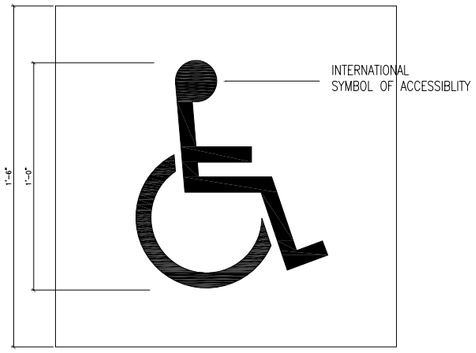
SHEET NUMBER
A8.03





13 A8.04 DIRECTIONAL SIGN
WALL MOUNTED — 3"=1'-0"

9 A8.04 DIRECTIONAL SIGN
WALL MOUNTED — 3"=1'-0"

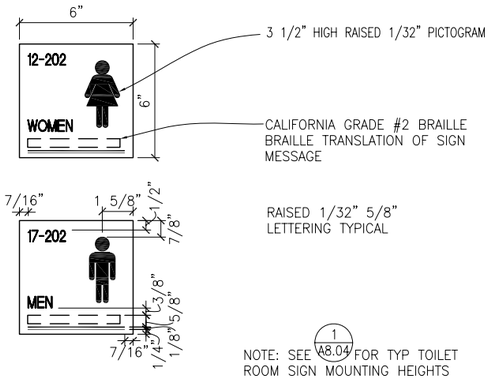


NOTES:

PANEL FINISH:	70% CONTRASTING COLOR
GRAPHIC METHOD:	SCREEN PROCESS
GRAPHIC COLOR:	BONE WHITE

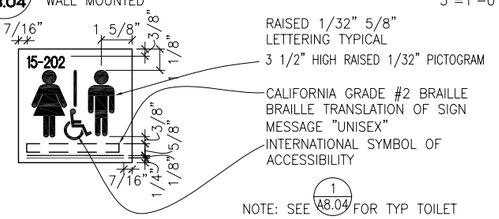
MOUNT SIGN PROMINENTLY ON THE WALL AT 60" ABOVE FINISH FLOOR TO CENTER OF SIGN.

14 A8.04 ACCESSIBLE ENTRANCE SIGN
WALL MOUNTED — 3"=1'-0"



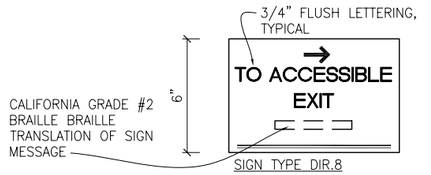
NOTE: SEE (1 / A8.04) FOR TYP TOILET ROOM SIGN MOUNTING HEIGHTS

10 A8.04 TOILET ROOM SIGN
WALL MOUNTED — 3"=1'-0"

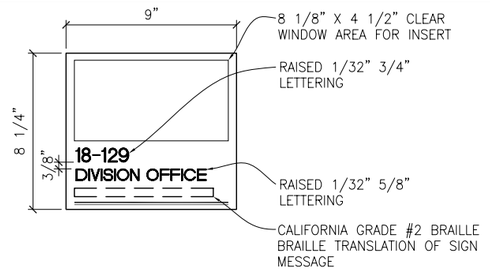


NOTE: SEE (1 / A8.04) FOR TYP TOILET ROOM SIGN MOUNTING HEIGHTS

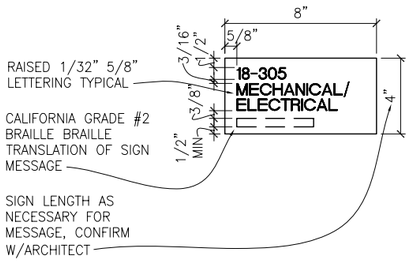
11 A8.04 TOILET ROOM SIGN
UNISEX TOILET ROOM SIGN — 3"=1'-0"



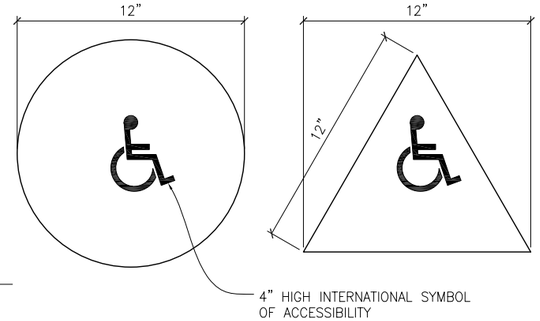
12 A8.04 DIRECTIONAL SIGN
WALL MOUNTED — 3"=1'-0"



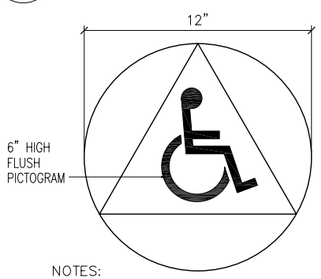
5 A8.04 TYP ROOM IDENTIFICATION SIGN
WALL AND GLASS MOUNTED — 3" = 1'-0"



6 A8.04 TYP ROOM IDENTIFICATION SIGN
WALL AND GLASS MOUNTED — 3" = 1'-0"



7 A8.04 TOILET ROOM SIGN
DOOR MOUNTED — NTS



NOTES:

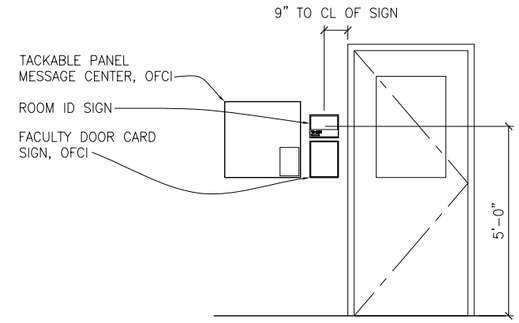
PANEL FINISH:

GRAPHIC/TEXT COLOR:

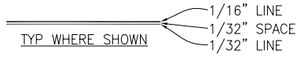
MOUNT SIGN CENTERED ON DOOR AT 60" ABOVE FINISH FLOOR TO CENTER OF SIGN.

8 A8.04 UNISEX TOILET ROOM SIGN
DOOR MOUNTED — NTS

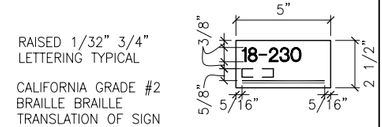
NOTE:
1. ALL SIGNS TO BE PMS COLOR 5463, GREEN, WITH WHITE LETTERING AND SYMBOLS, UON
2. SEE (4 / A8.04) FOR TYPICAL SPACING FOR ALL SIGNS



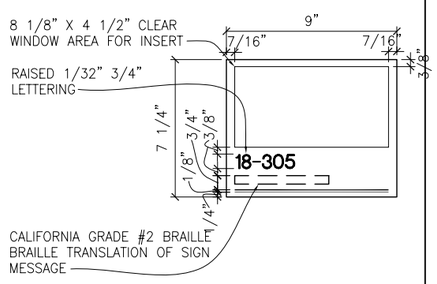
1 A8.04 TYP OFFICE SIGN MOUNTING HEIGHTS
WALL MOUNTED — 1/2"=1'-0"



2 A8.04 TYP ROOM IDENTIFICATION SIGN
WALL AND GLASS MOUNTED — 3" = 1'-0"



3 A8.04 TYP ROOM IDENTIFICATION SIGN
WALL AND GLASS MOUNTED — 3" = 1'-0"



4 A8.04 TYP ROOM IDENTIFICATION SIGN
WALL AND GLASS MOUNTED — 3" = 1'-0"

ARCHITECT OF RECORD
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DSA SUBMITTAL

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BUILDING 15 MODERNIZATION

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College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
SIGNAGE DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
2	10/20/06	ADDENDUM NO. 1 BLDG 16&18 MODERNIZATION
4	06/04/08	BULLETIN 024

DATE	MARCH 9, 2009
DRAWN	SW
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER
A8.04

ARCHITECT OF RECORD

noll & tam

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 XXXX

AC _____ FLS _____ SS

DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

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3401 CSM Drive
San Mateo, CA 94402

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1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

BUILDING 15 FINISH SCHEDULE AND DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	CB
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901

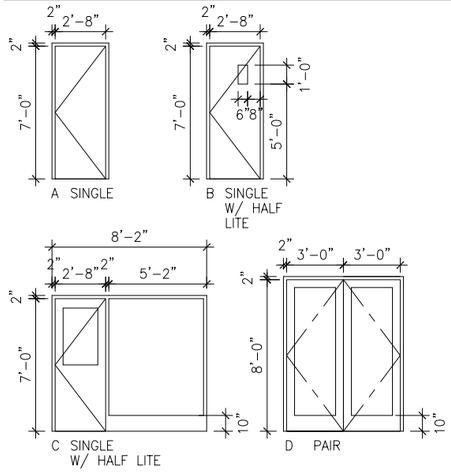
SHEET NUMBER

A8.11

BUILDING 15 DOOR SCHEDULE

ROOM	DOOR	SIZE	TYPE	NEW/ EXIST	FINISH	FRAME	NEW/ EXIS	FINISH	DOOR	RATE	DETAILS			SIGN	HDW	REMARKS
											HEAD	JAMB	SILL			
H1	A	6'-0" X 8'-0"	D	NEW	ANOD	ALUM	NEW	ANOD	ALUM	0	-	-	-	-	1	ACAMS, PANIC HDW
H1	B	6'-0" X 8'-0"	D	NEW	ANOD	ALUM	NEW	ANOD	ALUM	0	-	-	-	-	2	DOOR CONTACT, PANIC HDW
H2	A	6'-0" X 8'-0"	D	NEW	ANOD	ALUM	NEW	ANOD	ALUM	0	-	-	-	-	1	ACAMS, PANIC HDW
H2	B	6'-0" X 8'-0"	D	NEW	ANOD	ALUM	NEW	ANOD	ALUM	0	-	-	-	-	2	DOOR CONTACT, PANIC HDW
101	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
103	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
105	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
107	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
109	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
111	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
113	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	4	-
113	B	3'-0"X7'-0"	A	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	4A	-
114	A	3'-0"X7'-0"	B	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	4A	-
114	B	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	4	-
115	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	5	-
117	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	5	-
120	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
121	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
122	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
123	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
124	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
125	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
126	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
127	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
128	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
129	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
130	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
131	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
132	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
133	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
134	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
135	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
140	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
142	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
144	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
146	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
148	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
150	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
152	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
154	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
155	A	3'-0"X7'-0"	B	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	6	-
155	B	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
155A	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	5	-
156	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
158	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
161	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
162	A	3'-0"X7'-0"	A	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	7	-
163	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
164	A	3'-0"X7'-0"	A	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	7	-
165	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
166	A	3'-0"X7'-0"	C	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	8	ACAMS
166	B	3'-0"X7'-0"	A	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	8A	-
167	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
168	A	3'-0"X7'-0"	B	NEW	CLR	HM	NEW	PTD	WD, SC	0	-	-	-	-	8	ACAMS
169	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
171	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
172	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
173	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-
174	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	5	-
175	A	2'-8"X7'-0"	-	EXIST	-	HM	EXIST	-	WD, SC	0	-	-	-	-	3	-

DOOR TYPES



DOOR SCHEDULE KEY

1. (N) CONC LANDING, 5'X5' AT OUT SWINGING DOORS, 4'X4' AT IN SWINGING DOORS. PROVIDE 1:12 CONC RAMP FROM (E) EXTERIOR SLAB TO LANDING
2. ADDITIVE ALTERNATE NO. 5 – PROVIDE NEW FRP DOOR TYPE D AND HM FRAME AT THIS LOCATION, SEE HARDWARE SCHEDULE IN SPECIFICATION SECTION 08710 FOR HARDWARE GROUP
3. ADDITIVE ALTERNATE NO. 5 – PROVIDE NEW FRP DOOR TYPE F AND HM FRAME AT THIS LOCATION, SEE HARDWARE SCHEDULE IN SPECIFICATION SECTION 08710 FOR HARDWARE GROUP
4. FOR BIDDING PURPOSES, ASSUME ALL (E) DOORS ARE WOOD
5. FIELD VERIFY EXISTING DOOR DIMENSIONS

DOOR NOTES

1. REFER TO SPECIFICATION FOR HARDWARE GROUPS
2. DOORS: 1 3/4" THICK U.O.N.
3. SEE (3/A8.03) FOR DOOR PREPARATION FOR ACCESS CONTROL & ALARM MONITORING SYSTEM AT EXISTING WOOD DOORS TO REMAIN
4. SEE (15/A8.03) FOR DOOR PREPARATION FOR ACCESS CONTROL & ALARM MONITORING SYSTEM AT NEW DOORS
5. SEE A12.11–A12.33 FOR DOOR SIGNS LOCATIONS
6. WHERE SPECIFIED, (N) DOOR HOOKS SHOULD BE INSTALLED AT THE INSIDE FACE OF DOOR, 54" MAX. AFF. (N) DOOR HOOKS TO MATCH (E).

WINDOW NOTES

1. ALL EXTERIOR WINDOWS TO RECEIVE SHADES, ALL INTERIOR WINDOWS, DOOR LITES & SIDELITES TO RECEIVE BLINDS
2. WHERE (N) WINDOWS ARE INSTALLED IN (E) OPENINGS, VIF ALL DIMENSIONS

ARCHITECT OF RECORD
noll & tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01 XXXXX
AC _____ FLS _____ SS
DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

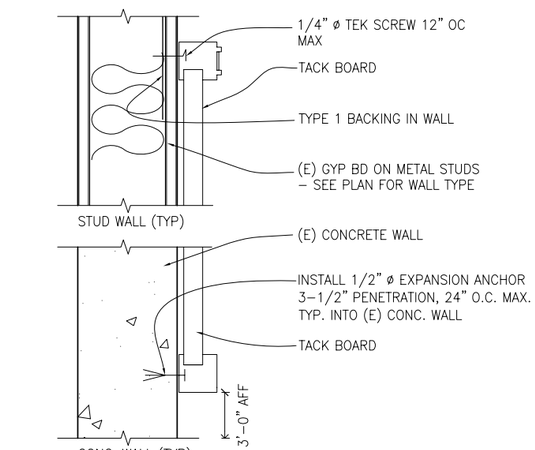
COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
BUILDING 15 DOOR SCHEDULE

REVISIONS		
NO.	DATE	DESCRIPTION

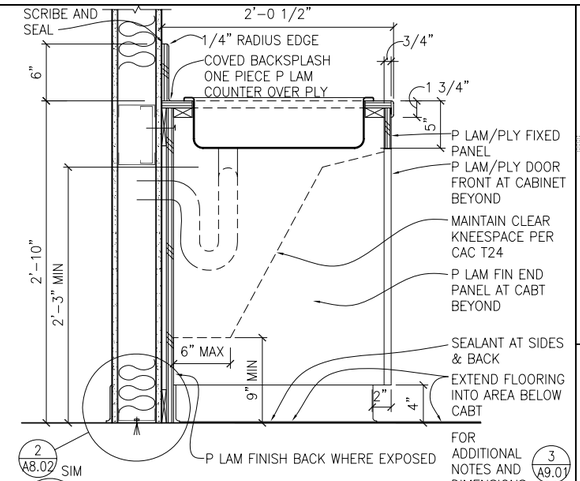
DATE	MARCH 9, 2009
DRAWN	TC
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER
A8.12



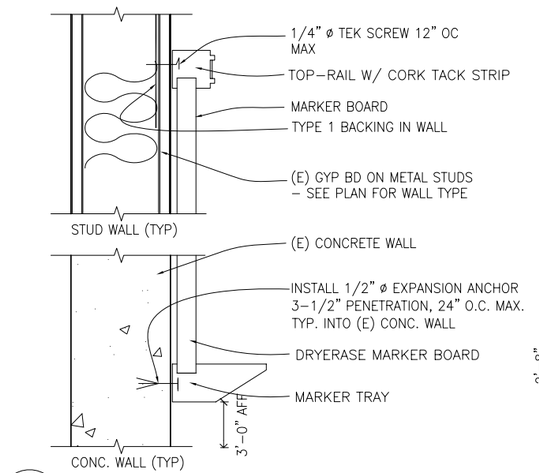
4 A9.01 **TACK BOARD**

3" = 1'–0"



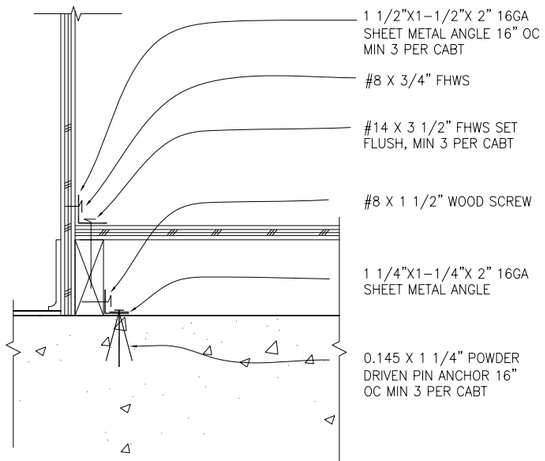
1 A9.01 **SINK BASE**

1 1/2" – 1'–0"



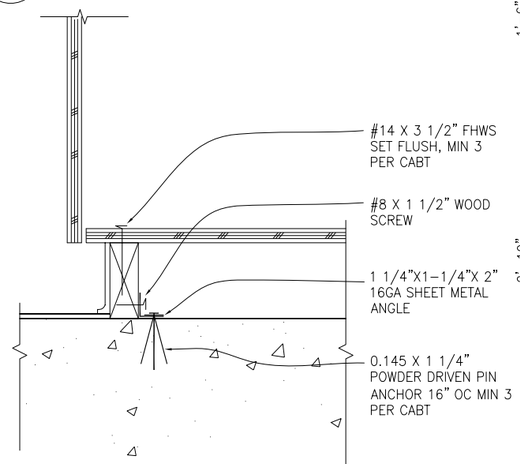
5 A9.01 **MARKER BOARD DETAIL**

3" = 1'–0"



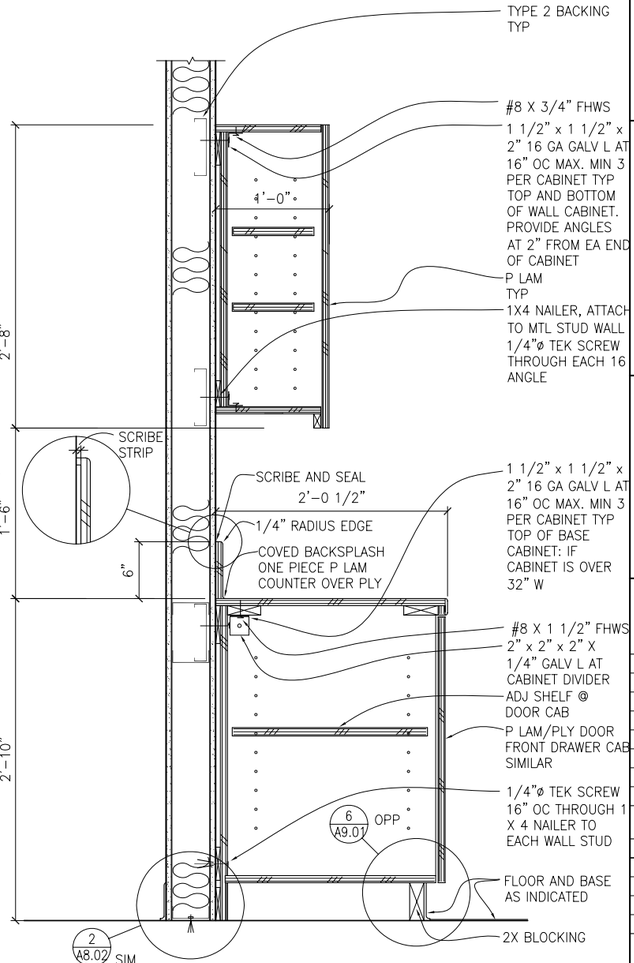
9 A9.01 **CLOSED BASE CABT ANCHORAGE TO SLAB**

3" = 1'–0"



6 A9.01 **BASE CABINET ANCHORAGE TO SLAB**

3" = 1'–0"



3 A9.01 **BASE CABINETS + WALL CASE ANCHORAGE**

1 1/2" – 1'–0"

ARCHITECT OF RECORD
noll & tam
architects and planners
729 Heinz Avenue
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fax 510.649.3008

IDENTIFICATION STAMP
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APPLICATION NUMBER 01 XXXXX
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STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

SMCCCD
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San Mateo, CA 94402

College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

CASEWORK AND MISC. INTERIOR DETAILS

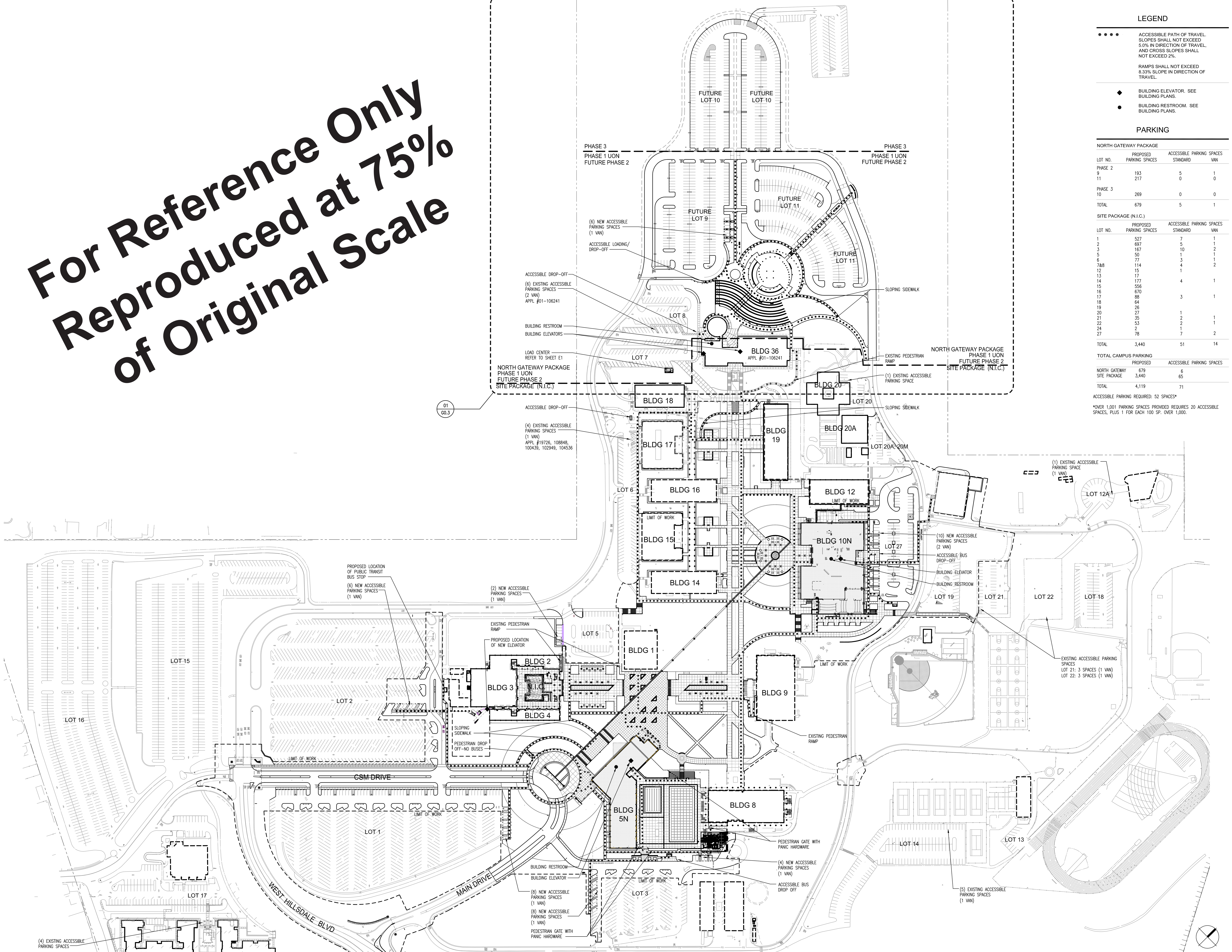
REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	
CHECKED	
SCALE	AS NOTED
N&T JOB NO.:	2901

SHEET NUMBER

A9.01



LEGEND

● ● ● ●	ACCESSIBLE PATH OF TRAVEL. SLOPES SHALL NOT EXCEED 5.0% IN DIRECTION OF TRAVEL, AND CROSS SLOPES SHALL NOT EXCEED 2%. RAMPS SHALL NOT EXCEED 8.33% SLOPE IN DIRECTION OF TRAVEL.
◆	BUILDING ELEVATOR. SEE BUILDING PLANS.
●	BUILDING RESTROOM. SEE BUILDING PLANS.

PARKING

NORTH GATEWAY PACKAGE

LOT NO.	PROPOSED PARKING SPACES	ACCESSIBLE PARKING SPACES STANDARD	VAN
PHASE 2			
9	193	5	1
11	217	0	0
PHASE 3			
10	269	0	0
TOTAL	679	5	1

SITE PACKAGE (N.I.C.)

LOT NO.	PROPOSED PARKING SPACES	ACCESSIBLE PARKING SPACES STANDARD	VAN
1	527	7	1
2	697	5	1
3	167	10	2
5	50	1	1
6	77	3	1
7&8	114	4	2
12	15	1	
13	17		
14	177	4	1
15	556		
16	670		
17	88	3	1
18	64		
19	26		
20	27	1	
21	35	2	1
22	53	2	1
24	2	1	
27	78	7	2
TOTAL	3,440	51	14

TOTAL CAMPUS PARKING

	PROPOSED	ACCESSIBLE PARKING SPACES
NORTH GATEWAY	679	6
SITE PACKAGE	3,440	65
TOTAL	4,119	71

ACCESSIBLE PARKING REQUIRED: 52 SPACES*

*OVER 1,001 PARKING SPACES PROVIDED REQUIRES 20 ACCESSIBLE SPACES, PLUS 1 FOR EACH 100 SP. OVER 1,000.

PROPOSED PATH OF TRAVEL | 1" = 100' | 01

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LPA
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F 916 | 772-4330
E lpa@lpainc.com
W www.lpainc.com

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01

AC ____________ FLS ____________ SS ____________.

DATE

CALIFORNIA STATE FIRE MARSHAL
APPROVED

APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

REVIEWED BY: ____________________ DATE:

GSA-TSD PROJECT
xxxx
STATE PROJECT
xxxx

CSM NORTH GATEWAY

West Hillsdale Blvd
San Mateo, CA
94402

REGISTERED LANDSCAPE ARCHITECT
KEVIN MICHAEL SULLIVAN
Signature
NO. 2188
RENEWAL 5-31-10
Date
STATE OF CALIFORNIA

50%
CONSTRUCTION
DOCUMENTS

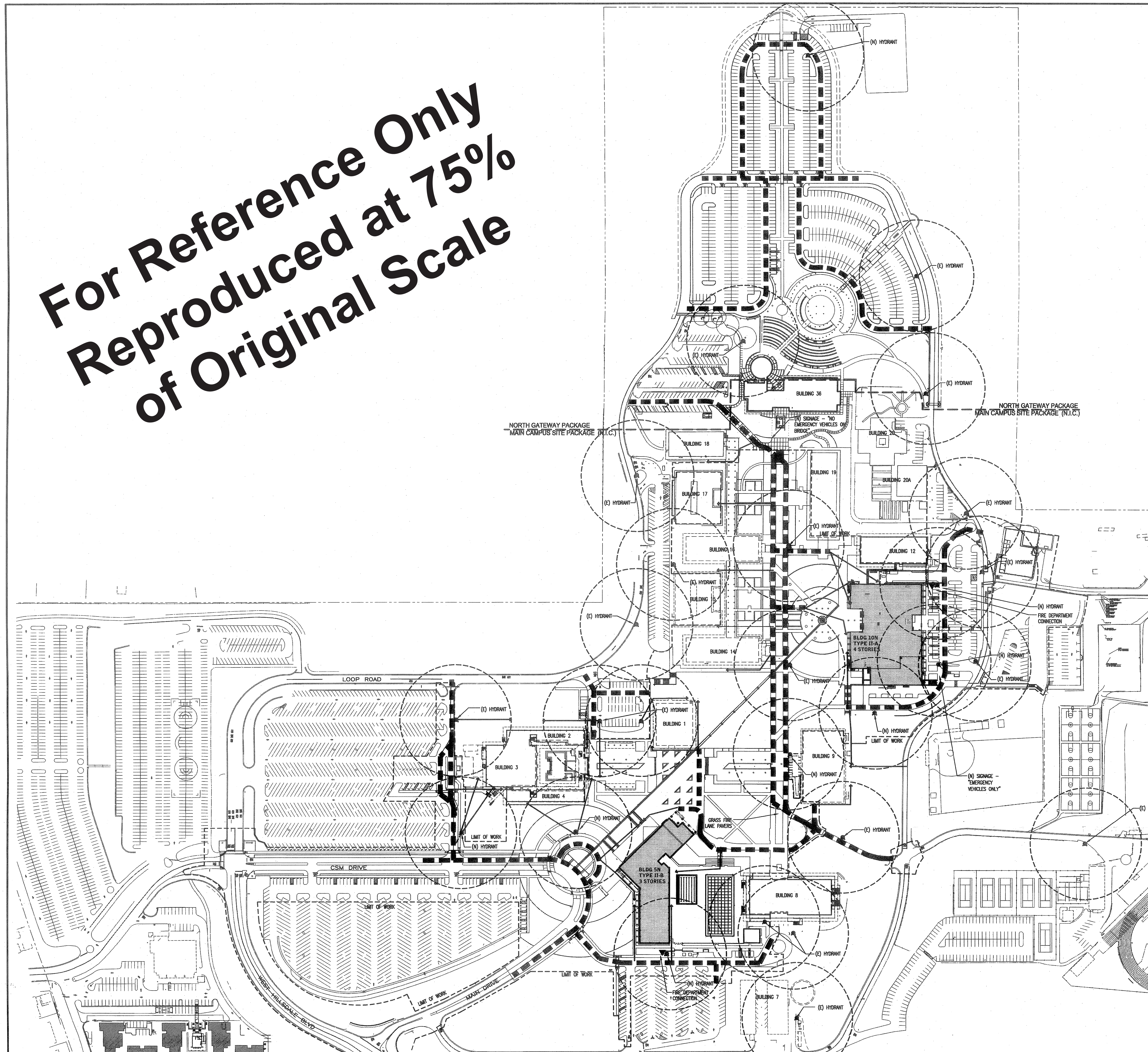
SHEET TITLE
OVERALL SITE
PROPOSED
PATH OF TRAVEL

REVISIONS

NO.	DATE	DESCRIPTION

DATE	11 OCT. 2008
DRAWN	RF, MT
CHECKED	SM
SCALE	1" = 100'
JOB NO.	28066.10

SHEET NUMBER
R-1



LOCAL FIRE AUTHORITY APPROVAL

LOCAL FIRE AUTHORITY REVIEW
Local Fire Authority to initial or indicate as N/A the items as related to this project and sign below.

ACCESS ROADS AND FIRE HYDRANTS

______ Access Roads and Gate Entrances are in accordance with Title 19, California Code of Regulations Subchapter 1, Article 3.05 (Access Roads) and Article 3.16 (Gate Entrances) to school sites.

______ Fire Flow, Fire Hydrant location and distribution are in accordance with California Fire Code, Appendix III–A (Fire Flow) and Appendix III–B (Hydrant Locations).

AUTOMATIC FIRE SPRINKLER SYSTEM

______ The location(s) of the proposed Post Indicator Valve (PIV) and Fire Department Connection (FDC) meets the requirements of this jurisdiction at this time.

______ The location(s) of the Detector Check Valve Assembly (DCVA) meets the requirements of this jurisdiction at this time.

LOCAL FIRE AUTHORITY: SAN MATEO FIRE DEPARTMENT
ADDRESS: 1900 O'FARRELL STREET
CITY/STATE/ZIP: SAN MATEO, CA 94403
PHONE NUMBER: (650) 522-7900
APPROVAL ISSUED BY: Michael Leo[illegible]
SIGNATURE: [signature]
RANK/TITLE: Fire Marshal
COMMENTS: ______

A signature above signifies that the Local Fire Authority has reviewed the proposed locations and was consulted regarding the placement of the PIV(s), FDC(s), DCVA(s) and Hydrants. The current configuration shown, as of this date, meets with their current standards. Changes made after the above date must be resubmitted and approved prior to installation.

LEGEND

- 14'-0" WIDE FIRE ACCESS LANE (MINIMUM)
- GRASS FIRE LANE PAVERS
- 150 FOOT HOSE LENGTH
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- FUTURE BUILDING FOOTPRINT

noll & tam
architects and planners
729 Heinz Avenue
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fax 510.649.3008

LPA
Architecture
Planning
Interior Design
Landscape Architecture
Graphics

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Roseville, California 95661

P 916 | 772-4300
F 916 | 772-4330
E lpa@lpainc.com
W www.lpainc.com

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01
AC ______ FLS ______ SS
DATE

CALIFORNIA STATE FIRE MARSHAL
APPROVED

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REVIEWED BY: ______ DATE:

CSM NORTH GATEWAY

West Hillsdale Blvd
San Mateo, CA
94402

REGISTERED LANDSCAPE ARCHITECT
KEVIN MICHAEL SULLIVAN
NO. 2166
RENEWAL 3-31-10
STATE OF CALIFORNIA

PERMIT SET

SHEET TITLE
OVERALL SITE FIRE ACCESS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	19 DEC 08
DRAWN	RF
CHECKED	KS
SCALE	
JOB NO.	28066.10

SHEET NUMBER
R-2

OVERALL SITE FIRE ACCESS PLAN | 1" = 100'-0" | 01

College of San Mateo

BUILDING 15 MODERNIZATION

1700 W. HILLSDALE BLVD., SAN MATEO CALIFORNIA

acco engineered systems

1133 ALADDIN AVE. , SAN LEANDRO, CALIFORNIA 94577
Office (510)346-4300 Fax (510)347-1313

HVAC LEGEND

DUCT SYMBOL LEGEND

SYMBOL	DESCRIPTION
(N) ☒ ☒ (E)	NEW(N) & EXISTING(E) RECTANGULAR SUPPLY AIR DUCT RISER
(N) ◪ ◪ (E)	NEW(N) & EXISTING(E) RECTANGULAR RETURN AIR DUCT RISER
(N) ◪ ◪ (E)	NEW(N) & EXISTING(E) RECTANGULAR EXHAUST AIR DUCT RISER
(N) ⊘ ⊘ (E)	NEW(N) & EXISTING(E) ROUND AIR DUCT RISER
	NEW SINGLE & DOUBLE LINE RECTANGULAR OR ROUND DUCT
	EXISTING SINGLE & DOUBLE LINE RECTANGULAR OR ROUND DUCT
	EXISTING DUCTWORK TO BE DEMOLISHED
	SINGLE & DOUBLE LINE DUCTWORK WITH TRANSITIONAL FITTING
SQUARE ROUND	SQUARE TO ROUND TRANSITIONAL FITTING
SQUARE OVAL	SQUARE TO OVAL TRANSITIONAL FITTING
① ②	90° RADIUS ELBOW ①, 90° SQUARE ELBOW WITH TURNING VANES ②
① ②	ROUND DUCT TURNING DOWN ①, RECT. DUCT TURNING DOWN ②
AT	AIR TIGHT (DOOR, SHAFT, ETC.) BY OTHERS.
	BACK DRAFT DAMPER
	CEILING OR DUCT ACCESS PANEL OR DOOR
℄	CENTER LINE
X.XX	DETAIL NUMBER DETAIL CALL OUT SYMBOL SHEET NUMBER
	EXHAUST AIR GRILLE (NEW & EXISTING – 24x24 PANEL)
	EXHAUST AIR REGISTER (NEW & EXISTING – SURF. MTD.)
E	ELECT. CONN. LOCATION TO EQUIP. (APPROX.) BY ELECT. CONT'R.
EQ	EQUIPMENT TAG LABEL
	FIRE DAMPER (SINGLE LINE AND DOUBLE LINE)
FSD	FIRE/SMOKE DAMPER (SINGLE LINE AND DOUBLE LINE)
FD	FIRE DAMPER LABEL
FSD	FIRE/SMOKE DAMPER LABEL
	FLEXIBLE DUCT
	LINEAR DIFFUSER (SUPPLY OR RETURN)

DUCT SYMBOL LEGEND

SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER
M	MECH. CONT'R. TO PROVIDE EQUIPMENT & INSTALLATION (U.N.O.)
	MOTORIZED DAMPER (ELECTRIC)
	MOTORIZED DAMPER (PNEUMATIC)
	POINT OF CONNECTION
	RETURN AIR GRILLE (NEW & EXISTING – 24x24 PANEL)
	RETURN AIR REGISTER (NEW & EXISTING – SURF. MTD.)
	RETURN AIR GRILLE – 24x12 (NEW & EXISTING – T–BAR CEIL'G.)
	REVISION CLOUD
X	REVISION DELTA
	ROUND CEILING DIFFUSER (NEW & EXISTING)
X.XX	SECTION NUMBER SECTION CALL OUT SYMBOL SHEET NUMBER
	SUPPLY AIR GRILLE (NEW & EXISTING – 24x24 PANEL)
	SUPPLY AIR REGISTER (NEW & EXISTING – SURF. MTD.)
S	SMOKE DETECTOR (AREA TYPE)
	SMOKE DETECTOR (DUCT TYPE)
	SIDE WALL REGISTER, GRILLE
$	WALL SWITCH
T	THERMOSTAT WITH ZONE NUMBER
	TRANSFER AIR GRILLE (NEW & EXISTING – SURF. MTD.)
	COOLING ONLY VAV BOX WITH SQUARE TO ROUND OUTLET
	REHEAT VAV BOX WITH SQUARE TO ROUND OUTLET
	COOLING ONLY VAV BOX WITH RECTANGULAR LINED S.M. PLENUM
	REHEAT VAV BOX WITH RECTANGULAR LINED S.M. PLENUM
12"ø–4W 250 CFM 12x12–4W 250 CFM	DIFFUSER NECK SIZE – AIR PATTERN – AIR VOLUME

PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	AUTOMATIC AIR VENT
	BALL VALVE
	BUTTERFLY VALVE
	BLIND FLANGE
	CHECK VALVE
	CIRCUIT SETTER
	DRAIN (ROOF, FLOOR)
	END CAP
	FLOW SWITCH
	GATE VALVE
	FLEXIBLE CONNECTION
	FLOW CONTROL
	PETE'S PLUG
	PIPE (NEW)
	PIPE (EXISTING)
	PRESSURE GAUGE WITH COCK
	REDUCER
X	WATER SYSTEM TYPE PIPE RISER CALL OUT SYMBOL RISER NUMBER
	SCHRAEDER VALVE
	STRAINER
	STRAINER W/DRAIN VALVE AND HOSE ADAPTER
	TEMPERATURE SENSOR WELL
	THERMOMETER
	TRIPLE DUTY VALVE
	UNION
	VENT
	VICTAULIC COUPLING (3)
	WATER FLOW DIRECTION

ABBREVIATIONS

ABBRV.	DESCRIPTION	ABBRV.	DESCRIPTION
ABV.	ABOVE	GA.	GAUGE
A/C	AIR CONDITIONING	GALV.	GALVANIZED
A.D.	ACCESS DOOR	G.C.	GENERAL CONTRACTOR
ADJ.	ADJACENT	G.I.	GALVANIZED IRON
A.F.F.	ABOVE FINISHED FLOOR	G.V.	GATE VALVE
A.P.	ACCESS PANEL	GEN.	GENERAL
APPROX.	APPROXIMATE	GPH	GALLONS PER HOUR
&	AND	GPM	GALLONS PER MINUTE
@	AT	GYP	GYPSUM
BD.	BOARD	HGT.	HEIGHT
B.D.D.	BACKDRAFT DAMPER	HI.	HIGH
B.F.	BOTTOM FLAT	H.O.A.	HAND–OFF–AUTO
BF.V.	BUTTERFLY VALVE	HR.	HOUR
B.O.D.	BOTTOM OF DUCT	HWR	HOT WATER RETURN
B.O.P.	BOTTOM OF PIPE	HWS	HOT WATER SUPPLY
B.V.	BALL VALVE	I.D.	INSIDE DIMENSION
BLDG.	BUILDING	IN. / "	INCH
BTM.	BOTTOM	INSUL	INSULATION
CLG	CEILING	INT.	INTERIOR
CFM	CUBIC FEET PER MINUTE	(L)	LINED
CH.V.	CHECK VALVE	L	LONG
CHWR	CHILLED WATER RETURN	LBS.	POUNDS
CHWS	CHILLED WATER SUPPLY	L.D.	LINEAR DIFFUSER
CMU	CONCRETE MASONRY UNIT	M.A.	MIXED AIR
CONC.	CONCRETE	MACH.	MACHINE
CONN.	CONNECTION	MAN.	MANUAL
CONT'R.	CONTRACTOR	MAX.	MAXIMUM
CWR	CONDENSER WATER RETURN	M.D.	MOTORIZED DAMPER
CWS	CONDENSER WATER SUPPLY	MECH.	MECHANICAL
COND.	CONDENSATE	MFR.	MANUFACTURER
DMP'R.	DAMPER	MIN.	MINIMUM
DET.	DETAIL	MISC.	MISCELLANEOUS
D/L	DOOR LOUVER	MTD	MOUNTED
DN.	DOWN	MTL.	METAL
DWG	DRAWING	MTR.	MOTOR
(E)	EXISTING	M.U.A.	MAKE UP AIR
EA.	EACH	M.V.D.	MANUAL VOLUME DAMPER
E.A.	EXHAUST AIR	(N)	NEW
EAG	EXHAUST AIR GRILLE	N/A	NOT APPLICABLE
EAR	EXHAUST AIR REGISTER	NC	NORMALLY CLOSED
EL.	ELEVATION	N.I.C.	NOT IN CONTRACT
ELB	ELBOW	NO	NORMALLY OPEN
ELECT.	ELECTRICAL	NO.	NUMBER
ELEV.	ELEVATOR	N.R.	NOT RATED
EQUIP.	EQUIPMENT	NTS	NOT TO SCALE
EXH	EXHAUST	O.C.	ON CENTER
EXP	EXPANSION	O.D.	OUTSIDE DIMENSION
EXT.	EXTERIOR	OPER.	OPERATING
(F)	FUTURE	OPN'G.	OPENING
F.C.	FLEXIBLE CONNECTION	O.S.A.	OUTSIDE AIR
FD	FIRE DAMPER	P.O.C.	POINT OF CONNECTION
FIN.	FINISH	PLUMB'G.	PLUMBING
FLEX	FLEXIBLE	P.S.I.	POUNDS PER SQUARE INCH
FLR	FLOOR		
FSD	FIRE SMOKE DAMPER		
FT.	FOOT (FEET)		

DRAWING SCHEDULE

SHEET NO.	SHEET TITLE
AC0.00	COVER SHEET, HVAC LEGEND & DRAWING SCHEDULE
AC0.01	TITLE 24, MANDATORY MEASURES, & GENERAL NOTES.
AC0.02	TITLE 24
AC0.03	EQUIPMENT SCHEDULES & DETAILS
AC1.01D	HVAC - FIRST FLOOR DEMO PLAN
AC1.01	HVAC - FIRST FLOOR PLAN
AC1.02	HVAC - ROOF PLAN
AC6.01	HVAC - WIRING DIAGRAM

ARCHITECT OF RECORD
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Berkeley, CA 94710
510.649.8295
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01 xxxxx
AC _____ FLS _____ SS
DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
COVER SHT, HVAC LEGEND & DWG. SCHEDULE

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	NONE
ACCO JOB NO.:	628985

SHEET NUMBER
AC0.00

L:\Leandro\628985_College of San Mateo\Engr\Dwg\Bldg_15\628985_B15_AC0_00.dwg, 2/25/2009 4:44:32 PM, labalos

TITLE 24 COMPLIANCE

CERTIFICATE OF COMPLIANCE (Part 1 of 3) MECH-1-C

PROJECT NAME	DATE
COLLEGE OF SAN MATEO-BLDG. 15	03/09/09
PROJECT ADDRESS: 1700 W. HILLSDALE BLVD. SAN MATEO, CA	Building Permit
PRINCIPAL DESIGNER/MECHANICAL: ACCO ENGINEERED SYSTEMS — TELEPHONE: (510) 346-4300	Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR: LEO ABALOS — TELEPHONE: (510) 346-4300	

GENERAL INFORMATION

DATE OF PLANS: 03/09/09	BUILDING CONDITIONED FLOOR AREA: XXXXX SF	CLIMATE ZONE: 3
BUILDING TYPE: X NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL	☐ HOTEL / MOTEL GUEST ROOM	
PHASE OF CONSTRUCTION: ☐ NEW CONSTRUCTION ☐ ADDITION X ALTERATION	☐ UNCONDITIONED (file affidavit)	

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.

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

DOCUMENTATION AUTHOR	SIGNATURE	DATE
LEO ABALOS		03/09/09

The Principal Mechanical 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 mechanical requirements contained in the applicable parts of Sections 100, 101, 102, 110 through 115, 120 through 125, 142, 144 and 145.

✓
X The plans & specifications meet the requirements of Part 1 (Sections 10-103a) .

X The installation certificates meet the requirements of Part 1 (10-103a 3).

X The operation & maintenance information meets the requirements of Part 1 (10-103c).

Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

X 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 mechanical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the exemption to 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 this work.

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

PRINCIPLE MECHANICAL DESIGNER-NAME	SIGNATURE	DATE	LIC. #
CRAIG RISTOW		03/09/09	M030828

INSTRUCTIONS TO APPLICANT MECHANICAL COMPLIANCE & WORKSHEETS (check box if worksheet is included)

X	MECH-1-C	Certificate of Compliance. Part 1 of 3, 2 of 3, 3 of 3 are required on plans for all submittals .
X	MECH-2-C	Air/Water/Service/Water Pools Requirements. Part 1 of 3, 2 of 3, 3 of 3 are required for all submittals, but may be on plans.
X	MECH-3-C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventialtion, but may be on plans.
X	MECH-4-C	HVAC Misc. Prescriptive Requirements is required for all prescriptive submittals, but may be on plans.

2006 Nonresidendial Compliance Forms *January 2006*

CERTIFICATE OF COMPLIANCE (Part 2 of 3) MECH-1-C

PROJECT NAME	DATE
COLLEGE OF SAN MATEO-BLDG. 15	03/09/09

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required 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 parentheses. 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 the responsible party to budget for the scope of work appropriately

Building Departments:

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

In addition a Certificate of Acceptance, MECH-1-A, Form shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Description	Test Perfomed By:
✓X MECH-2-A: Ventilation System Acceptance Document • Variable Air Volume Systems Outdoor Air Acceptance • Constant Air Volume Systems Outdoor Air Acceptance *Test required on all New systems both New Construction and Retrofit.* Equipment requiring acceptance testing FAN COIL UNIT (1)	ACCO
✓X MECH-3-A: Packaged HVAC Systems Acceptance Document *Test required on all New systems both New Construction and Retrofit.* Equipment requiring acceptance testing N/A	N/A
✓X MECH-4-A: Air-Side Economizer Acceptance Document*est required on all New packaged Test required on all new air-side economizers for both New Construction and Retrofit. Units with economizers that are installed at the factory and certified with the Commission do not require equipment testing but do require construction inspection.* Equipment requiring acceptance testing N/A	N/A

2006 Nonresidendial Compliance Forms *January 2006*

CERTIFICATE OF COMPLIANCE (Part 3 of 3) MECH-1-C

PROJECT NAME	DATE
COLLEGE OF SAN MATEO-BLDG. 15	03/09/09

Test Description	Test Perfomed By:
✓☐ MECH-5-A: Air Distribution Acceptance Document *This test required if the unit serves 5,000 ft2 of space or less and 25% or more of the ducts are in nonconditioned or semiconditioned space like an attic. New systems that meet the above requirements. Retrofit systems that meet the above requirements and either extend ducts, replace ducts or replace the packaged unit.* Equipment requiring acceptance testing N/A	N/A
✓☐ MECH-6-A: Demand Control Ventilation Acceptance Document *All new DCV controls installed on new or existing packaged systems must be tested.* Equipment requiring acceptance testing N/A	N/A
✓☐ MECH-7-A: Supply Fan Variable Flow Control Acceptance Document *All new VAV fan volume controls installed on new or existing systems must be tested.* Equipment requiring acceptance testing N/A	N/A
✓☐ MECH-8-A: Hydronic System Control Acceptance Document • Variable Flow Controls, *Applies to chilled and hot water systems.* • Automatic Isolation Controls, *Applies to new boilers and chillers and the primary pumps are connected to a common header.* • Supply Water Temperature Reset Controls, *Applies to new constant flow chilled and hot water systems that have a design capacity greater than or equal to 500,000 Btu/hr.* • Water-loop Heat Pump Controls, *Applies to all new waterloop heat pump systems where the combined loop pumps are greater than 5 hp.* • Variable Frequency Control, *Applies to all new distribution pumps on new variable flow chilled, hydronic heat pump or condenser water systems where the pumps motors are greater than 5 hp.* Equipment requiring acceptance testing N/A	ACCO

2006 Nonresidendial Compliance Forms *January 2006*

GENERAL NOTES

1. REMOVABLE CEILING PANEL OR PANELS AT FACE OF ALL FIRE AND FIRE/SMOKE DAMPERS BY GENERAL CONTRACTOR (24" x 24" MIN.) UNLESS OTHERWISE NOTED.
2. INCOMBUSTIBLE PLENUM ABOVE CEILING FOR RETURN/RECIRCULATING AIR BY GENERAL CONTRACTOR. CONCEALED BUILDING SPACES USED AS RETURN AIR PLENUMS SHALL BE IN COMPLIANCE WITH SECTION 601 OF THE UNIFORM MECHANICAL CODE.
3. ACCESS DOORS AND/OR ACCESS PANELS THROUGH FIRE RATED WALLS, SHAFTS, CEILINGS, ETC., MUST EQUAL THE MATERIAL PENETRATED.
4. ALL AIR SHAFTS SHALL BE MADE AIR TIGHT BY GENERAL CONTRACTOR.
5. ALL UNDERCUT DOORS AND DOOR LOUVERS ARE BY GENERAL CONTRACTOR.
6. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.
7. ALL SPACE CONDITIONING EQUIPMENT SHALL BE LABELED AS TO WHICH AREA IT SERVES.

MECHANICAL MANDATORY MEASURES

Equipment and Systems Efficiencies

§ 111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.

§ 115(a) Fan type central furnaces shall not have a pilot light.

§ 123 Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.

§ 124 Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.

Controls

§ 122(e) Each space conditioning system shall be installed with one of the following:

§ 122(e)1A Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or

§ 122(e)1B An occupancy sensor to control the operating period of the systems; or

§ 122(e)1C A 4-hour timer that can be manually operated to control the operating period of the systems.

§ 122(e)2 Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.

§ 122(g) Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.

§ 122(a&b) Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a dead band of at least 5 degrees F within which the supply of heating and cooling is shut of or reduced to a minimum.

§ 122(c) Thermostat shall have numeric set points in degrees Fahrenheit (F) and adjustable set point stops accessible only to authorized personnel.

§ 122(b) Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.

Ventilation

§ 121(e) Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.

§ 122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharge of all space conditioning and exhaust systems.

§ 122(f) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, expect for combustion air openings.

§ 121(f)1 Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or

§ 121(f)2 Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or

§ 121(f)3 Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display device; or

§ 121(f)4 Another method approved by the Commission.

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San Mateo, CA 94402

SHEET TITLE

TITLE 24, GENERAL NOTES, & MANDATORY MEASURES

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	NONE
ACCO JOB NO.:	628985

SHEET NUMBER

AC0.01

AIR SYSTEM REQUIREMENTS (Part 1 of 3) MECH-2-C

PROJECT NAME: COLLEGE OF SAN MATEO-BLDG. 15 DATE: 03/09/09

ITEM or SYSTEM TAG(S)		AIR SYSTEMS, Central or Single Zone				
		FC-1				
MANDATORY MEASURES	**T-24 Section**	**Reference on Plans or Specification [1]**				
Heating Equipment Efficiency	112(a)	-				
Cooling Equipment Efficiency	112(a)	-				
Heat Pump Thermostat	112(b)	-				
Furnace Controls	112(c), 115(a)	-				
Natural Ventilation	121(b)	-				
Minimum Ventilation	121(b)	-				
VAV Minimum Position Control	121(c)	-				
Demand Control Ventilation	121(c)	-				
Time Control	121(c), 122(e)	-				
Setback and Setup Control	122(e)	-				
Outdoor Damper Control	122(f)	-				
Isolation Zones	122(g)	-				
Pipe Insulation	123	-				
Duct Insulation	124	-				
PRESCRIPTIVE MEASURES						
Calculated Heating Capacity [2]	144(a & b)	-				
Proposed Heating Capacity [2]	144(a & b)	-				
Calculated Cooling Capacity [2]	144(a & b)	-				
Proposed Cooling Capacity [2]	144(a & b)	-				
Fan Control	144(c)	-				
DP Sensor Location	144(c)	-				
Supply Pressure Reset (DDC only)	144(c)	-				
Simultaneous Heat/Cool	144(d)	-				
Economizer	144(e)	-				
Heat and Cool Air Supply Reset	144(f)	-				
Duct Sealing	144(k)	-				

1: For each central and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

2: Not required for hydronic heating or cooling. Either enter value here or put in reference to plans and specifications per footnote 1.

2005 Nonresidential Compliance Forms *January 2006*

AIR SYSTEM REQUIREMENTS (Part 2 of 3) MECH-2-C

PROJECT NAME: COLLEGE OF SAN MATEO-BLDG. 15 DATE: 03/09/09

ITEM or SYSTEM TAG(S)		WATER [2] SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops				
		CHW				
MANDATORY MEASURES	**T-24 Section**	**Reference on Plans or Specification [1]**				
Equipment Efficiency	112(a)	-				
Pipe Insulation	123	-				
PRESCRIPTIVE MEASURES						
Calculated Capacity	144(a & b)	-				
Proposed Capacity	144(a & b)	-				
Tower Fan Controls	144(h)	-				
Tower Flow Controls	144(h)	-				
Variable Flow System Design	144(j)	-				
Chiller and Boiler Isolation	144(j)	-				
CHW and HHW Reset Controls	144(j)	-				
WLHP Isolation Valves	144(j)	-				
VSD on CHW, CW & WLHP Pumps >5HP	144(j)	-				
DP Sensor Location	144(j)	-				

1: For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

2: Water side systems include wet side systems using other liquids such as glycol or brine.

2005 Nonresidential Compliance Forms *January 2006*

HVAC MISC. PRESCRIPTIVE REQUIREMENTS: MECH-4-C

PROJECT NAME: COLLEGE OF SAN MATEO-BLDG. 15 DATE: 03/09/09

FAN POWER CONSUMPTION §144(c)

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp for Constant Volume Fan Systems of Variable Air Volume (VAV) Systems when using the Prescriptive Approach.

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
FC-1					

	Total Adjustments		
FILTER PRESSURE ADJUSTMENT Equation. 144-A	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUM F)	10	
	2) SUPPLY DESIGN AIRFLOW (CFM)	10	
A) If filter pressure drop is greater than 1 inch W.C. enter filter pressure drop, SP, on line 4 and Total Fan pressure SP, on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) [1]	0.4	W/CFM
	4) SP,	0.5	
B) Calculate Fan Adjustment and enter on line 6.	5) SP,	0.2	
	6) Fan Adjustment = 1-(SP, - 1)/SP.	0.6	
C) Calculate Adjusted Fan Power Index and enter on Row 7	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) [1]	0.9	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm, for Constant Volume systems or 1.25 w/cfm for VAV systems

ITEM or SYSTEM TAG(S)				
PRESCRIPTIVE MEASURES	T-24 Section	Capacity	Exception	Notes
Electric Resistance Heating [1]	§144 (g)	N/A	N/A	N/A
Heat Rejection System [2]	§144 (h)	N/A	N/A	N/A
Air Cooled Chiller Limitation [3]	§144 (i)	N/A	N/A	N/A

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(h) apply.

2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling towers are used explain which exception(s) to §144(h) apply.

3. Total installed capacity (tons) of all chillers and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed explain which exception(s) to §144(i) apply.

2005 Nonresidential Compliance Forms *January 2006*

AIR SYSTEM REQUIREMENTS (Part 3 of 3) MECH-2-C

PROJECT NAME: COLLEGE OF SAN MATEO-BLDG. 15 DATE: 03/09/09

ITEM or SYSTEM TAG(S)		Service Hot Water, Pool Heating				
		DWH-1				
MANDATORY MEASURES	**T-24 Section**	**Reference on Plans or Specification [1]**				
Water Heater Certification	§113 (a)	-				
Water Heater Efficiency	§113 (b)	-				
Service Water Heating Installation	§113 (c)	-				
Pool and Spa Efficiency Control	§114(a)	-				
Pool and Spa Installation	§144(b)	-				
Pool Heater - No Pilot Light	§115(c)	-				
Spa Heater - No Pilot Light	§115(d)	-				

1: For each water heater, pool heat and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

2005 Nonresidential Compliance Forms *January 2006*

MECHANICAL VENTILATION AND REHEAT MECH-3-C

PROJECT NAME: COLLEGE OF SAN MATEO-BLDG. 15 DATE: 03/09/09

	MECHANICAL VENTILATION (§121(b)2)								REHEAT LIMITATION (§144(d))				
	AREA BASIS			OCCUPANCY BASIS					VAV Minimum				
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Zone/ System	Condition Area (ft²)	CFM per ft²	Min CFM by Area B x C	Num of People	CFM per Person	Min CFM by Occupant E x F	REQ'D V.A. Max of D or G	Design Ventilation Air cfm	30% of Design Zone Supply cfm	B x 0.4 cfm/ft²	Max of Columns H, J, K, or 300 cfm	Design minimum Air setpoint	Transfer Air
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals				E SUM			H SUM	I SUM	Column I Total Design Ventilation Air				N SUM

C	Minimum ventilation rate per Section §121, Table 121-A.
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply cfm (Fan CFM) x 30%; or
K	Condition area (ft2) x 0.4 cfm/ft²; or
L	Maximum of Columns H, J, K, or 300 cfm
M	This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.
N	Transfer Air must be provided where the Required Ventilation Air (Column I) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column I), Column H minus M.

2005 Nonresidential Compliance Forms *January 2006*

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SHEET TITLE

TITLE 24

REVISIONS

NO.	DATE	DESCRIPTION

DATE MARCH 9, 2009
DRAWN LA/RG
CHECKED CR
SCALE NONE
ACCO JOB NO.: 628985

SHEET NUMBER

AC0.02

EQUIPMENT SCHEDULES

BASEBOARD RADIATOR SCHEDULE

SYMBOL	LOCATION	MANUFACTURER & MODEL No.	ELEMENT TYPE	SERVING	LENGTH	CAPACITY	GPM	QTY.	EWT / LWT	REMARKS
BR 1										
BR 2										
BR 3										
BR 4										

EXHAUST FAN

SYMBOL	LOCATION	MANUF'R & MODEL NO.	SERVING	CFM	S.P.	RPM	ROT	DIS	BHP	HP	VOLTAGE	WEIGHT (lbs)	REMARKS
EF 1	BUILDING 15 ROOF	GREENHECK G-121-B	MENS & WOMENS TOILET	640	.375	1093	–	–	–	1/6	115/60/1	50	ROOF EXHAUST FAN WITH SWITCH, SPEED CONTROLLER, BACKDRAFT DAMPER. WIRING BY ELECTRICAL CONTRACTOR.
EF 2	BUILDING 15 ROOF	GREENHECK G-070-G	CUST. 15-174	120	.25	1219	–	–	–	1/60	115/60/1	25	ROOF EXHAUST FAN WITH SWITCH, SPEED CONTROLLER, BACKDRAFT DAMPER. WIRING BY ELECTRICAL CONTRACTOR.

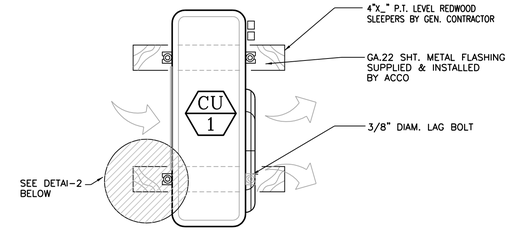
SPLIT SYTEM FAN COIL

SYMBOL	LOCATION	MANUFACTURER & MODEL No.	CFM	S.P.	RPM	REF.	TOTAL MBH	SENS. MBH	SUC	EDB / EWB	BHP	WATT	VOLTAGE	WEIGHT (lbs)	REMARKS
FC 1	MDF RM.	MITSUBISHI PKA-A12GA	390	–	–	R-410A	12.0	10.3	–	80 / 67	–	30	208-230/1ø/60	35	WALL MOUNTED FCU WITH REMOTE CONTROLLER.

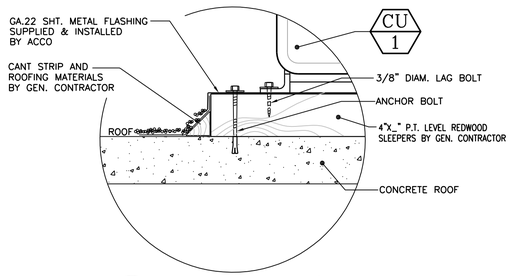
SPLIT SYSTEM CONDENSING UNIT

SYMBOL	LOCATION	MANUFACTUER & MODEL No.	CAP TONS	SUC TEMP	AMB	REF	VOLTAGE	COMP'R QTY	COMP'R RLA	COND. QTY	COND. FLA	MCA	MFA / MOCP	EER	WEIGHT (lbs)	REMARKS
CU 1	ROOF	MITSUBISHI PUY-A12NHA	1.0	–	95'F	R-410A	208-230/1ø/60	1	12	1	0.35	13.0	– / 15.0	13.8	90	REDWOOD SLEEPERS BY G.C.

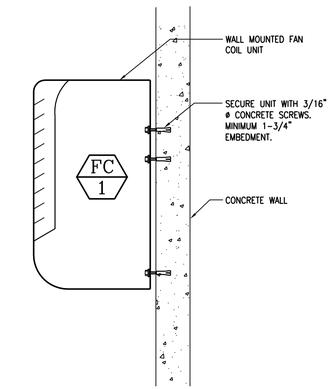
DETAILS



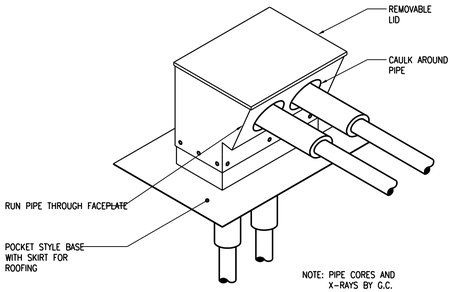
1 TYPICAL PLAN
NTS



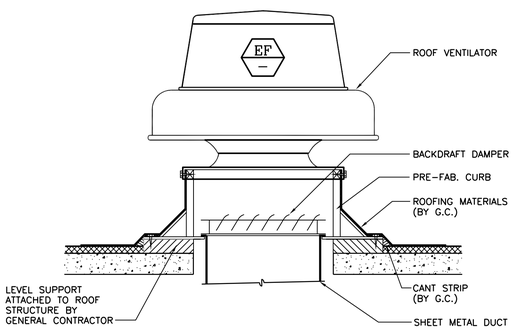
2 DETAIL SECTION
NTS



3 FC-1 HANGING DETAIL
NTS



4 ROOF PIPING PENETRATION DETAIL
SCALE: NONE



5 E.F. MOUNTING DETAIL
NTS

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DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01 xxxxx
AC _____ FLS _____ SS
DATE

LICENSED ARCHITECT
Christopher Noll
REN. 12/31/09
NO. C15916
STATE OF CALIFORNIA

DSA SUBMITTAL

COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
EQUIPMENT SCHEDULES & DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	AS NOTED
ACCO JOB NO.:	628985

SHEET NUMBER
AC0.03

LEGEND

- DENOTES NEW OR RELOCATED WORK
- DENOTES DEMO WORK
- DENOTES EXISTING
- (N) DENOTES NEW
- (R) DENOTES RELOCATE
- (E) DENOTES EXISTING
- DENOTES END CAP
- VAV # DENOTES EXISTING VAV
- VAV # T # DENOTES NEW OR RELOCATED VAV, OR T'STAT
- DENOTES EXISTING DIFFUSER
- DENOTES NEW OR RELOCATED DIFFUSER OR RAG
- DENOTES POINT OF CONNECTION
- POC

NOTE: RELOCATED DIFFUSERS AND EQPT ARE NOTED WITH AN (R)

SUSPENDED FROM SLAB THRU VIBRATION ISOLATORS 8x8 THRU ROOF DRAIN FAN. SCROLL

SEE DRWG. M-3 HOT WATER RESET SCHEMATIC

PRIMARY HEATING WATER FLOW 20 GPM.

FOR CONTINUATION SEE OUTSIDE UTILITIES

1 HVAC - GROUND FLOOR DEMO PLAN
SCALE: 1/8"=1'-0"

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SHEET TITLE

HVAC-GROUND FLOOR DEMO PLAN

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	
ACCO JOB NO.:	628985

SHEET NUMBER

AC1.01D

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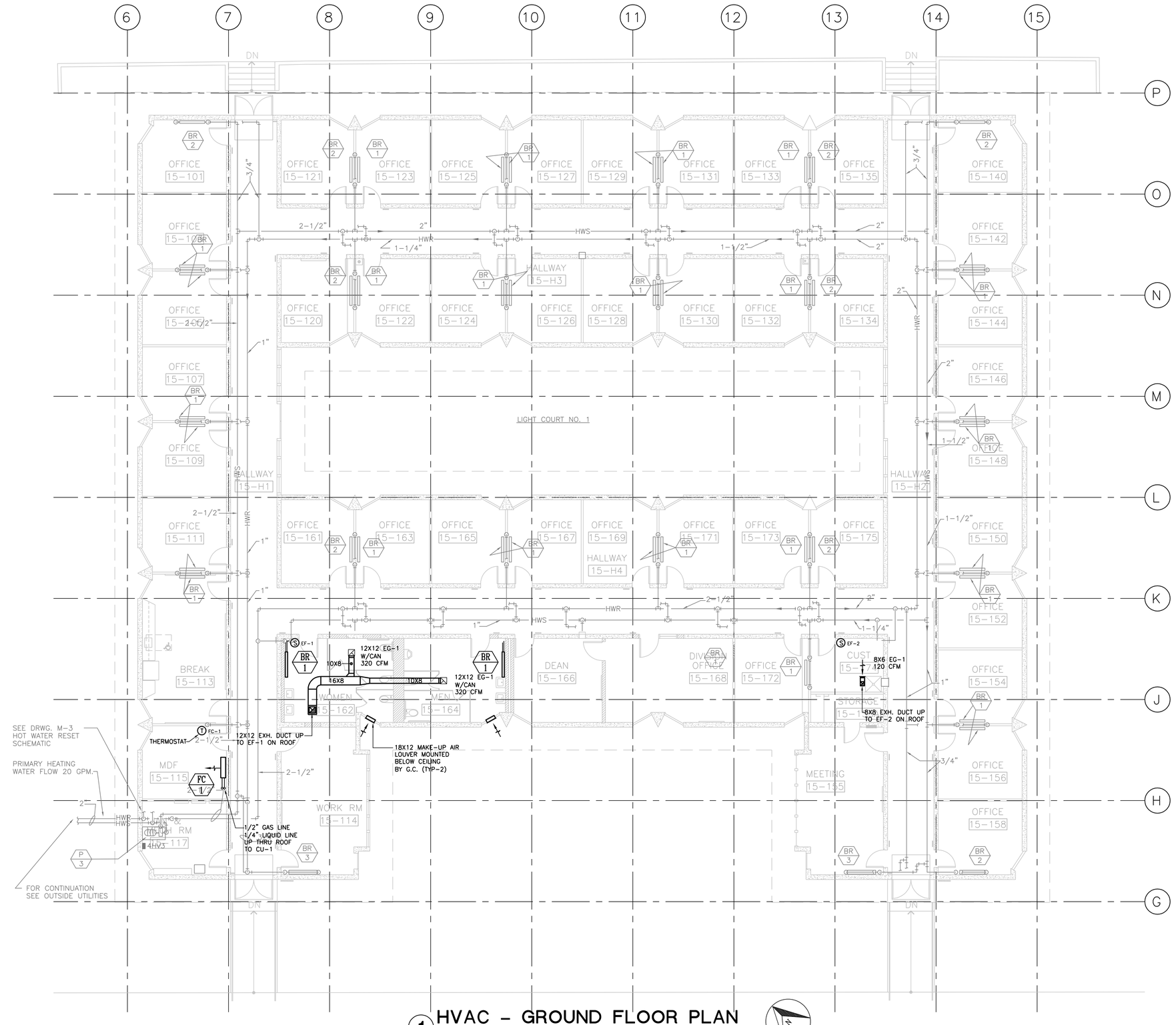

1 HVAC - GROUND FLOOR PLAN

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

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HVAC-GROUND FLOOR PLAN

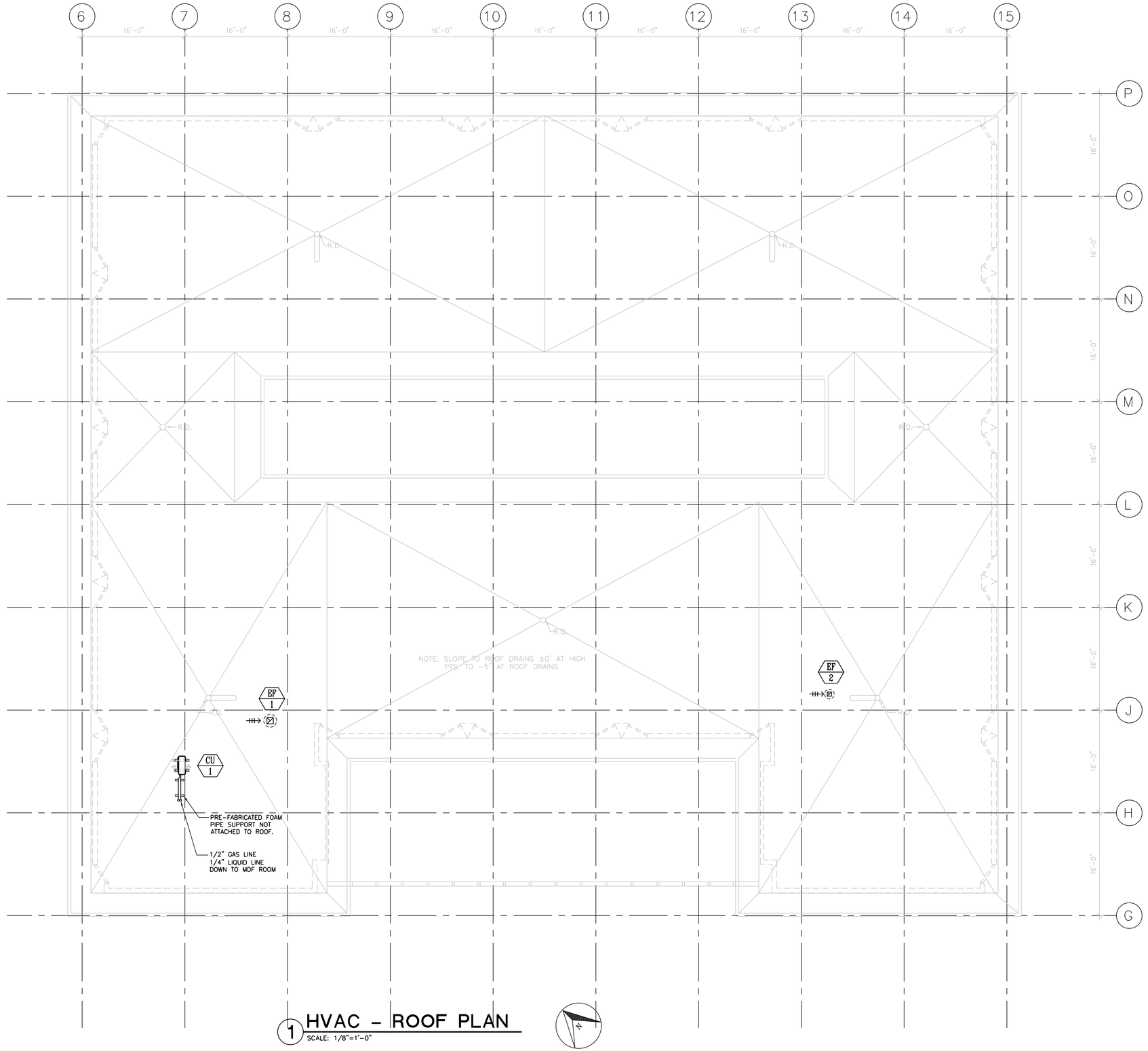
REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	1/8"=1'-0"
ACCO JOB NO.:	628985

SHEET NUMBER

AC1.01



1 HVAC - ROOF PLAN
SCALE: 1/8"=1'-0"

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HVAC-ROOF PLAN

REVISIONS

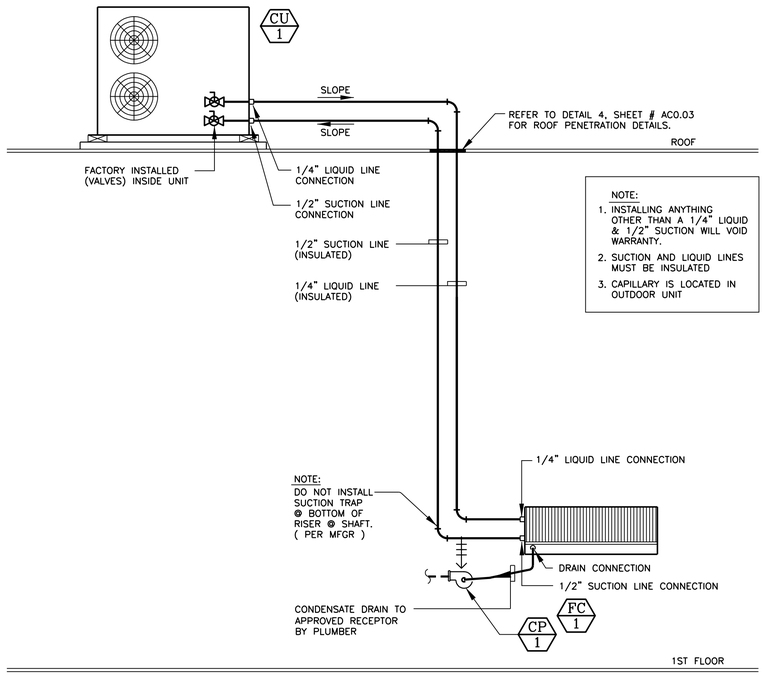
NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
CHECKED	CR
SCALE	1/8"=1'-0"
ACCO JOB NO.:	628985

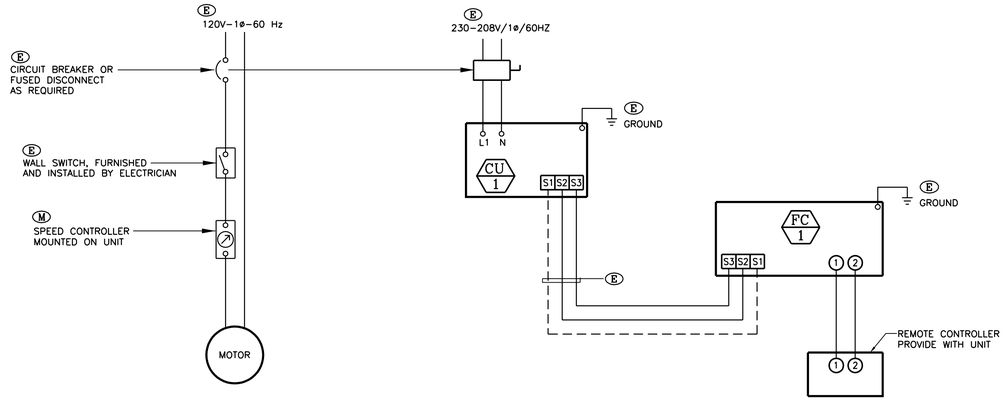
SHEET NUMBER

AC1.02

PIPING AND WIRING DIAGRAM

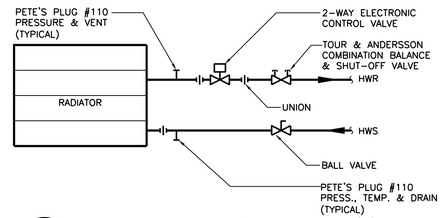


EF 1 EF 2 EXHAUST FAN



CU 1 CONDENSING UNIT
"MITSUBISHI" #

FC 1 FAN COIL UNIT
"MITSUBISHI" #



1 RADIATOR PIPING DIAGRAM
SCALE: NONE

FC 1 CU 1 SPLIT SYSTEM AC UNIT
"MITSUBISHI" #
"MITSUBISHI" #

ELECTRICAL NOTES:
1. ALL WIRING AND DEVICES SHALL CONFORM WITH GOVERNING CODES.
2. —— DENOTES LINE VOLTAGE WIRING SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. — — DENOTES LOW VOLTAGE WIRING SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. (E) DENOTES ITEMS SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. (M) DENOTES ITEMS SUPPLIED BY ACCO AND INSTALLED BY ELECTRICAL CONTRACTOR.
6. (MMR) DENOTES ITEMS SUPPLIED BY ACCO, INSTALLED BY ACCO, AND WIRED BY ELECTRICIAN.
7. ALL COPPER AND/OR ALUMINUM CONDUCTOR CONNECTIONS SHALL BE MADE AS PRESCRIBED BY ESTABLISHED ELECTRICAL INDUSTRY AND ENGINEERING STANDARDS. EXTREME CARE MUST BE TAKEN WHEN CONNECTIONS INVOLVE DISSIMILAR MATERIALS.
8. (EMP) DENOTES EMERGENCY POWER.

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SHEET TITLE

PIPING AND WIRING DIAGRAMS

REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	LA/RG
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SCALE	NONE
ACCO JOB NO.:	628985

SHEET NUMBER

AC6.01

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBERS
SA–1	SHOCK ABSORBER	PRECISION PLUMBING PRODUCTS PART NUMBER SC–, SIZE PER PDI PROVIDE ACCESS PANEL
TP–1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS PRIME–RITE PART NUMBER PR–500 PROVIDE ACCESS PANEL
FD–1	FLOOR DRAIN	ZURN ZN–415B–P. PROVIDE TRAP PRIMER.
FCO	FLOOR CLEANOUT	ZURN Z–1400
WCO	WALL CLEANOUT	ZURN ZS–1468
WH–1	WATER HEATER	AO SMITH
ET–1	EXPANSION TANK	WATTS DET–5 2 GAL TANK, PROVIDE NORMALLY OPEN VALVE WITH LOCK WEIGHT WITH WATER: 25 LBS

PLUMBING ROUGH IN–SCHEDULE

SYMBOL	FIXTURE	ROUGH IN SIZE IN INCHES				REMARKS
		W	V	HW	CW	
WC–1	WATER CLOSET WALL HUNG FLUSH VALVE (FV) H/C	4	2	–	1 1/2	KOHLER "KINGSTON" K–4330, ADA COMPLIANT, 1.6 GPF SLOAN FLUSH VALVE WES 111, DUAL FLUSH, 1.1GPF/1.6GPF 17" AFF MOUNTING SEAT HEIGHT, BEMIS 1655C SEAT
WC–2	WATER CLOSET WALL HUNG FLUSH VALVE (FV)	4	2	–	1 1/2	KOHLER "KINGSTON" K–4330, ADA COMPLIANT, 1.6 GPF SLOAN FLUSH VALVE WES 111, DUAL FLUSH, 1.1GPF/1.6GPF BEMIS 1655C SEAT
UR–1	URINAL	2	2	–	1	ZURN ULTRA LOW CONSUMPTION SYSTEM, Z5738.205 BATTERY POWERED, 1/8 GPF, ADA COMPLIANT
L–1	LAVATORY WALL HUNG MTD H/C	1 1/2	1 1/2	1/2	1/2	KOHLER "KINGSTON" K–2007, WALL HUNG, ADA COMPLIANT CHICAGO, 333–336PSHVPACP, METERING FAUCET, 2.2 GPM
L–2	LAVATORY WALL HUNG	1 1/2	1 1/2	1/2	1/2	KOHLER "KINGSTON" K–2006, WALL HUNG, ADA COMPLIANT CHICAGO, 333–336PSHVPACP, METERING FAUCET, 2.2 GPM
SK–1	KITCHEN SINK	1 1/2	1 1/2	1/2	1/2	ELKAY LRAD 2521, OFF CENTERED, ADA COMPLIANT FAUCET: DELTA 100, SINGLE HANDLE, ADA COMPLIANT
MS–1	MOP SINK AND FAUCET	2	1 1/2	1/2	1/2	FLORESTONE MODEL MSR 2424, MR–370 HOSE, MR–372 HANGER SPEAKMAN SERVICE SINK FAUCET SC–5811–RCP

NOTES:

PROVIDE ALL MISCELLANEOUS APPURTENANCES AS REQUIRED FOR INSTALLATION OF A COMPLETE SYSTEM; INCLUDING BUT NOT LIMITED TO: CARRIERS, BACKING PLATES, STOPS, TRAPS, ETC....

INSTALL ADA FIXTURES PER THE ADA STANDARDS / T–24 STANDARDS

PROVIDE TRUEBRO LAV–GUARD OR EQUAL PRE–FABRICATED INSULATION ON EXPOSED HOT WATER AND WASTE PIPING TO THE ADA LAVATORY.

ALL PLUMBING FIXTURES TO CONFORM TO THE CALIFORNIA T–24 WATER CONSERVATION REQUIREMENTS

LEGEND AND ABBREVIATIONS

SYMBOL	ABBR	DESCRIPTION
	CW	DOMESTIC COLD WATER PIPE
	HW	DOMESTIC HOT WATER PIPE
	HWR	DOMESTIC HOT WATER RETURN PIPE
SS/W	SS/W	SANITARY SEWER/WASTE PIPE ABOVE FLOOR
	SS/W	SANITARY SEWER/WASTE BELOW FLOOR
SD	SD	STORM DRAIN ABOVE FLOOR
	SD	STORM DRAIN BELOW FLOOR
CD	CD	CONDENSATE DRAIN
	V	VENT PIPE
		PIPING TO BE REMOVED/DEMO
		PIPE UP
		PIPE DOWN
		BALL VALVE
FD	FD	FLOOR DRAIN
FCO	FCO	FLOOR CLEANOUT
	CFF	CAP FOR FUTURE
	POC	POINT OF CONNECTION
	ABV	ABOVE
	AC	AIR CONDITIONING UNIT
	GPF	GALLON PER FLUSH
	RD	ROOF DRAIN
	SMD	SEE MECHANICAL DRAWINGS
	VTR	VENT THROUGH ROOF

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2007 CPC.
2. SANITARY WASTE & VENT SYSTEM SHALL BE NO HUB CAST IRON PIPE & FITTINGS WITH STANDARD CSPI 301 COUPLING. DWV COPPER PIPE & FITTINGS WITH LEAD FREE SOLDER JOINTS.
3. DOMESTIC HOT & COLD WATER SHALL BE TYPE L COPPER WITH WROT FITTINGS AND LEAD FREE SOLDER JOINTS. T–DRILLED BRAZED JOINTS SHALL BE USED AT CONTRACTORS OPTIONS.
4. HOT WATER PIPE SHALL BE INSULATED PER TITLE 24.
5. FLOOR DRAINS SHALL HAVE TRAP PRIMERS AS REQUIRED BY CODE
6. SEISMIC BRACE PLUMBING AND EQUIPMENT AS REQUIRED BY CODE.

DRAWING LIST

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MECHANICAL
PLUMBING (925) 685-1963
ENGINEERS (925) 825-8069 FAX

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DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 XXXX

AC _____ FLS _____ SS

DATE

DSA SUBMITTAL

COLLEGE OF SAN MATEO

BUILDING 15 MODERNIZATION

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College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

BUILDING 15
PLUMBING SCHEDULES, LEGEND AND NOTES

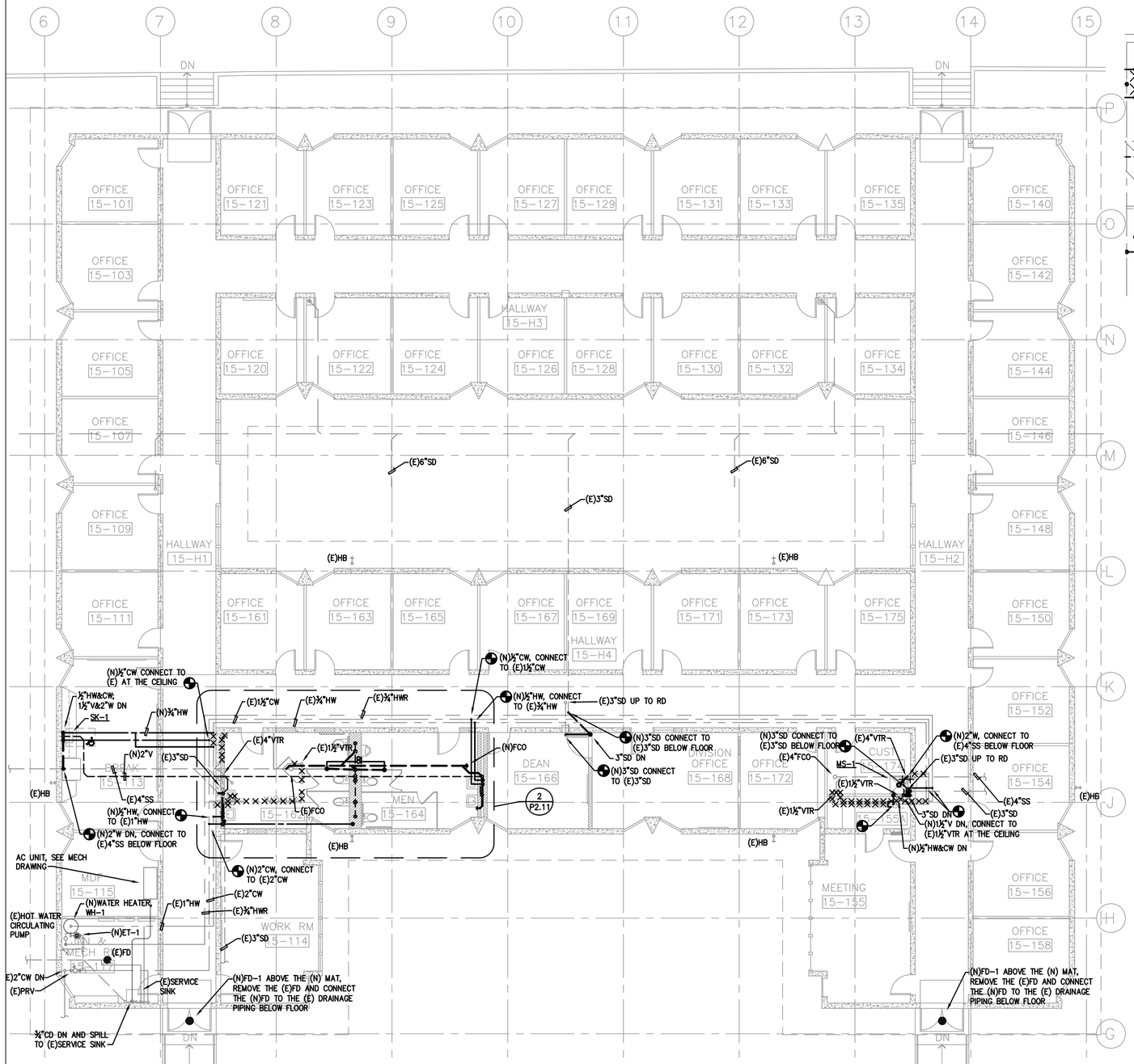
REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
DRAWN	RS
CHECKED	DG
SCALE	NONE
N&T JOB NO.:	2901

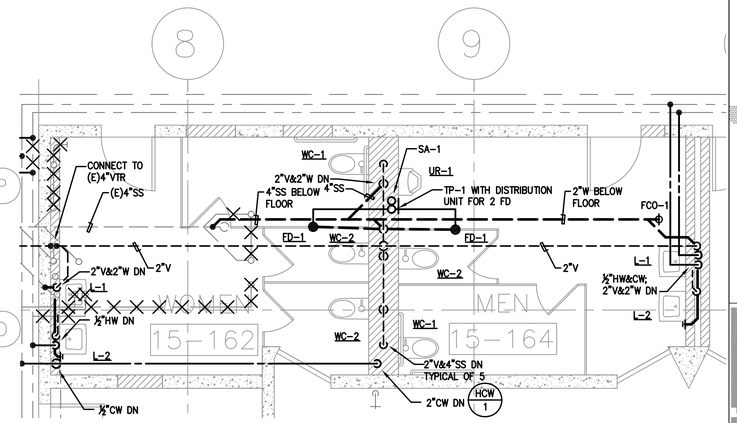
SHEET NUMBER

P1.11



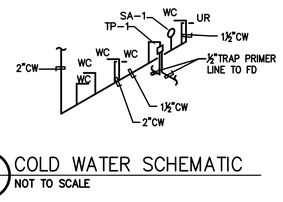
1 P2.11 **PLUMBING FLOOR PLAN - BUILDING 15**

1/8"=1'-0"



2 P2.11 **RESTROOM PLUMBING PLAN**

1/4"=1'-0"



CW 1 **COLD WATER SCHEMATIC**

NOT TO SCALE

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SHEET TITLE
BUILDING 15
PLUMBING FLOOR PLAN

REVISIONS		
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N&T JOB NO.:	2901

SHEET NUMBER
P2.11

College of San Mateo

Building 15 Modernization

San Mateo County Community College District

ABBREVIATIONS

A.B.	Anchor Bolt	GA	Gage	R	Radius
ACI	American Concrete Institute	GALV	Galvanized	R.D.	Roof Drain
A.D.	Area Drain	G.B.	Grade Beam	RDWD	Redwood
ADDL	Additional	GLB	Glued Laminated Beam	REF	Reference
ADJ	Adjacent	GLC	Glued Laminated Column	REINF	Reinforcing
A.F.F.	Above Finish Floor	GR	Grade	REQD	Required
AISC	American Institute of Steel Construction	GYP	Gypsum	REV	Revision
ALT	Alternate			RF	Roof
APPROX	Approximately	HDR	Header	RM	Room
ARCH	Architect or Architectural	HGR	Hanger	R.O.	Rough Opening
ASPH	Asphalt	HK	Hook		
ASTM	American Society of Testing and Materials	HORIZ	Horizontal	S	Section Modulus
A.C.	Asphaltic Concrete, Air Condition	H.P.	High Point	S.A.D.	See Architectural Drawings
		H.R.	Hard Rock	S.C.D.	See Civil Drawings
BAL	Balance	HT	Height	SCHED	Schedule
B.L.	Bottom Lower			S.E.D.	See Electrical Drawings
BLDG	Building	I	Moment of Inertia	SF	Square Feet
BLK	Block	I.D.	Inside Diameter	SHT	Sheet
BLKG	Blocking	I.F.	Inside Face	SHTG	Sheathing
BM	Beam	INFO	Information	SIM	Similar
B.O.	Bottom of	INSUL	Insulation	S.J.	Shrinkage Joint, Seismic Joint or Slip Joint
BOT	Bottom	INT	Interior		
B.P.	Break Point			S.L.D.	See Landscape Drawings
BRD	Board	JST	Joist	S.M.D.	See Mechanical Drawings
BRG	Bearing	JT	Joint	S.M.F.	Special Moment Frames
BRKT	Bracket			S.M.S.	Sheet Metal Screw
BTWN	Between	KIPS	1000 Pounds	S.O.G.	Slab On Grade
B.U.	Bottom Upper	KSF	KIPS Per Square Foot	SP	Space or Spacing
				S.P.D.	See Plumbing Drawings
C	Channel	L	Angle	SPEC	Specification
CBC	California Building Code	LBS	Pounds	SQ.	Square
C.I.P.	Cast In Place	LL	Live Load	S.S.D.	See Structural Drawings
C.J.	Construction or Control Joint	LLH	Long Leg Horizontal	STAGG	Staggered
CLG	Ceiling	LLV	Long Leg Vertical	STD	Standard
℄	Center Line	LONGIT	Longitudinal	STIFF	Stiffener
CLR	Clear	L.P.	Low Point	STL	Steel
CMU	Concrete Masonry Unit	L.S.	Low Shrinkage	STRUCT	Structural
COL	Column	LSL	Laminated Strand Lumber	SYM	Symmetric
CONC	Concrete	LT	Light		
CONN	Connection	LVL	Laminated Veneer Lumber	T & B	Top and Bottom
CONSTR	Construction	LTWT	Light Weight	T & G	Tongue and Groove
CONTIN	Continuous			T.B.	Tie Beam
C.J.P.	Complete Joint Penetration	MACH	Machine	THK	Thick
CTR	Center	MAS	Masonry	THRU	Through
CTRD	Centered	MATL	Material	T.L.	Top Lower
CTRSNK	Countersink	MAX	Maximum	T.O.	Top Of
		M.B.	Machine Bolt	T.O. CONC	Top of Concrete
d	Penny weight	MC	Miscellaneous Channel	T.O. PAR	Top of Parapet
DBL	Double	M.D.	Mid-depth	T.O. PLY	Top of Plywood
DEPR	Depression	MECH	Mechanical	T.O. PL	Top of Plate
D.F.	Douglas Fir	M.F.	Moment Frame	T.O. SLAB	Top of Slab
DIA or ∅	Diameter	MFR	Manufacturer	T.O. STL	Top of Steel
DIAG	Diagonal	MIN	Minimum	T.O. WALL	Top of Wall
DIM	Dimension	MISC	Miscellaneous	TRANS	Transverse
DL	Dead Load	MTL	Metal	TS	Tube Steel
DN	Down			T.U.	Top Upper
do	Ditto	(N)	New	TYP	Typical
D.W.F.	Deformed Wire Fabric	N.A.	Not Applicable		
DWG	Drawing	N.I.C.	Not In Contract	UBC	Uniform Building Code
		NO.	Number	U.N.O.	Unless Noted Otherwise
(E)	Existing	N.P.	No Profile		
EA	Each	N.S.	Near Side	V.B.	Vapor Barrier
E.F.	Each Face	N.T.S.	Not To Scale	VENT	Ventilation
E.J.	Expansion Joint			VERT	Vertical
EL	Elevation	o.c.	On Center	V.I.F.	Verify In Field
ELEC	Electrical	O.D.	Outside Diameter		
ELEV	Elevator	O.F.	Outside Face	W	Wide Flange
EMBED	Embedment	O.H.	Opposite Hand	w/	With
E.N.	Edge Nail	OPNG	Opening	w/o	Without
ENCL	Enclosure	OPP.	Opposite	WD	Wood
ENGR	Engineer	OSB	Oriented Strand Board	WF	Wide Flange
E.O.	Edge of	O.W.S.G.	Open Web Steel Girder	W.P.	Work Point
E.O. MAS	Edge of Masonry	O.W.S.J.	Open Web Steel Joist	W.P.J.	Weakened Plane Joint
E.O. PL	Edge of Plate			WT	Weight or Structural T
E.O. SLAB	Edge of Slab	PAR	Parapet	W.W.F.	Welded Wire Fabric
EQ	Equal	PC	Piece		
EQPT	Equipment	P/C	Precast		
E.W.	Each Way	PCF	Pounds per Cubic Foot		
EXP	Expansion	P.D.F.	Powder Driven Fastener		
EXT	Exterior	P.D.P.	Powder Driven Pin		
		ℙ	Property Line		
F.D.	Floor Drain	PL	Plate		
FDN	Foundation	PLF	Pounds per Linear Foot		
F.F.	Finish Floor	PLY	Plywood		
FIN	Finish	PLYWD	Plywood		
FLR	Floor	P.J.P.	Partial Joint Penetration		
F.O.	Face of	PSF	Pounds per Square Foot		
F.O. CONC	Face of Concrete	PSI	Pounds per Square Inch		
F.O. MAS	Face of Masonry	PSL	Parallel Strand Lumber		
F.O. STUD	Face of Stud	P/T	Post-Tensioned		
FRMG	Framing	P.T.	Pressure Treated		
F.S.	Far Side	P.T.D.F.	Pressure Treated Douglas Fir		
FT	Foot or Feet				
FTG	Footing				

SYMBOLS

SECTION REFERENCE: 2 / S3.4 — DETAIL NUMBER, SHEET NUMBER

DETAIL REFERENCE: 2 / S3.4

DETAIL REFERENCE: 2 / S3.4

REVISION IDENTIFICATION: 1 — REVISION NUMBER; RS-12 — REVISION SHEET NUMBER

WALL ELEVATION: 2 / S3.4 — DETAIL NUMBER, SHEET NUMBER

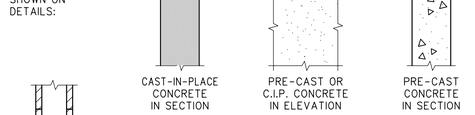
WALL SECTION: 2 / S3.4

BUILDING SECTION: 2 / S3.4 — 2 / S3.4

MATERIALS SHOWN ON PLANS:

- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- CONCRETE MASONRY UNITS
- BRICK MASONRY UNITS
- STEEL MEMBERS
- WOOD OR METAL STUDS

MATERIALS SHOWN ON DETAILS:



DRAWING INDEX

SHEET INDEX

ISSUE LOG

#	TITLE	PROGRESS
S0.00	TITLE PAGE & SHEET INDEX	✓
S1.00	GENERAL NOTES	✓
S2.11	BUILDING 15 - FOUNDATION PLAN	✓
S2.12	BUILDING 15 - ROOF PLAN	✓
S3.00	DETAILS	✓

ISSUE LOG KEY:
' ✓ ' ISSUED AS PART OF A SET
' — ' NOT A PART OF ISSUED SET
' • ' ISSUED FOR INFORMATION ONLY

DATE 02-25-09

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01 XXXXX
AC _____ FLS _____ SS _____
DATE _____

DSA SUBMITTAL

COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

BUILDING 15 TITLE SHEET & INDEX

REVISIONS

NO.	DATE	DESCRIPTION

DATE MARCH 9, 2009
DRAWN BV
CHECKED SP
SCALE
KPFF JOB NO.: K109013.00

SHEET NUMBER

S0.00

GENERAL NOTES

GENERAL

Dimensions refer to rough concrete surfaces, face of studs, face of concrete block, top of sheathing, or top of slab, unless otherwise indicated. The Contractor shall verify all dimensions prior to the start of construction. The Architect shall be notified of any discrepancies or inconsistencies.

All drawings are considered to be a part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any code requirements shall be corrected by the Contractor at his own expense and at no expense to the owner or Architect.

Notes and details on the structural drawings shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.

All work shall conform to the minimum standards of the following codes:

2007 California Building Code, which comprises Title 24, Part 2 of the California Code of Regulations, as adapted by the California Building Standards Commission referred to here as "The California Building Code, 2007 Edition" or "the code", and any other regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety, and those additional codes and standards including, but not limited to, the following incorporated codes listed below, and in these structural notes and specifications.

American Society of Civil Engineers: ASCE 7-05 Minimum Design Loads for Buildings and Other Structures including Supplement No. 1

American Concrete Institute (ACI): ACI-318-05 Bldg. Code Requirements for Structural Concrete and Requirements for Structural Concrete and Commentary

American Concrete Institute (ACI): ACI-530-05 Building Code Requirements for Masonry Structures & ACI-530.1-05 Specifications for Masonry Structures (Combined in 1 book)

American Institute of Steel Construction (AISC): AISC 341-05 Seismic Provisions for Structural Steel Buildings, including Supplement No. 1 dated 2006

American Institute of Steel Construction (AISC): AISC 325-05 Steel Construction Manual 13th edition

American Institute of Steel Construction (AISC): AISC 358-05 Prequalified Connections for Special Moment Frames for Seismic Applications

American Welding Society: AWS D1.1:2006 Structural Welding Code ? Steel

American Welding Society: AWS D1.3:2006 Structural Welding Code ? Sheet Steel

American Welding Society: AWS D1.4:2006 Structural Welding Code ? Reinforcing

American Forest & Paper Association (AF&PA): NDS-05 National Design Specification (NDS) for Wood Construction with 2005 Supplement

ASTM specifications on the structural drawings shall be of the latest revision.
Refer to the architectural drawings for the following:

- Dimensions not shown on the structural drawings.
- Size and location of all floor and roof openings, except as noted.
- Size and location of all interior and exterior non-bearing partitions.
- Size and location of all door and window openings, except as noted.
- Size and location of inserts for cladding or ornamentation.
- Size and location of all concrete curbs, equipment pads, pits, floor drains, slopes, depressed areas, change in level, chamfers, grooves, inserts, etc.
- Floor and roof finishes.

Refer to the mechanical, plumbing, and electrical drawings for the following:

- Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc., except as noted.
- Electrical conduit runs, boxes, and outlets in walls and slabs.
- Concrete inserts for electrical, mechanical, or plumbing fixtures.
- Size and location of machine or equipment bases or anchor bolts for motor mounts.

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to construction equipment, etc. Observation visits to the site by the Engineer shall not include inspection of the aforementioned items.

Contractor shall investigate the site, during clearing and earthwork operations, for filled excavations or buried structures, such as cesspools, cisterns, foundations, etc. If any such structures are found, the Engineer shall be notified immediately.

Openings, pockets, etc., larger than 6" shall not be placed in concrete slabs, decks, or walls, unless specifically detailed on the structural drawings. Notify the Engineer when drawings by others show openings, pockets, etc., larger than 6" not shown on the structural drawings, but which are located in structural members. For any further restrictions on openings in structural elements, see applicable sections below.

Construction material shall be spread out if placed on framed roof or floor. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where the structure has not attained the design strength.

Specifications and detailing of all waterproofing and drainage items, although sometimes indicated on the structural drawings for general information purposes only, are solely the design responsibility of others.

Shop drawings, special inspections, and material sampling and testing, when required, are specified in their respective tables in the general notes and in the specifications.

DESIGN

Design conforms to the California Building Code, 2007 Edition.

Live loads:
Roof (flat) ..... 20 psf

Wind Analysis:

Basic wind speed, V3s	(CBC Figure 1609)	V3s = 85 mph
Wind Importance Factor, Iw	(ASCE 7 Table 6-1)	Iw = 1.0
Exposure	(CBC, Section 1609.4.3)	= C
Internal Pressure Coefficient, GCPI	(ASCE 7, Figure 6-5)	GCPI= 0.18

Seismic Analysis:

Seismic Importance Factor, I	(ASCE 7, Table 11.5-1)	I = 1.0
Occupancy Category	(CBC Table 1604.5)	= II
Site Location, Latitude	37° 31' 55"	
Site Location, Longtitude	-122° 20' 7"	
Spectra Accel., Short Period, Ss	(IBC Figure 1613.5(3))	Ss = 2.13 g
Spectra Accel., Long Period, S1	(IBC Figure 1613.5(4))	S1 = 1.18 g
Site Classification	(CBC Table 1613.5.2)	= D
Design Response, Short Period, SDs	(CBC Section 1613.5.4)	SDs = 1.42 g
Design Response, Long Period, SD1	(CBC Section 1613.5.4)	SD1 = 1.18 g
Seismic Design Category	(IBC Table 1613.5.6(1))	= D
Seismic Response Coefficient, Cs	(ASCE 7, Section 12.8.1)	Cs = 0.355
Response Modification Factor, R	(ASCE 7, Table 12.2-1)	R = 4
System Overstrength Factor, Ωo	(ASCE 7, Table 12.2-1)	Ωo = 2.5
Lateral System	(ASCE 7, Table 12.2-1(A)1)	Ordinary Reinforced Concrete Shear Walls

Seismic Analysis Procedure: Static lateral force procedure

EXISTING CONSTRUCTION

Existing construction shown on the structural drawings was obtained from the original construction documents. The Contractor shall verify all existing conditions and shall notify the Architect of all exceptions before proceeding with the work.

The removal, cutting, drilling, etc. of existing work shall be performed with great care and small tools in order not to jeopardize the structural integrity of the building. If existing structural members, not indicated for removal, interfere with the new work, the Engineer shall be notified immediately, and approval obtained, before removal of the existing members.

The Contractor shall safely shore existing construction wherever existing supports are removed to allow installation of the new work. The existing construction shall be connected and/or embedded into the new construction as shown or specified.

FOUNDATIONS

Foundations conform to the recommendations of the Geotechnical Report entitled:
" , California," prepared by , dated .

Maximum soil pressure = ____ psf DL
= ____ psf DL + LL
= ____ psf DL + LL + Lateral

Footings

Footings shall extend to such depth as to bear upon firm, undisturbed native soil or engineered/compacted/select fill. All abandoned footings, utilities, etc. shall be removed. All footings shall be founded at a depth at least ___ below the lowest adjacent grade. Footing depths shown on the structural drawings are minimum depths. Footings may be poured in neat excavated trenches.

Excavations for footings shall be observed by the Geotechnical Engineer prior to placing reinforcing and concrete. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for observation.

Engineered/Compacted/Select Fill

Engineered/Compacted/Select fill below footings shall be compacted to 90%/95% relative compaction as determined by the ASTM D1557 compaction test method and under the observation of the Geotechnical Engineer. Engineered/Compacted/Select fill shall have a minimum depth of ___ beneath all footings and extend at least ___ feet beyond all edges thereof.

Slabs On Grade

For the sub capillary break materials under concrete slabs on grade, refer to the Geotechnical Report. Provide 2" of moist sand over a 10 mil vapor barrier over 4"/6" rock course under slabs on grade. Rock course shall be rolled to a smooth surface.

Backfill

All excavations shall be properly backfilled. Do not place backfill behind retaining walls before the concrete or grout has attained full design strength. The Contractor shall brace or protect all building and pit walls below grade from lateral loads until the attaching floors are completely in place and have attained full strength. The Contractor shall provide for the design, permits, and installation of such bracing.

Footing backfill and utility trench backfill within the building area shall be mechanically compacted in layers in accordance with the Geotechnical Report and observed by the Geotechnical Engineer or Inspector. Flooding will not be permitted.

REINFORCING STEEL

Reinforcing Steel detailing, fabrication, and placement shall conform to the "International Building Code", Chapter 19; the "Manual of Standard Practice of the Western Concrete Reinforcing Steel Institute", latest edition; and the "Building Code Requirements for Structural Concrete and Commentary", ACI 318-05; unless otherwise noted.

Standards: Reinforcing steel shall conform to the following standards:

Deformed Bars, #3	ASTM A615, Grade 40
Deformed Bars, #4 and larger	ASTM A615, Grade 60
Welded reinforcement, when specified by Engineer	ASTM A706
Welded Wire Fabric, WWF (smooth wire)	ASTM A185
Smooth wire in WWF	ASTM A185
Deformed Wire Fabric, DWF (deformed wire)	ASTM A497
Deformed wire in DWF	ASTM A496
Spiral Reinforcement, smooth	ASTM A615
Spiral Reinforcement, deformed	ASTM A615
Epoxy Coated Reinforcing, when specified by Engineer	ASTM A775 and A615

Placing: All steel reinforcement shall be securely tied in place so as to maintain their exact position before and during the placement of concrete. Reinforcing steel shall be securely tied in place with #16 annealed iron wire. Bars in beams and slabs shall be supported on well-cured concrete blocks or approved plastic tipped metal chairs, as specified by CRSI Manual of Standard Practice, MSP-1. Accessories for epoxy-coated reinforcing, where shown on plans, shall be as noted in the Specifications. Wire fabric in slabs shall be securely fastened to supporting devices to maintain their position during concrete placement.

Lap bars 48 diameters, 24" minimum, unless otherwise noted.
Lap wire fabric 6" minimum.
Lap circular hoop reinforcement 48 bar diameters, 12" minimum.
Lap spiral reinforcement 2 turns.

Clear distances, steel to forms, unless noted otherwise:

Slabs not exposed to weather, joists, interior wall surfaces	3/4"
Exterior wall surfaces, slabs exposed to weather	1-1/2"
Column Ties, Beam Ties	1-1/2"
Clear distance between bars	2"
Slabs on rolled grade	1-1/2"
Formed surfaces in contact with earth	2"
Unformed surfaces in contact with earth	3"

Shop drawings shall be submitted to the Architect for review prior to fabrication. Shop drawings shall include elevations of all beams and columns showing bar and lap locations. See Shop Drawing Submittal Requirements elsewhere in General Notes. Submit mill certificates for reinforcing steel prior to rebar placement.

CONCRETE WORK

Forms shall be properly constructed conforming to concrete surfaces as shown on the drawings, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed to support the concrete. Forms for exposed concrete shall be plywood, using sheets as large as possible, with all joints tightly fitted and blocked, and shall produce a finished concrete surface which is smooth, true, and free from blemishes according to accepted standards for architectural concrete.

Refer to architectural, electrical, and mechanical drawings for details at door and window openings, floor type hinges, etc., and for location of sleeves, pipes, and other embedded items. Openings through slabs or walls not shown on the structural drawings which would interrupt reinforcing bars shall not be made without approval of the Architect.

Debris should be entirely removed from forms prior to concrete placement.

CONCRETE WORK (continued)

Horizontal construction joints shall be located as shown on the structural drawings, and the hardened concrete surfaces shall be cleaned by sand-blasting or other approved means to expose firmly embedded aggregates prior to pouring additional concrete in contact with these surfaces. Vertical construction joints through beams or slabs shall be located only as shown on structural drawings.

Forms and shoring shall not be removed until the concrete has attained sufficient strength to withstand all loads to be imposed without excessive stress, creep, or deflection. See specifications for shoring requirements.

Concrete shall be ready mixed conforming to ASTM C94. Cement shall be Portland Cement Type II, conforming to ASTM C150. All hardrock (H.R.) concrete used in suspended slabs and slabs on grade shall be designed for low shrinkage (L.S.). Acceptable coarse aggregates for low shrinkage concrete include Orcas, Kaiser Clayton, Granite Rock, Limestone, Sechelt, or Orcas aggregates. Fine aggregates acceptable for low shrinkage concrete include Orcas or Sechelt or Orcas sands. Alternative aggregates may be submitted provided they provide a concrete mix with a shrinkage limitation of 0.040% after 28 days of drying. Submit test data to Architect for review.

Use maximum size aggregate as noted below. Use 3/8" maximum aggregate where necessary for proper placing, such as in thin or congested sections, etc. Superplasticizers may be used to improve workability in thin or congested sections. Incorporate superplasticizers into concrete mix designs.

Contractor shall submit for review of the Architect the concrete mixes proposed for use, designed by the concrete supplier and reviewed by an approved testing laboratory.

Concrete shall have the following characteristics:

Concrete Location	Max Aggregate	Strength @ 28 Days (psi)	Min Slump1 (inches)	Min Cement Content (Sacks)	Max Water Content1 (gals)	Max Water/ Cement Ratio	Flyash Content Min, Max
Footings	1-1/2" HR	3000	3-1/2	5.0	36	0.60	20%,35%
Slab on grade	1"x#4 HR-LS	3000	3-1/2	5.0	33	0.45	15%,25%

1 Slump shall be the minimum consistent with proper placing. Achieve slump with water reducing admixtures(ASTM A-494 Type A, F, or A/F) for desired workability.
2 Use high range water reducing admixture (superplasticizer) as needed.
3 See Prestressed Concrete and Post-Tensioning section, note #18.
4 Use water reducing admixtures or mid-range water reducing admixtures for desired workability.

Pipes other than electrical conduits shall not be embedded in structural concrete except where specifically approved by the Engineer. Electrical conduits embedded in concrete shall not exceed 1-1/4" O.D., without approval of the Engineer.

Conduit or sleeves, when embedded in concrete, shall be spaced with one conduit or sleeve diameter (larger conduit/sleeve) clear between adjacent conduits, sleeves, or rebar, or 1 inch, whichever is greater. Conduit or sleeves can be tied to rebar when oriented perpendicular to them, provided the location of the rebar is not affected by the conduit or sleeves. Conduit or sleeves without clearance noted above shall be submitted to the architect for review prior to installation. Added trim reinforcement will be required where clearances cannot be met, such as electric panel rooms.

The Contractor shall inform the Architect at least 3 days prior to pouring any structural concrete so that the Architect may have the opportunity of reviewing the work prior to concrete placement.

All concrete except slabs on grade 6" thick or less shall be mechanically vibrated so as to completely fill the forms without causing undue segregation.

Four test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days, two at 28 days, and the fourth held in reserve. For post-tensioned concrete secure five cylinders per 150 yards, or fraction thereof, poured in any one day, two sets minimum. Test one at 4 days, two at 28 days, and hold two in reserve.

The Contractor shall remove and replace any concrete which fails to attain specified strength in 28 days if so directed by the Architect. Any defects in the hardened concrete shall be satisfactorily repaired or the hardened concrete shall be replaced.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

Structural Steel and Miscellaneous Iron shall be fabricated and erected according to the American Institute of Steel Construction's "Specifications for Design, Fabrication, and Erection of Structural Steel for Buildings," latest edition and the "Code for Standard Practice for Steel Buildings and Bridges," latest edition.

All steel wide flange shapes shall conform to ASTM A992. Unless otherwise noted, all other steel plates and shapes shall conform to ASTM A36. Steel Pipe shall conform to ASTM A53 Grade B (Fy = 35 ksi) or ASTM A501 (Fy = 36 ksi). Structural Tubing shall conform to ASTM A500 Grade B. Use bars in lieu of plates wherever practical or called for on the structural drawings.

All steel to steel bolted connections shall be bolted with high strength bolts according to ASTM A325 and ASTM A490, as approved by the Research Council of Riveted and Bolted Structural Joints. Other bolted connections, including anchor bolts, shall be bolted with unfinished bolts according to ASTM A307.

All welded connections shall be welded according to the "Structural Welding Code - Steel", AWS-D1.1, latest edition. Welding shall be performed by welders certified for the welds to be made. All welding should be done with E70XX electrodes, unless noted otherwise. Refer to the specifications for the welding process to be used.

The weld lengths called for on the structural drawings are the net effective length required. Where fillet weld symbol is given without indication of size, use the minimum size welds as specified in AISC Manual of Steel Construction 13th Edition, Section J2.

All structural steel surfaces that are encased in concrete, masonry, or spray on fireproofing, or are encased by building finish, shall be left unpainted.

Galvanize according to ASTM A123, hot dip process.

Additional miscellaneous metal items such as embeds, railings, and supports for interior finishes may be shown on drawings prepared by others, see architectural drawings.

Shop drawings shall be submitted to the Architect for review prior to fabrication.

The testing agency shall send copies of all structural testing and inspection reports directly to the Engineer.

LIGHT METAL STRUCTURAL FRAMING

Light metal structural framing shall be fabricated and erected according to manufacturer's recommendations. All structural properties shall be computed in accordance with the AISI "Specifications for the Design of Cold Formed Steel Structural Members," latest edition.

Unless otherwise noted, steel shall conform to the following specifications:

a. Studs, runners, and joists, painted, 54 mils and heavier: ASTM A1011 Grade 50, modified to a minimum yield point of 50 ksi.

b. Studs, runners, and joists, galvanized, 54 mils and heavier: ASTM A653 Grade 50, minimum 50 ksi yield.

c. Studs, runners, and joists, painted, 43 mils and lighter: ASTM A1008 Grade 33, modified to a minimum yield point of 33 ksi.

d. Studs, runners, and joists, galvanized, 43 mils and lighter: ASTM A653 Grade 33, minimum 33 ksi yield.

For minimum stud section properties, refer to the structural details.

Metal stud and metal joist bridging (V or solid) shall be provided and installed according to the manufacturer's recommendations. Align at least one metal stud under every metal joist, beam, or header.

LIGHT METAL STRUCTURAL FRAMING (continued)

Welding of light metal shall be with fillet welds equal in thickness to the thinner of the two sections being joined. All welded connections shall be welded as shown on the structural drawings. Double vertical studs shall be stitch welded together on both flanges with 1/16" groove welds x 1" long at 12" on center.

Shop drawings shall be submitted to the Architect for review prior to erection.

The Testing Laboratory shall send copies of all testing reports directly to the appropriate Building Inspection Department.

EPOXY

Epoxy shall be HIT HY150 as manufactured by Hilti, Inc. (ICC Evaluation Report ER-5193). All drilled holes shall be sized according to the manufacturer's recommendations.

SHOP DRAWING SUBMITTALS

When indicated with a '✓', the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. The Engineer will review two prints and one reproducible copy of each submittal.

Item	Shop Drawings	Certif-icate	Shop Dwgs, Calcs, and Details	Remarks
Concrete, reinforcing				
Concrete, mixes				
Concrete, cement				
Concrete, fine aggregates				
Concrete, coarse aggregates				
Concrete, admixtures				
Structural steel				
Light metal structural framing				

SPECIAL INSPECTION

When indicated with a '✓', the following items shall be inspected in accordance with UBC Section 1701.5 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Grading, excavations, and fill		By Geotechnical Engineer
Concrete, rebar placement		Inspect final placement
Concrete, anchor bolts and inserts		
Concrete, concrete placement		Continuous
Expansion anchor placement		
Epoxy anchor placement		
Structural steel, shop welding - periodic		Fillet welds
Structural steel, shop welding - continuous		Partial or full penetration welds
Structural steel, field welding - periodic		Fillet welds
Structural steel, field welding - continuous		Partial or full penetration welds
Structural steel, high strength bolting		
Structural steel, welded anchors or studs		

MATERIAL SAMPLING AND TESTING

When indicated with a '✓', the following materials shall be sampled and/or tested by a certified inspector from an established testing agency in accordance with the project specifications, general notes, or prevailing building code, whichever is more stringent. All material sampling and testing shall be performed in accordance with ASTM requirements. For additional information on material sampling and testing, refer to the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Concrete, reinforcing		Mill certificate in lieu of samples
Concrete, cylinders		
Structural steel, ultrasonic testing		
Structural steel, bend tests on welded studs		
Expansion anchor installation		
Epoxy anchor installation		

STRUCTURAL OBSERVATION

The structural engineer of record, or his designated engineer, shall provide structural observation of the structural system for general conformance to the approval plans and specifications at significant construction stages and at completion of the structural system, as required by UBC Section 1702 and defined in UBC Section 220. Written reports shall be submitted to the owner's representative, special inspector, contractor, and building official.

The structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies which, to the best of the structural observers knowledge, have not been resolved.

Structural System Components requiring observation in this project include:

Item	Required	Remarks
	✓	

Structural observation does not include or waive the responsibility of the special inspections required by UBC Sections 108, 1702, or other sections of the code as noted elsewhere in the Contract Documents.

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DSA SUBMITTAL

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3401 CSM Drive
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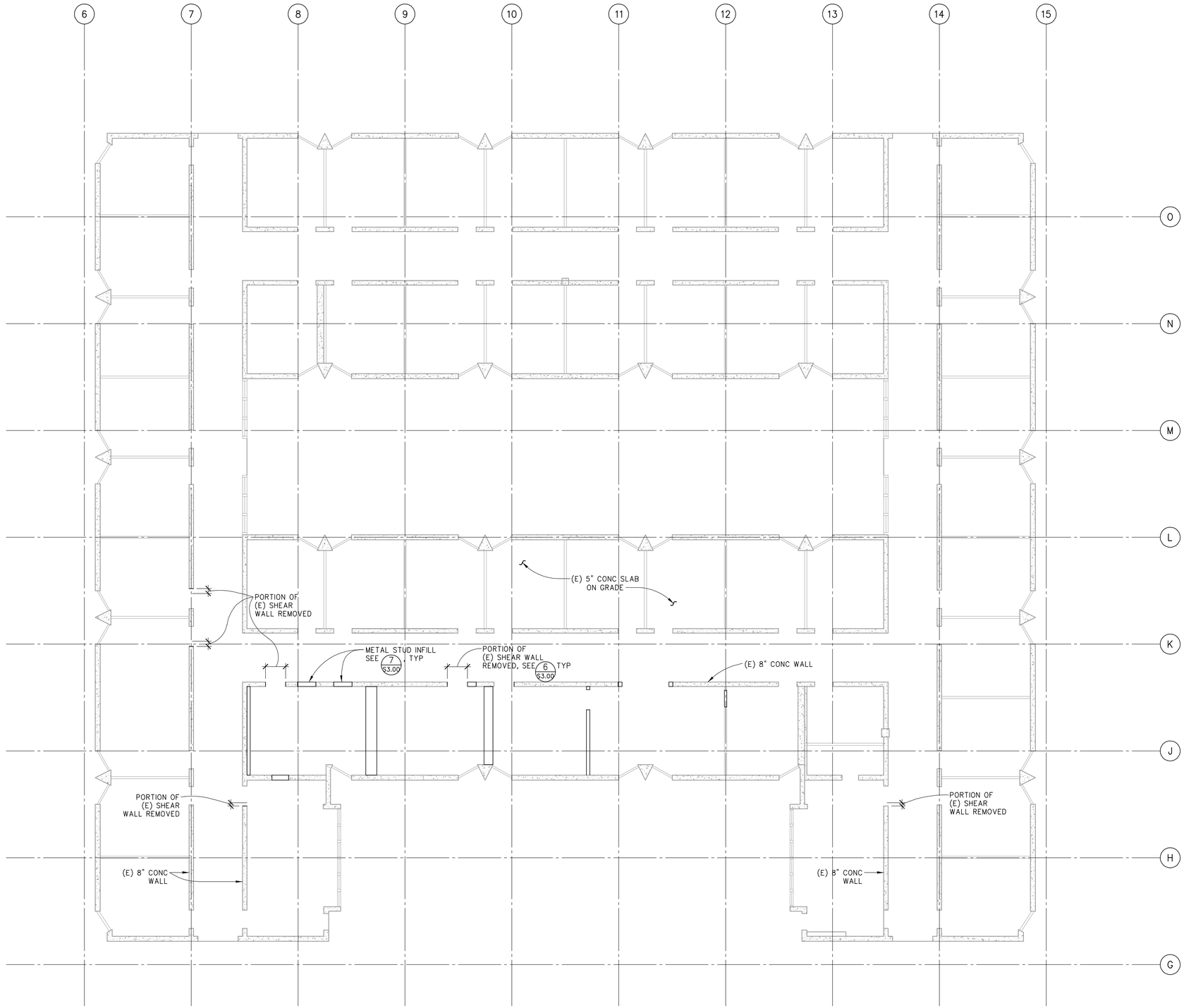
SHEET TITLE
BUILDING 15 GENERAL NOTES

REVISIONS		
NO.	DATE	DESCRIPTION

DATE MARCH 9, 2009
DRAWN BV
CHECKED SP
SCALE
KPFF JOB NO.: K109013.00

SHEET NUMBER
S1.00



BUILDING 15 - FOUNDATION PLAN

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

1

KPFF K0000 S2.11

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COLLEGE OF SAN MATEO

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College of San Mateo
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San Mateo, CA 94402

SHEET TITLE

BUILDING 15 FOUNDATION PLAN

△ REVISIONS

NO.	DATE	DESCRIPTION

DATE	MARCH 9, 2009
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CHECKED	SP
SCALE	
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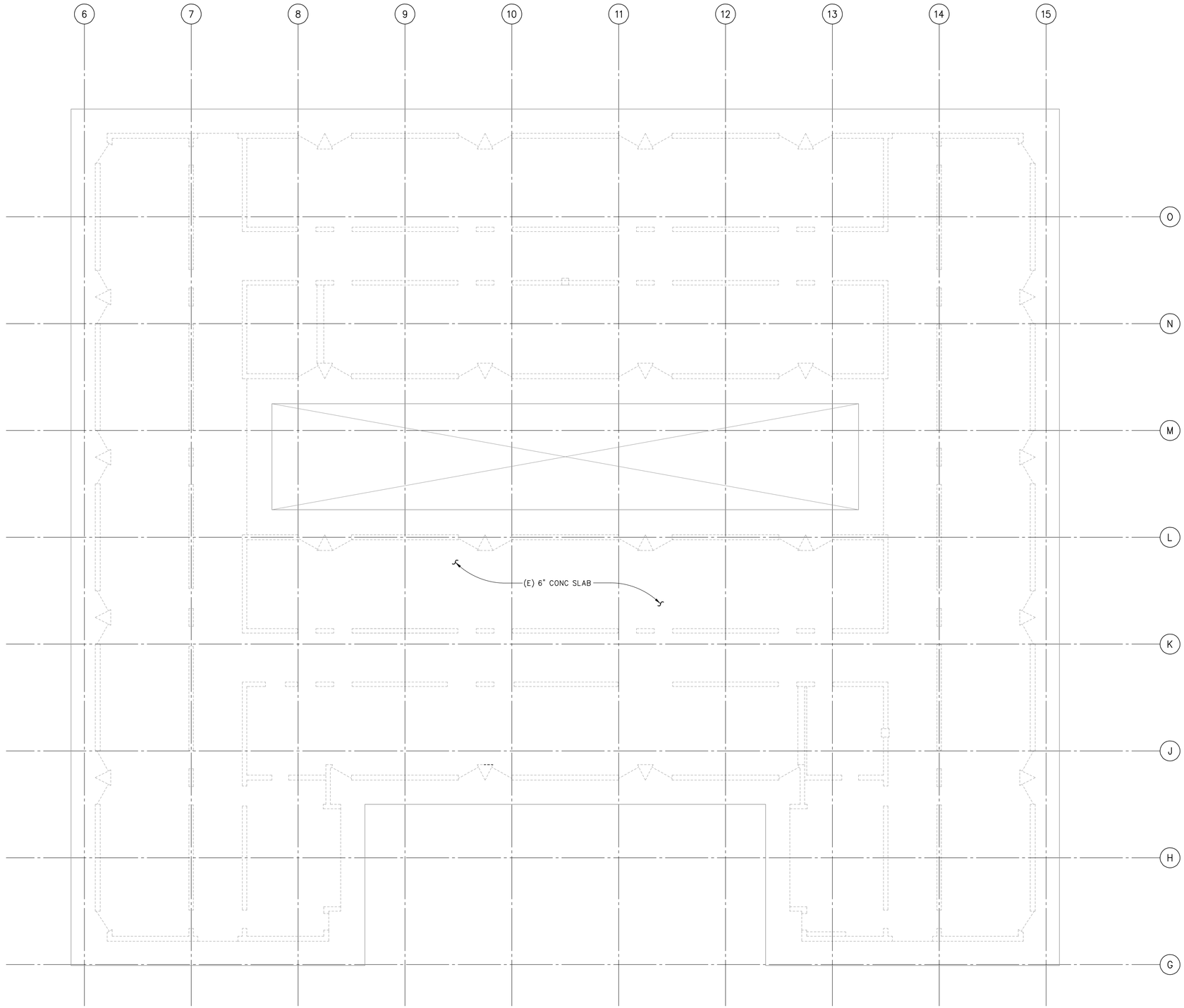
SHEET NUMBER

S2.11



BUILDING 15 - ROOF PLAN

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

KPFF K0000

1

S2.12

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BUILDING 15 ROOF PLAN

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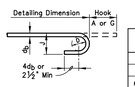
SHEET NUMBER

S2.12

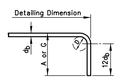
STANDARD HOOK DETAILS



180° HOOK

Bar Sizes	D = Finished Inside Bend Diameter	
	Standard Hooks	Stirrup/Tie Hooks
#3, #4, #5	$6d_b$	$4d_b$
#6, #7, #8	$6d_b$	$6d_b$
#9, #10, #11	$8d_b$	$8d_b$
#14, #18	$10d_b$	$10d_b$

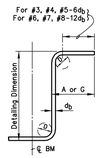
d_b = Nominal Bar Diameter



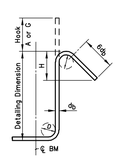
90° HOOK

Bar Sizes	Dimensions of standard 180 degree hooks, all grades			Dimensions of standard 90 degree hooks, all grades	
	A or G	J	D	A or G	D
#3	5"	3"	2¼"	6"	2¼"
#4	6"	4"	3"	8"	3"
#5	7"	5"	3¾"	10"	3¾"
#6	8"	6"	4½"	1'-0"	4½"
#7	10"	7"	5¼"	1'-2"	5¼"
#8	11"	8"	6"	1'-4"	6"
#9	1'-3"	11¾"	9½"	1'-7"	9½"
#10	1'-5"	1'-1¾"	10¾"	1'-10"	10¾"
#11	1'-7"	1'-2¾"	12"	2'-0"	12"
#14	2'-3"	1'-9¾"	18¼"	2'-7"	18¼"
#18	3'-0"	2'-4½"	24"	3'-5"	24"

D = Bend diameter



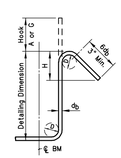
90° HOOK



135° HOOK

Stirrup Hooks (Tie Bends Similar)

Bar Size	D	90°	135°	
		A or G	A or G	Approx H
#3	1½"	4"	4"	2½"
#4	2"	4½"	4½"	3"
#5	2½"	6"	5½"	3¾"
#6	4½"	1'-0"	7¾"	4½"
#7	5¼"	1'-2"	9"	5¼"
#8	6"	1'-4"	10¼"	6"

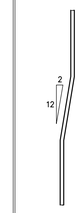


135° HOOK

Seismic Stirrup/Tie

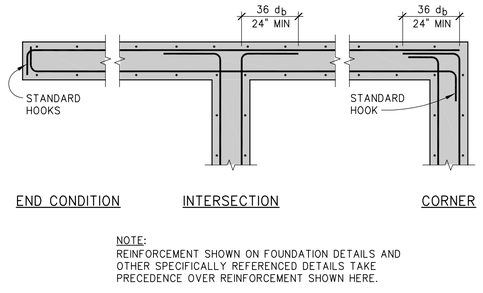
135° Seismic Hook			
Size	D	A or G	Approx H
#3	1½"	4¼"	3"
#4	2"	4½"	3"
#5	2½"	5½"	3¾"
#6	4½"	7¾"	4½"
#7	5¼"	9"	5¼"
#8	6"	10¼"	6"

MAXIMUM BAR OFFSET



CONCRETE REINF HOOKS

SCALE: NONE | 1 | KPFF K1011 | S3.00

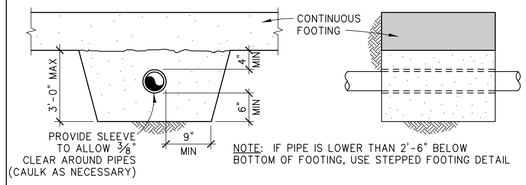


END CONDITION INTERSECTION CORNER

NOTE:
REINFORCEMENT SHOWN ON FOUNDATION DETAILS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

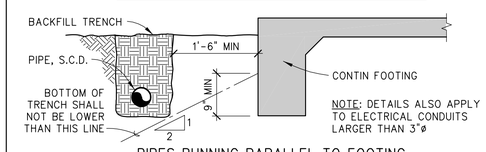
FOOTING REINF

SCALE: NONE | 2 | KPFF K1017 | S3.00



NOTE: IF PIPE IS LOWER THAN 2'-6" BELOW BOTTOM OF FOOTING, USE STEPPED FOOTING DETAIL

PIPES RUNNING PERPENDICULAR TO FOOTING

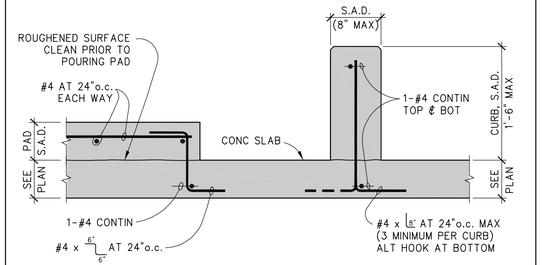


NOTE: DETAILS ALSO APPLY TO ELECTRICAL CONDUITS LARGER THAN 3"ø

PIPES RUNNING PARALLEL TO FOOTING

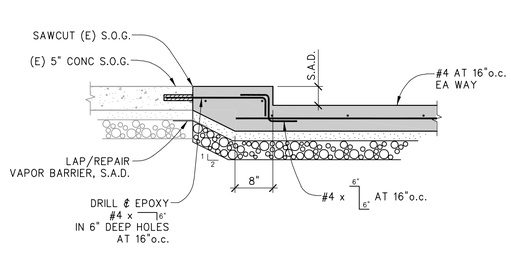
PIPE TRENCH AT FOOTING

SCALE: NONE | 3 | KPFF K1025 | S3.00



CURBS ℄ PADS ON SLAB

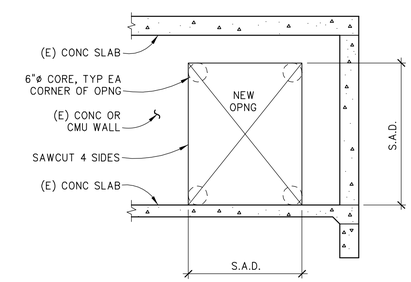
SCALE: NONE | 4 | KPFF K1060 | S3.00



SECTION

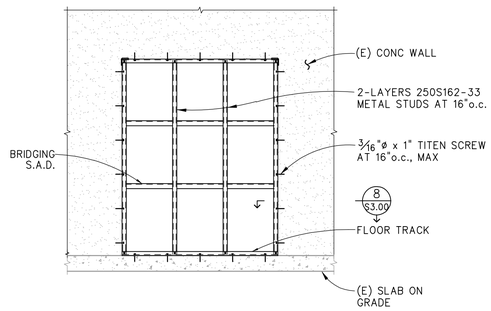
SCALE: 3/4" = 1'-0" | 5 | KPFF K0000 | S3.00

NOTE:
CORE 6"ø HOLES AT EACH CORNER BEFORE SAWCUTTING OPENING. DO NOT OVERCUT CORNERS, CHIP OUT WALL AS REQUIRED TO PROVIDE SQUARE CORNERS.



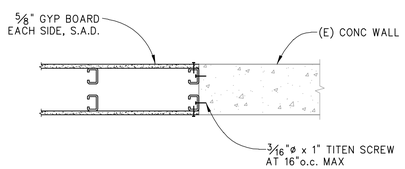
OPENING IN EXISTING WALL

SCALE: NONE | 6 | KPFF K1051 | S3.1



TYPICAL METAL STUD INFILL

SCALE: 1/2" = 1'-0" | 7 | KPFF K0000 | S3.00



PLAN DETAIL

SCALE: 1" = 1'-0" | 8 | KPFF K0000 | S3.00

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01 XXXXX
AC ____ FLS ____ SS ____
DATE ____

DSA SUBMITTAL

COLLEGE OF SAN MATEO
BUILDING 15 MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
BUILDING 15 DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

DATE MARCH 9, 2009
DRAWN BV
CHECKED SP
SCALE
KPFF JOB NO.: K109013.00

SHEET NUMBER
S3.00