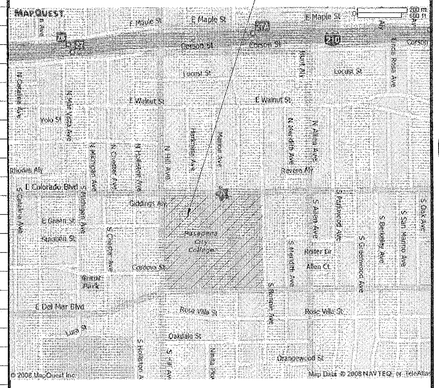

BUILDING "R" TOILET ROOMS RENOVATION

PASADENA CITY COLLEGE

NTD ARCHITECTURE
955 Overland Court, Suite 100
San Dimas, California 91773
909/450.2180
www.ntd.com
San Diego • Los Angeles • Auburn • Visalia • Phoenix • Tucson

KEYNOTES

ABBREVIATIONS

PRELIM	PRELIMINARY
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
RA	RETURN AIR
RAD	RADIUS
RD	ROOF DRAIN
RECD	RECEIVED
RECT	RECTANGULAR
REF	REFERENCE
REG	REGISTER
REINF	REINFORCING
REQ	REQUIRED
REV	REVISED
RH	RIGHT HAND
RHMS	ROUND HEAD METAL SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWD	REDWOOD
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SECT	SECTION
SEG	SEGMENT
SGE	SEMI GLOSS ENAMEL
SGL	SINGLE
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SK	SINK
SPEC	SPECIFICATION
SQ	SQUARE
SSK	SERVICE SINK
ST	STREET
STAG	STAGGERED
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TSR	TOPSET RESILIENT
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERED
TERM	TERMINAL
THK	THICKNESS
THRESH	THRESHOLD
THRU	THROUGH
TYP	TYPICAL
TERR	TERRAZZO
UC	UNDERCUT
UNFIN	UNFINISHED
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
VAT	VINYL ASBESTOS TILE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VT	VINYL TILE
VTR	VENT THRU ROOF
W	WIDE
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD DRAIN
ZA	ZINC ALLOY
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GLB	GLUE LAMINATED BEAM
GR BM	GRADE BEAM
GYP	GYPSUM
GND	GROUND
H&CW	HOT & COLD WATER
HB	HOSE BIB
HD	HEAD
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HTR	HEATER
HW	HOT WATER
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
J-BOX	JUNCTION BOX
JAN	JANITOR
JST	JOIST
JT	JOINT
KD	KNOCK DOWN
KO	KNOCK OUT
LAM	LAMINATED
LAV	LAVATORY
LDG	LANDING
LF	LINEAL FOOT
LG	LONG
LH	LEFT HAND
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LRG	LARGE
LT	LIGHT
LT WT	LIGHTWEIGHT
MS	MACHINE SCREW
MACH	MACHINE
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MET	METAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MSD	MOTION SENSOR/ DETECTOR
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
(N)	NEW
NA	NOT APPLICABLE
NAT	NATURAL
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHWS	OVAL HEAD WOOD SCREW
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
PERF	PERFORATED
PIV	POST INDICATOR VALVE
PKG	PACKAGE
PL	PLATE OR PROPERTY LINE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PORT	PORTABLE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
A.C.	ACCESS COMPLIANT
ACOUST	ACOUSTICAL
ACT	ACOUSTIC TILE
AD	AREA DRAIN
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AV	AUDIO-VISUAL
BAL	BALANCE
BD	BOARD
BETW	BETWEEN
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM	BEAM OR BENCH MARK
BOT	BOTTOM
BS	BOTH SIDES
BTU	BRITISH THERMAL UNITS
BU	BUILT UP
BUR	BUILT-UP ROOFING
C/C	CENTER TO CENTER
CAB	CABINET
CARP	CARPET
CB	CATCH BASIN OR CHALKBOARD
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CI	CAST IRON
CJ	CONSTRUCTION JOINT
CL	CENTERLINE OR CHAIN LINK
CLNG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMPO	COMPOSITION
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CP	CONTROL PANEL
CSK	COUNTERSUNK
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DL	DEAD LOAD
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
(E)	EXISTING
EA	EACH
EDF	ELECTRICAL DRINKING FOUNTAIN
EE	EGGSHELL ENAMEL
ELEC	ELECTRIC/ ELECTRICAL
ELEV	ELEVATION
ENG	ENGINEERING
ENTR	ENTRANCE
EP	ELECTRICAL PANEL
EQUIP	EQUIPMENT
EST	ESTIMATED
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/F	FACE TO FACE
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FS	FULL SIZE
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNITURE
F.H.	FLAT HEAD

ACCESSIBILITY NOTES

1. PER SECTION 1133B.7: "PATH OF TRAVEL" (POT) AS INDICATED, IS A BARRIER FREE ACCESS. IS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL. MAXIMUM CROSS-SLOPE 2% TYPICAL AND MAXIMUM SLOPE IN THE DIRECTION IS 5%, UNLESS NOTED OTHERWISE. POT SHALL BE MAINTAINED FREE OF OVERHEAD OBSTRUCTION TO 80" MIN. AND PROTRUDING OBJECTS GREATER THAN 4" FROM WALL AND ABOVE 27" AND LESS THAN 80". THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS IN THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

SYMBOLS

CODE INFORMATION

5 STORY + BASEMENT BLDG BUILT IN 1966 UNDER 24 CALIFORNIA ADMINISTRATIVE CODE: TYPE I, NON COMBUSTIBLE CONSTRUCTION AND STRUCTURE: "WALLS, PARTITIONS, FLOORS, ROOFS, VERTICAL OPENINGS, ETC., SHALL BE OF MATERIALS, INSTALLATION AND FIRE RESISTANCE AND/OR FIRE PROOFING COMPLYING WITH 24 CALIFORNIA ADMINISTRATIVE CODE REQUIREMENTS".

PER 2007, CBC, TABLE 601:
NON-BEARING PARTITIONS DO NOT REQUIRE FIRERATING.
BUILDING GROUP E-1

GENERAL REQUIREMENTS

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CCR.
2. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, NOT BY THE CONTRACTOR.
3. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
4. AN INSPECTOR OF RECORD (CLASS 2 - I.O.R.) EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR OF RECORD ARE DEFINED IN SECTION 4-342, PART I, TITLE 24, CCR

CODES & REGULATIONS

ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS INCLUDING THE FOLLOWING:
LIST OF 2007 CALIFORNIA CODE OF REGULATIONS TITLE 24

APPLICABLE STATE CODES AS OF JANUARY 1, 2008
CCR - 2007 UPDATE

- 2007 BUILDING STANDARDS ADMINISTRATIVE CODE - PART 1 (CBSC)
- 2007 CALIFORNIA BUILDING CODE - PART 2 (CBSC). (2006 IBC, VOLUMES 1-3 AND 2007 CALIFORNIA AMENDMENTS)
- 2007 CALIFORNIA ELECTRICAL CODE (CEC) - PART 3 (2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
- 2007 CALIFORNIA MECHANICAL CODE (CMC) - PART 4 (2006 UNIFORM MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
- 2007 CALIFORNIA PLUMBING CODE (CPC) - PART 5. (2006 UNIFORM PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS)
- 2007 CALIFORNIA FIRE CODE - PART 9. (2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
- 2007 CALIFORNIA REFERENCED STANDARDS - PART 12

- TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

LIST OF APPLICABLE FEDERAL CODES AND STANDARDS:
- AMERICANS WITH DISABILITIES ACT (ADA)

PARTIAL LIST OF APPLICABLE REFERENCED STANDARDS:
- NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2007 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
- REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC 2007 CHAPTER 5

SHEET INDEX

	GENERAL
G0.1	TITLE SHEET, PROJECT DIRECTORY, VICINITY MAP, ABBREVIATIONS
G0.2	FIRE AND LIFE SAFETY NOTES. GENERAL NOTES
EXHIBIT B	EXISTING ACCESS SITE PLAN - PBWS ARCHITECTS (FOR REFERENCE ONLY) 03-110332 03-110280
	DEMOLITION
D2.1	PARTIAL FIRST FLOOR DEMOLITION PLAN
D4.1	PARTIAL FIRST FLOOR CEILING DEMOLITION PLAN
	ARCHITECTURAL
A1.1	OVERALL SITE PLAN
A2.1	OVERALL FIRST FLOOR PLAN
A3.1	PARTIAL FIRST FLOOR PLAN
A4.1	PARTIAL FIRST FLOOR REFLECTED CEILING PLAN
A4.2	CEILING DETAILS
A7.1	INTERIOR ELEVATIONS
A8.1	DOOR AND FINISH SCHEDULES, MISC. DETAILS
A9.1	WALL TYPES AND DETAILS
A9.2	METAL STUD DETAILS
	STRUCTURAL
S1	GENERAL NOTES, PLAN AND DETAILS
	MECHANICAL
M0.1	MECHANICAL GENERAL NOTES, LEGENDS AND SCHEDULES
M2.1	MECHANICAL PARTIAL DEMO ENLARGED FLOOR PLAN
M3.1	MECHANICAL PARTIAL FIRST FLOOR PLAN
	PLUMBING
P0.1	PLUMBING GENERAL NOTES, LEGENDS AND SCHEDULES
P2.1	PLUMBING PARTIAL DEMO ENLARGED FLOOR PLAN
P3.1	PLUMBING PARTIAL FIRST FLOOR PLAN
	ELECTRICAL
E0.1	ELECTRICAL PARTIAL DEMO ENLARGED FLOOR PLAN
E2.1	FIRST FLOOR LIGHTING AND POWER PLAN
E3.1	FIRST FLOOR FIRE ALARM PLAN
E3.2	NOTES, ELECTRICAL, FA SPECS & DETAILS

PROJECT DIRECTORY

OWNER	PASADENA CITY COLLEGE 1570 EAST COLORADO BLVD PASADENA, CA 91106-2003 (626) 585-7676 FAX (626) 585-7918
ARCHITECT	NTD ARCHITECTURE 955 OVERLAND COURT SUITE 100 SAN DIMAS, CA. 91773 (909) 450-2180 FAX (909) 592-6153
STRUCTURAL	KNA CONSULTING ENGINEERS, INC. 9931 MUIRLANDS BLVD. IRVINE, CA. (949) 462-3200 FAX (949) 462-3201
MECHANICAL	AMPE 600 W. BROADWAY, SUITE 250 GLENDALE, CA. 91204 (818) 265-9720 FAX (818) 265-9725
ELECTRICAL	DL ENGINEERING GROUP 600 W. BROADWAY, SUITE 250 GLENDALE, CA. 91204 (818) 265-9720 FAX (818) 265-9725
HARDWARE	FINISH HARDWARE TECHNOLOGY 12035 SATICOY STREET, SUITE F NORTH HOLLYWOOD, CA 91605 (818) 962-2102 FAX (818) 962-5062

DESCRIPTION OF WORK

ALTERATION OF EXISTING BUILDING "R" FIRST FLOOR TOILET ROOMS.
BUILDING "R" WAS CONSTRUCTED IN TWO PHASES STARTING IN 1966 THE ORIGINAL TWO "A" NUMBERS A#23867 & 27038.

VICINITY MAP

1570 E COLORADO BLVD
PASADENA, CA 91106

NO SCALE

KEY PLAN

SEAL
JAY R. TITTLE
NO. 29551
REN. 11-30-11

AGENCY REVIEW
DSA REVIEWER: LESLIE CHO

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 113596
AC W FLS SW SS LC
DATE 3-29-11

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
TITLE SHEET
PROJ. DIR., VICINITY MAP, ABRVS.

NO.	DATE	ISSUE

DRAWN BY: OC/GG
PROJECT NO.: 2007-SH29-0
CHECKED BY
© DATE: 3-29-2011
DRAWING NO.: **G0.1**
SHEET OF

GENERAL NOTES

GENERAL STRUCTURAL NOTES

1. SUPPORT AND BRACE ALL PIPES, DUCTS, AND CONDUITS PER THE FOLLOWING STANDARDS OR APPROVED EQUAL: GUIDELINES FOR SEISMIC RESTRAINTS FOR MECHANICAL AND PLUMBING PIPING SYSTEMS PUBLISHED BY S.M.A.C.N.A.

2. PROVIDE ALL TEMPORARY SHORING AND BRACING AS REQUIRED FOR ALL DEMOLITION AND NEW WORK AS REQUIRED. ASSUME FULL RESPONSIBILITY FOR REPAIR AND/OR REPLACEMENT OF DAMAGED AREAS, INCLUDING BUT NOT NECESSARILY LIMITED TO, STRUCTURE, FINISHES, EQUIPMENT AND FURNISHINGS IF DAMAGE OF ANY KIND OCCURS AS RESULT OF IMPROPER OR INADEQUATE SHORING OR BRACING.

3. UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, DO NOT CUT OR OTHERWISE MODIFY STRUCTURAL ELEMENTS WITHOUT DIRECTION FROM ARCHITECT. PROVIDE REINFORCEMENT, SUPPORT, TEMPORARY SHORING SATISFACTORY TO THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING ELEMENT. PROVIDE ALL CUTTING OF STRUCTURAL ELEMENTS, AND ALL ASSOCIATED REPAIR OR REFINISHING OF ADJACENT SURFACES AT NO ADDITIONAL EXPENSE TO THE OWNER.

4. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWER DRIVEN PINS IN EXISTING NON-PRE-STRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. X-RAY FOR REBAR LOCATIONS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN. PROVIDE ALL X-RAYS OF SLAB & WALLS AS NEEDED TO MEET THIS REQUIREMENT.

GENERAL FINISH NOTES

1. ALL CEILING HEIGHT DIMENSIONS MEASURED TO FINISH SURFACES UNLESS NOTED OTHERWISE.

2. EXTEND BASE MATERIAL BEHIND ALL MOVABLE EQUIPMENT AND INTO ALL ALCOVES, KNEE SPACES AND SIMILAR AREAS, UNLESS NOTED OTHERWISE.

3. WHEN COUNTER TOP SPLASH IS REQUIRED, EXTEND SPLASH ON SIDES WHERE COUNTER JOINS ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE.

4. ALL INTERIOR FINISHES SHALL COMPLY WITH CHAPTERS 8 AND 25A, PART 2, TITLE 24, CCR, INCLUDING TABLE 8-A, AND TABLES 25A-25I.

5. SEAL ALL PENETRATIONS OF SOUND RATED PARTITIONS, FLOORS OR CEILING ASSEMBLIES, INCLUDING ELECTRICAL DEVICES, CABINETS AND OTHER ELEMENTS WITH APPROVED RESILIENT SEALANT. SEE AGENCY NOTES FOR PENETRATION REQUIREMENTS OF FIRE RATED AND SOUND RATED ASSEMBLIES.

6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING HIS EQUIPMENT, SUPPLIES, TOOLS ETC.

7. ALL EXPOSED NAILS TO BE GALVANIZED COMMON NAILS

GENERAL DEMOLITION AND RENOVATION NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE SCHOOL BUILDING AND UTILITY SYSTEMS IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

2. VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, ELECTRICAL, PNEUMATIC TUBE, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF EXISTING SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

3. REFER TO DOCUMENTS PREPARED BY CONSULTING ENGINEERS FOR INFORMATION REGARDING THE REMOVAL OF EXISTING SYSTEMS.

4. COMPLY WITH ANSI A10.6 "SAFETY REQUIREMENTS FOR DEMOLITION" PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.

5. NOT USED.

6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES AND SUBSTRUCTURES WITHIN THE LIMITS OF NEW WORK WHETHER SHOWN OR NOT ON THE PLAN AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR WILL BE HELD RESPONSIBLE AND SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES DAMAGED BY HIS OPERATION IN EXECUTION OF HIS WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL DAMAGES TO SAID UTILITIES AND SUBSTRUCTURES AS OUTLINES ABOVE.

7. PRIOR TO START OF ANY WORK, THE CONTRACTOR SHALL WALK THE SITE/ BUILDINGS WITH THE INSPECTOR AND LIST ANY EXISTING DAMAGE: ANY SUBSEQUENT DAMAGE SHALL BE ASSUMED TO HAVE BEEN CAUSED BY THE CONTRACTOR AND SHALL BE REPAIRED/ REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT AND TO NO COST TO THE DISTRICT.

8. THE ELEVATIONS INDICATED ON THE PLANS ARE FOR RELATIVE REFERENCES ONLY AND ARE APPROXIMATE. NO EXTRA COMPENSATION WILL BE GRANTED TO THE CONTRACTOR BECAUSE OF ANY DIFFERENCES AND/OR DISCREPANCIES WHICH MAY EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THOSE AS REPRESENTED ON THE PLANS.

9. FOR DISPOSITION OF EXISTING UTILITY LINES WITHIN THE LIMITS OF WORK, SEE THE ELECTRICAL AND MECHANICAL DRAWINGS AND THEIR CORRESPONDING SECTIONS OF THE SPECIFICATIONS.

10. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

11. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

12. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTOR'S RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

13. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT NO EXPENSE TO THE OWNER.

14. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTOR'S RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

15. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.

16. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS AND CONDITIONS.

17. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY.

18. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.

19. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.

20. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.

21. ALL DIMENSIONS SHOWN ARE TO FACE OF STUD AT NEW CONSTRUCTION AND FACE OF FINISH AT EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.

22. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF ARCHITECT UNLESS NOTED (+/-) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAY-OUT CONTROL UNLESS OTHERWISE DIRECTED BY ARCHITECT.

23. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR).

24. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

25. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.

26. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

27. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

28. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIEREMENTS AS SPECIFIED IN THE PROJECT MANUAL.

29. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY ARCHITECT.

30. TAKE ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL BUILDING PROCEDURES. NOTIFY OWNER IN ADVANCE OF HVAC, ELECTRICAL OR OTHER BUILDING SYSTEM SHUT-OFFS. MINIMIZE NOISE AND DUST GENERATION TO MAXIMUM EXTENT POSSIBLE. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.

31. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.

32. PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE BUILDING AND SITE TO ORIGINAL CONDITION OF ALL EXISTING PORTIONS OF THE BUILDING AND SITE AFFECTED BY CONTRACTORS WORK, TO THE SATISFACTION OF ARCHITECT AND OWNER.

33. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.

34. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS WITH ARCHITECT.

35. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.

36. TESTING SHALL BE DONE BY A QUALIFIED TESTING LAB AND PAID FOR BY THE OWNER (DISTRICT) IN COMPLIANCE WITH SEC. 4-335 OF TITLE 24 CCR PART I.

FIRE, LIFE, SAFETY NOTES

FIRE AND LIFE SAFETY NOTES

1. ALL INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 8, PART 2, TITLE 24, CCR. ALL FINISHES SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH U.B.C. STANDARD NO. 8-1, AND SHALL HAVE A CLASS I OR II FLAME SPREAD CLASSIFICATION PER TABLE 8-A .

2. ALL INSULATION MATERIALS INSTALLED WITHIN ROOF - CEILING ASSEMBLIES, ATTICS, OR WALLS SHALL HAVE A FLAME - SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH U.B.C. STANDARD NO. 8-1.

3. ALL RATED DOORS SHALL BE POSITIVE LATCHING.

4. ALL FIRE RATED DOOR ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.

5. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED OPENING ASSEMBLIES.

6. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF ASTM-E-814 AND UBC STANDARD 7-5 AND IN COMPLIANCE WITH THE PROJECT MANUAL.

7. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATIONS, INCLUDING CONDUITS AND PIPING, THROUGH FIRE RATED WALL, FLOOR AND CEILING ASSEMBLIES SHALL BE TIGHTLY AND SOLIDLY SEALED WITH FIRESTOPPING COMPLYING WITH UBC STANDARD 7-5 AND THE PROJECT MANUAL. WHERE ITEM PENETRATES AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL.

8. NOT USED.

9. NOT USED.

10. NOT USED.

11. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.

12. DO NOT BLOCK EXITS AT ANY TIME.

13. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF FIRE RATED WALLS, FLOORS, SHAFTS AND CEILINGS. COMBINATION FIRE/SMOKE DAMPERS SHALL BE USED AT DUCT PENETRATIONS OF RATED CORRIDOR WALLS.

14. FIRE DAMPER DETAILS SHOWN FOR REFERENCE ONLY. FIRE DAMPERS SHALL BE APPROVED AND LISTED BY STATE FIRE MARSHAL. INSTALL STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS AND LISTING APPROVAL. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.

15. DUCT INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.

16. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, STANDARDS AS DEFINED IN CHAPTER 35 CALIFORNIA BUILDING CODE AND APPLICABLE NFPA STANDARDS.

17. THE CONTRACTOR SHALL PROVIDE PROTECTION COMPLYING WITH TITLE 8, CCR, DURING WELDING. FURTHER PROTECTION SHALL BE PROVIDED TO ANY OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT.

POWER DRIVEN SHOT PINS

SHOT PINS MAY BE USED FOR SHEAR LOADS. THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THAN 100 POUNDS FOR MINOR LOADS SUCH AS ACOUSTICAL CEILINGS ,DUCT WORK, CONDUIT, ETC. ANY SHOT ANCHORS MUST HAVE ICC EVALUATION REPORTS/ICBO APPROVAL FOR THE TYPE OF CONCRETE USED ON THIS JOB. SHOT PINS MAY NOT BE USED IN CONCRETE CURBS.

THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICC EVALUATION REPORTS/ICBO APPROVED VALUES, WHICHEVER IS LESS. QUALIFICATION FOR USE FOR ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.

TESTING - THE OPERATOR ,TOOL AND FASTENER SHALL BE PREQULIFIED BY THE PROJECT INSPECTOR. THE PROJECT INSPECTOR SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATION. A TEST "PULL OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS IN THE SAME CATAGORY NOT PREVIOUSLT TESTED UNTIL TWENTY(20) CONSECUTIVE PASS, THAN RESUME THE INITIAL TESTING FREQUENCY.

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KEYNOTES

KEY PLAN

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. [illegible]
REN. 11-30-11
STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 3 5 9 6
AC FLS SSS
DATE 3-29-11

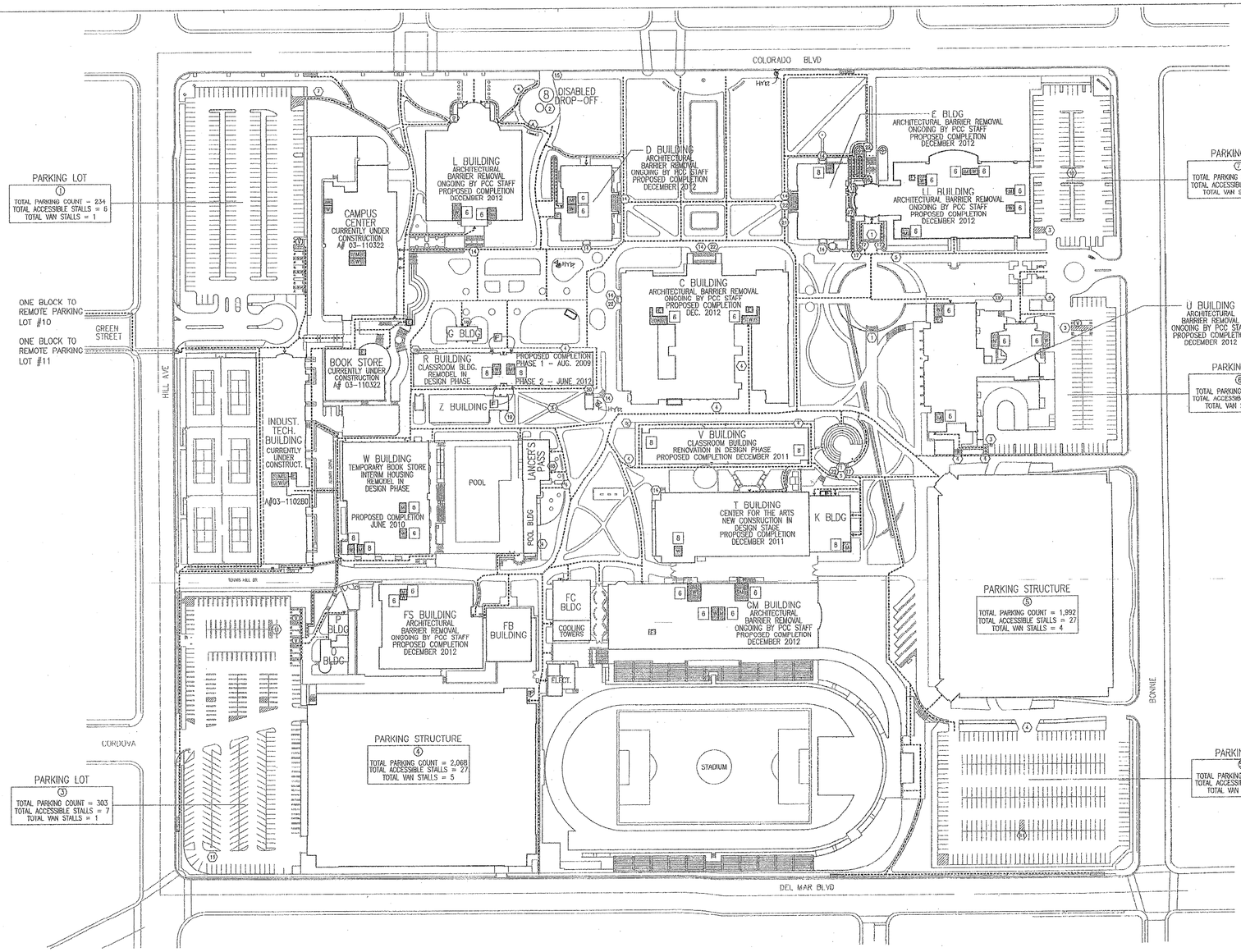
PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

FIRE AND LIFE SAFETY NOTES
GENERAL NOTES

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GG	2007-SH29-01
			CHECKED BY	© DATE
				3-29-2011
			DRAWING NO.	
			G0.2	
			SHEET	OF



LEGEND:

- ACCESSIBLE PATH OF TRAVEL BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE. 2% CROSS SLOPE MAX. UON.
- CROSS WALK
- ELEVATOR
- MENS RESTROOM
- WOMENS RESTROOM
- UNISEX RESTROOM
- (1) PARKING LOT OR STRUCTURE DESIGNATION – SEE ON-CAMPUS PARKING SUMMARY ON THIS SHEET
- BUS/SHUTTLE STOP
- (V) VAN ACCESSIBLE STALL
- ▲ ENTRY
- [1] BUILDING RELATED ITEMS
- ⟨2⟩ SITE RELATED ITEMS UNDER ITEM NUMBER 8
- 8 FIRE HYDRANT
- [F] WALL ENCASED FIRE HOSE CAB.

KEYNOTES–EXISTING NON–COMPLIANCE

⟨1⟩	STAIRS LACK CONTRASTING NOSING.	⟨15⟩	NON–COMPLIANT PARKING LOT IDENTIFICATION SIGNAGE
⟨2⟩	DROP–OFF AREA NON–COMPLIANT	⟨16⟩	OPENINGS IN GUARDRAILS EXCEED 4"
⟨3⟩	ACCESSIBLE PARKING STALLS NOT FULLY COMPLIANT.	⟨17⟩	LACK OF LEVEL LANDING & HANDRAIL EXTENSION
⟨4⟩	PORTIONS OF P.O.T. EXCESS 2% CROSS SLOPE.	⟨18⟩	LANDING IN FRONT OF DOOR EXCEEDS 2%
⟨5⟩	PORTIONS OF P.O.T. EXCESS 5% SLOPE IN DIRECTION OF TRAVEL AND DO NOT COMPLY WITH RAMP REQUIREMENTS.	⟨19⟩	NON–COMPLIANT RAMP
[6]	TOILET ROOM NOT FULLY COMPLIANT. SOME ACCESSORIES ARE MOUNTED TOO HIGH; ACCESSORIES EXCEED 4" FROM WALL; CENTERLINE OF ACCESSIBLE TOILET 18" TO 21" FROM WALL	⟨20⟩	NON–COMPLIANT DRINKING FOUNTAIN
⟨7⟩	UNEVEN CONCRETE PAVING	⟨21⟩	UNEVEN ASPHALT PAVING
[8]	TOILET ROOM NOT COMPLIANT	⟨22⟩	LACK OF DIRECTIONAL SIGNAGE
⟨9⟩	LACK OF/NON–COMPLIANT TOW–AWAY SIGNAGE AT PARKING LOTS.	⟨23⟩	
⟨10⟩	LACK OF DETECTABLE WARNINGS WHERE P.O.T. CROSSES OR IS ADJACENT TO VEHICULAR ROUTE	⟨24⟩	
⟨11⟩	LACK OF ACCESSIBLE PATH OF TRAVEL TO/FROM PARKING TICKET MACHINE	⟨25⟩	
⟨12⟩	–	⟨26⟩	
⟨13⟩	–	⟨27⟩	
⟨14⟩	CONCRETE STEPS AND RAILING NOT COMPLIANT	⟨28⟩	

SUMMARY OF CAMPUS PARKING

	PARKING LOT OR STRUCTURE	TYPE	TOTAL PARKING COUNT	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS REQUIRED (VAN)	ACCESSIBLE STALLS PROVIDED (STANDARD)*	ACCESSIBLE STALLS PROVIDED (VAN)*
①	PARKING LOT (A@03-110322)	STUDENT/STAFF	234	6	1	6	1
②	PARKING LOT (BEING ELIMINATED UNDER A@03-110322 AND A@03-110280	N/A	--	--	--	--	--
③	PARKING LOT (A@03-110280)	STUDENT/VISITOR	303	7	1	7	1
④	PARKING STRUCTURE	STUDENT	2068	35	6	27	5
⑤	PARKING STRUCTURE	STUDENT	1992	26	4	27	4
⑤A	PARKING LOT	STUDENT	285	6	1	0	0
⑥	PARKING LOT	STAFF	99	3	1	5	2
⑦	PARKING LOT	VISITOR	104	4	1	2	0
⑧	DISABLED PERSONS DROP–OFF AREA	N/A	0	0	0	0	0

*THE ABOVE PARKING TABULATION INCLUDES EXISTING STALLS THAT ARE CURRENTLY DESIGNATED AS ACCESSIBLE. HOWEVER, NOT ALL EXISTING ACCESSIBLE STALLS, AS BUILT, COMPLY WITH CURRENT REQUIREMENTS.

DISCLAIMER

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Consultant:

PASADENA CITY COLLEGE

Campus Wide Acessibility Compliance Accessment

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APPL 03-- reg. 19-C5
AC.____ FLS.____ SS.____
DATE____

Issue/Revision Date

License Stamp:
REGISTERED PROFESSIONAL ENGINEER GREGORY SUH NO. C12024 RENEWAL 10-31-09 STATE OF CALIFORNIA

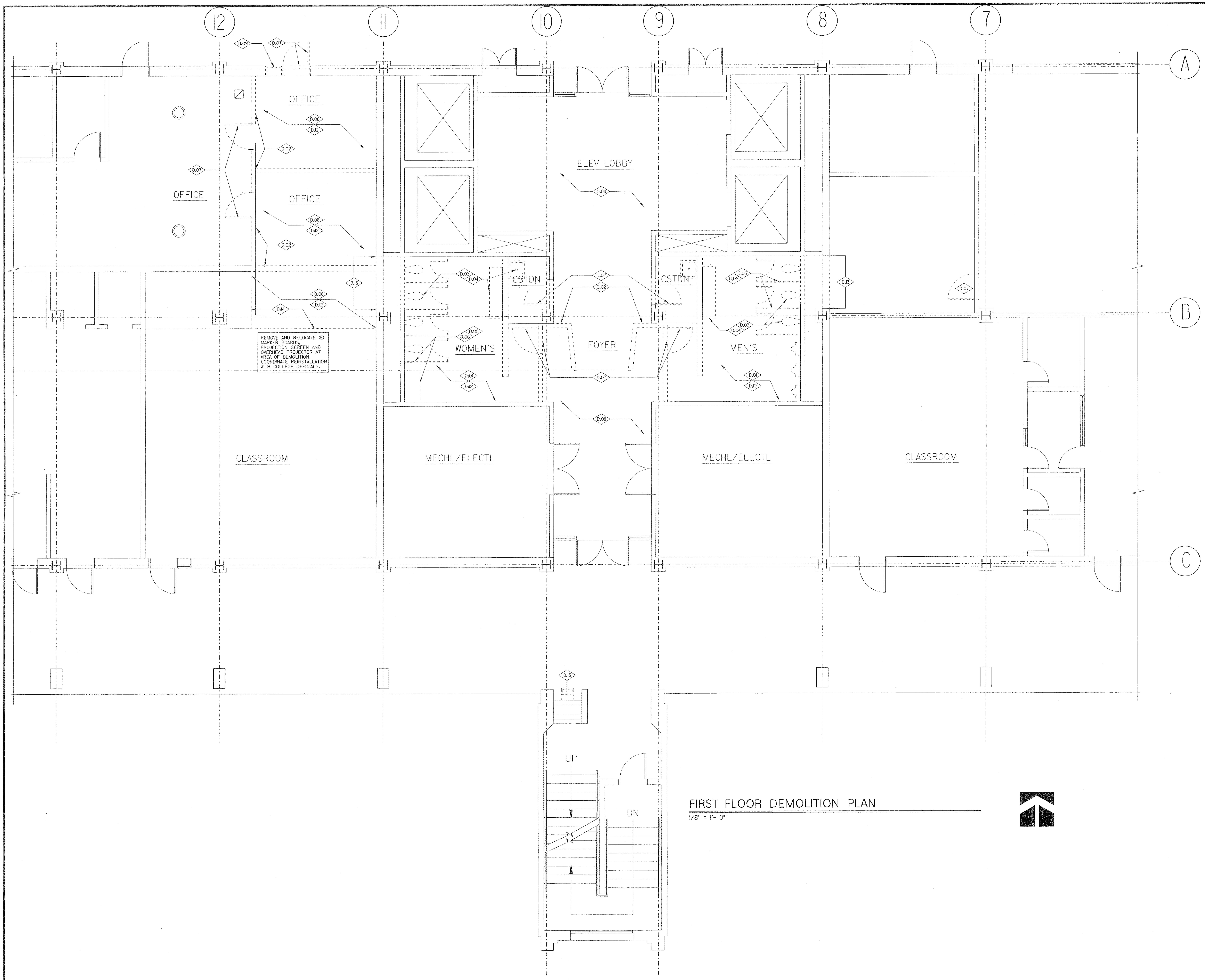
Sheet Title:
EXISTING ACCESSIBILITY SITE PLAN

APPROVED DIV. OF THE STATE ARCHITECT LOS ANGELES BASIN REGIONAL OFFICE
AC AK FLS SS
APPL NO. ____ DATE 1/27/09
A. KATSEF

MAIN CAMPUS

Project Number	07018.00
Printed	12.12.08
Drawn By	RC
Reviewed By	GS/RC

Sheet Number:
EXHIBIT B



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KEYNOTES

- D.01 REMOVE TERRAZZO FLOOR.
- D.02 REMOVE WALLS ASSEMBLY.
- D.03 REMOVE PLUMBING FIXTURES AND FITTINGS.
- D.04 REMOVE/CAP PLUMBING PIPING AS REQUIRED.
- D.05 REMOVE TOILET ROOM ACCESSORIES.
- D.06 REMOVE TOILET ROOM PARTITIONS AND SHELVES.
- D.07 REMOVE DOOR, FRAME AND THRESHOLD.
- D.08 REMOVE FLOOR FINISHES.
- D.09 REMOVE WINDOW FRAME AND GLAZING.
- D.12 REMOVE/CAP ELECTRICAL CONDUIT AND FITTINGS AS REQUIRED.
- D.13 SAW CUT (E) CONC WALL. SEE STRUCTURAL DRAWING S1.
- D.14 PARTIALLY REMOVE (E) PLATFORM. TERMINATE AGAINST NEW WALL.
- D.15 REMOVE DRINKING FOUNTAIN.

KEY PLAN

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. 12955
REN. 11-30-11
STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 3 5 9 6
AC ___ FLS ___ SS ___
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

PARTIAL FIRST FLOOR
DEMOLITION PLAN

NO.	DATE	ISSUE

DRAWN BY: OC/GG
PROJECT NO.: 2007-SH29-01
CHECKED BY:
© DATE: 3-29-2011
DRAWING NO.: **D2.1**
SHEET ___ OF ___

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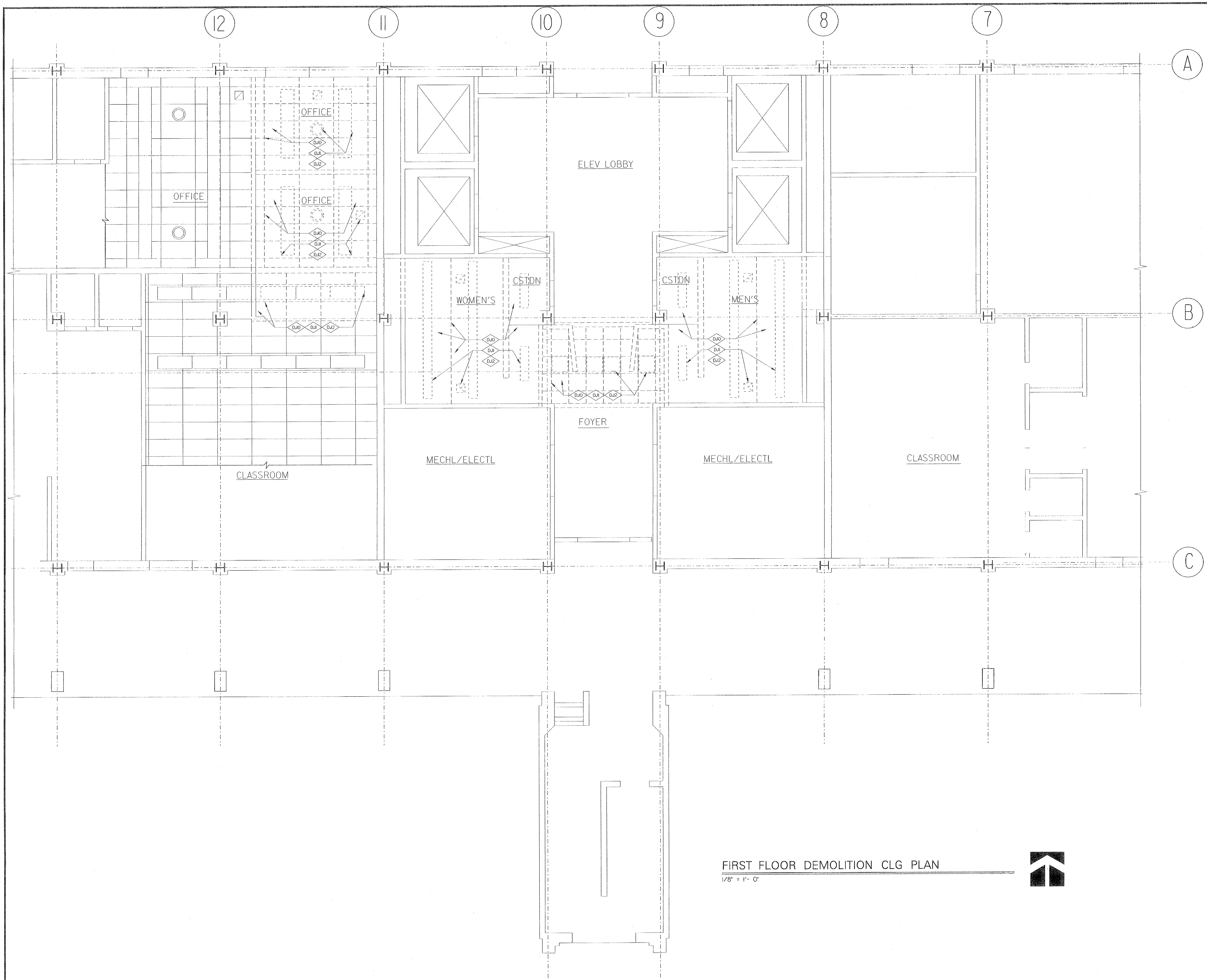

FIRST FLOOR DEMOLITION CLG PLAN

1/8" = 1'- 0"

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KEYNOTES

- D.10 REMOVE CEILING FRAME AND FINISHES.
- D.11 REMOVE LIGHT FIXTURES & HVAC ACCESSORIES.
- D.12 REMOVE/CAP ELECTRICAL CONDUIT AND FITTINGS AS REQUIRED.

KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. 12955 REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP OF THE STATE ARCHITECT
APP03 1 1 1 3 5 9 6
AC W FLS SU SS CC
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

PARTIAL FIRST FLOOR
DEMOLITION CEILING PLAN

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GC	2007-SH29-01
			CHECKED BY	© DATE
				3-29-2011
			DRAWING NO.	
				D4.1
			SHEET	OF

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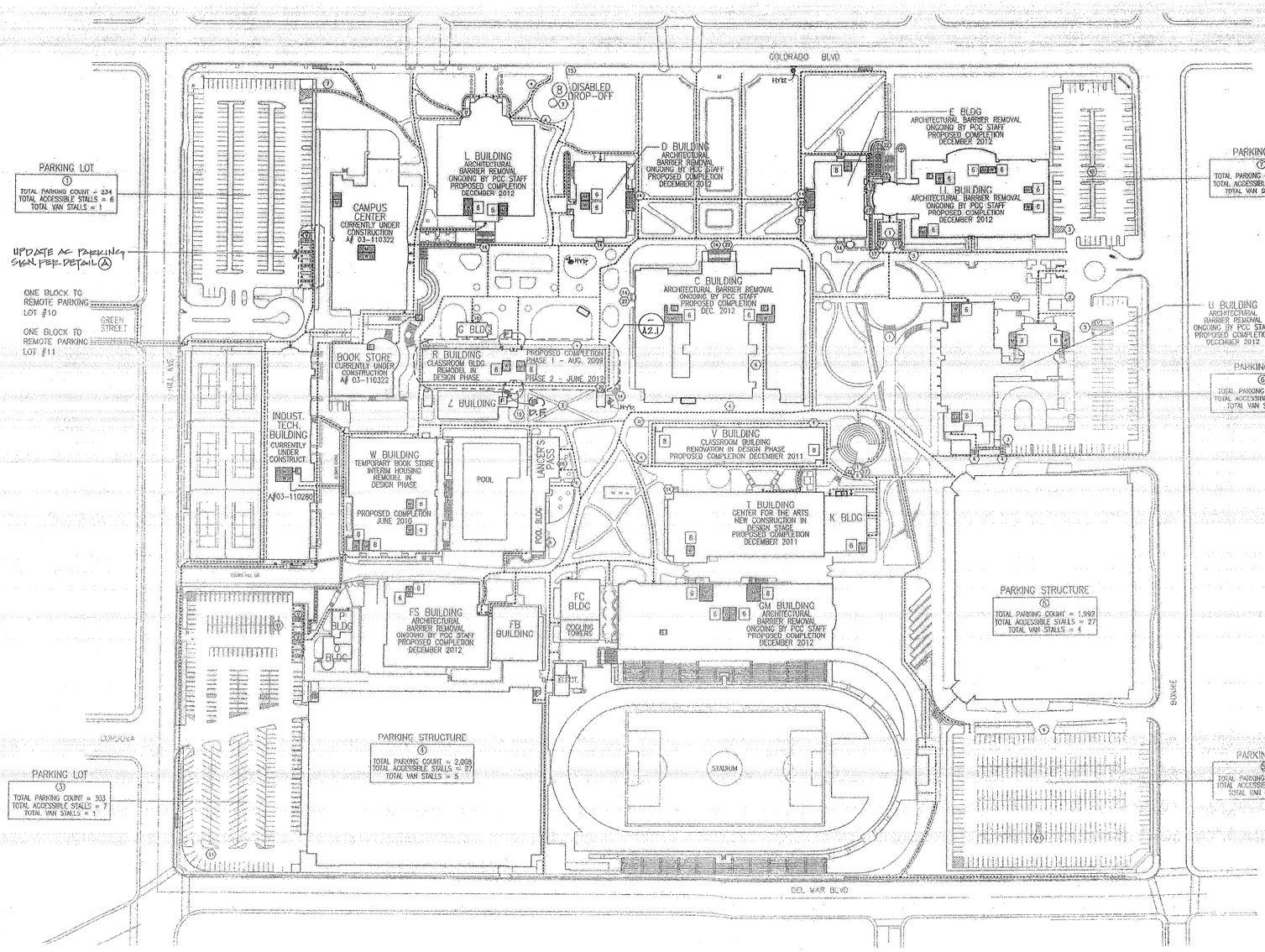
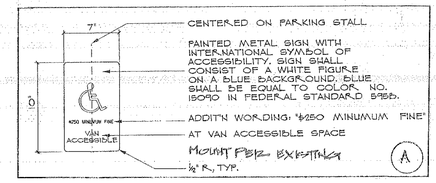


LEGEND:

- ACCESSIBLE PATH OF TRAVEL. BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE. 2% CROSS SLOPE MAX. UON.
- CROSS WALK
- ELEVATOR
- M MENS RESTROOM
- W WOMENS RESTROOM
- U UNISEX RESTROOM
- (1) PARKING LOT OR STRUCTURE DESIGNATION – SEE ON-CAMPUS PARKING SUMMARY ON THIS SHEET
- BUS/SHUTTLE STOP
- (V) VAN ACCESSIBLE STALL
- ENTRY
- [1] BUILDING RELATED ITEMS
- (2) SITE RELATED ITEMS UNDER ITEM NUMBER 8
- 8 FIRE HYDRANT
- F WALL MOUNTED FIRE HOSE CAB.



KEYNOTES–EXISTING NON–COMPLIANCE

1	STAIRS LACK CONTRASTING NOSING.	15	NON–COMPLIANT PARKING LOT IDENTIFICATION SIGNAGE
2	DROP–OFF AREA NON–COMPLIANT	16	OPENINGS IN GUARDRAILS EXCEED 4"
3	ACCESSIBLE PARKING STALLS NOT FULLY COMPLIANT.	17	LACK OF LEVEL LANDING & HANDRAIL EXTENSION
4	PORTIONS OF P.O.T. EXCESS 2% CROSS SLOPE.	18	LANDING IN FRONT OF DOOR EXCEEDS 2%
5	PORTIONS OF P.O.T. EXCESS 5% SLOPE IN DIRECTION OF TRAVEL AND DO NOT COMPLY WITH RAMP REQUIREMENTS.	19	NON–COMPLIANT RAMP
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7	UNEVEN CONCRETE PAVING	21	UNEVEN ASPHALT PAVING
8	TOILET ROOM NOT COMPLIANT	22	LACK OF DIRECTIONAL SIGNAGE
9	LACK OF/NON–COMPLIANT TOW–AWAY SIGNAGE AT PARKING LOTS.	23	
10	LACK OF DETECTABLE WARNINGS WHERE P.O.T. CROSSES OR IS ADJACENT TO VEHICULAR ROUTE	24	
11	LACK OF ACCESSIBLE PATH OF TRAVEL TO/FROM PARKING TICKET MACHINE	25	
12	–	26	
13	–	27	
14	CONCRETE STEPS AND RAILING NOT COMPLIANT	28	

SUMMARY OF CAMPUS PARKING

	PARKING LOT OR STRUCTURE	TYPE	TOTAL PARKING COUNT	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS REQUIRED (VAN)	ACCESSIBLE STALLS PROVIDED (STANDARD)*	ACCESSIBLE STALLS PROVIDED (VAN)*
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②	PARKING LOT (BEING ELIMINATED UNDER A#03–110322 AND A#03–110280	N/A	–	–	–	–	–
③	PARKING LOT (A#03–110280)	STUDENT/VISITOR	303	7	1	7	1
④	PARKING STRUCTURE	STUDENT	2068	25	5	27	5
⑤	PARKING STRUCTURE	STUDENT	1992	25	4	27	4
⑤a	PARKING LOT	STUDENT	285	8	1	0	0
⑥	PARKING LOT	STAFF	99	3	1	5	2
⑦	PARKING LOT	VISITOR	104	4	1	2	0
⑧	DISABLED PERSONS DROP–OFF AREA	N/A	0	0	0	0	0

*THE ABOVE PARKING TABULATION INCLUDES EXISTING STALLS THAT ARE CURRENTLY DESIGNATED AS ACCESSIBLE. HOWEVER, NOT ALL EXISTING ACCESSIBLE STALLS, AS BUILT, COMPLY WITH CURRENT REQUIREMENTS.

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KEYNOTES

KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. 12596 REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP# 113596
AC DV FLS SU SS LL
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

OVERALL SITE PLAN

NO.	DATE	ISSUE

DRAWN BY OC/GG
CHECKED BY
PROJECT NO. 2007-SH29-01
DATE 3-29-2011
DRAWING NO. **A1.1**
SHEET OF

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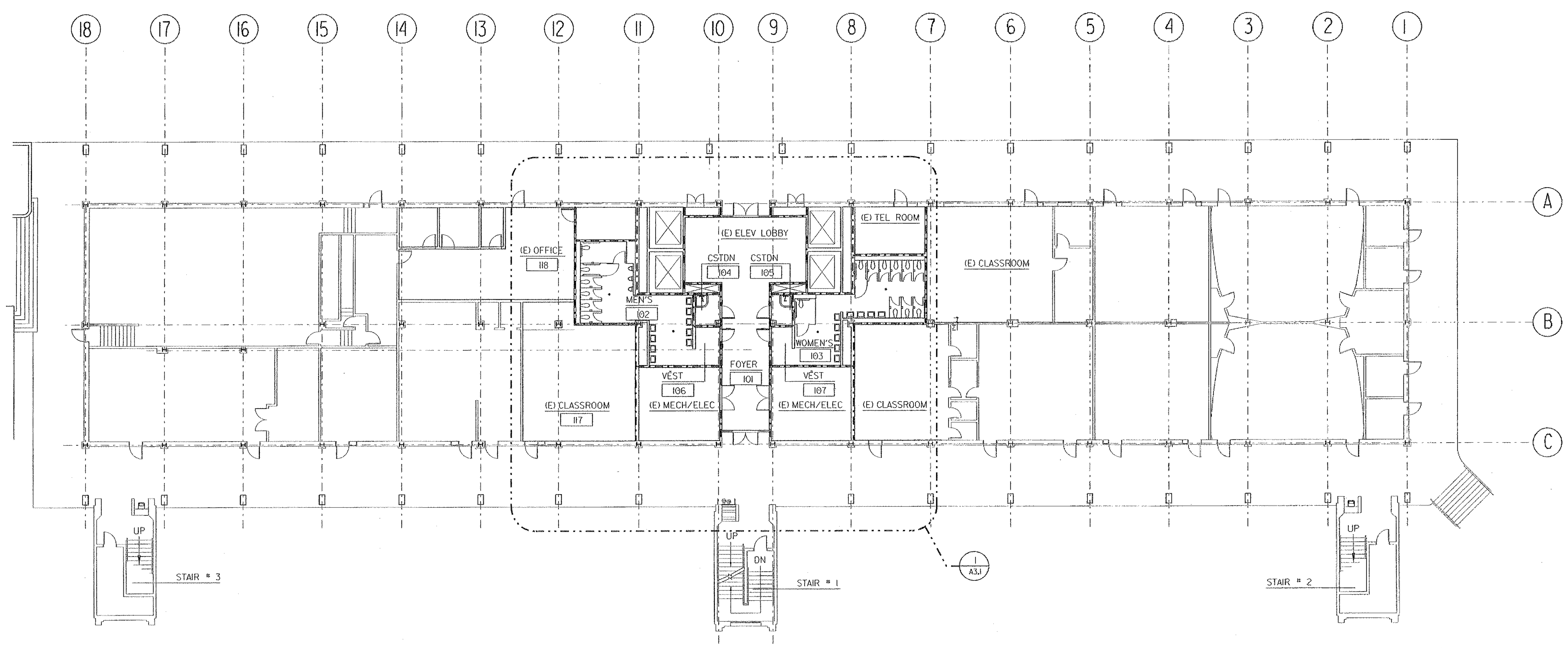
FILE: ##PATH##



FIRST FLOOR PLAN

1/16" = 1'- 0"

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KEYNOTES

KEY PLAN

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. C29580
REN. 11-30-11
STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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AC W FLS SU SS le
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

OVERALL
FIRST FLOOR PLAN

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/CG	2007-SH29-01
			CHECKED BY	© DATE
				3-29-2011

DRAWING NO.

A2.1

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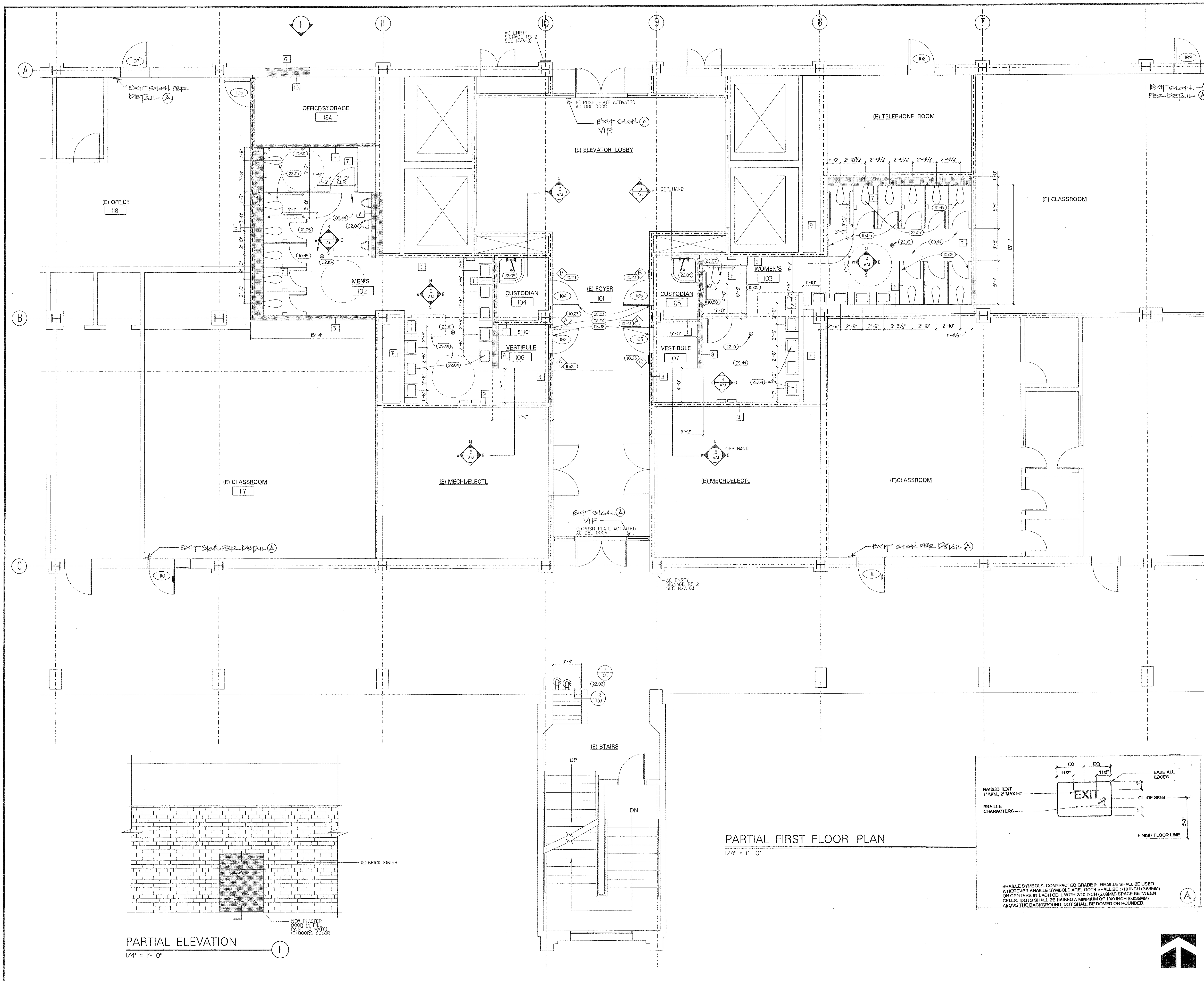

PARTIAL FIRST FLOOR PLAN
1/4" = 1'- 0"

PARTIAL ELEVATION
1/4" = 1'- 0"

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KEYNOTES

CONSTRUCTION KEYNOTES

8. OPENINGS
- (08.03) STEEL DOOR FRAME - 08 11 00
- (08.04) STEEL DOOR - 08 14 00
- (08.16) WALL ACCESS PANEL - 08 31 13
- (08.38) METAL THRESHOLD - 08 71 00

9. FINISHES
- (09.11) PORTLAND CEMENT PLASTER - 09 20 00
- (09.44) CERAMIC TILE - 09 30 13
- (09.74) RESILIENT BASE - 09 65 00
- (09.90) PAINT FINISH - INTERIOR - 09 91 00

10. SPECIALTIES
- (10.05) METAL TOILET COMPARTMENTS - 10 21 13
- (10.23) ROOM IDENTIFICATION SIGNAGE - RS - 10 14 00
- (10.42) SOAP DISPENSER - 10 28 00
- (10.45) TOILET PAPER HOLDER - 10 28 00
- (10.46) SEAT COVER DISPENSER - 10 28 00
- (10.48) SANITARY PRODUCTS WASTE RECEPTACLE - 10 28 00
- (10.50) GRAB BARS - 10 28 00
- (10.57) CLOTHES/TOWEL HOOK - 10 28 00
- (10.58) MIRROR - 10 28 00
- (10.60) MOP RACK - 10 28 00
- (10.64) ELECTRIC HAND DRYER - 10 28 00
- (10.67) TRAP, PIPE WRAP

22. PLUMBING
- (22.04) LAVATORY
- (22.06) URINAL
- (22.07) TOILET
- (22.09) MOP SINK
- (22.10) FLOOR DRAIN

LEGEND

- WALL TYPE DETAIL, SEE A9.1
- (A) TOILET ROOM DOOR SYMBOLS -RS-1 (9,14 / A8.1)
- (B) ROOM ID SIGNS - RS-2 (9 / A8.1)
- (C) TOILET ROOM SIGNS - RS-3 (9,11,12 / A8.1)
- NEW, NON-RATED METAL STUD WALL
- NEW, FIRE RATED METAL STUD WALL
- EXISTING FIRE RATED WALL
- EXISTING WALL

KEY PLAN

SEAL — LICENSED ARCHITECT JAY R. TITTLE NO. C29[illegible] REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW
IDENTIFICATION STAMP OF THE STATE ARCHITECT
APP03 1 113596
AC [signature] FLS SU SS [initials]
DATE 3-29-2011

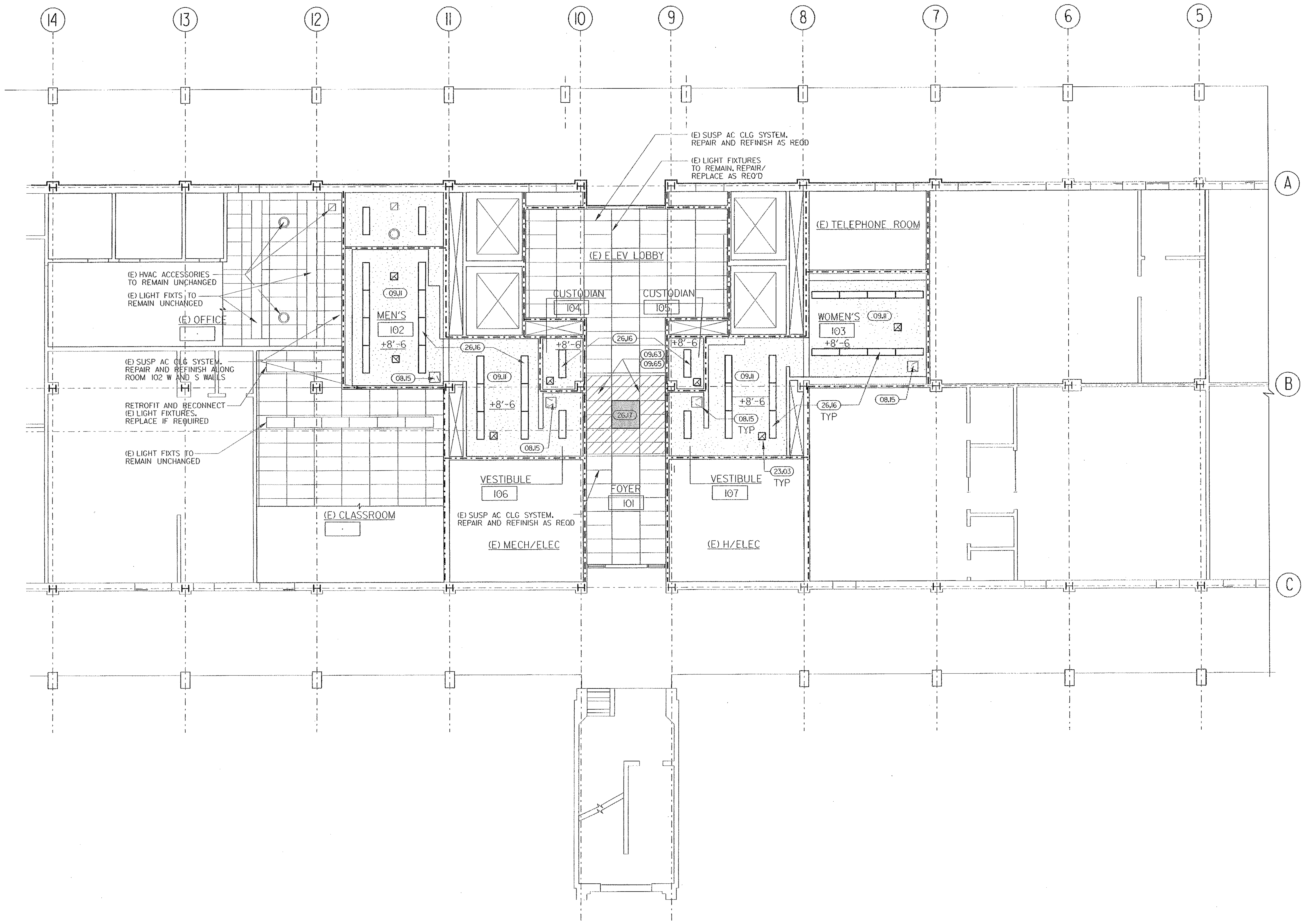
PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
PARTIAL 1ST FLOOR PLAN

NO.	DATE	ISSUE

DRAWN BY: OC/OG
PROJECT NO.: 2007-SH29-01
CHECKED BY:
(C) DATE: 3-29-2011
DRAWING NO.: **A3.1**
SHEET OF

USERNAME: ggalindo
FILE: K:\Pasadena_CC\2007



REFLECTED CEILING PLAN

1/8" = 1'- 0"

NTD ARCHITECTURE

955 Overland Court, Suite 100
San Dimas, California 91773
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KEYNOTES

CONSTRUCTION KEYNOTES

8. OPENINGS
(08.15) CEILING ACCESS PANEL - 08 3113

9. FINISHES
(09.11) PORTLAND CEMENT PLASTER - 09 20 00
(09.63) ACOUSTICAL CEILING PANEL - 09 5100
(09.65) SUSPENDED ACOUSTICAL CEILING GRID - 09 5100

26. ELECTRICAL
(26.16) 1'x4' SURFACE MTD FLOURESCENT LIGHT FIXTURE
(26.17) 4'x4' RECESSED FLUORESCENT LIGHT FIXTURE- MATCH (E)

CEILING LEGEND

- CEMENT PLASTER CEILING (16/A4.2)
- 2' X 4' ACOUSTICAL PANEL ON "T"-GRID SYSTEM (6,7/A4.2)
- 1 x 4 SURFACE-MOUNTED LIGHT FIXTURE
- (E) SURFACE MOUNTED 2 x 4 LIGHT FIXTURE
- (N) RECESSED 4 x 4 LIGHT FIXTURE
- (E) RECESSED 4 x 4 LIGHT FIXTURE
- SUPPLY AIR REGISTER
- (E) SUPPLY AIR REGISTER
- RETURN AIR GRILLE
- (E) RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- CEILING ACCESS PANEL
- CEILING AREA TO BE REPAIRED AND REFINISHED.

KEY PLAN

SEAL

LICENSED ARCHITECT
JAY R. TITTLE
NO. C29961
REN. 11-30-11
STATE OF CALIFORNIA

AGENCY REVIEW

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DIV. OF THE STATE ARCHITECT

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DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

PARTIAL FIRST FLOOR
REFLECTED CEILING PLAN

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GG	2007-SH29-01
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				3-29-2011
			DRAWING NO.	
			A4.1	
			SHEET	OF

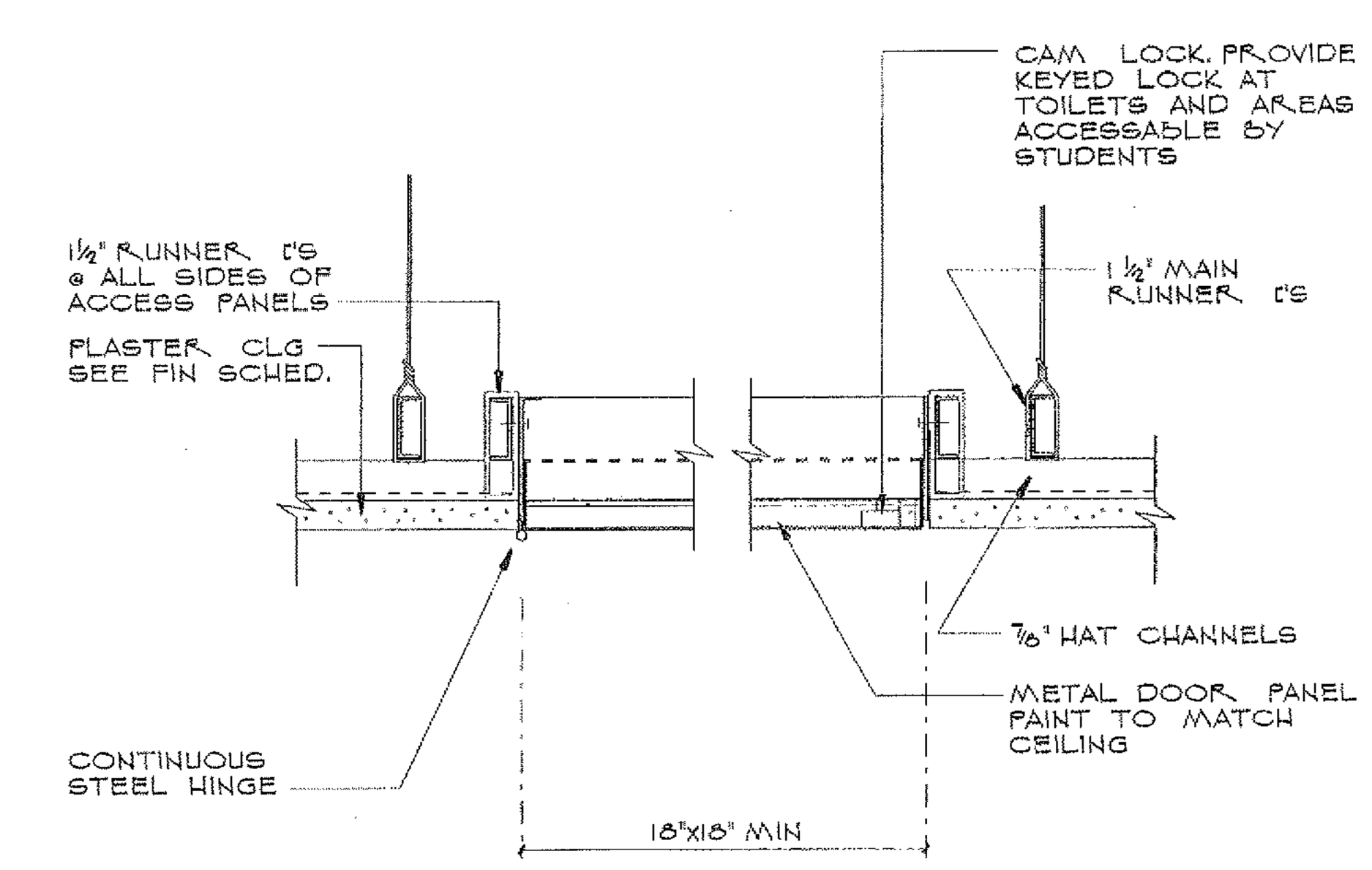
USERNAME: ggalindo
FILE: K:\Pasadena_CC\2007-SH29-00\...

ACOUSTICAL PANEL CEILING

1. PROVIDE 12 GAGE (MIN.) HANGER WIRES AT 4'-0" MAX. EACH WAY. HANGER WIRES SHALL BE ATTACHED TO MAIN RUNNERS.
2. PROVIDE 12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN RUNNERS AND CROSS RUNNERS WITHIN EIGHT INCHES (8") OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHALL BE FREE, AND A MINIMUM OF 3/4" CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) 12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FORM EACH OTHER (SEE DETAIL 2)
   A. SPACING OF BRACING ASSEMBLIES SHALL BE NOT MORE THAN 12' BY 12' ON CENTER.
   B. PROVIDE BRACING ASSEMBLIES AT 6'-0" MAX. FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT TO BE PERMITTED WITHOUT SPECIAL DSA APPROVAL.
   C. SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
7. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN #10 or # 12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF $1\frac{1}{2}$". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
   NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE $1\frac{1}{2}$" REQUIREMENT, BUT THE NUMBER OF TURNS SHALL BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST SIX INCHES (6") FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING $\frac{3}{4}$" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
9. WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE CBC, SECTION 1923A.3.5
   NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE SPECIAL DSA APPROVAL WHEN USED IN PRESTRESSED CONCRETE.
10. ATTACH ALL FIXTURES AND CEILING MOUNTED AIR TERMINALS OR SERVICES, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.
11. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES, WEIGHING LESS THAN 56 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GAGE SLACK WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
    ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT 12 GAGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.
    THE FOUR (4) TAUT 12 GAGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
12. ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT 12 GAGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL AND TO THE STRUCTURE ABOVE.
13. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.
14. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY AS SHOWN ON DETAIL 2, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCES.

GENERAL CEILING NOTES (9)
NO SCALE

7sh29-09.14



ACCESS PANEL (5)
3" = 1'-0" NON RATED

7sh29-09.09
COMPRESSION POST CALCULATION:

SINCE THE MAXIMUM SLENDERNESS RATIO (KL/R) IS 200, THE RESULTING EULER BUCKLING STRESS, DIVIDED BY A FACTOR OF SAFETY OF 23/12 IS:
Fa=(12 pi sq.)29e6(1.33)) / (23(200 sq.))=4970 psi

THE FOLLOWING CALCULATIONS ARE BASED ON A DOWN Dx26 CEILING, THE MAXIMUM VERTICAL FORCE IS 274#

USE 1/2" DIA EMT FOR MAXIMUM LENGTH 4'-0"
A=0.088 in. sq. R=0.238 in. L-MAX=200(0.238)=47.6#
Fa=274#/0.088 in. sq.= 3114 psi

USE 3/4" DIA EMT FOR MAXIMUM LENGTH 5'-2"
A=0.134 in. sq. R=0.309 in. L-MAX=200(0.309)=61.8#
Fa=274#/0.134 in. sq.=2045 psi

USE 1" DIA EMT FOR MAXIMUM LENGTH 6'-8"
A=0.198 in. sq. R=0.392 in. L-MAX=200(0.392)=78.4#
Fa=274#/0.198 in. sq.=1384 psi

USE 1 1/2" DIA EMT FOR MAXIMUM LENGTH 8'-6"
A=0.295 in. sq. R=0.511 in L-MAX=200(0.511)=102.2#
Fa=274#/0.295 in. sq.=929 psi

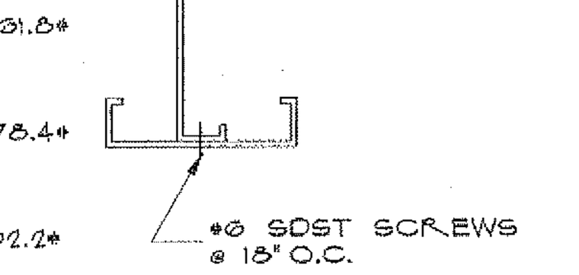
USE 1 3/4" DIA EMT FOR MAXIMUM LENGTH 9'-11"
A=0.342 in. sq. R=0.593 in L-MAX=200(0.593)=118.6#
Fa=274#/0.342 in. sq.=801 psi

USE 1 5/8"X25 GA SS METAL STUDS FOR MAXIMUM LENGTH 7'-2"
A=0.078 in. sq. Rx=0.430 in. L-MAX=200(0.430)=86.0#
Fa=274#/0.078 in. sq=3513 psi

USE DBL 1 5/8"X25 GA SS METAL STUD (SEE DETAIL ABOVE) FOR MAX. LENGTH 16'-10"
A=0.078 in. sq. Rx=0.686 in. L-MAX=200(0.686)=137.0#
Fa=274#/0.078 in. sq.=3513 psi

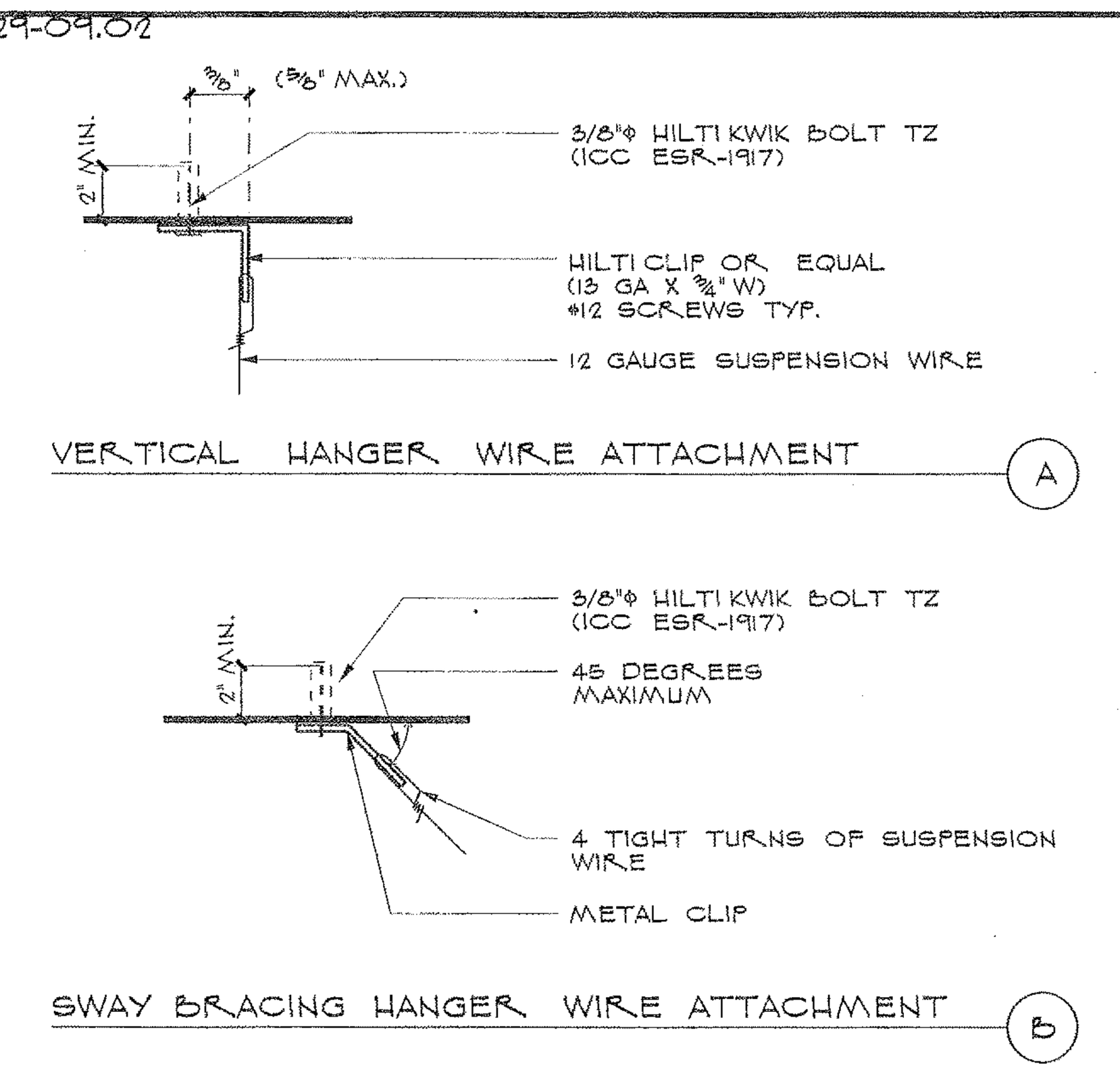
USE DBL 2 1/2"X25 GA SS METAL STUD (SEE DETAIL ABOVE) MAX. LENGTH 22'-8"
A=0.094 in. sq. R=1.011 in. L-MAX=200(1.011)=202.0#
Fa=274#/0.094 in. sq.=2915 psi

USE DBL 3 1/2"X25 GA SS METAL STUD (SEE DETAIL ABOVE) MAX. LENGTH 22'-8"
A=0.113 in. sq. R=1.359 in. L-MAX=200(1.359)=272.0#
Fa=274#/0.113 in. sq.=2425 psi



COMPRESSION POST SIZES (1)
3" = 1'-0"

7sh29-09.02



HANGER WIRE ATTACHMENT (14)
HALF SIZE

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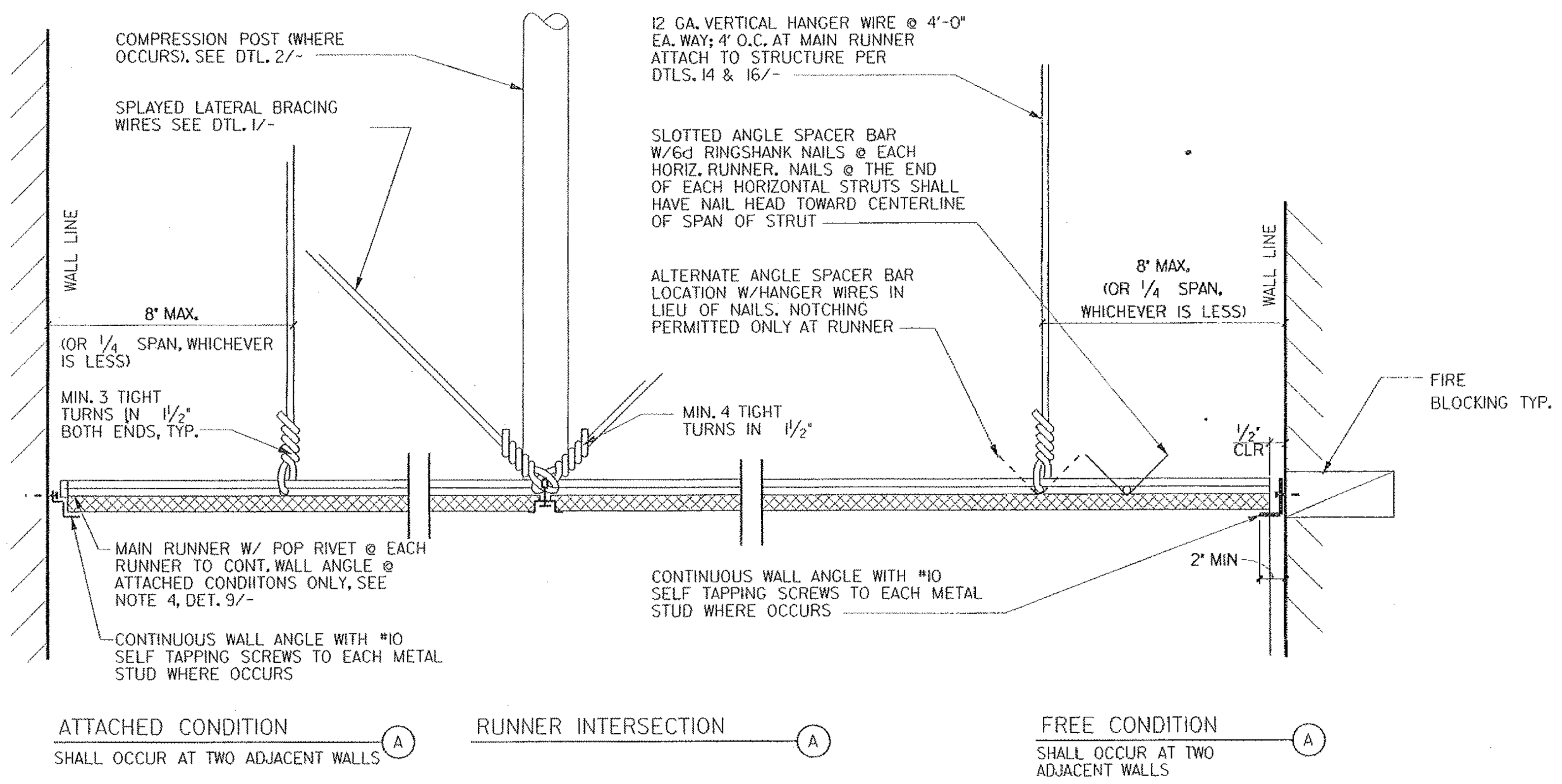

ACP CEILING SYSTEM BRACING (6)
3" = 1'-0"

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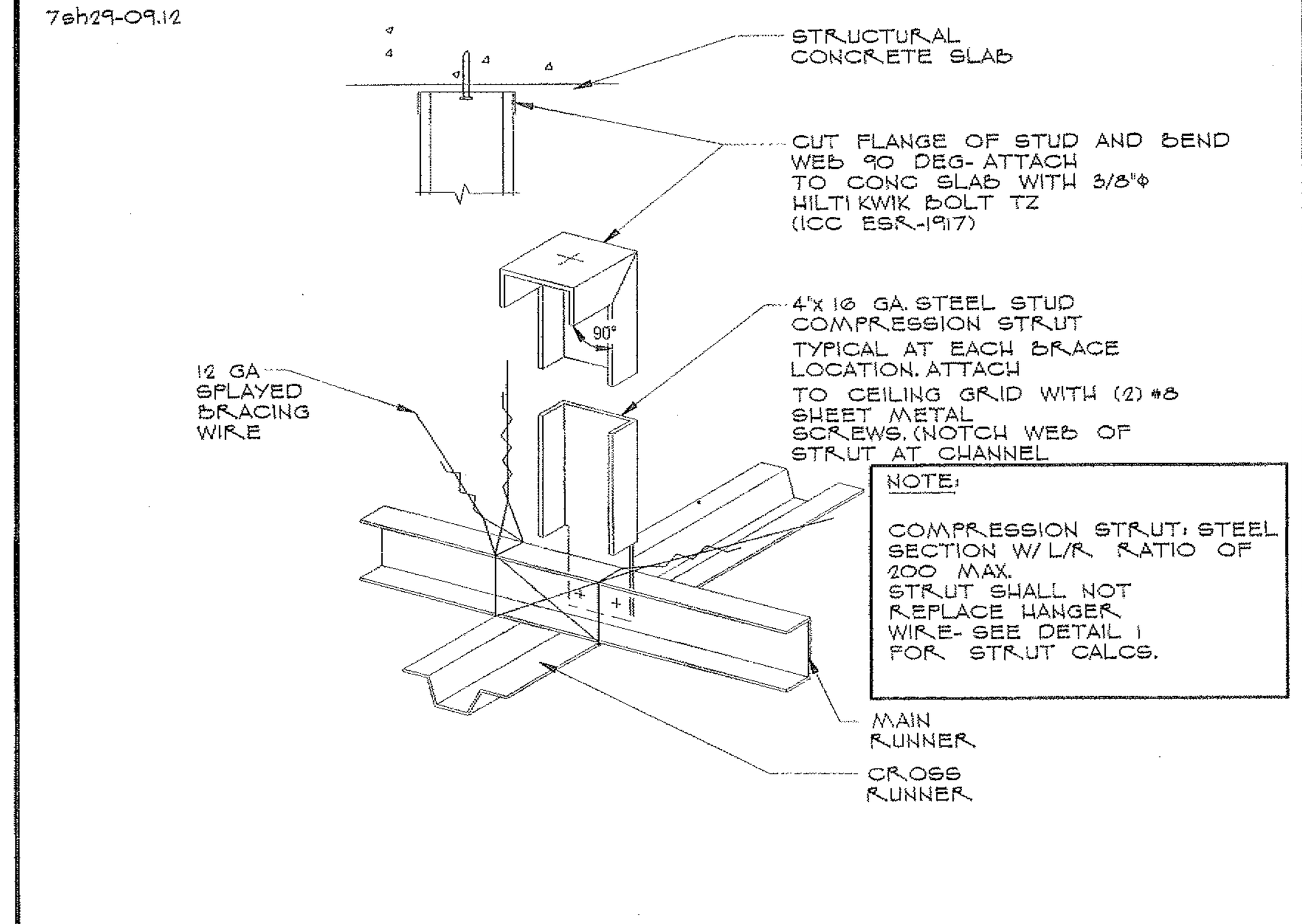

VERT COMPRESSION STRUT (2)
3" = 1'-0"

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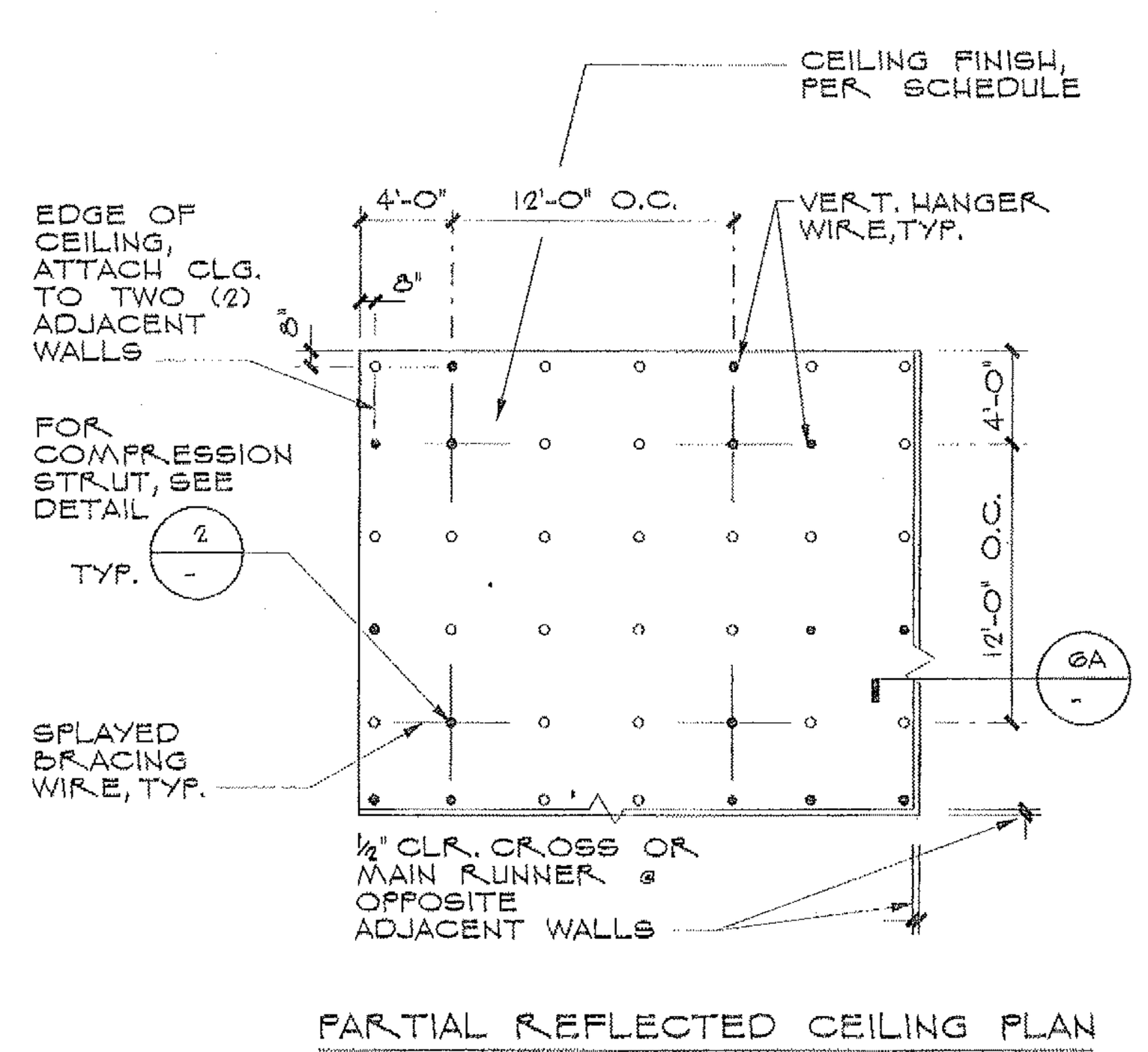
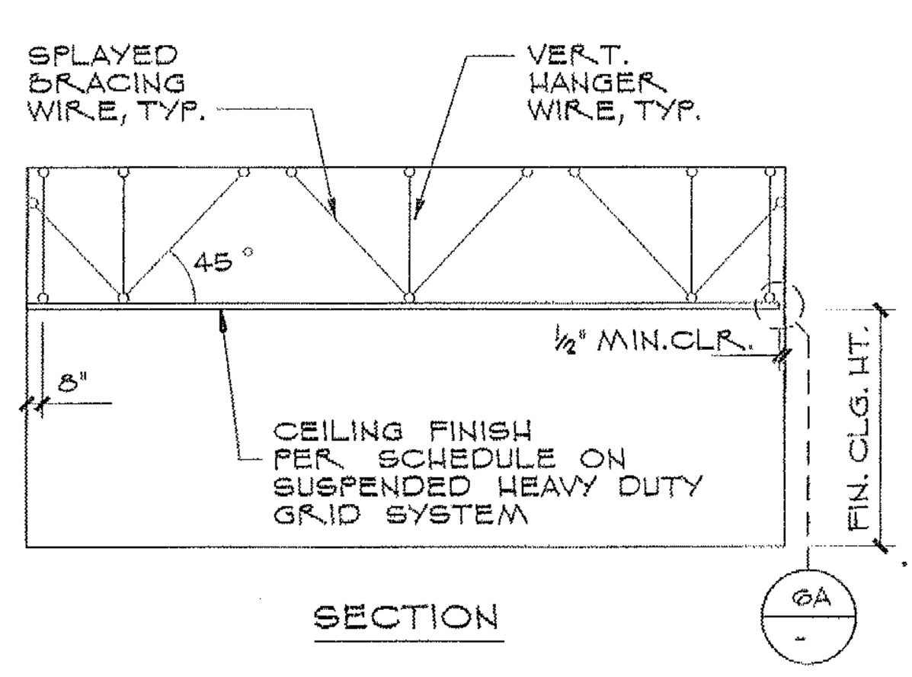


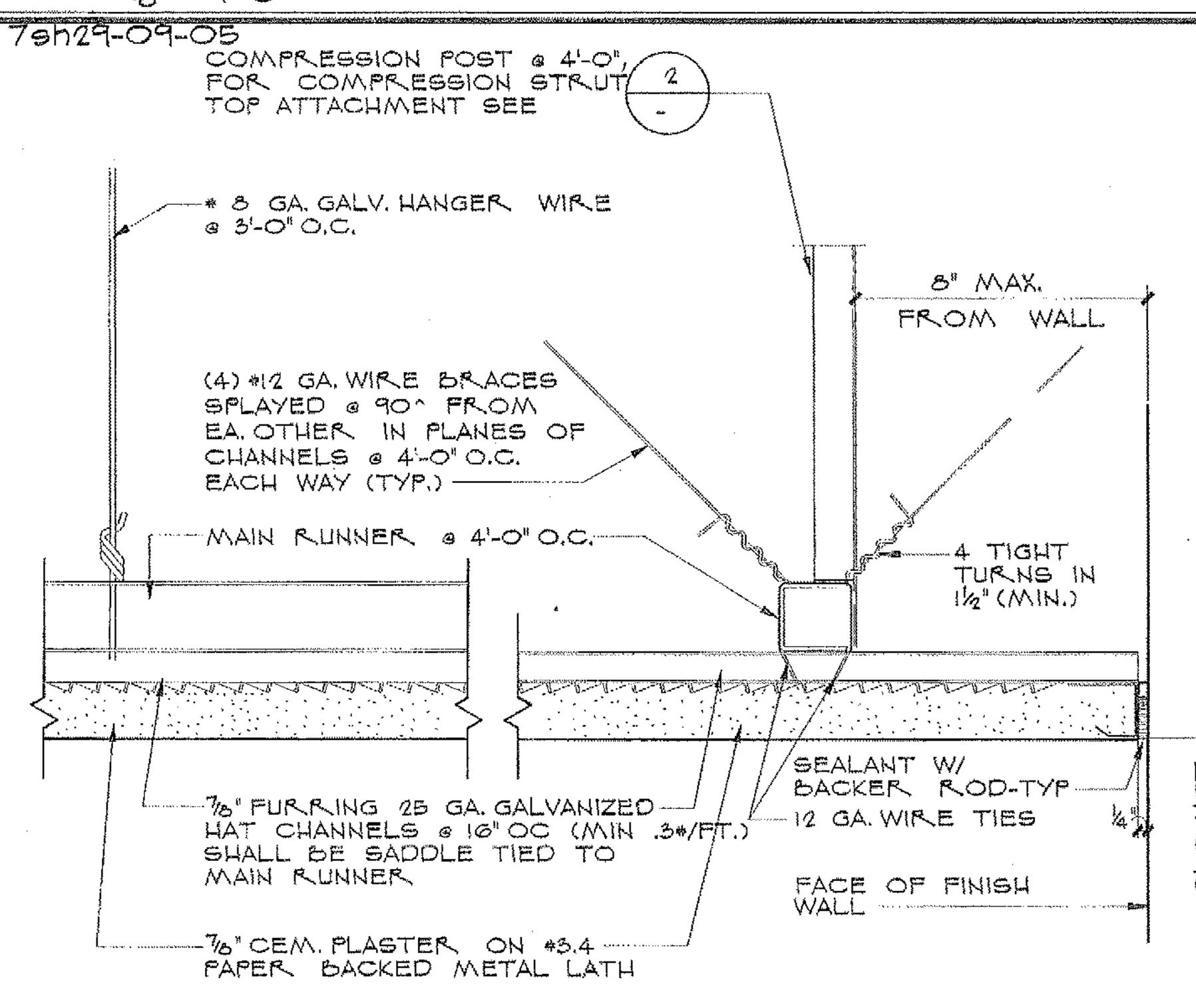


1. GYPSUM BOARD CEILINGS SHALL NOT SUPPORT MATERIALS OR BUILDING COMPONENTS OTHER THAN GRILLS, LIGHT FIXTURES, SMALL ELECTRICAL CONDUITS, SMALL DUCTS AND THE LIKE. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHALL BE APPLIED TO CROSS-FURRING.
2. MAIN RUNNERS SHALL BE $1\frac{1}{2}$" HOT ROLLED CHANNELS WEIGHING 1.12 LBS/FT. MIN. AT 48" O.C.
3. CROSS-FURRING SHALL BE $\frac{7}{8}$", 25 GAGE GALVANIZED HAT SECTIONS AT 24" O.C. MAXIMUM.
4. PROVIDE 8 GAGE MIN. GALVANIZED HANGER WIRES AT THE ENDS OF ALL MAIN RUNNERS AND CROSS FURRING WITHIN 8" OF THE SUPPORT OR WITHIN $\frac{1}{4}$ OF THE LENGTH OF THE END TEE WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA..
5. HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS.
6. CROSS-FURRING SHALL BE SADDLE-TIED TO THE MAIN RUNNERS WITH ONE STRAND OF #16 GAGE, OR TWO STRANDS OF #18 GAGE TIE WIRE.
7. MAIN RUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES 12" MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAGE WIRE.
8. CROSS-FURRING SHOULD BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES EIGHT INCHES (8") MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAGE WIRE.
9. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN #10 or #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF $1\frac{1}{2}$". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
   NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE $1\frac{1}{2}$" REQUIREMENT, BUT THE NUMBER OF TURNS SHALL BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.
10. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX INCHES (6") FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING $\frac{3}{4}$" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT (DSA).
11. WHEN DRILLED-IN OR SHOT-IN ANCHORS ARE USED IN CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
12. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
13. ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING MOUNTED MECHANICAL AIR TERMINALS AND SERVICES, SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS.
14. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMP ARE NOT TO BE USED.
15. PROVIDE BRACING ASSEMBLY PER DETAIL 1/-. SPACING OF BRACING ASSEMBLIES SHALL BE NOT MORE THAN 12' BY 12' ON CENTER.
16. BRACING ASSEMBLIES AT EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS SHALL BE AT 4'-0" (RECOMMENDED) OR 6'-0" MAX. EACH WAY. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT TO BE PERMITTED WITHOUT SPECIAL DSA APPROVAL.
17. CEILING GRID MEMBERS SHALL BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST $\frac{1}{2}$" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS MUST BE FREE, AND A MINIMUM OF $\frac{1}{2}$" CLEAR OF WALL.
18. SUSPENDED CEILING SYSTEMS WITH AN AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED CEILING SYSTEMS WITH AN AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO AT LEAST TWO ADJACENT WALLS.

SUSPENDED CEILING ASSEMBLY (7)
⅛" = 1'-0"

3

7sh29-09.05



SUSP. CEMENT PLASTER CEILING (16)
3" = 1'-0"

12

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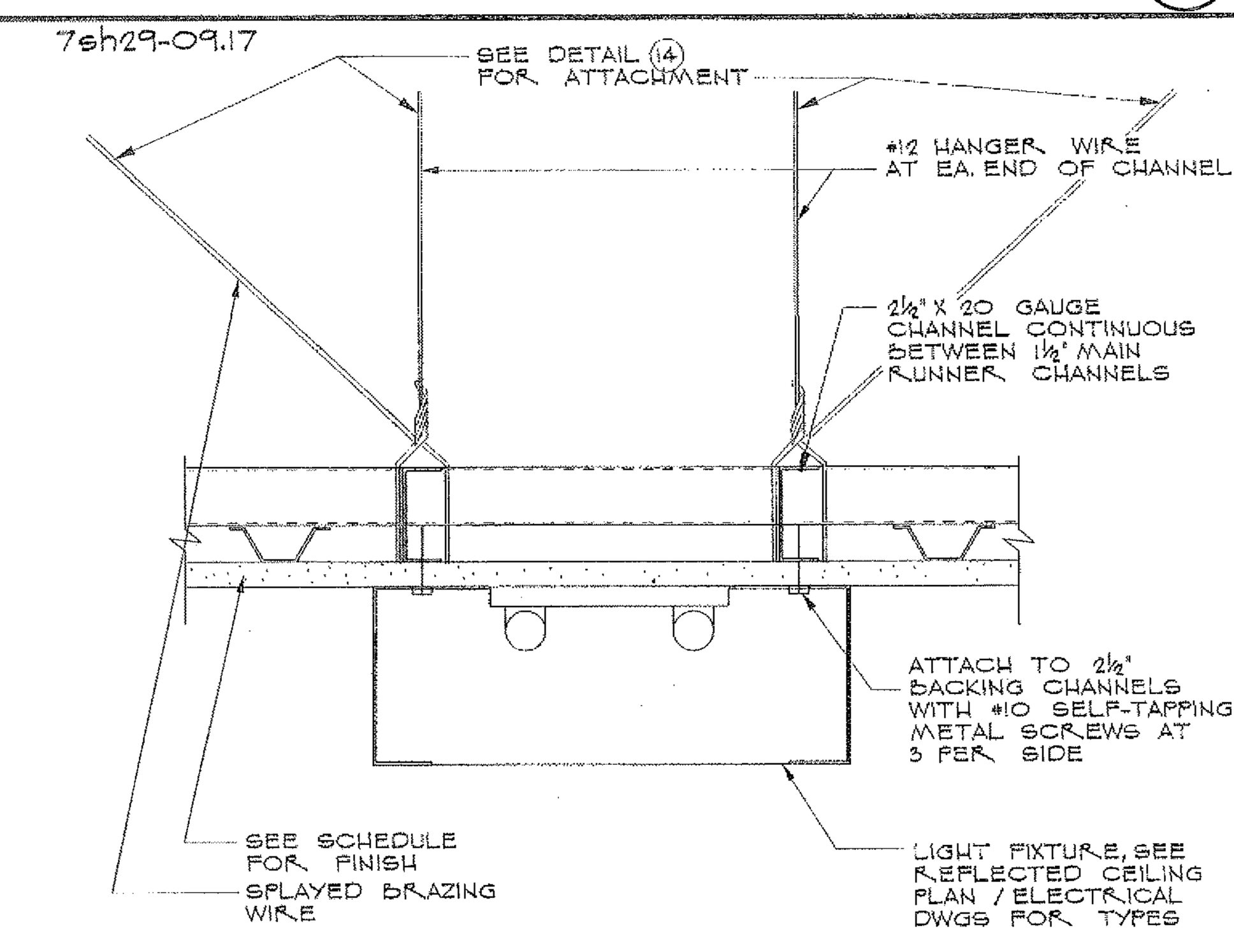
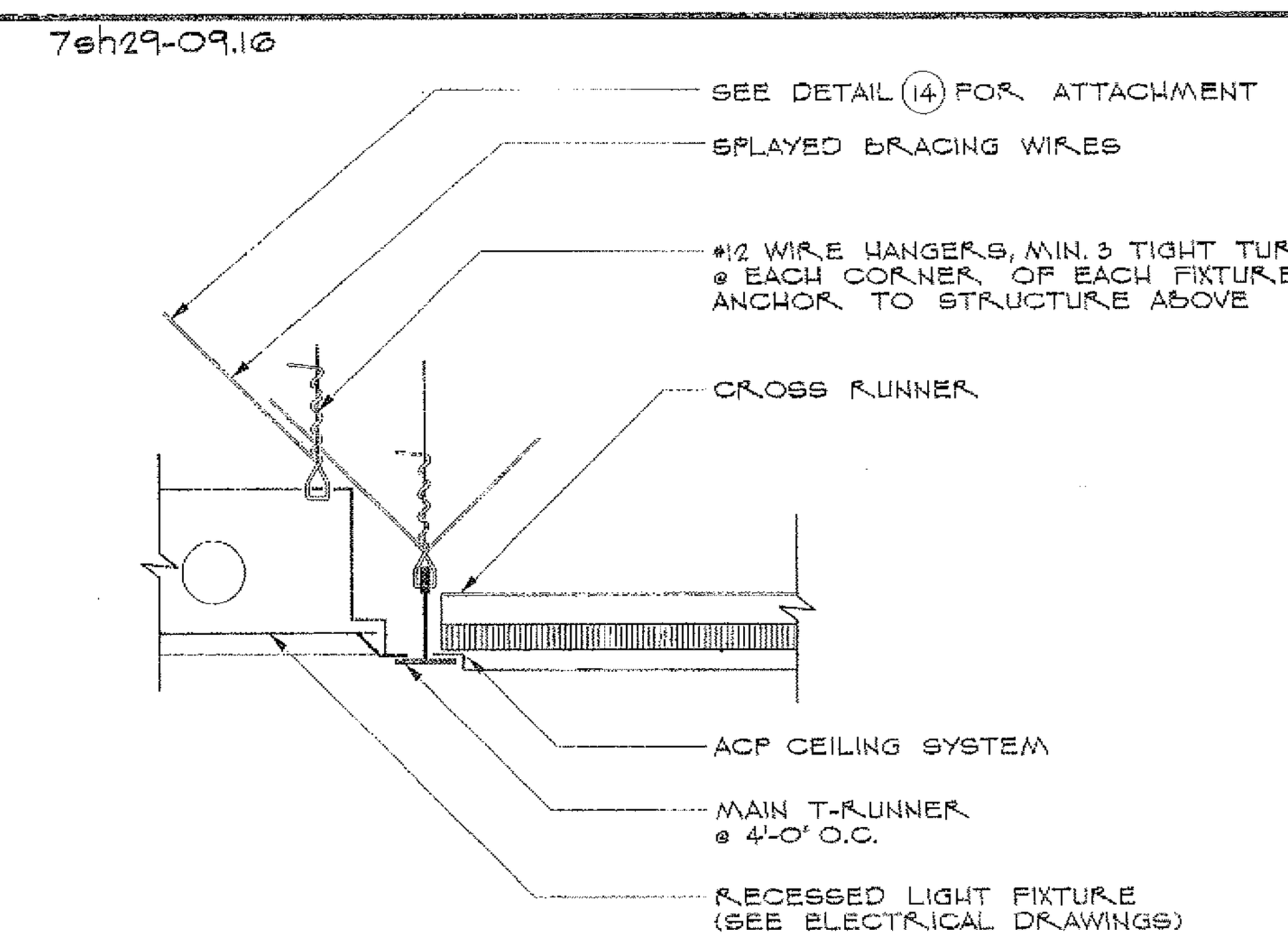


SURFACE MOUNTED LIGHT FIXTURE (8)
3" = 1'-0"

7sh29-09.16



RECESSED LIGHT FIXTURE @ ACP CEILING SYSTEM (4)
3" = 1'-0"

NTD ARCHITECTURE
955 Overland Court, Suite 100
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KEYNOTES

CEILING COMPONENTS
(ASTM C635)

CEILING SUSPENSION SYSTEM - HEAVY DUTY:

CHICAGO METALLIC 1200 SYSTEM	
MAIN RUNNER	200-01
4' CROSS TEE	1214-01
2' CROSS TEE	1226-01
PERIMETER ∠	1420-01

KEY PLAN

SEAL — LICENSED ARCHITECT JAY R. TITTLE NO. 12936 REN. 11-30-11 STATE OF CALIFORNIA

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PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
CEILING DETAILS

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GG	2007-SH29-01
			CHECKED BY	© DATE
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			DRAWING NO.	
			A4.2	
			SHEET	OF

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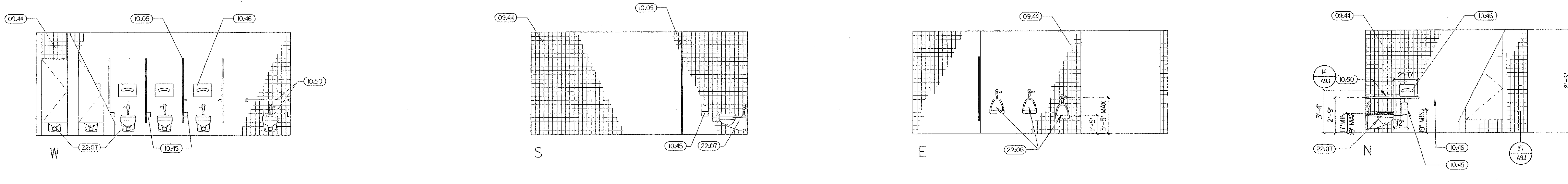
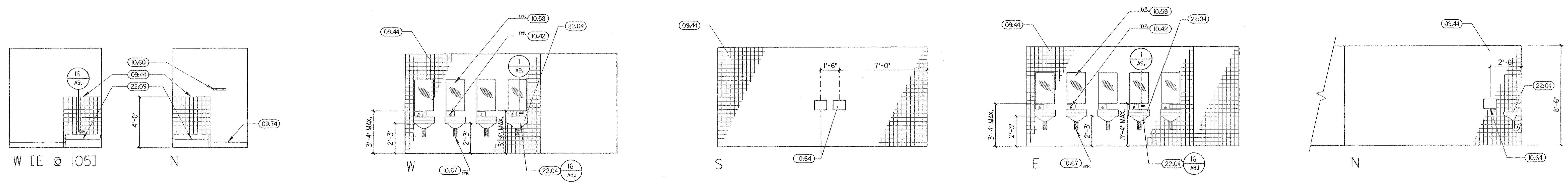
FILE: K:\Pasadena_CC\2007



MEN'S TOILET ROOM 102

1/4" = 1'- 0"

1



CUSTODIAN- ROOMS 104/A05

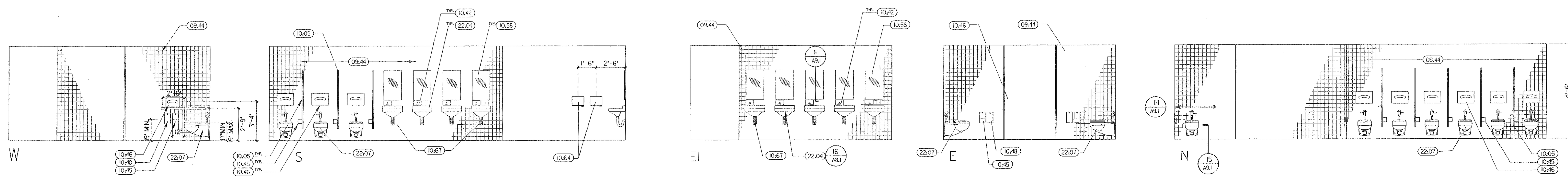
1/4" = 1'- 0"

3

MEN'S TOILET ROOM 102

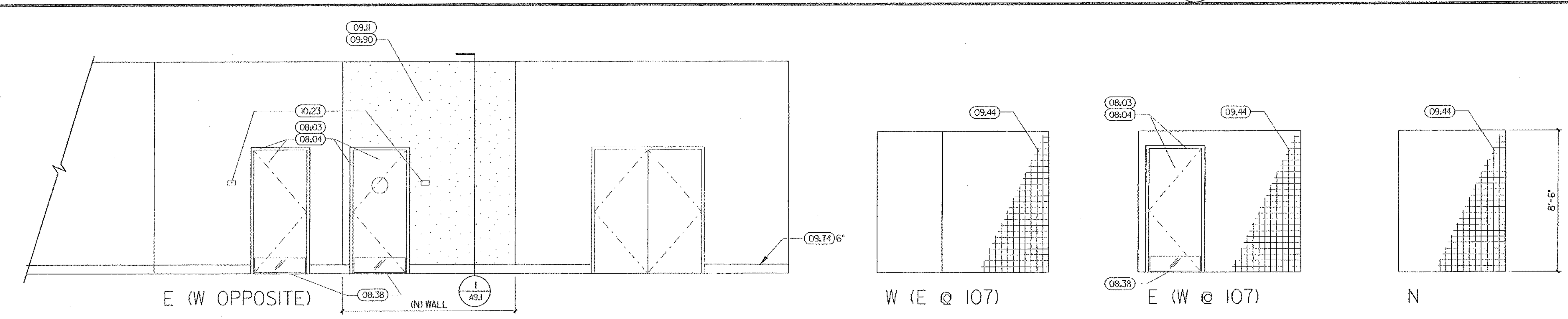
1/4" = 1'- 0"

2



WOMEN'S TOILET ROOM 103

4



FOYER ELEVATIONS

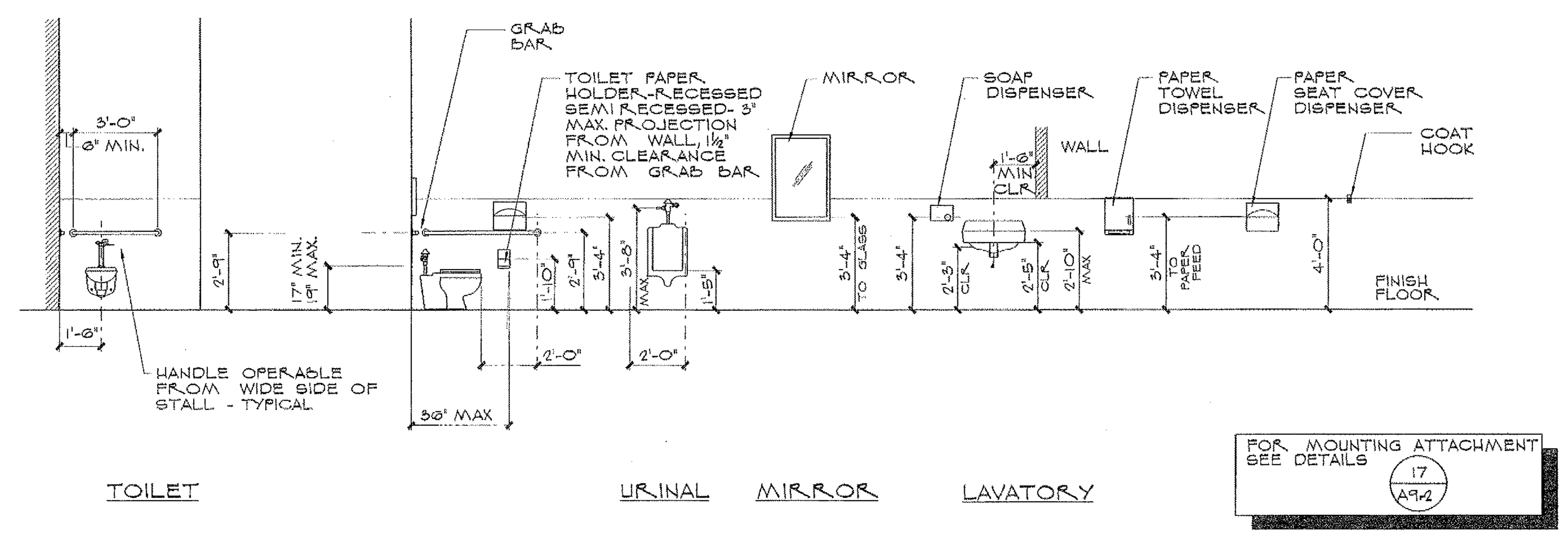
1/4" = 1'- 0"

6

VESTIBULE – ROOMS 106/107

1/4" = 1'- 0"

5



FOR MOUNTING ATTACHMENT SEE DETAILS 17 / A9.4

ACCESSIBLE BATHROOM FIXTURE MOUNTING ELEVATIONS

¼" = 1'-0"

12

FOR COMPLETE INFORMATION ON FIXTURE AND ACCESSORIES ACCESSIBLE MOUNTING HEIGHTS SEE DETAIL # 12, THIS PAGE.

NTD ARCHITECTURE

955 Overland Court, Suite 100
San Dimas, California 91773
909/450.2180

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KEYNOTES

CONSTRUCTION KEYNOTES

8. OPENINGS
- (08.03) STEEL DOOR FRAME - 08 11 00
- (08.04) STEEL DOOR - 08 14 00
- (08.16) WALL ACCESS PANEL - 08 31 13
- (08.38) METAL THRESHOLD - 08 71 00

9. FINISHES
- (09.11) PORTLAND CEMENT PLASTER - 09 20 00
- (09.44) CERAMIC TILE - 09 30 13
- (09.74) RESILIENT BASE - 09 65 00
- (09.90) PAINT FINISH - INTERIOR - 09 91 00

10. SPECIALTIES
- (10.05) METAL TOILET COMPARTMENTS - 10 21 13
- (10.23) ROOM IDENTIFICATION SIGNAGE - RS - 10 14 00
- (10.42) SOAP DISPENSER - 10 28 00
- (10.45) TOILET PAPER HOLDER - 10 28 00
- (10.46) SEAT COVER DISPENSER - 10 28 00
- (10.48) SANITARY PRODUCTS WASTE RECEPTACLE - 10 28 00
- (10.50) GRAB BARS - 10 28 00
- (10.57) CLOTHES/TOWEL HOOK - 10 28 00
- (10.58) MIRROR - 10 28 00
- (10.60) MOP RACK - 10 28 00
- (10.64) ELECTRIC HAND DRYER - 10 28 00
- (10.67) TRAP, PIPE WRAP

22. PLUMBING
- (22.04) LAVATORY
- (22.06) URINAL
- (22.07) TOILET
- (22.09) MOP SINK

KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. [illegible] REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 13596
AC W FLS SU SS LE
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

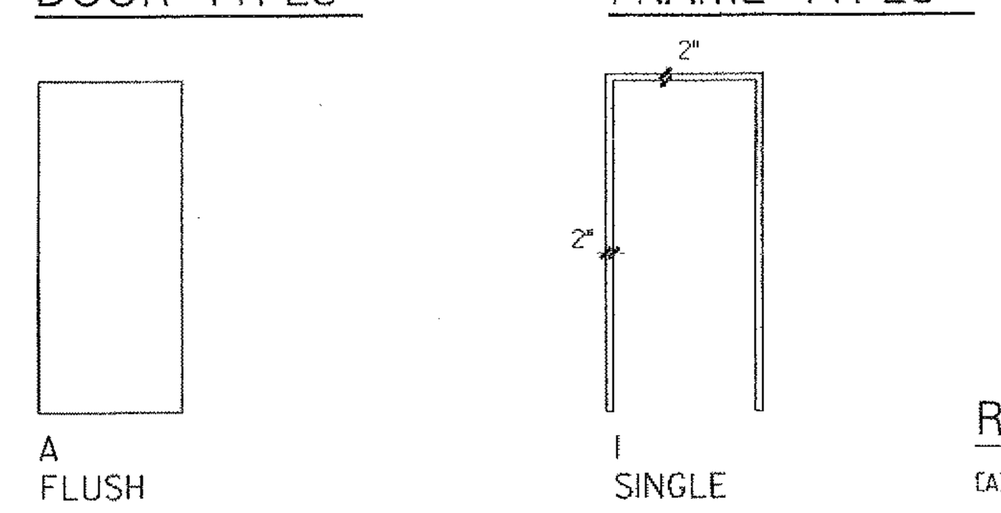
INTERIOR ELEVATIONS

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GG	2007-SH29-001
			CHECKED BY	© DATE
				3-29-2011
			DRAWING NO.	
			A7.1	
			SHEET	OF

DOOR SCHEDULE

DOOR	OPENING SIZE [A]	DOOR TYPE	DOOR MATERIAL	DOOR FIN.	DOOR GLASS	FRAME TYPE	FRAME MATL.	FRAME FIN.	OPN'G. LABEL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	DETAILS TRANSOM	REMARKS
102	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-1
103	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-1
104	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-2
105	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-2
106	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-3
107	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-4
108	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-4
109	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-4
110	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-4
111	3'-0"x7'-0"	A	HOLLOW METAL	P2	-	I	HM	P2	60 MIN	3/A8.1	3/A8.1	4/A8.1	-	HW-4

DOOR TYPES — FRAME TYPES



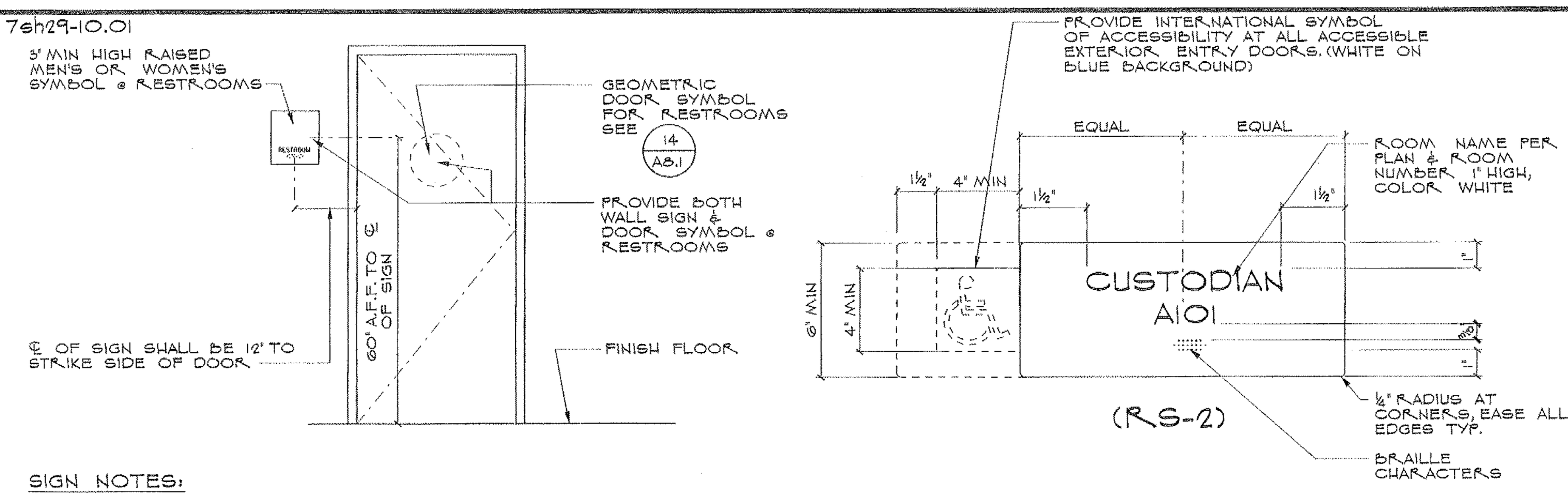
REF. NOTES

[A] ALL DOORS ARE 1-3/4" THICK UNLESS NOTED OTHERWISE.

FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR SUB.	FLOOR FIN.	BASE	WALLS NORTH SUB.	WALLS NORTH FIN.	WALLS EAST SUB.	WALLS EAST FIN.	WALLS SOUTH SUB.	WALLS SOUTH FIN.	WALLS WEST SUB.	WALLS WEST FIN.	WAINSCOT NORTH SUB.	WAINSCOT NORTH FIN.	WAINSCOT EAST SUB.	WAINSCOT EAST FIN.	WAINSCOT SOUTH SUB.	WAINSCOT SOUTH FIN.	WAINSCOT WEST SUB.	WAINSCOT WEST FIN.	CEILING SUB.	CEILING FIN.	REMARKS
101	FOYER	(E)	(E)		-	-	-	-	-	-	-	-											
102	MEN'S TOILET	CONC	CT2	-	CBU	CTI	CBU	CTI	CBU	CTI	CBU	CTI	-	-	-	-	-	-	-	-	PCP	P4	
103	WOMEN'S TOILET	CONC	CT2	-	CBU	CTI	CBU	CTI	CBU	CTI	CBU	CTI	-	-	-	-	-	-	-	-	PCP	P4	
104	CUSTODIAN	CONC	VCT	RBI	GBX	PI	GBX	PI	GBX	PI	GBX	PI	CBU	CTI	-	-	-	-	CBU	CTI	PCP	P4	4'-0" HIGH WAINSCOT
105	CUSTODIAN	CONC	VCT	RBI	GBX	PI	GBX	PI	GBX	PI	GBX	PI	CBU	CTI	CBU	CTI	-	-	-	-	PCP	P4	4'-0" HIGH WAINSCOT
106	MEN'S VESTIBULE	CONC	CT2	CTI	CBU	CTI	CBU	CTI	CBU	CTI	CBU	CTI	-	-	-	-	-	-	-	-	PCP	P4	
107	WOMEN'S VESTIBULE	CONC	CT2	CTI	CBU	CTI	CBU	CTI	CBU	CTI	CBU	CTI	-	-	-	-	-	-	-	-	PCP	P4	
117	(E) CLASSROOM	CONC	VCT	RBI	GBX	P3	GBX	P3	-	-	-	-	-	-	-	-	-	-	-	-	-	ACPI	MATCH (E) CEILING
118	(E) OFFICE	CONC	VCT	RBI	-	-	GBX	P3	-	-	-	-	-	-	-	-	-	-	-	-	-	ACPI	MATCH (E) CEILING
118A	(E) OFFICE/STORAGE	CONC	VCT	RBI	GBX	P3	GBX	P3	GBX	P3	GBX	P3	-	-	-	-	-	-	-	-	-	ACPI	MATCH (E) CEILING

7sh29-10.01

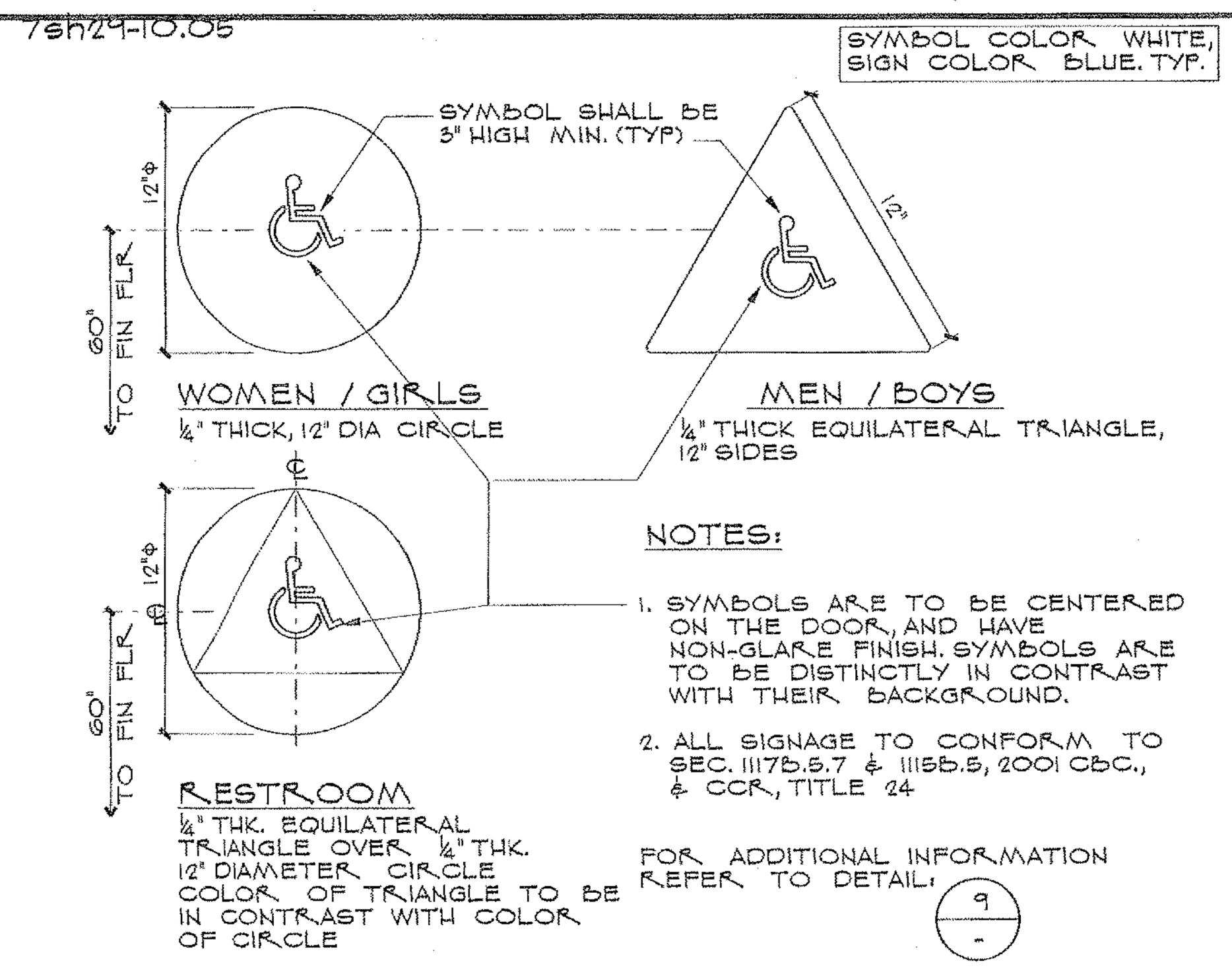


SIGN NOTES:

1. VERIFY SIGN TEXT AND ROOM NUMBERING WITH OWNER PRIOR TO SUBMITTAL.
2. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS COMPLY WITH ARTICLE 4.30 OF THE ADAAG.
3. LETTERS, BRAILLE CHARACTERS AND PICTOGRAM SYMBOL TO BE RAISED 1/32". TEXT SHALL BE UPPER CASE, SANS SERIF, IN CONTRASTING COLOR 1" HIGH (1117B.5.5.1). WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 WITH THE STROKE WIDTH TO HEIGHT BETWEEN 1:5 AND 1:10 (1117B.5.6).
4. SIGN TO BE A MINIMUM OF 6" X 6".
5. BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE REQUIRED. DOTS SHALL BE 1/10 INCH (2.54MM) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635MM) ABOVE THE BACKGROUND (1117B.5.6)
6. SIGNAGE TO CONFORM WITH C.C.R., TITLE 24, PART 2 SECTIONS 1117 B.5.2 & 1117 B.5.8

TYPICAL ROOM SIGN DETAIL / ELEVATION (9)
N.T.S.

7sh29-10.05



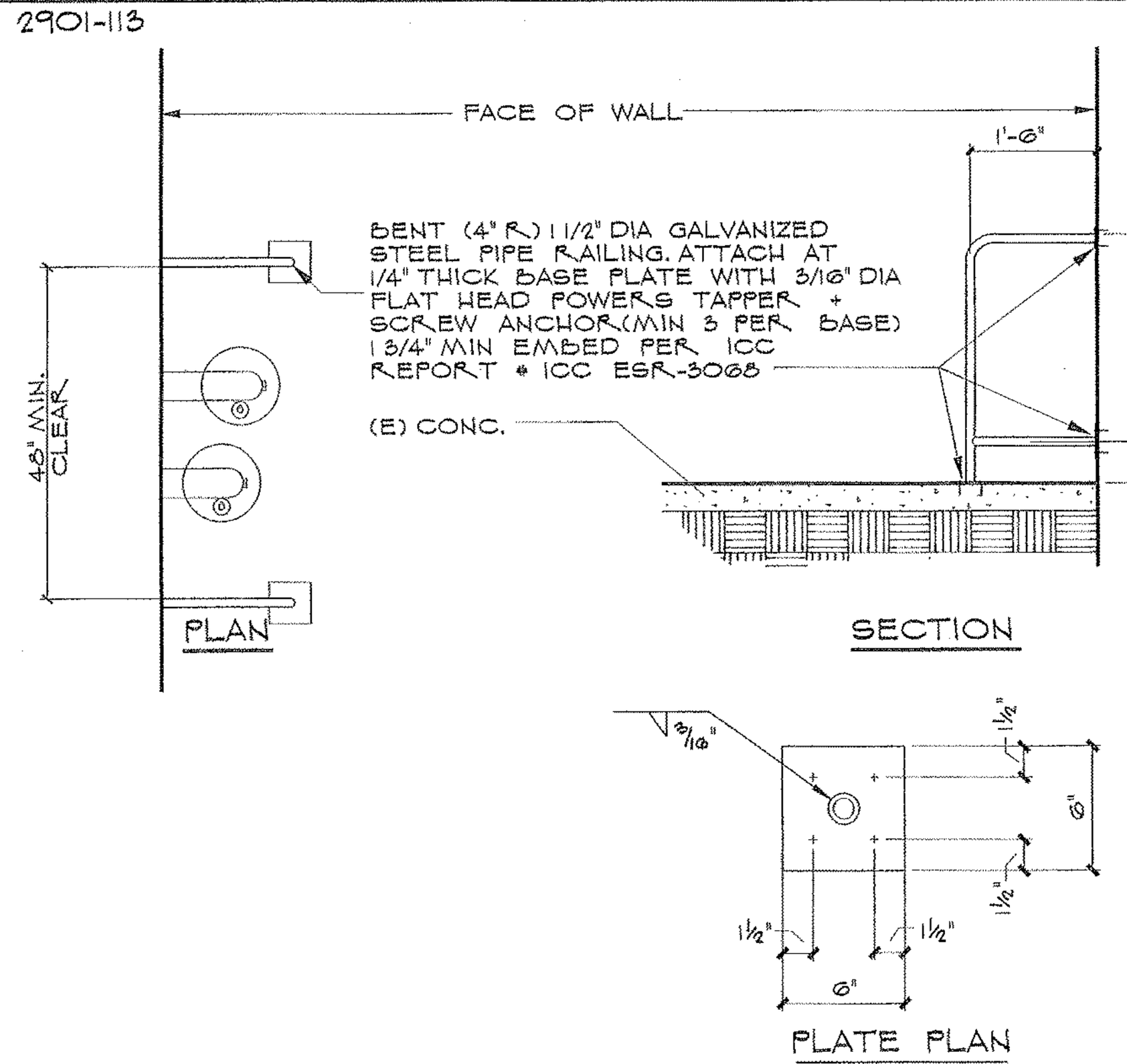
NOTES:

1. SYMBOLS ARE TO BE CENTERED ON THE DOOR, AND HAVE NON-GLARE FINISH. SYMBOLS ARE TO BE DISTINCTLY IN CONTRAST WITH THEIR BACKGROUND.
2. ALL SIGNAGE TO CONFORM TO SEC. 1117B.5.7 & 1115B.5, 2001 CBC., & CCR., TITLE 24

FOR ADDITIONAL INFORMATION REFER TO DETAIL 9/-

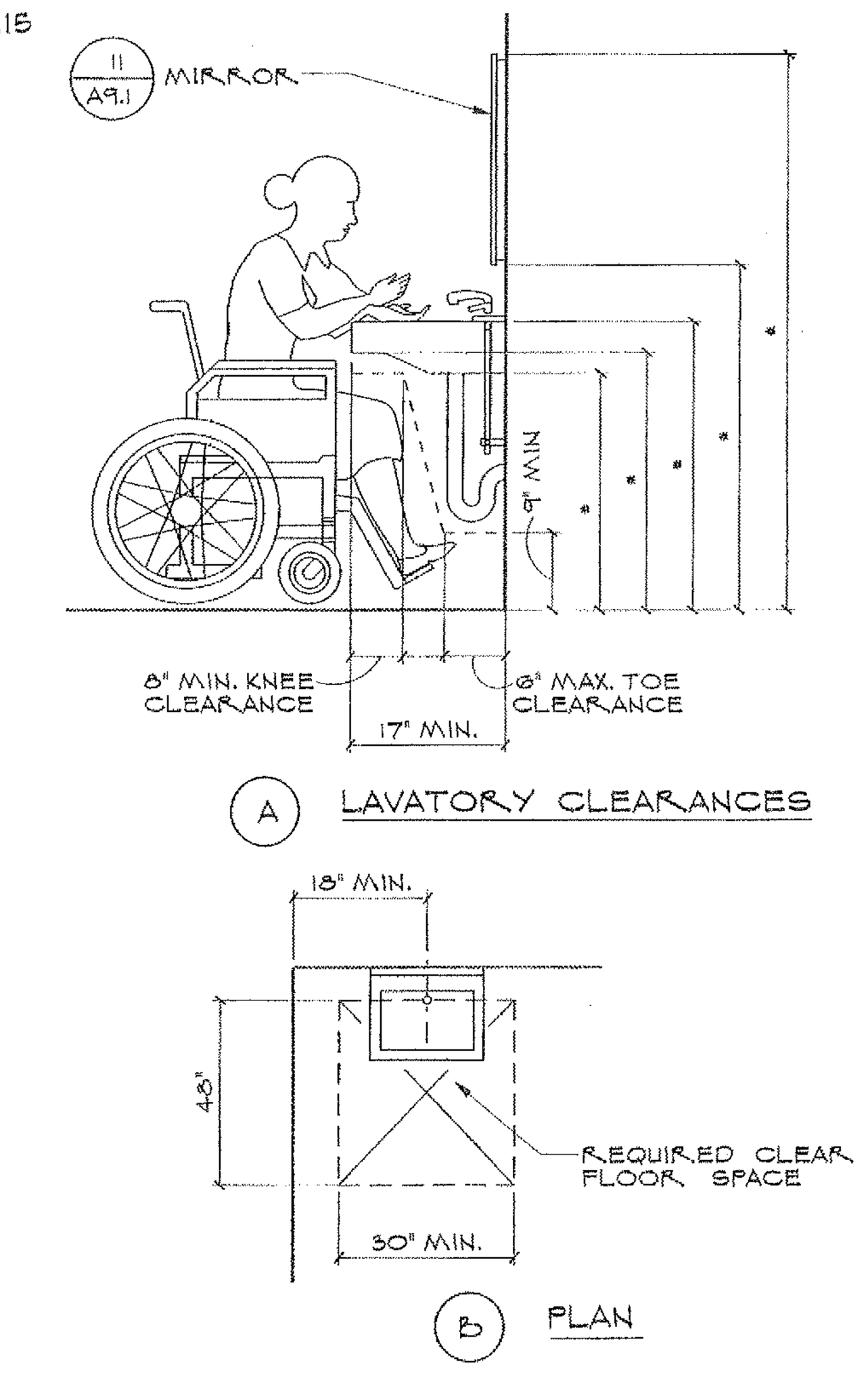
GEOMETRIC DOOR SYMBOLS (RS-1) (14)
1½" = 1'-0"

2901-113



RAILING @ DRINKING FOUNTAIN (10)
½" = 1'-0"

7hs29-01.15



UNIFORM PLUMBING CODE SECTION 1504 - LAVATORIES

*(A) FOR SUGGESTED MOUNTING HEIGHTS OF ACCESSIBLE LAVATORY DETAIL 12/A7.1

TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MIN. OF 9 INCHES HIGH FROM THE FLOOR AND MIN. OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY.

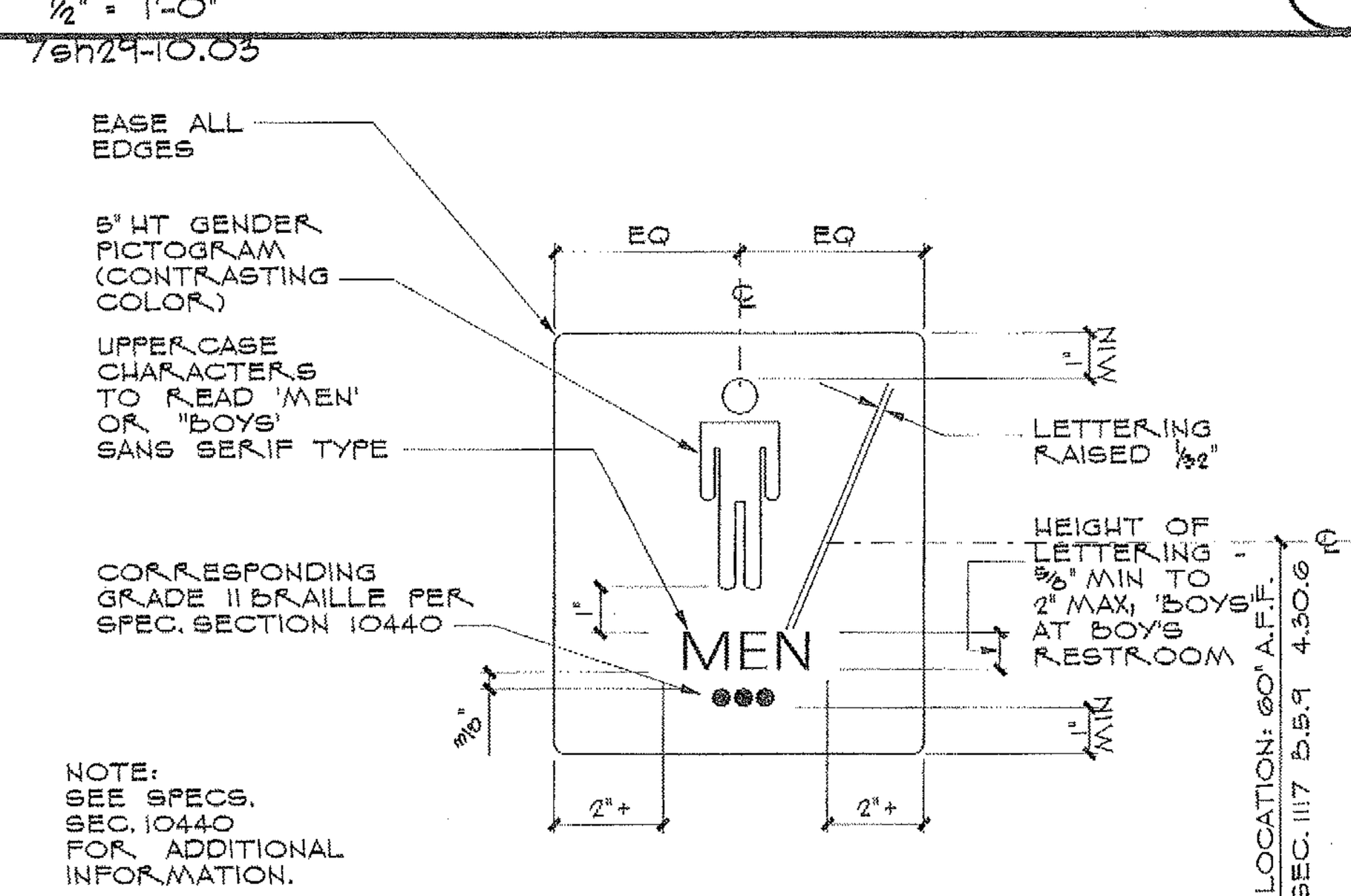
(b) HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

(c) FAUCET CONTROLS AND OPERATING MECHANISM SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 lb. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ACCESSIBLE LAVATORY (16)
N.T.S.

7sh29-10.03



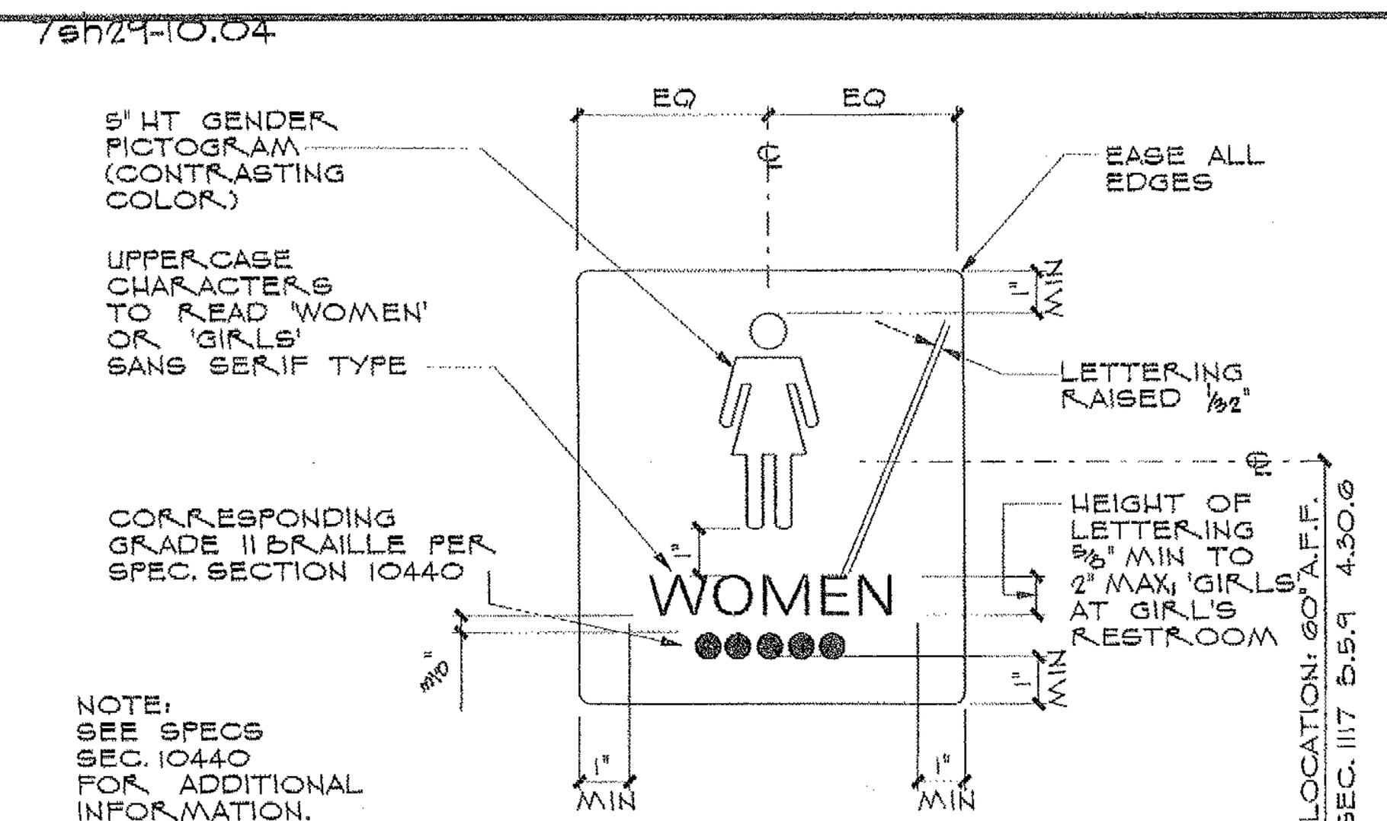
NOTE: SEE SPECS. SEC. 10440 FOR ADDITIONAL INFORMATION.

(TITLE 24 - SECTION 1117B.5.6 2007 CBC - BRAILLE SYMBOLS) BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54MM) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635MM) ABOVE THE BACKGROUND. CCR TITLE 24 1115B.5

ALSO REFER TO DET. 9/-

MENS TOILET ROOM SIGN (RS-3) (11)
3" = 1'-0"

7sh29-10.04

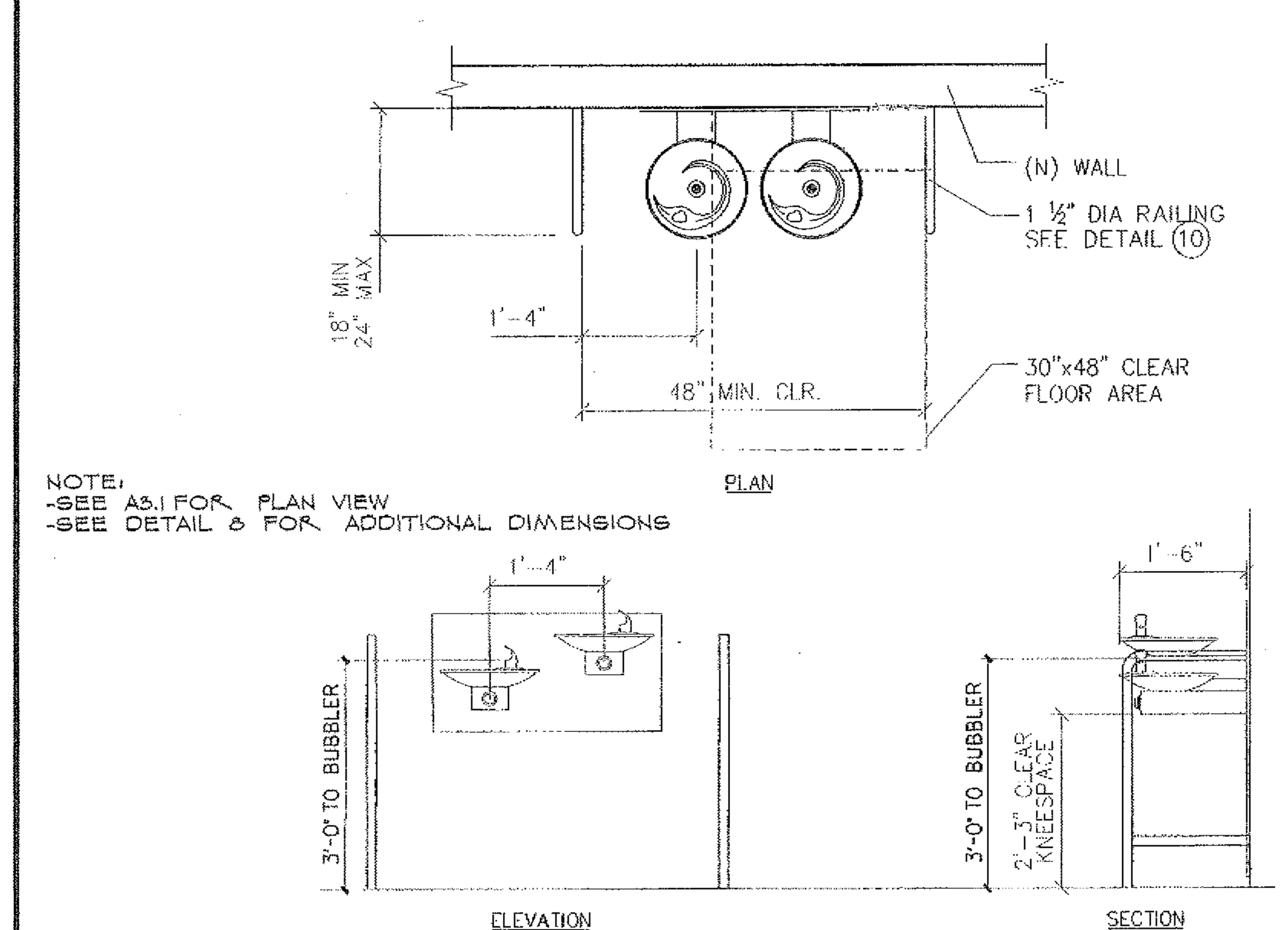


NOTE: SEE SPECS SEC. 10440 FOR ADDITIONAL INFORMATION.

(TITLE 24 - SECTION 1117B.5.6 2007 CBC - BRAILLE SYMBOLS) BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54MM) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635MM) ABOVE THE BACKGROUND. CCR. TITLE 24 1115B.5

ALSO REFER TO DET. 9/-

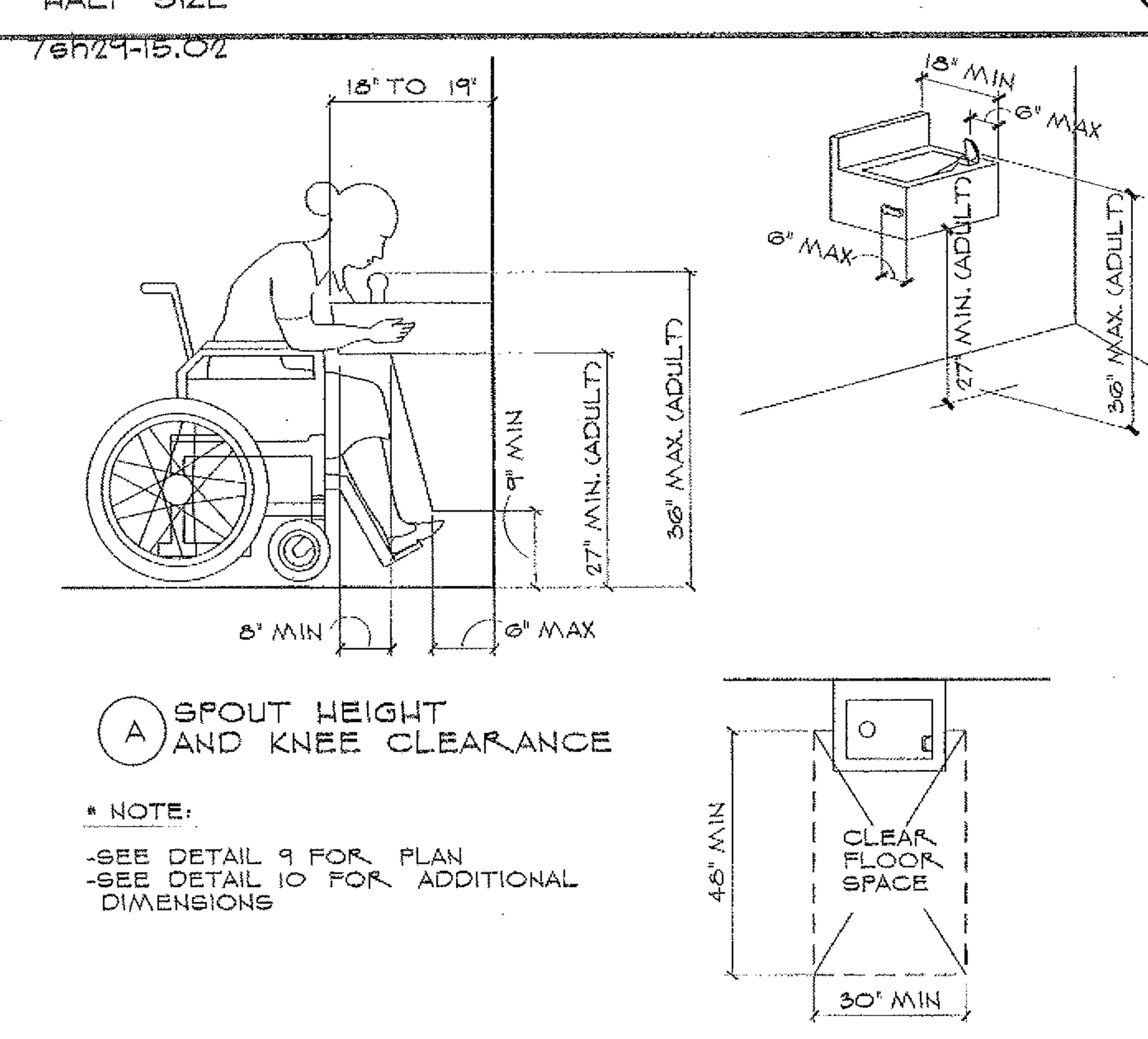
WOMEN'S TOILET RM SIGN (RS-3) (12)
3" = 1'-0"



NOTE:
-SEE A3.1 FOR PLAN VIEW
-SEE DETAIL 8 FOR ADDITIONAL DIMENSIONS

(HI/ LOW DRINKING FOUNTAIN (7)
HALF SIZE

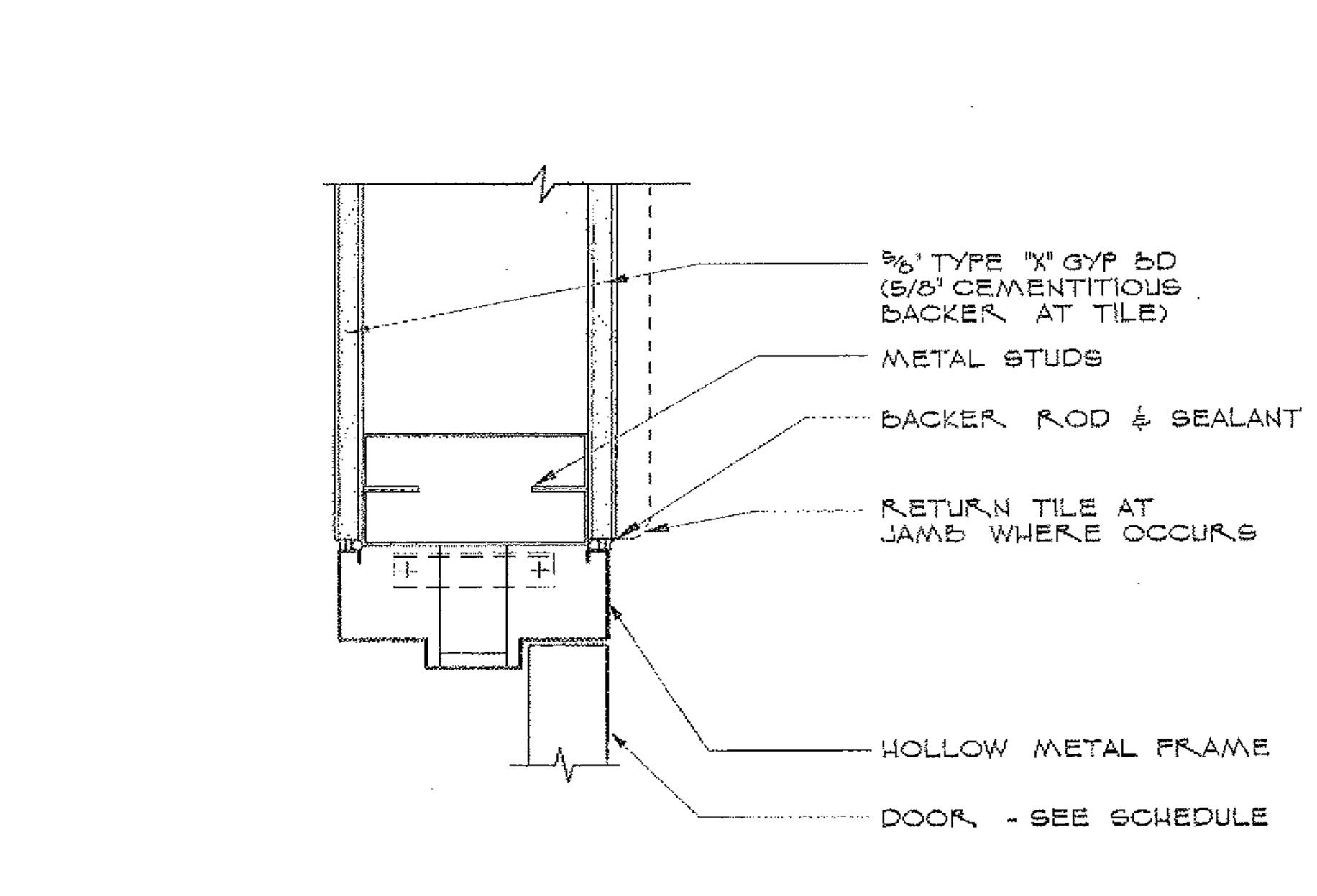
7sh29-15.02



* NOTE:
-SEE DETAIL 9 FOR PLAN
-SEE DETAIL 10 FOR ADDITIONAL DIMENSIONS

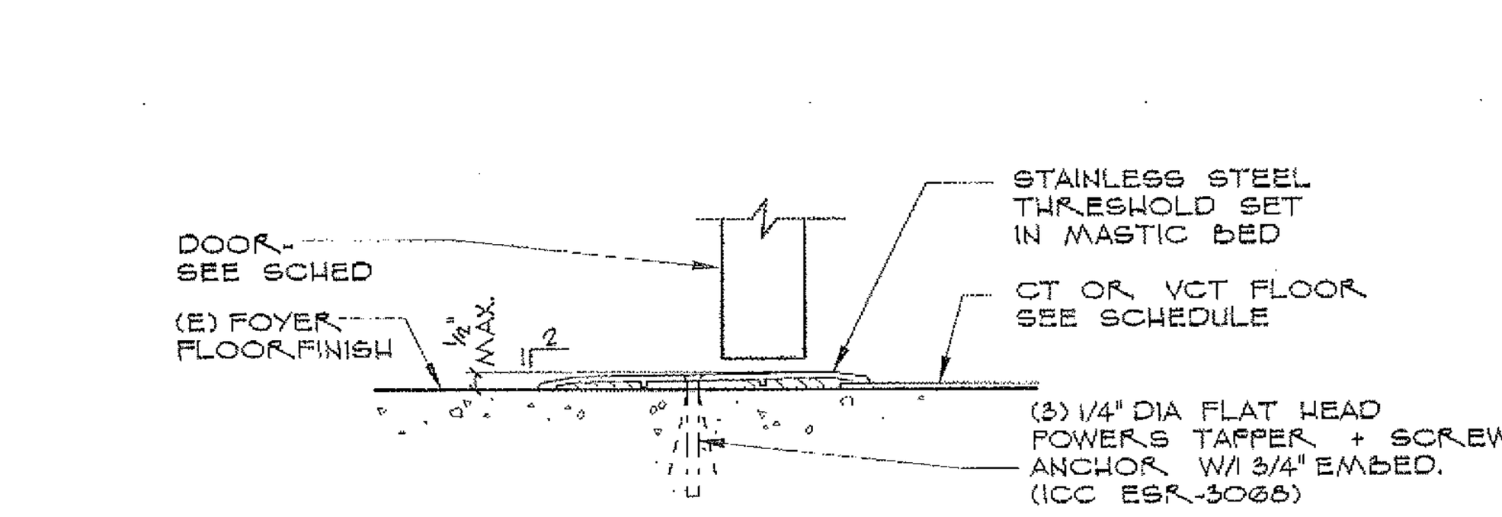
ACCESSIBLE DRINKING FOUNTAIN (8)
N.T.S.

7sh29-08.02



INT HM DOOR JAMB/HEAD SIM. (3)
3" = 1'-0"

7SH29-08.01



THRESHOLD (4)
3" = 1'-0"

NTD ARCHITECTURE
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KEYNOTES

FINISH KEY

FLOOR
- CT2 CERAMIC TILE
- VCTI VINYL COMPOSITION TILE

BASE
- RBI RUBBER BASE
- CTI CERAMIC TILE

WALL
- GB GYP. BD.
- GBWR GYP. BD. - WATER RESIST.
- GBX GYP. BD. - TYPE "X"
- CTI CERAMIC TILE

WAINSCOT
- CTI CERAMIC TILE

CEILING
- ACPI ACOUSTICAL PANEL
- GB GYP. BD.
- PCP PORTLAND CEMENT PLASTER - SMOOTH TROWEL

PAINT
- PI LOW SHEEN/EGGSHELL PAINT
- P2 SEMI-GLOSS ENAMEL PAINT
- P3 FLAT PAINT
- P4 SEMI-GLOSS FINISH- PLASTER CEILINGS
- PF PREFINISHED

KEY PLAN

SEAL — LICENSED ARCHITECT JAY R. TITTLE NO. 12993 REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 13596
AC ___ FLS ___ SS ___
DATE 3-29-2011

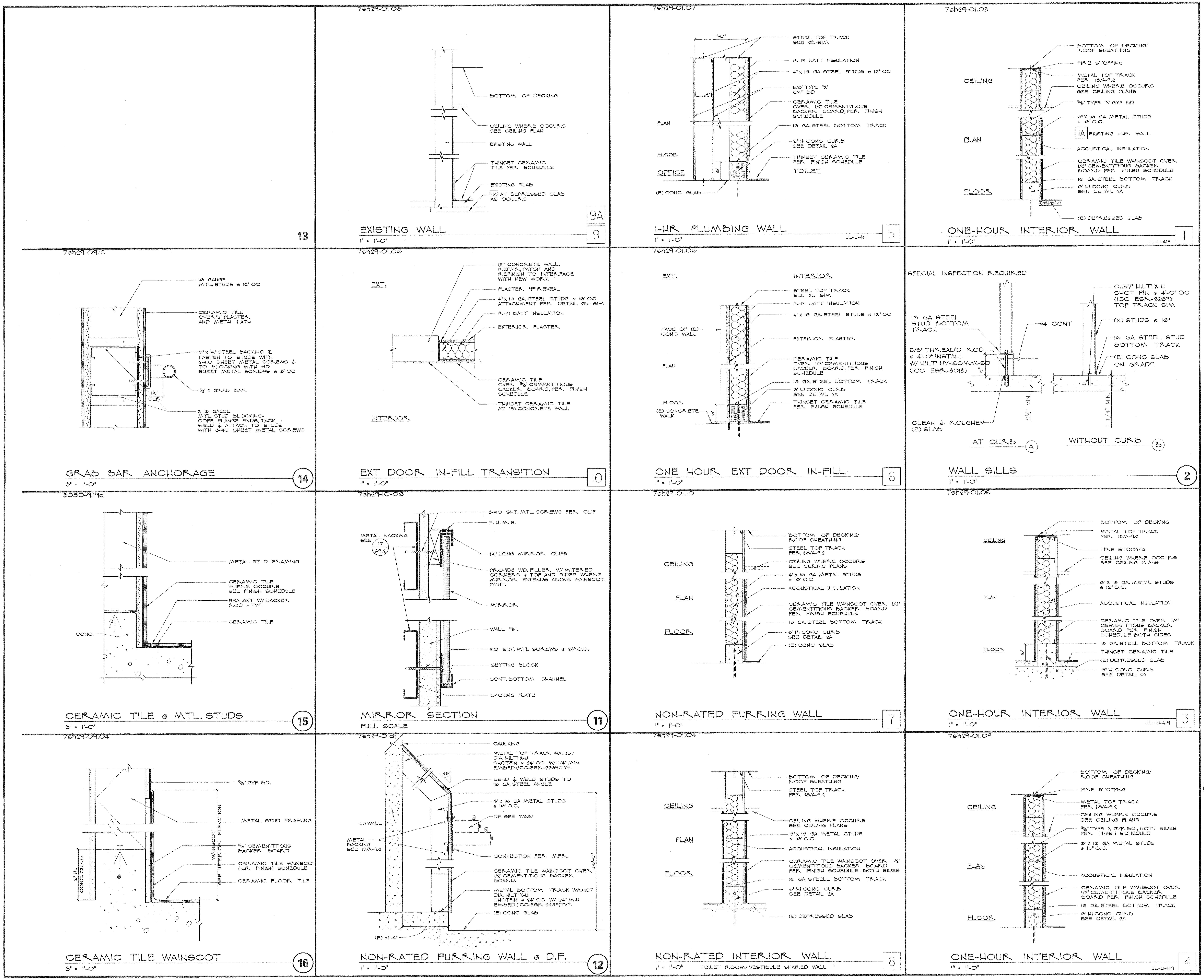
PROJECT: PASADENA CITY COLLEGE BUILDING "R" TOILET ROOMS RENOVATION

DRAWING TITLE: DOOR FINISH SCHEDULES, MISC DETAILS

NO.	DATE	ISSUE

DRAWN BY: OC/GG
PROJECT NO.: 2007-5H29-01
CHECKED BY:
© DATE: 3-29-2011
DRAWING NO.: A8.1
SHEET OF

USERNAME: GGcl...do
FILE: K:\Pasadena_CC\2007-5-29-01-TS-A...dgn



13
7eh29-01.08
BOTTOM OF DECKING
CEILING WHERE OCCURS SEE CEILING PLAN
EXISTING WALL
THINSET CERAMIC TILE PER SCHEDULE
EXISTING SLAB
9A AT DEPRESSED SLAB AS OCCURS
9A
EXISTING WALL
9
1" = 1'-0"
7eh29-01.07
STEEL TOP TRACK SEE 2B-SIM
R-19 BATT INSULATION
4" x 16 GA. STEEL STUDS @ 16" OC
5/8" TYPE 'X' GYP BD
CERAMIC TILE OVER 1/2" CEMENTITIOUS BACKER BOARD, PER FINISH SCHEDULE
16 GA. STEEL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
THINSET CERAMIC TILE PER FINISH SCHEDULE
PLAN
FLOOR
OFFICE
TOILET
(E) CONC SLAB
1-HR PLUMBING WALL
5
1" = 1'-0"
UL-U-419
7eh29-01.03
BOTTOM OF DECKING/ ROOF SHEATHING
FIRE STOPPING
METAL TOP TRACK PER 1B/A-9.2
CEILING WHERE OCCURS SEE CEILING PLANS
5/8" TYPE 'X' GYP BD
6" X 16 GA. METAL STUDS @ 16" O.C.
1A EXISTING 1-HR. WALL
ACOUSTICAL INSULATION
CERAMIC TILE WAINSCOT OVER 1/2" CEMENTITIOUS BACKER BOARD PER FINISH SCHEDULE
16 GA. STEEL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
(E) DEPRESSED SLAB
CEILING
PLAN
FLOOR
ONE-HOUR INTERIOR WALL
1
1" = 1'-0"
UL-U-419
7eh29-09.13
16 GAUGE MTL. STUDS @ 16" OC
CERAMIC TILE OVER 5/8" PLASTER AND METAL LATH
6" x 1/2" STEEL BACKING PL FASTEN TO STUDS WITH 2-#10 SHEET METAL SCREWS & TO BLOCKING WITH #10 SHEET METAL SCREWS @ 6" OC
1 1/2" Ø GRAB BAR
X 16 GAUGE MTL. STUD BLOCKING- COPE FLANGE ENDS, TACK WELD & ATTACH TO STUDS WITH 2-#10 SHEET METAL SCREWS
GRAB BAR ANCHORAGE
14
3" = 1'-0"
7eh29-01.08
EXT.
(E) CONCRETE WALL. REPAIR, PATCH AND REFINISH TO INTERFACE WITH NEW WORK
PLASTER "F" REVEAL
4" x 16 GA. STEEL STUDS @ 16" OC ATTACHMENT PER DETAIL 2B- SIM
R-19 BATT INSULATION
EXTERIOR PLASTER
CERAMIC TILE OVER 5/8" CEMENTITIOUS BACKER BOARD, PER FINISH SCHEDULE
THINSET CERAMIC TILE AT (E) CONCRETE WALL
INTERIOR
EXT DOOR IN-FILL TRANSITION
10
1" = 1'-0"
7eh29-01.06
EXT.
INTERIOR
STEEL TOP TRACK SEE 2B SIM.
R-19 BATT INSULATION
4" x 16 GA. STEEL STUDS @ 16" OC
FACE OF (E) CONC WALL
EXTERIOR PLASTER
CERAMIC TILE OVER 1/2" CEMENTITIOUS BACKER BOARD, PER FINISH SCHEDULE
16 GA. STEEL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
THINSET CERAMIC TILE PER FINISH SCHEDULE
PLAN
FLOOR
(E) CONCRETE WALK
ONE HOUR EXT DOOR IN-FILL
6
1" = 1'-0"
SPECIAL INSPECTION REQUIRED
16 GA. STEEL STUD BOTTOM TRACK
#4 CONT
5/8" THREAD'D ROD @ 4'-0" INSTALL W/ HILTI HY-150MAX-SD (ICC ESR-3013)
CLEAN & ROUGHEN (E) SLAB
0.157" HILTI X-U SHOT PIN @ 4'-0" OC (ICC ESR-2269) TOP TRACK SIM
(N) STUDS @ 16"
16 GA STEEL STUD BOTTOM TRACK
(E) CONC. SLAB ON GRADE
2 1/2" MIN.
1 1/4" MIN.
AT CURB A
WITHOUT CURB B
WALL SILLS
2
1" = 1'-0"
3080-9.19a
METAL STUD FRAMING
CERAMIC TILE WHERE OCCURS SEE FINISH SCHEDULE
SEALANT W/ BACKER ROD - TYP.
CERAMIC TILE
CONC.
CERAMIC TILE @ MTL. STUDS
15
3" = 1'-0"
7eh29-10-08
2-#10 SHT. MTL. SCREWS PER CLIP
F.H.M.S.
METAL BACKING SEE 17 A9.2
1/4" LONG MIRROR CLIPS
PROVIDE WD. FILLER W/ MITERED CORNERS @ TOP AND SIDES WHERE MIRROR EXTENDS ABOVE WAINSCOT. PAINT.
MIRROR
WALL FIN.
#10 SHT. MTL. SCREWS @ 24" O.C.
SETTING BLOCK
CONT. BOTTOM CHANNEL
BACKING PLATE
MIRROR SECTION
11
FULL SCALE
7eh29-01.10
BOTTOM OF DECKING/ ROOF SHEATHING
STEEL TOP TRACK PER 1B/A-9.2
CEILING WHERE OCCURS SEE CEILING PLANS
4" x 16 GA METAL STUDS @ 16" O.C.
ACOUSTICAL INSULATION
CERAMIC TILE WAINSCOT OVER 1/2" CEMENTITIOUS BACKER BOARD PER FINISH SCHEDULE
16 GA STEEL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
(E) CONC SLAB
CEILING
PLAN
FLOOR
NON-RATED FURRING WALL
7
1" = 1'-0"
7eh29-01.05
BOTTOM OF DECKING
METAL TOP TRACK PER 1B/A-9.2
FIRE STOPPING
CEILING WHERE OCCURS SEE CEILING PLANS
6" X 16 GA. METAL STUDS @ 16" O.C.
ACOUSTICAL INSULATION
CERAMIC TILE OVER 1/2" CEMENTITIOUS BACKER BOARD PER FINISH SCHEDULE, BOTH SIDES
16 GA. STEEL BOTTOM TRACK
THINSET CERAMIC TILE
(E) DEPRESSED SLAB
6" HI CONC CURB SEE DETAIL 2A
CEILING
PLAN
FLOOR
ONE-HOUR INTERIOR WALL
3
1" = 1'-0"
UL- U-419
7eh29-09.04
5/8" GYP. BD.
METAL STUD FRAMING
5/8" CEMENTITIOUS BACKER BOARD
CERAMIC TILE WAINSCOT PER FINISH SCHEDULE
CERAMIC FLOOR TILE
WAINSCOT SEE INTERIOR ELEVATION
6" HI. CONC. CURB
CERAMIC TILE WAINSCOT
16
3" = 1'-0"
7eh29-01.01
CAULKING
METAL TOP TRACK W/0.157 DIA. HILTI X-U SHOTPIN @ 24" OC W/1 1/4" MIN EMBED.(ICC-ESR-2269)TYP.
BEND & WELD STUDS TO 16 GA. STEEL ANGLE
4" x 16 GA. METAL STUDS @ 16" O.C.
DF. SEE 7/A6.1
(E) WALL
METAL BACKING SEE 17/A-9.2
CONNECTION PER MFR.
CERAMIC TILE WAINSCOT OVER 1/2" CEMENTITIOUS BACKER BOARD.
METAL BOTTOM TRACK W/0.157 DIA. HILTI X-U SHOTPIN @ 24" OC W/1 1/4" MIN EMBED.(ICC-ESR-2269)TYP.
(E) CONC SLAB
NON-RATED FURRING WALL @ D.F.
12
1" = 1'-0"
7eh29-01.04
BOTTOM OF DECKING/ ROOF SHEATHING
STEEL TOP TRACK PER 1B/A-9.2
CEILING WHERE OCCURS SEE CEILING PLANS
6" x 16 GA. METAL STUDS @ 16" O.C.
ACOUSTICAL INSULATION
CERAMIC TILE WAINSCOT OVER 1/2" CEMENTITIOUS BACKER BOARD PER FINISH SCHEDULE- BOTH SIDES
16 GA STEELL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
(E) DEPRESSED SLAB
CEILING
PLAN
FLOOR
NON-RATED INTERIOR WALL
8
1" = 1'-0"
TOILET ROOM/VESTIBULE SHARED WALL
7eh29-01.09
BOTTOM OF DECKING/ ROOF SHEATHING
FIRE STOPPING
METAL TOP TRACK PER 1B/A-9.2
CEILING WHERE OCCURS SEE CEILING PLANS
5/8" TYPE X GYP. BD., BOTH SIDES PER FINISH SCHEDULE
6" X 16 GA. METAL STUDS @ 16" O.C.
ACOUSTICAL INSULATION
CERAMIC TILE WAINSCOT OVER 1/2" CEMENTITIOUS BACKER BOARD PER FINISH SCHEDULE
16 GA. STEEL BOTTOM TRACK
6" HI CONC CURB SEE DETAIL 2A
CEILING
PLAN
FLOOR
ONE-HOUR INTERIOR WALL
4
1" = 1'-0"
UL-U-419

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KEYNOTES

FOR METAL STUD DETAILS SEE SHEET A9.2

GENERAL NOTES

1. ALL WALLS SHALL EXTEND TO UNDERSIDE OF DECK UNO.
2. PATCH AND PAINT EXISTING WALLS @ REMOVALS TO MATCH ADJACENT SURFACES.

KEY PLAN

SEAL | AGENCY REVIEW

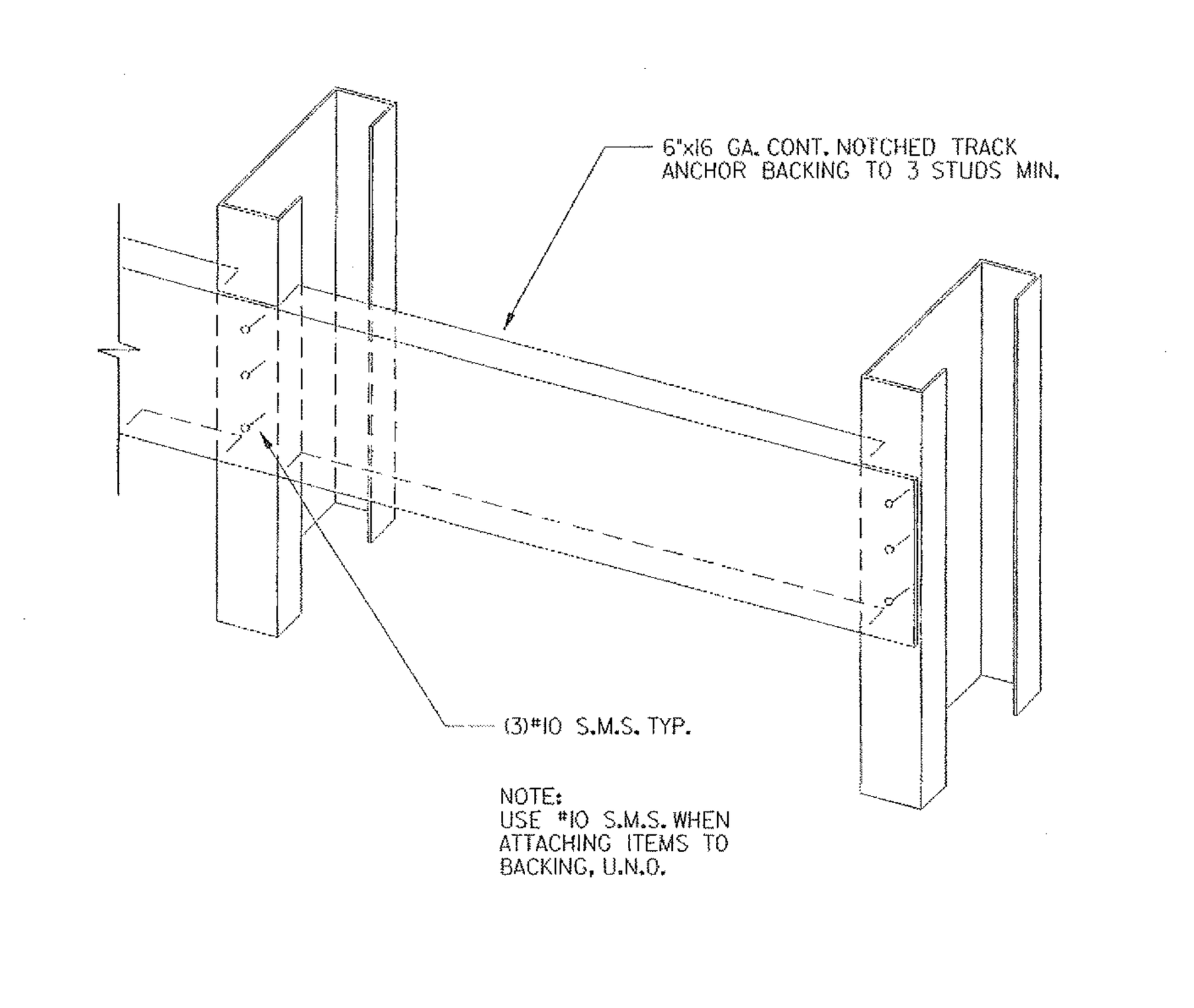
LICENSED ARCHITECT JAY R. TITTLE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1-113596
AC FLS SS
DATE 3-29-2011

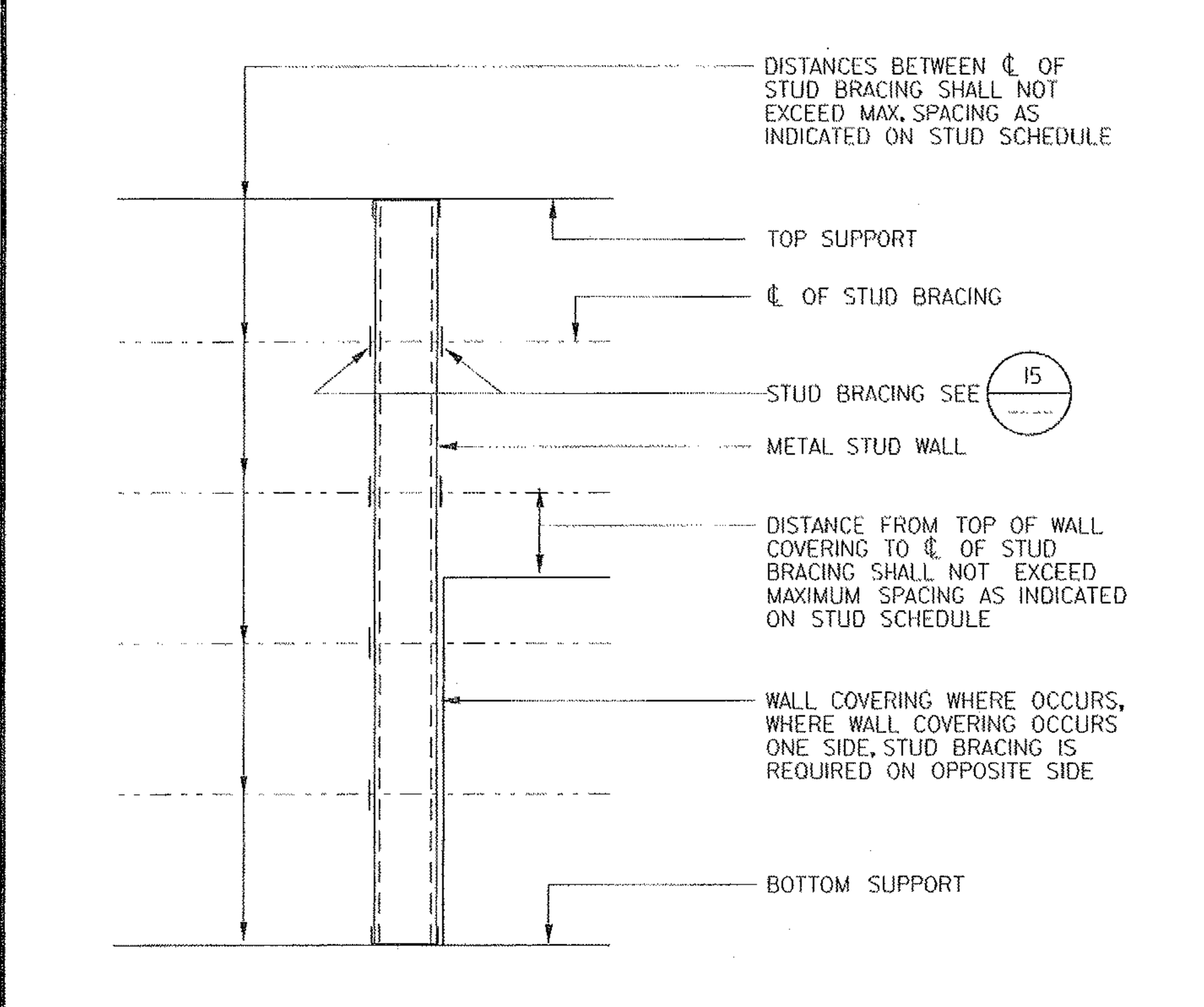
PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
WALL TYPES AND DETAILS

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			GC/GG	2007-5429.01
			CHECKED BY	©DATE
				3-29-2011
			DRAWING NO.	A9.1
			SHEET	OF



BACKING AT METAL STUDS (17)
NO SCALE



WALL STUD BRACING LOCATION (13)
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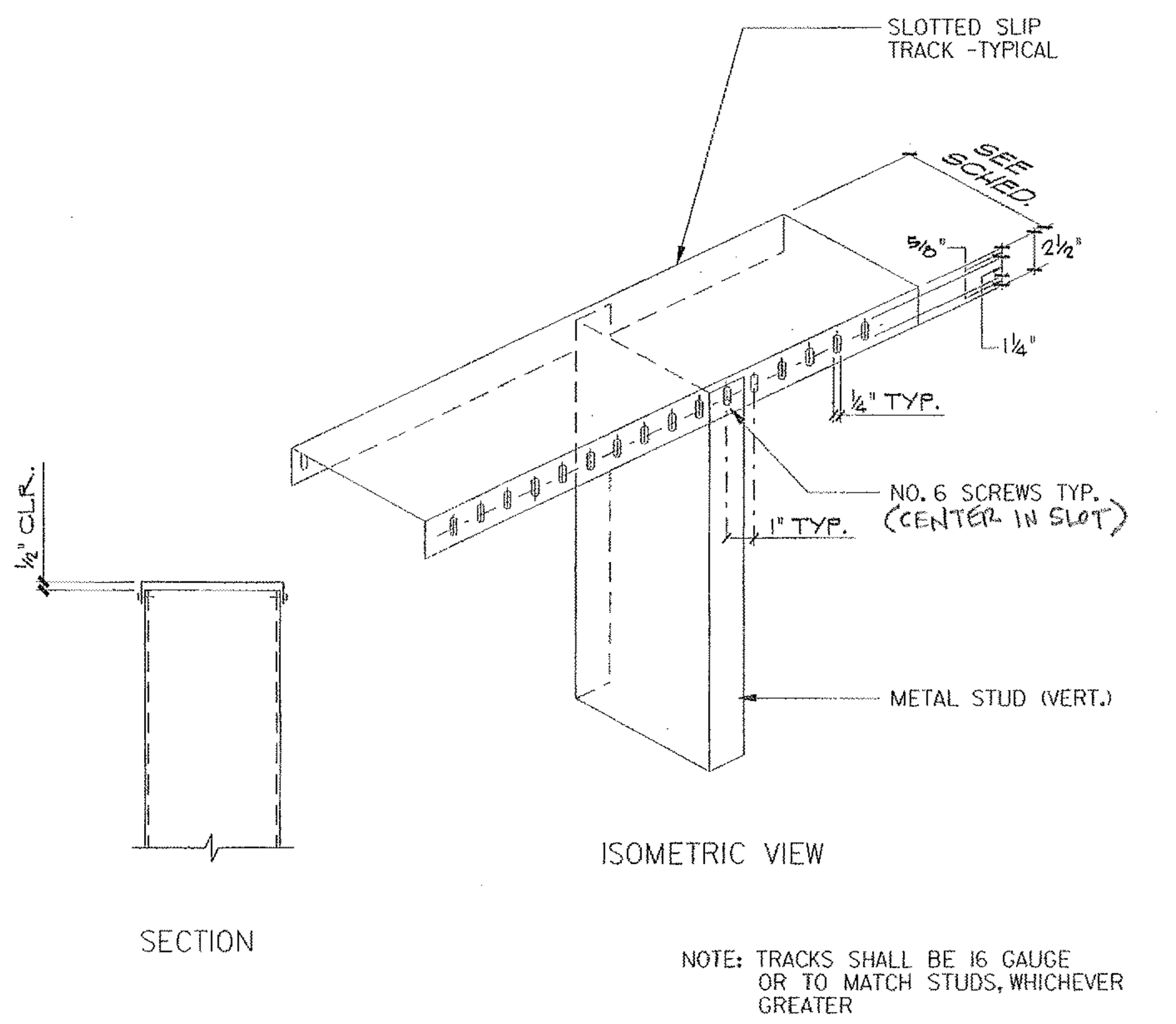
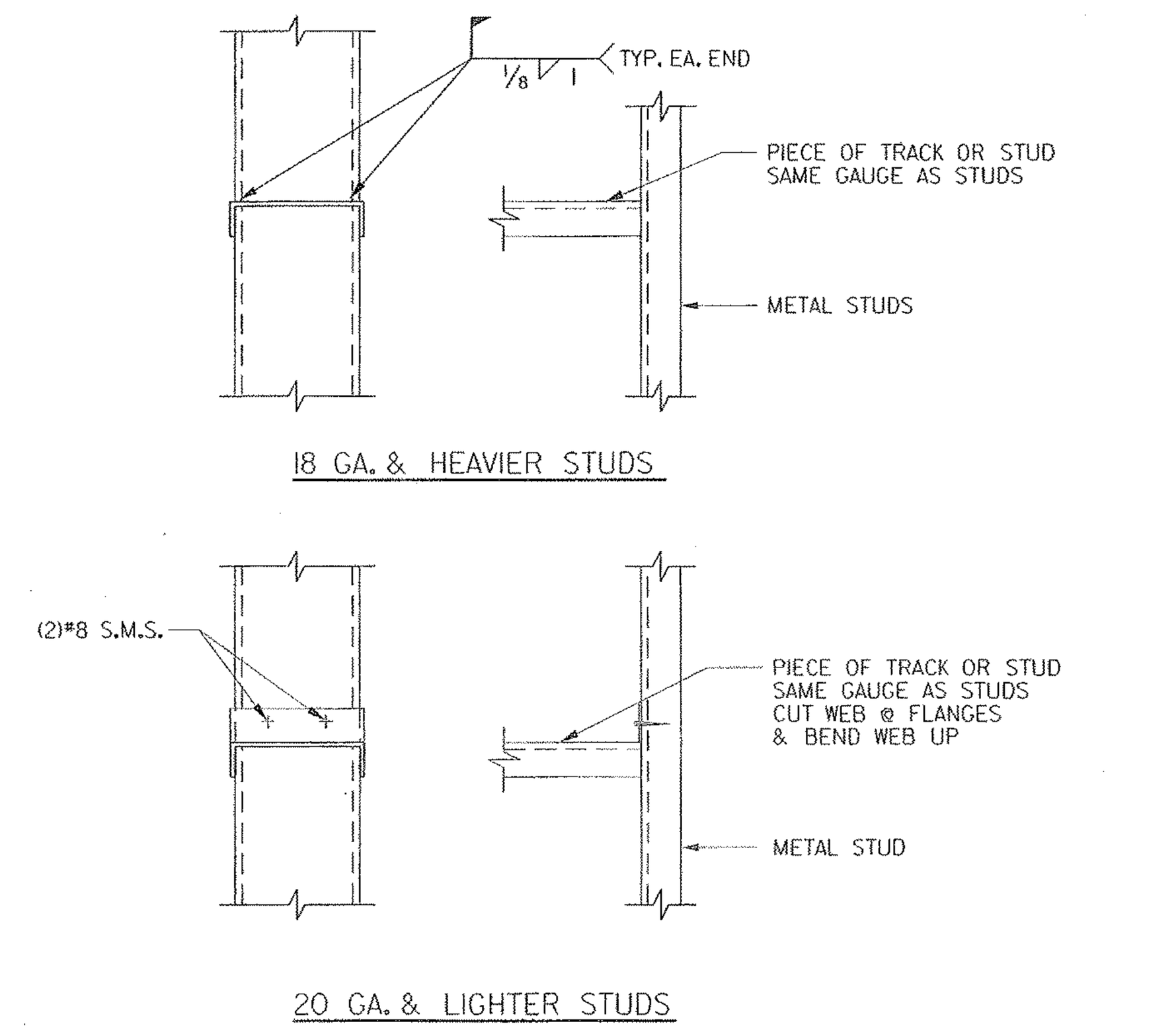
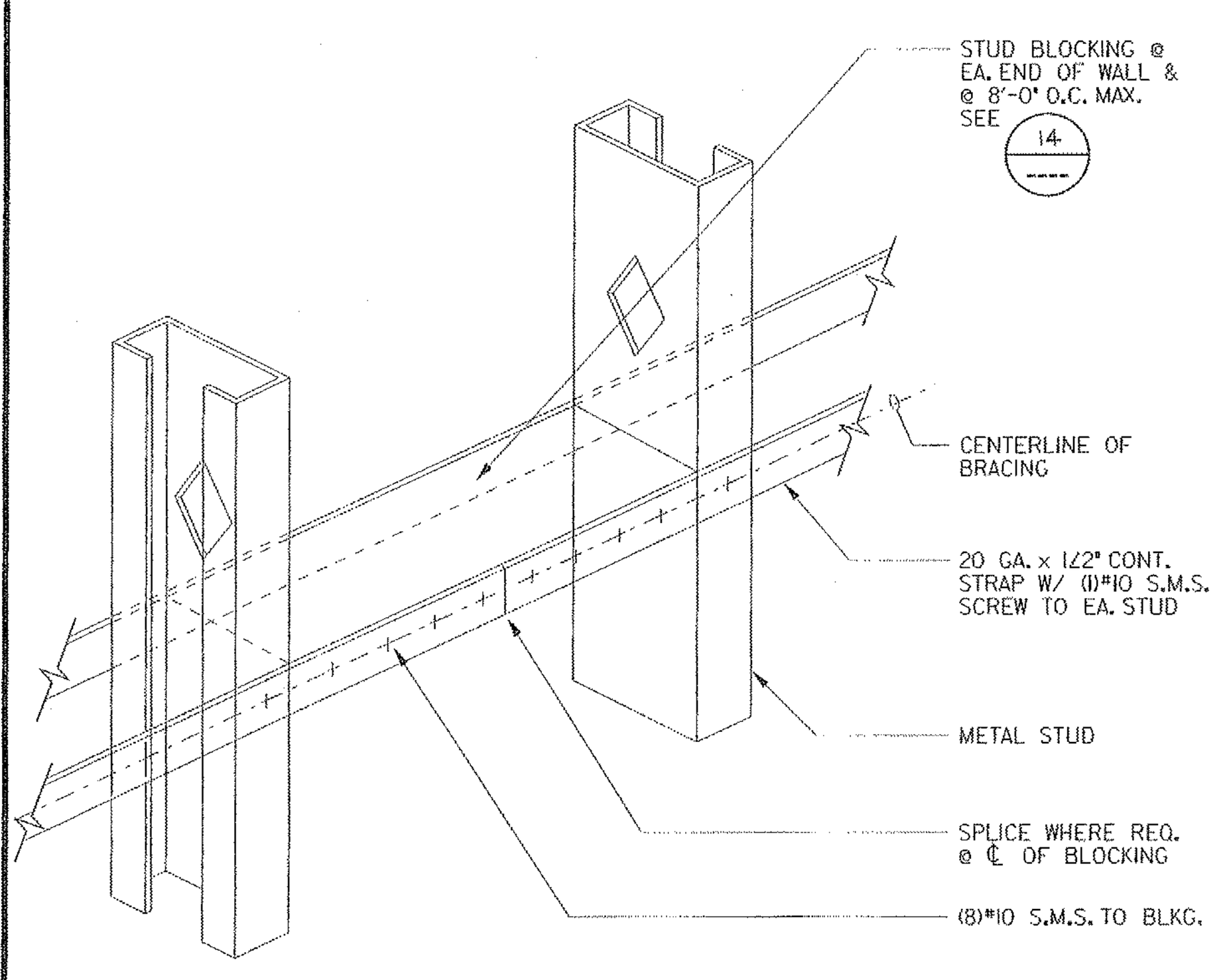


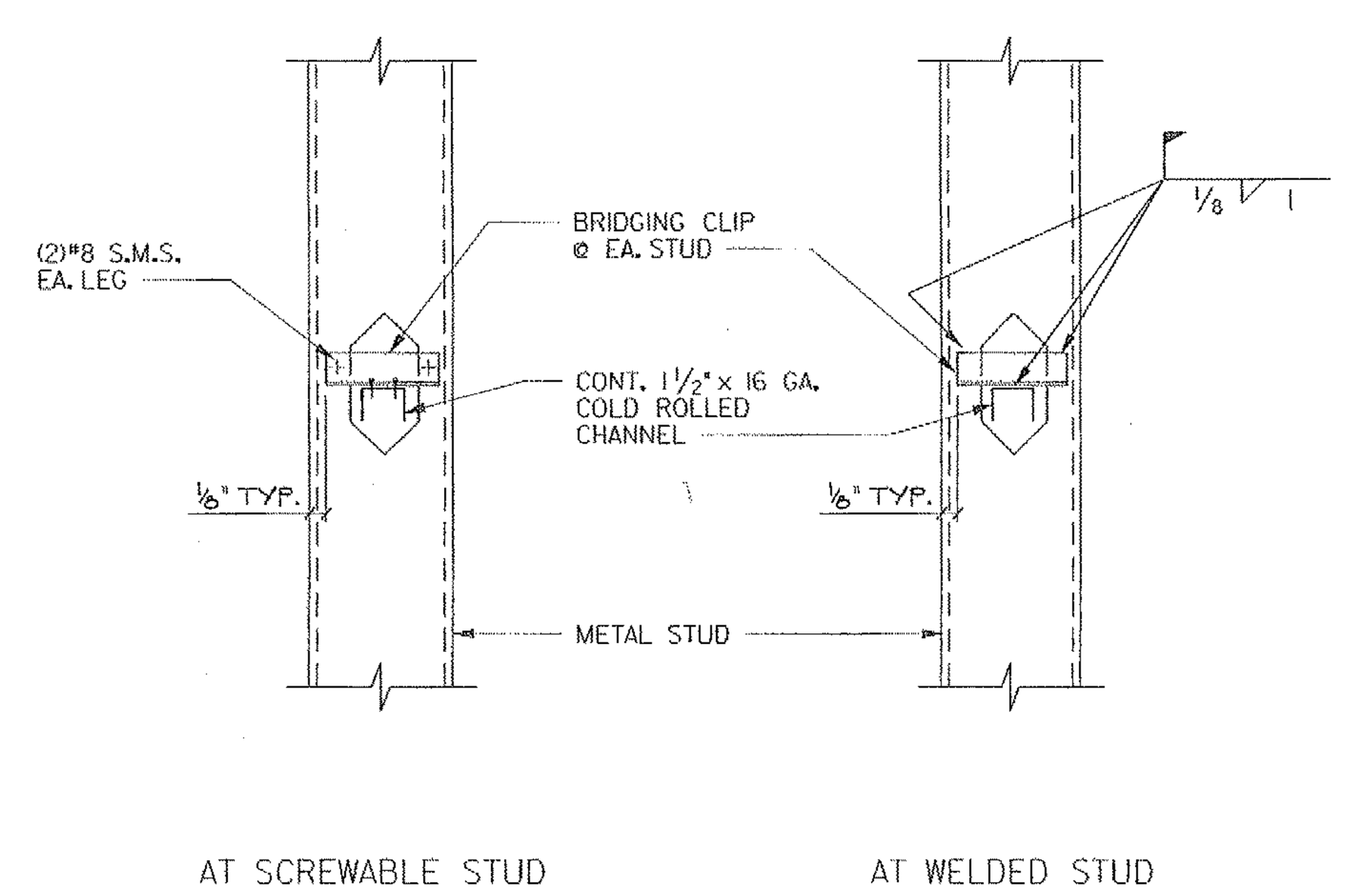
METAL STUD TOP TRACK (18)
NO SCALE



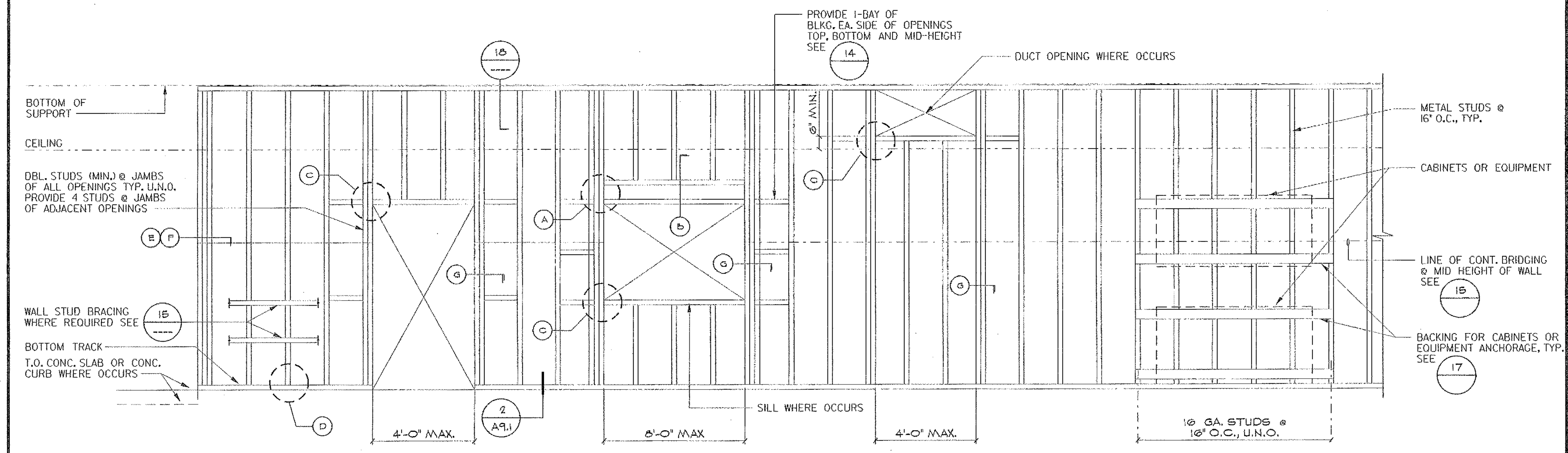
METAL STUD BLOCKING (14)
NO SCALE



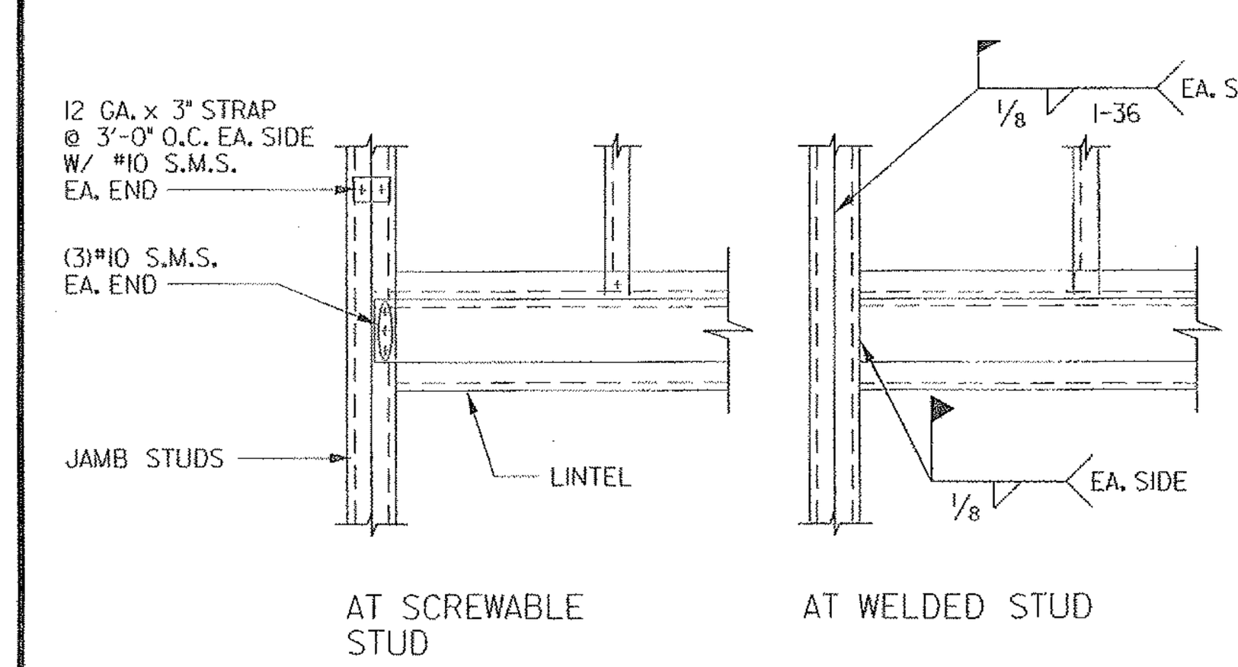
METAL STUD BRACING (15)
NO SCALE



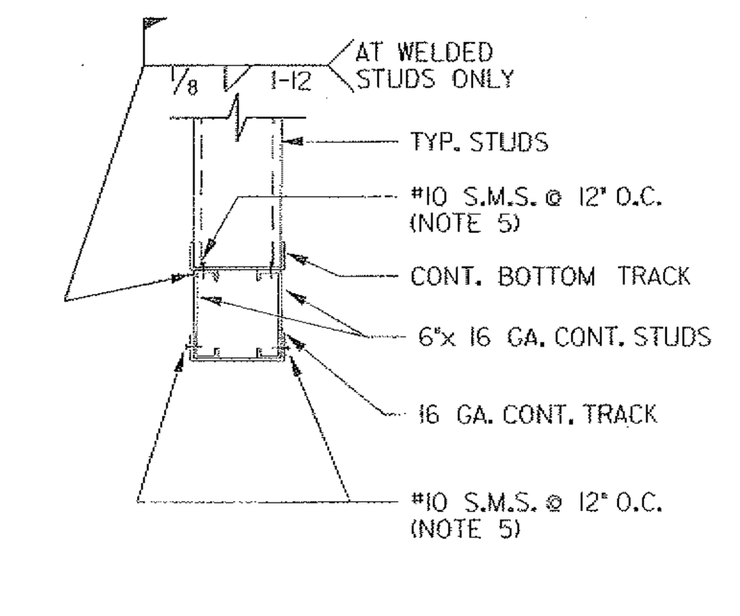
METAL STUD BRIDGING (16)
NO SCALE



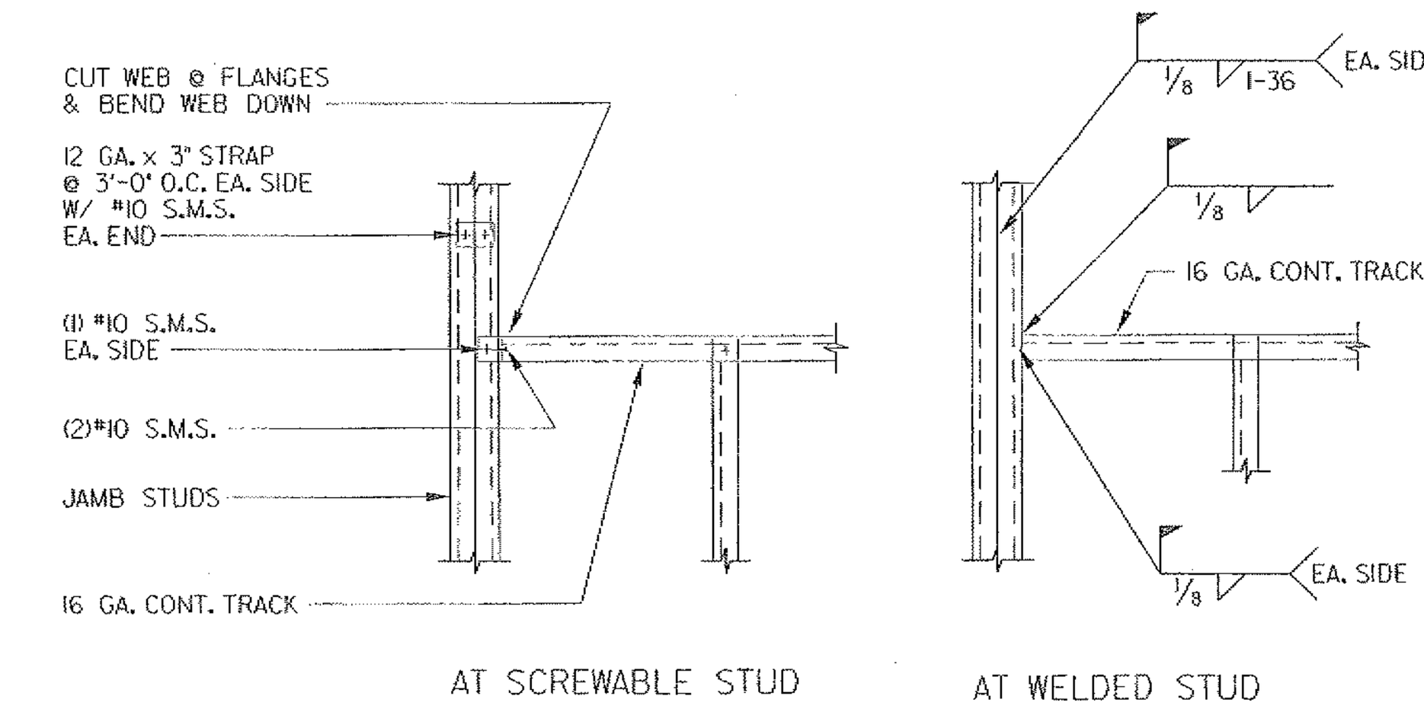
INTERIOR METAL STUD WALL ELEVATION - FULL HEIGHT



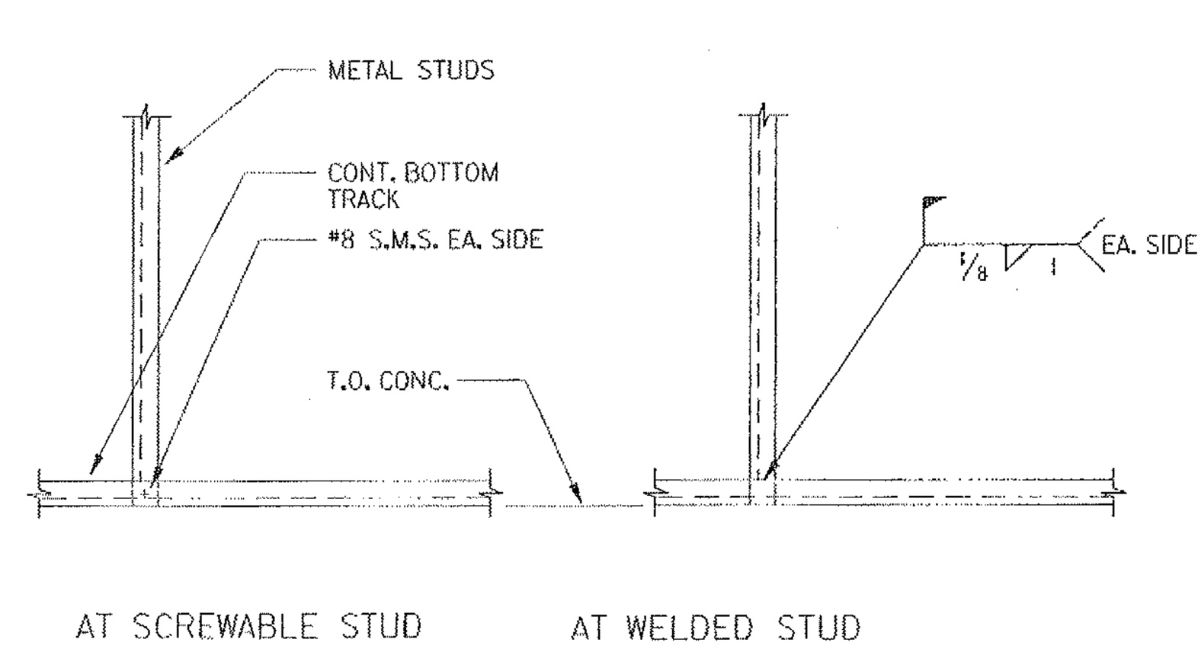
LINTEL TO JAMB (A)



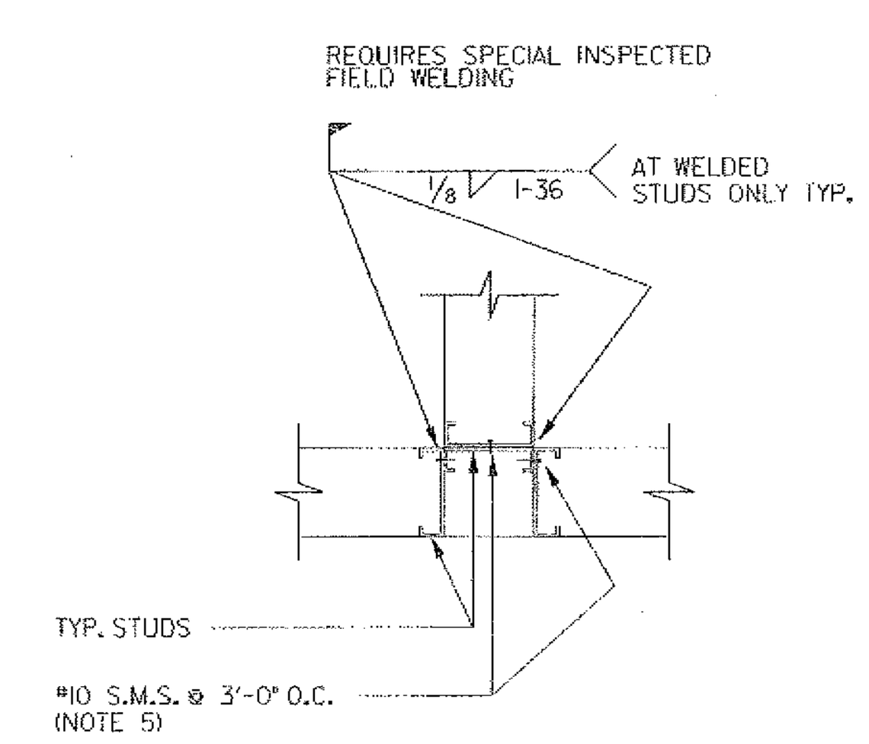
LINTEL SECTION (B)



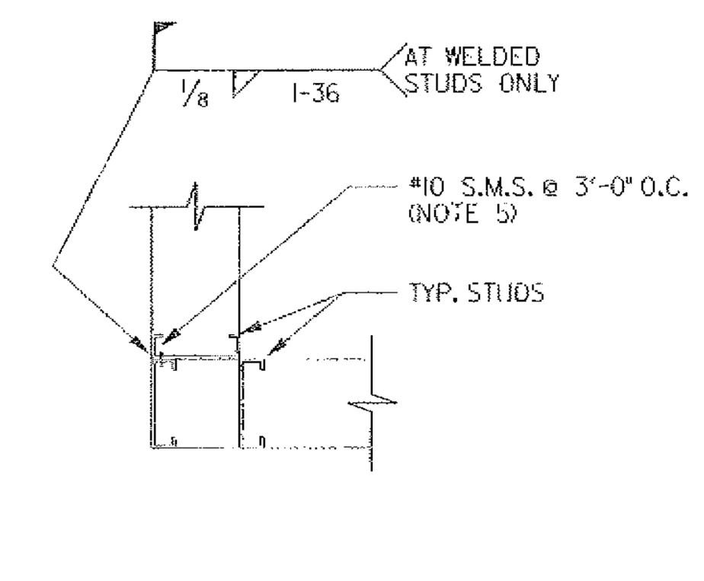
TRACK TO JAMB (C)



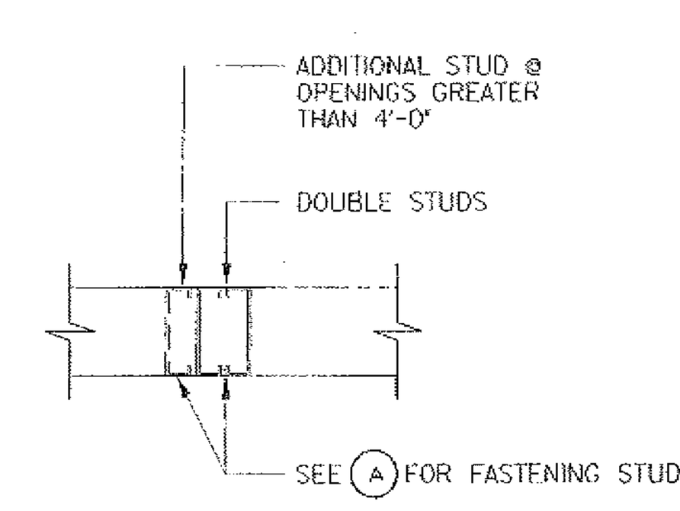
STUD TO TRACK (D)



TYP. INTERSECTION (E)



TYPICAL CORNER (F)



MULTIPLE STUDS (G)

TRACK SCHEDULE - TYPE "T"

	DEPTH	GAUGE	SSMA NUMBER	B	AREA (IN.²)	I (IN.⁴)	S (IN.³)	REMARKS
DEPTH I.D.	4"	20	400T125-33	1 1/4"	.225	.549	.265	
		18	400T125-43	1 1/4"	.293	.716	.344	
		16	400T125-54	1 1/4"	.367	.904	.431	
		~~16~~	~~400T200-54~~	~~2"~~	~~.452~~	~~1.268~~	~~.604~~	~~DEEP LEG~~
	6"	20	600T125-33	1 1/4"	.294	1.428	.465	
		18	600T125-43	1 1/4"	.383	1.861	.604	
		16	600T125-54	1 1/4"	.480	2.344	.756	
		~~16~~	~~600T200-54~~	~~2"~~	~~.565~~	~~3.145~~	~~1.015~~	~~DEEP LEG~~

STUD SCHEDULE - TYPE "S"

	DEPTH	GAUGE	SSMA NUMBER	B	AREA (IN.²)	I (IN.⁴)	S (IN.³)	MAX. SPACING OF STUD BRACING
DEPTH O.D.	4"	20	400S137-33	1 3/8"	.249	.603	.301	4'-0"
		18	400S137-43	1 3/8"	.323	.776	.388	4'-0"
		16	400S137-54	1 3/8"	.401	.953	.477	4'-0"
	6"	20	600S137-33	1 3/8"	.318	1.582	.527	4'-0"
		18	600S137-43	1 3/8"	.413	2.042	.681	4'-0"
		16	600S137-54	1 3/8"	.514	2.518	.839	4'-0"

NOTES:

1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE OF STUDS.
2. ALL TOP AND BOTTOM TRACKS SHALL BE SAME GAUGE AS STUDS, U.N.O.
3. ALL STUDS AT JAMBS OF DOOR AND WINDOW OPENINGS SHALL BE 16 GAUGE, U.N.O.
4. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, BY THE AMERICAN WELDING SOCIETY.
5. OMIT SHEET METAL SCREWS @ WELDED STUD CONDITIONS.
6. DIMENSIONS, PROPERTIES AND TYPES NOTED ARE BASED ON METAL STUDS AND TRACKS BY SSMA ICC ER-4943
7. ALL GALVINIZED 18 GA. AND LIGHTER MEMBERS SHALL CONFORM TO ASTM A-653 SS, GRADE 33, WITH A MINIMUM GRADE STRENGTH OFF 33 KSI
8. ALL GALVANIPED 16 GAGE AND HEAVIER MEMBERS SHALL CONFORM TO ASTM A-653 SS, GRADE 50 CLASS 1, WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

METAL STUD WALL FRAMING (4)

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KEYNOTES

KEY PLAN

SEAL
LICENSED ARCHITECT JAY R. TITTLE NO. C12855 REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 3 5 9 6
AC ___ FLS ___ SS ___
DATE 3-29-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
METAL STUD DETAILS

NO.	DATE	ISSUE	DRAWN BY	PROJECT NO.
			OC/GG	2007-SH29-01
			CHECKED BY	© DATE
				3-29-2011
			DRAWING NO.	A9.2
			SHEET	OF

USERNAME: ggalindo
FILE: K:\Pasadena_CC\2007-SH29-00\TS-29s002.dgn

GENERAL

1. THE PROJECT SPECIFICATIONS FORM A PART OF THESE GENERAL NOTES.
2. 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 ARE NOT LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. CONTRACTOR AT HIS OWN EXPENSE SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DESIGN BRACING, SHORING, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
3. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
4. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
5. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
6. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
7. SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
8. ALL WORK SHALL BE PERFORMED SO AS TO COMPLY WITH ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE), 2007 EDITION.
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA BUILDING CODE), 2007 EDITION.
   - OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
   - THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
   - THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

DEMOLITION

1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
2. ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
4. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

CONCRETE

1. ALL PORTIONS OF WORK PERTAINING TO CONCRETE CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.
2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. MIX DESIGNS SHALL CONFORM TO SEC. 1905A.2. MIX DESIGNS SHALL INCORPORATE THE FOLLOWING CRITERIA:
   - MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. MAXIMUM OF 7 SACKS OF CEMENT PER YARD OF CONCRETE.
   - MAXIMUM WATER/CEMENT RATIO (BY WEIGHT) OF CONCRETE IN CONTACT WITH SOIL SHALL BE 0.45.
   - MAXIMUM SLUMP SHALL NOT EXCEED 3" ± 1" FOR FOOTINGS, SLABS ON GRADE, AND MASS CONCRETE; AND 4" ± 1" FOR OTHER CONCRETE. SLUMP LIMITATIONS NOTED SHALL APPLY TO CONCRETE MIX PRIOR TO THE ADDITION OF ANY WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS.
   - ADMIXTURES SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) PRIOR TO USE. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE(S) SHALL NOT BE USED.
3. SCHEDULE OF STRUCTURAL CONCRETE 28 DAY MINIMUM STRENGTHS AND TYPES:
   - ELSEWHERE UNLESS NOTED — 145 PCF, f'c = 3000 PSI
4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. CEMENT USED FOR CONCRETE IN CONTACT WITH SOIL SHALL CONFORM TO ASTM C-150, TYPE V.
5. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ASTM C-33. COMBINED AGGREGATE GRADATION OF ⅜" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED.
6. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-94.
7. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
8. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
9. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"

   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 THROUGH #18 BARS ..... 2"
   #5 BARS, W31 OR D31 WIRE, AND SMALLER ..... 1½"

   CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   SLABS, WALLS, JOISTS:
   #14 AND #18 BARS ..... 1½"
   #11 BAR AND SMALLER ..... ¾"
   BEAMS, COLUMNS:
   PRIMARY REINFORCEMENT STIRRUPS, TIES, SPIRALS ..... 1½"

REINFORCING STEEL

1. ALL PORTIONS OF WORK PERTAINING TO FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A, SECTION 1907A.
2. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40.
3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. ALL #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT.
4. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.

COLD-FORMED STEEL FRAMING

1. ALL PORTIONS OF WORK PERTAINING TO COLD-FORMED STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A.
2. ALL LIGHT GAUGE METAL FRAMING SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A-653 SS, GRADE 50, CLASS 1, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 16 GAUGE AND HEAVIER FRAMING, AND ASTM A-653 SS, GRADE 33, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 GAUGE AND LIGHTER FRAMING.
3. DIMENSIONS, PROPERTIES AND TYPES NOTED ARE BASED ON METAL STUDS AND TRACKS BY STEEL STUD MANUFACTURERS ASSOCIATION, ICC NO. ER-4943, UNLESS NOTED OTHERWISE.
4. ALL STUDS AT JAMBS OF DOOR AND WINDOW OPENINGS SHALL BE 16 GAUGE, UNLESS NOTED OTHERWISE.
5. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3, BY THE AMERICAN WELDING SOCIETY.
6. ALL SHEET METAL SCREWS SHALL PROTRUDE 3 EXPOSED THREADS MINIMUM THROUGH BASE METAL FRAMING.
7. ALL METAL STUDS SHALL HAVE STIFFENED FLANGES.
8. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE AND GAUGE OF STUDS.

ANCHORS AND/OR DOWELS INSTALLED WITH ADHESIVE

1. ANCHORS AND/OR DOWELS SHALL BE INSTALLED WITH ADHESIVE ONLY WHERE INDICATED ON DRAWINGS.
2. ANCHORS AND/OR DOWELS SHALL BE INSTALLED IN CONCRETE USING ONE OF THE FOLLOWING PRODUCTS IN ACCORDANCE WITH THE APPLICABLE ICC REPORT:
   - HILTI HIT-RE 500-SD ADHESIVE — ICC NO. ESR-2322
   - SIMPSON SET-XP ADHESIVE — ICC NO. ESR-2508
3. ADHESIVE SYSTEMS OTHER THAT THOSE SPECIFIED SHALL BE SUBMITTED AS A SUBSTITUTION, AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE ENFORCEMENT AGENCY, THE ARCHITECT, AND THE STRUCTURAL ENGINEER.
4. HOLES SHALL BE DRILLED WITH NON-REBAR-CUTTING DRILL BITS.
5. HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING A NYLON BRUSH AND OIL-FREE COMPRESSED AIR. HOLES SHALL ALSO BE FREE OF STANDING WATER.
6. PROJECT INSPECTOR SHALL VERIFY INSTALLATION OF ANCHORS OR DOWELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INCLUDING CLEANLINESS OF DRILL HOLES AND PROPER EMBEDMENT.
7. ANCHORS SET IN CONCRETE SHALL BE TESTED TO 2 TIMES THE ICC ALLOWABLE TENSION LOAD, OR 80% OF THE YIELD STRENGTH OF THE BOLT, WHICHEVER IS LESS. TORQUE TESTING IS NOT PERMITTED.

POWDER DRIVEN CONCRETE FASTENERS

1. THE USE OF POWDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS, SUCH AS ACOUSTICAL CEILINGS, DUCTWORK, CONDUIT, ETC. POWDER DRIVEN CONCRETE FASTENERS MAY NOT BE USED IN CURBS.
2. ALLOWABLE TENSION LOADS SHALL BE LIMITED TO 100 POUNDS, OR 80% OF ICC APPROVED VALUES, WHICHEVER IS LESS. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
3. THE OPERATOR, TOOL, AND FASTENERS SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST TEN FASTENER INSTALLATIONS. A "PULL-OUT" TEST LOAD OF 200 LBS. SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS, UNDER THE PROJECT INSPECTOR'S SUPERVISION, SHALL BE MADE OF APPROXIMATELY ONE IN TEN PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
4. FASTENERS SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE INTO WHICH THE FASTENERS ARE INSTALLED.
5. POWDER DRIVEN CONCRETE FASTENERS ARE NOT PERMITTED IN PRESTRESSED CONCRETE MEMBERS.
6. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGE TO THE REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND DRILLED-IN ANCHOR AND/OR PIN.

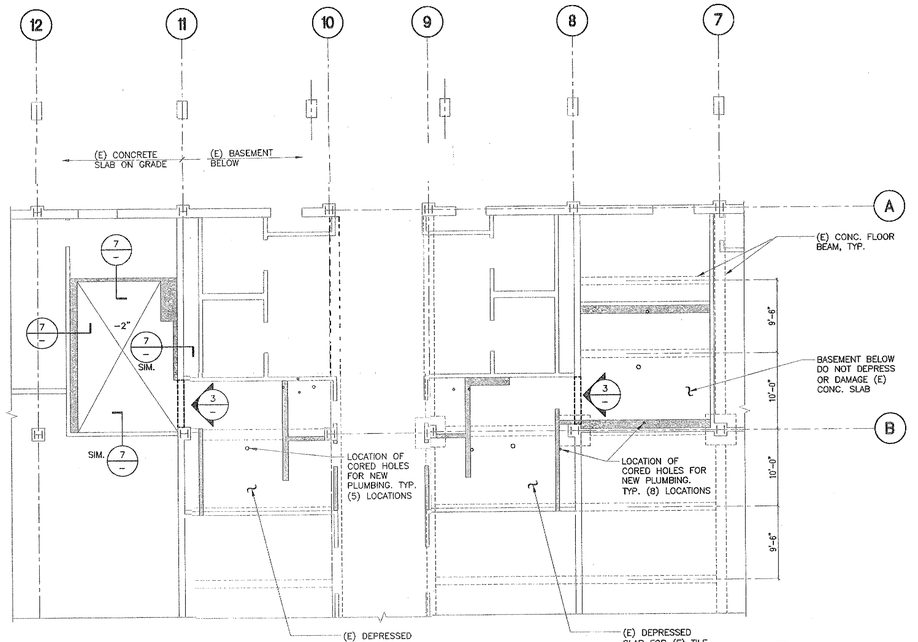
TESTING AND INSPECTION REQUIREMENTS

1. TESTS AND INSPECTIONS SHALL BE PERFORMED BY A TESTING LABORATORY AND/OR JOB SITE INSPECTOR WHO HAS BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), THE ARCHITECT, AND THE STRUCTURAL ENGINEER.
2. CONCRETE - CHAPTER 19A

MATERIALS		
PORTLAND CEMENT TESTS	–	1704A.4.1, 1916A.1
CONCRETE AGGREGATES	–	1704A.4.1, 1903A.3
REINFORCING BAR TESTS	–	1704A.4.1, 1903A.4, 1916A.2
WAIVER OF MATERIAL TESTING (REINFORCING BARS)	–	1916A.4
ADMIXTURES	–	1903A, 1903A.5
CONCRETE QUALITY		
PROPORTIONS OF CONCRETE	–	1904A, 1905A.1, 1905A.2 1905A.3, 1905A.4, 1905A.5
STRENGTH TESTS	–	1905A.1.1, 1905A.6
CONCRETE INSPECTION		
JOB SITE INSPECTION	–	1704A.4.6, 1704A.7, 1905A.7
BATCH PLANT INSPECTION	–	1704A.4.3
WAIVER OF BATCH PLANT INSPECTION	–	1704A.4.4
DRILLED-IN EXPANSION BOLTS	–	1916A.8
EPOXY-TYPE ANCHORS	–	1916A.8

3. STEEL - CHAPTER 22A

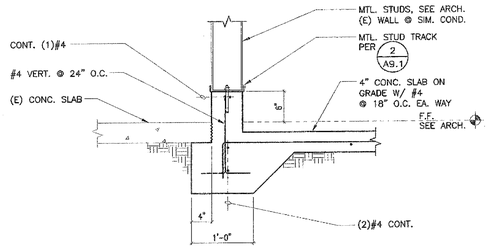
MATERIALS		
STRUCTURAL STEEL & COLD FORMED STEEL	–	2209A.1, 2212A.1
MATERIAL IDENTIFICATION	–	2203A.1
STEEL INSPECTION		
WELDING INSPECTION	–	1704A.3.1



NOTE: : INDICATES NEW CONC. CURB PER DETAIL 2/A9.1. SEE ARCH. FOR SIZE AND LOCATIONS OF PARTITIONS.

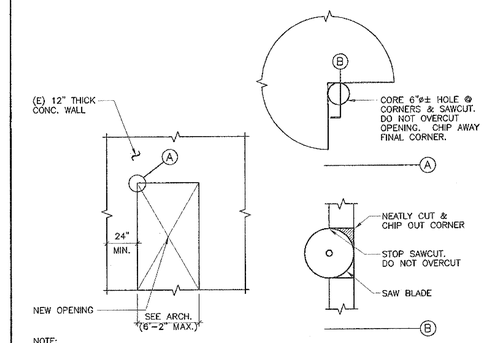
SCALE: ⅛"=1'-0"

PARTIAL 1ST FLOOR PLAN — 2



PCC-002 SCALE: 1"=1'-0"

DETAIL — 7



NOTE:
NO CHIPPING IF HYDRAULIC CHAIN SAW USED.

PCC-001 SCALE: NO SCALE

SAWCUT DETAIL — 3

8 4

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KNA JOB NO: 101620

SEAL — AGENCY REVIEW

FILE #01-C5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-113596
AC — FLS — SS
DATE 3-29-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
GENERAL NOTES
PLAN AND DETAILS

NO.	DATE	ISSUE

DRAWN BY: NP — PROJECT NO.: 2007-SH29-00
CHECKED BY: JS — DATE: 03/29/11
DRAWING NO.: S1
SHEET OF

GENERAL REQUIREMENTS

1. A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATIONS.

2. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH AND WORKMAN-LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.

3. MATERIALS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.

4. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUB-MISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS & EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

5. CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT.

6. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCTS, PIPES, CONDUIT, ETC.

7. INSULATION SHALL BE U.L. LISTED IN COMPLIANCE WITH FLAME-SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50, PER THE CALIFORNIA MECHANICAL CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA ENERGY COMMISSION AND CMC REQUIREMENTS.

8. CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.

9. BALANCING AND ADJUSTING: ALL WATER SYSTEMS SHALL BE ADJUSTED BY AN INDEPENDENT BALANCING CONTRACTOR THAT IS A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC). SUBMIT BALANCE REPORT TO OWNER PRIOR TO RECEIVING FINAL PAYMENT.

10. COORDINATE LOCATIONS OF ALL ROOF WALL OPENINGS WITH ALL RELEVANT TRADES, AND PROVIDE WATERTIGHT FLASHINGS WHEREVER PENETRATIONS OCCUR. EXACT LOCATIONS AND SIZES MAY BE DEPENDENT UPON EQUIPMENT SELECTIONS; COORDINATE SIZES AND LOCATIONS OF ALL OPENINGS WITH APPROPRIATE EQUIPMENT REQUIREMENTS.

11. PERMANENT ACCESS TO EQUIPMENT SHALL BE PROVIDED, AND A MINIMUM OF 30" CLEAR WORKING SPACE IN FRONT OF ACCESS PANELS TO THE EQUIPMENT SHALL BE PROVIDED.

12. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

13. GAS-FIRED EQUIPMENT SHALL BE EQUIPPED WITH A PILOTLESS ELECTRONIC INTERMITTENT IGNITION SYSTEM. GAS FIRED BOILER AND GAS FIRED AC UNITS SHALL MEET ALL SQAMD LO-NOX REQUIREMENTS.

14. EACH PIECE OF EQUIPMENT AND ALL SYSTEMS SHALL BE ADJUSTED AND RE-ADJUSTED TO INSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, ADEQUACY OF FLOWS AND CAPACITIES, ELIMINATION OF NOISE AND VIBRATION, AND SHALL BE LEFT IN PROPER OPERATING CONDITION.

15. AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED AND LISTED TYPE. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN IN THE STATE FIRE MARSHAL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

16. VOLUME DAMPERS SHALL BE PROVIDE IN EACH BRANCH DUCT SERVING EACH REGISTER OR DIFFUSER (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).

HVAC SYMBOL AND ABBREVIATIONS

	SUPPLY AIR DUCT	
	RETURN, TRANSFER,EXHAUST OR BY-PASS AIR DUCT	
OR	SUPPLY AIR DIFFUSER (4 WAY OR 2 WAY THROW)	S.A
	RETURN AIR REGISTER	R.A.
	TRANSFER AIR REGISTER	T.A.
	EXHAUST AIR REGISTER	E.A
(T)	AC UNIT THERMOSTAT	
	VOLUME DAMPER	V.D.
U/C	UNDER CUT DOOR	
D.L.	DOOR LOUVER	
(DD)	DUCT TYPE SMOKE DETECTOR	
	DUCT TRANSITION	
O.A	OUTSIDE AIR	
C.D.	CEILING DIFFUSER	
F.P.	FILLER PANEL	
R.C.G.	RETURN CEILING GRILLE	
R.C.R.	RETURN CEILING REGISTER	
T.C.G.	TRANSFER CEILING GRILLE	
E.C.G.	EXHAUST CEILING GRILLE	
E.C.R.	EXHAUST CEILING REGISTER	
S.W.G.	SUPPLY WALL GRILLE	
S.W.R.	SUPPLY WALL REGISTER	
R.W.G.	RETURN WALL GRILLE	
R.W.R.	RETURN WALL REGISTER	
T.W.G.	TRANSFER WALL GRILLE	
E.W.G.	EXHAUST WALL GRILLE	
E.W.R.	EXHAUST WALL REGISTER	
F.L.F.D.	FUSIBLE LINK FIRE DAMPER	
A.P.	ACCESS PANEL	
U.L.A.P.	U.L. LISTED ACCESS PANEL	
A.C.	AIR CONDITIONING UNIT	
R.E.F.	ROOF EXHAUST FAN	
C.E.F.	CEILING EXHAUST FAN	
I.E.F	IN-LINE EXHAUST FAN	
P.O.C.	POINT OF CONNECTION	
A.F.F.	ABOVE FINISHED FLOOR	
A	FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL DIVISION OF THE SPECIFICATIONS.	
E	FURNISHED AND INSTALLED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.	
S	FURNISHED AND INSTALLED UNDER THE STRUCTURAL DIVISION OF THE SPECIFICATIONS.	
C.S.F.D.	COMBINATION SMOKE/FIRE DAMPER	
OR	INTERNALLY LINED DUCTWORK	
(CO_2)	CARBON DIOXIDE SENSOR	
OR	S.A. OR R.A. DUCT DROPS	
	E.A. DUCT DROP	

AIR DISTRIBUTION SCHEDULE

MARK	MAKE	MODEL	CFM MIN	CFM MAX	STYLE	USE	NECK SIZE (IN)	FACE SIZE (IN)	MAX PD (IN)	MAX NC	REMARKS
CD-1	KRUEGER	6200	0	250	PERFORATED	EA	8 X 8	16 X 16	.08	24	
CD-2	KRUEGER	6200	0	380	PERFORATED	EA	10 X 10	16 X 16	.08	24	
E-1	KRUEGER	6490	0	300	PERFORATED	EA	10 X 10	12 X 12	.08	20	
TG-1	KRUEGER	6490	0	750	PERFORATED	EA	10 X 10	12 X 12	.08	20	

DSA NOTES

1. UNLESS SPECIFIED ON STRUCTURAL / ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, SAWCUTTING, BRACING, WELDING ETC. THROUGH NEW OR EXISTING STRUCTURE ELEMENTS TO BE DONE ONLY WHEN SO DETAILS IN DRAWINGS, OR SHALL HAVE WRITTEN APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD WITH THE APPROVAL OF DSA REFRESENTATIVE PRIOR START WORK.

2. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2007 CBC SECTION 1614A.1.13 AND TABLE 16A-0, ASCE 7-05 SECTIONS 13.3, 13.4, 13.6, CHAPTER 6, AND TABLE 13.6-1.

3. ALL PLUMBING LINES SHALL BE LOCATED 12 INCHES MINIMUM AWAY FROM STRUCTURAL HOLD DOWN BOLTS, AND SHALL NOT PENETRATE THROUGH SHEAR WALL SILL PLATES.

4. ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

5. ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2007 CALIFORNIA CODE OF REGULATIONS (CCR), 2007 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR, 2007 CALIFORNIA PLUMBING CODE, AND 2007 CALIFORNIA BUILDING CODE.

MECHANICAL EQUIPMENT BRACING AND ANCHORAGE:

ALL MECHANICAL PIPING, CONDUITS AND DUCTS SUPPORT AND BRACING SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEM PUBLISHED BY SMACNA AND APPROVED BY DSA.

WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, THE MECHANICAL ENGINEER AND THE DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

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KEYNOTES

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KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. 12955 REN. 11-30-09 STATE OF CALIFORNIA

LICENSED ARCHITECT JAY R. TITTLE No. C 12955 Ren. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

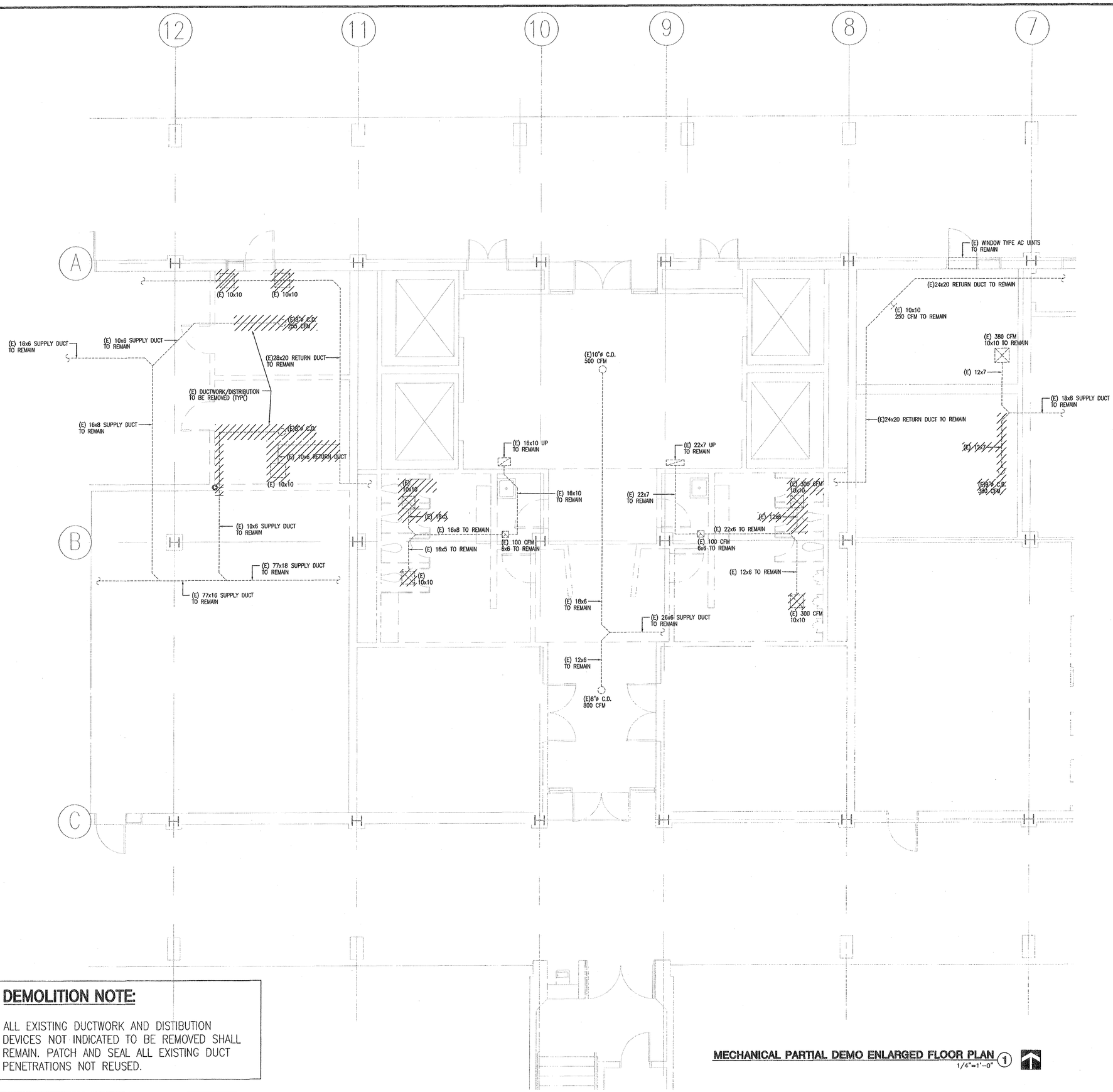
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 3 5 9 6
AC ___ FLS SU SS LL
DATE 3-29-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
MECHANICAL GEN. NOTES, LEGENDS AND SCHEDULES

NO.	DATE	ISSUE
	3-29-11	DSA CORR.

DRAWN BY: CAD
PROJECT NO.: 2007-SH29-00
CHECKED BY: B.E.S.
©DATE: 6-14-10
DRAWING NO.: M0.1
SHEET OF



DEMOLITION NOTE:

ALL EXISTING DUCTWORK AND DISTIBUTION DEVICES NOT INDICATED TO BE REMOVED SHALL REMAIN. PATCH AND SEAL ALL EXISTING DUCT PENETRATIONS NOT REUSED.

MECHANICAL PARTIAL DEMO ENLARGED FLOOR PLAN (1)
1/4"=1'-0"

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KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE No. 12955 REN: 11-30-09 STATE OF CALIFORNIA

AGENCY REVIEW

LICENSED ARCHITECT JAY R. TITTLE No. 12955 Rene 11-30-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03 113596
FLS SC SS M
DATE 3-29-2011

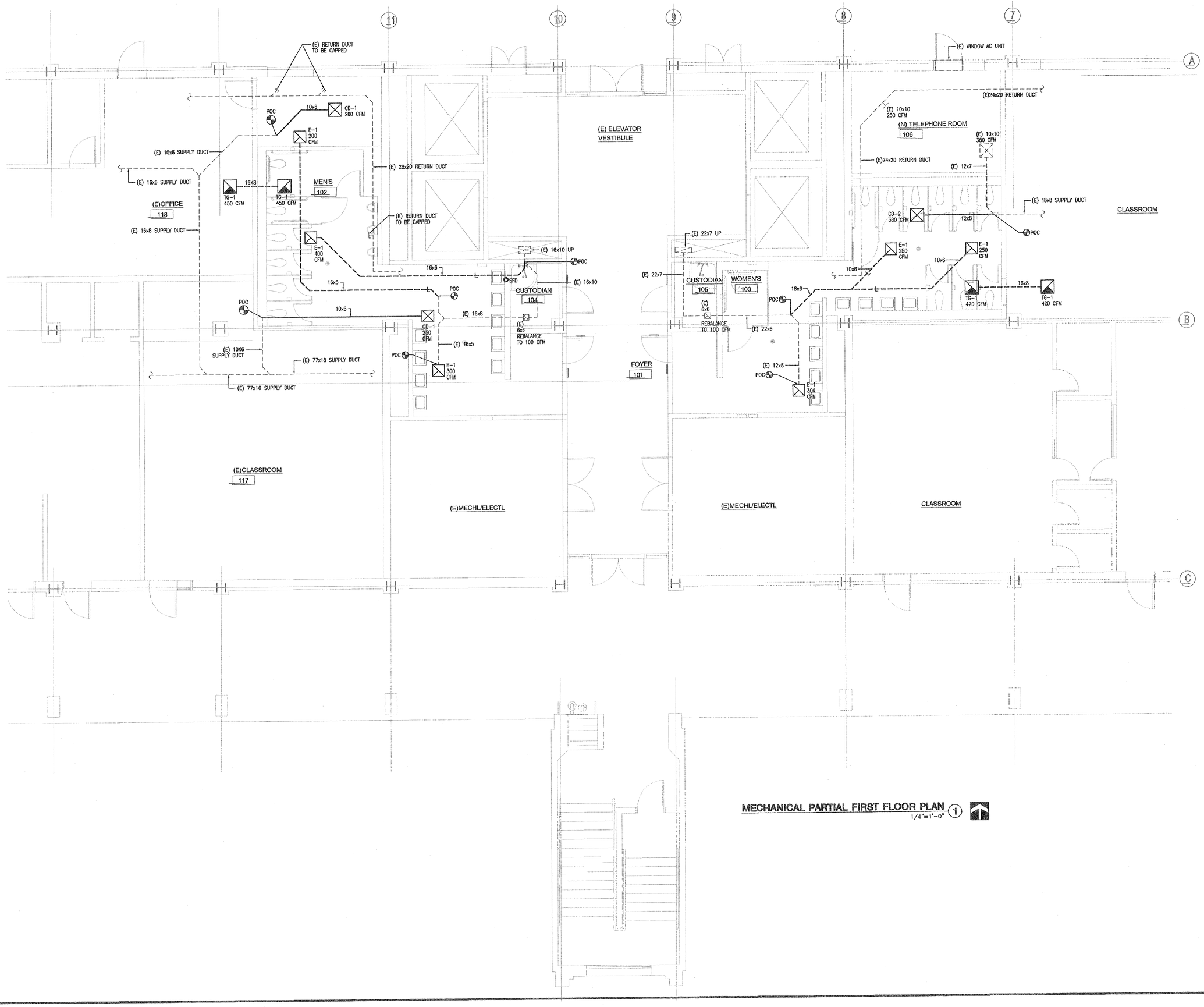
PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
MECHANICAL PARTIAL DEMO ENLARGED FLOOR PLAN

NO.	DATE	ISSUE
—	3-29-11	DSA CORR.

DRAWN BY	PROJECT NO.
CAD	2007-SH29-00
CHECKED BY	©DATE
B.E.S.	6-14-10

DRAWING NO.
M2.1
SHEET . OF .



MECHANICAL PARTIAL FIRST FLOOR PLAN (1)

1/4"=1'-0"

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KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE No. 12955 REN. 11-30-09 STATE OF CALIFORNIA

AGENCY REVIEW

LICENSED ARCHITECT JAY R. TITTLE No. C-12955 Renew 11-30-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 1 1 3 5 9 6
AC FLS SS
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

MECHANICAL PARTIAL FIRST FLOOR PLAN

NO.	DATE	ISSUE
---	3-29-11	DSA CORR.

DRAWN BY: CAD
CHECKED BY: B.E.S.
PROJECT NO.: 2007-SM29-00
©DATE: 6-14-10
DRAWING NO.: M3.1
SHEET . OF .

PLUMBING REQUIREMENTS

1. SCOPE OF WORK:
   - A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
   - B. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
2. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH & WORKMANLIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.
3. MATERIALS: ALL MATERIALS, APPLIANCES AND EQUIPMENT, SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.
4. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDING FOR ANY OMISSIONS WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
5. CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS & INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT.
6. AS-BUILTS: CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT TRANSPARENCIES WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE AND PAYMENT.
7. GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIAL ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP & MATERIALS FOR A PERIOD OF ONE YEAR AFTER COMPLETION.
8. SUBMITTALS: CATALOG INFORMATION AND CUTS OF ALL EQUIPMENT AND DEVICES SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
9. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL PIPES, CONDUIT, ETC. LOCATION OF EXISTING PIPING SHOWN IS APPROXIMATE; CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO BEGINNING WORK OF THIS SECTION AND SHALL MAKE MODIFICATIONS AND ADJUSTMENTS REQUIRED TO INSTALL THE WORK OF THIS SECTION.
10. CUTTING AND PATCHING: ALL CUTTING AND PATCHING OF THE STRUCTURE (NEW OR EXISTING) SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE ALL NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
11. CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY.
12. PIPING:
   - A. CONDENSATE PIPING SHALL BE TYPE "M COPPER WITH WROUGHT COPPER FITTINGS & SOLDERED JOINTS.
   - B. WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT CAST IRON HUBLESS TYPE WITH GASKETS AND STAINLESS STEEL CLAMPS PER CISPI 310-85.
   - C. WATER PIPING SHALL BE TYPE 'L' COPPER HARD DRAWN WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE SOLDERED WITH 95-5 OR SILVER SOLDER.
13. HOT WATER PIPING AND HOT WATER RETURN PIPING SHALL BE INSULATED W/ 1"THICK MANVILLE "MICROLOK" 850 (R=4.0) FIBERGLASS PIPE INSULATION.
14. HORIZONTAL DRAINAGE PIPING SHALL BE RUN AT A UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT TOWARD THE POINT OF DISPOSAL. WHERE APPROVED BY THE LOCAL AUTHORITY, DRAINAGE PIPING 4" OR LARGER MAY BE RUN AT A UNIFORM SLOPE OF 1/8" PER FOOT.
15. CLEAN-OUTS SHALL BE INSTALLED AS PER SECTIONS 406 AND 1107 OF THE UNIFORM PLUMBING CODE.
16. PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THRU EXTERIOR WALLS, ROOF AND FLOORS.
17. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO STARTING WORK OF THIS SECTION. MAKE REQUIRED ADJUSTMENTS TO CONNECT TO EXISTING UTILITIES. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
18. BEFORE STARTING ANY WORK, THE CONTRACTOR FOR THIS SECTION OF THE WORK SHALL EXAMINE A COMPLETE SET OF DRAWINGS FOR ALL TRADES, INCLUDING ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING. DIMENSIONS, SPACE REQUIREMENTS, AND POINTS OF CONNECTION TO ALL EQUIPMENT AND FIXTURES SHALL BE VERIFIED, AND ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICT WITH THE BUILDING STRUCTURE AND THE WORK OF THE OTHER TRADES SHALL BE MADE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY MAJOR CONFLICTS OCCUR.
19. VALVES SHALL BE NIBCO, CRANE, WALWORTH, STOCKHAM OR EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED.
20. PROVIDE HANGERS, SUPPORTS AND INSULATION SADDLES AS REQUIRED AND PER ANSI REQUIREMENTS. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.
21. CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING MANUALS TO THE OWNER.
22. ROUGH-IN AND CONNECT EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE WORK.
23. ALL NEW AND EXISTING PIPING THAT PENETRATES ANY NEW OR EXISTING FIRE RATED WALL SHALL BE SEALED WITH 3M CP-25N/S FIRE CAULKING OR EQUIVALENT.

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE TR	W	V	CW	HW	REMARKS
WC-1	F.V. WATER CLOSET	INTEGRAL	4"	2"	1 1/2"	-	WALL MOUNTED
WC-2	F.V. WATER CLOSET	INTEGRAL	4"	2"	1 1/2"	-	WALL MOUNTED, ADA
UR-1	F.V. URINAL	INTEGRAL	2"	1-1/2"	-	-	WALL HUNG, WATERLESS
UR-2	F.V. URINAL	INTEGRAL	2"	1-1/2"	-	-	WALL HUNG, ADA WATERLESS
LV-1	LAVATORY	2"	2"	1-1/2"	1/2"	1/2"	WALL MOUNTED, ADA
DF-1	DRINKING FOUNTAIN	2"	2"	1-1/2"	1/2"	-	WALL MOUNTED, HI & LOW
MS-1	MOP SINK	3"	3"	2"	1/2"	1/2"	-
FD-1	FLOOR DRAIN	2"	2"	1-1/2"	-	-	WITH TRAP PRIMER

PIPE MATERIAL SPECIFICATIONS

PIPING SERVICE	SIZE	PIPING MATERIAL ABOVE GROUND	BELOW GROUND
COLD WATER HOT WATER	ALL SIZES	TYPE "L" COPPER WROUGHT FITTINGS	TYPE "K" COPPER FLARED FITTINGS
SANITARY DRAINAGE	2-1/2" & LARGER	SERVICE WEIGHT CAST IRON	SERVICE WEIGHT CAST IRON
SANITARY VENT	2" AND SMALLER	SERVICE WEIGHT CAST IRON OR GALVANIZED STEEL SCREW FITTINGS	SERVICE WEIGHT CAST IRON
SANITARY VENT	2-1/2" & LARGER	SERVICE WEIGHT CAST IRON	SERVICE WEIGHT CAST IRON

NO PLASTIC PIPE ALLOWED

COLD WATER PIPING
TYPE "L" PIPE 4.0 PSI\100'

PIPE SIZING CHART

SIZE	FLUSH TANK	FLUSH VALVE	HW
1/2"	0	0	0
3/4"	6	0	6
1"	15	0	15
1 1/4"	30	0	29
1 1/2"	58	15	48
2"	205	95	120
2 1/2"	464	342	246
3"	747	699	412

PLUMBING SYMBOLS AND ABBREVIATIONS

	SOIL WASTE OR SEWER ABV GRADE	S OR W
	WASTE OR SEWER BELOW GRADE	S OR W
D	STORM DRAIN	S.D
	SANITARY VENT	
	COLD WATER	C.W.
	HOT WATER	H.W.
	HOT WATER RETURN	H.W.R.
T	TEMPERED WATER	T.W.
IND	INDUSTRIAL WATER	
A	AIR LINE	A.
F	FIRE LINE	F.L.
G	FUEL GAS (LOW PRESSURE)	G.
XG	FUEL GAS (MEDIUM PRESSURE)	X.G.
IW	INDIRECT WASTE	I.W.
	SHUT-OFF VALVE	S.O.V.
PG	PRESSURE REDUCING VALVE	P.R.V.
	PRESSURE-TEMPERATURE RELIEF VALVE	P-T REL. V.
N	CHECK VALVE	C.V.
	SHUT-OFF VALVE IN CONC BOX	
	CLEAN OUT TO GRADE	C.O.T.G.
	WALL CLEANOUT	W.C.O.
	FLOOR CLEANOUT	F.C.O.
	HOSE BIBB	H.B.
	DROP	
	RISE	
	FIRE SPRINKLER RISER	
	UNION	
V.R.	VENT RISE	
V.O.	VENT OFFSET	
V.T.R	VENT THRU ROOF	
F.E.	FIRE EXTINGUISHER	
D.C.D.A.	DOUBLE-CHECK DETECTOR ASSEMBLY	
F.H.	FIRE HYDRANT	
R.P.B.F.	REDUCED-PRESSURE BACKFLOW PREVENTER	
F.V. / F.T.	FLUSH VALVE / FLUSH TANK	
D.S.	DOWNSPOUT	
A.F.F.	ABOVE FINISHED FLOOR	
M.H.	MANHOLE	
C.B.	CATCH BASIN	
F.D.	FLOOR DRAIN	
F.S.	FLOOR SINK	
S.B.	SERVICE BASIN	
S.S.	SERVICE SINK	
G.H.V.	GARDEN HOSE VALVE	
A.B.	ACCESS BOX	
A.P.	ACCESS PANEL	
I.E.	INVERT ELEVATION	
L.K.S.	LOOSE KEY STOP	
P.O.C.	POINT OF CONNECTION	
F.G.	FINISHED GRADE	
N.I.C.	NOT IN CONTRACT	
R.I.& C.	ROUGH-IN & CONNECT	
U.O.S.	UNDER OTHER SECTION	
W.H.A.	WATER HAMMER ARRESTER	
PREFIX "E"	INDICATES EXISTING	
G.P.R.	GAS PRESSURE REGULATOR	
O.D.	OVERFLOW DOWNSPOUT/OVERFLOW DRAIN	
R.D.	ROOF DRAIN	
	DIRECTION OF FLOW	
TPS	TRAP PRIMER SUPPLY	
ABV	ABOVE	
BEL	BELOW	
HDR	HEADER	
DN	DOWN	
CD	CONDENSATE DRAIN	

DSA NOTES

1. UNLESS SPECIFIED ON STRUCTURAL / ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, SAWCUTTING, BRACING, WELDING ETC. THROUGH NEW OR EXISTING STRUCTURE ELEMENTS TO BE DONE ONLY WHEN SO DETAILS IN DRAWINGS, OR SHALL HAVE WRITTEN APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD WITH THE APPROVAL OF DSA REFRESENTATIVE PRIOR START WORK.
2. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2007 CBC SECTION 1614A.1.13 AND TABLE 16A-O, ASCE 7-05 SECTIONS 13.3, 13.4, 13.6, CHAPTER 6, AND TABLE 13.6-1.
3. ALL PLUMBING LINES SHALL BE LOCATED 12 INCHES MINIMUM AWAY FROM STRUCTURAL HOLD DOWN BOLTS, AND SHALL NOT PENETRATE THROUGH SHEAR WALL SILL PLATES.
4. ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.
5. ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2007 CALIFORNIA CODE OF REGULATIONS (CCR), 2007 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR, 2007 CALIFORNIA PLUMBING CODE, AND 2007 CALIFORNIA BUILDING CODE.

MECHANICAL EQUIPMENT BRACING AND ANCHORAGE:

ALL MECHANICAL PIPING, CONDUITS AND DUCTS SUPPORT AND BRACING SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEM PUBLISHED BY SMACNA AND APPROVED BY DSA.

WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, THE MECHANICAL ENGINEER AND THE DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

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KEYNOTES

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REGISTERED PROFESSIONAL ENGINEER JAY R. TITTLE No. 27963 Exp. 6/30/12 MECHANICAL STATE OF CALIFORNIA

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KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE No. 12955 REN. 11-30-09 STATE OF CALIFORNIA

LICENSED ARCHITECT JAY R. TITTLE No. C-12955 REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP FOR DSA OF THE STATE ARCHITECT
APP# 1 13596
DATE 3-29-2011

PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

PLUMBING GEN. NOTES, LEGENDS AND SCHEDULES

NO.	DATE	ISSUE
	3-29-11	DSA CORR.

DRAWN BY: CAD
PROJECT NO.: 2007-SH29-09
CHECKED BY: B.E.S.
©DATE: 6-14-10
DRAWING NO.: P0.1
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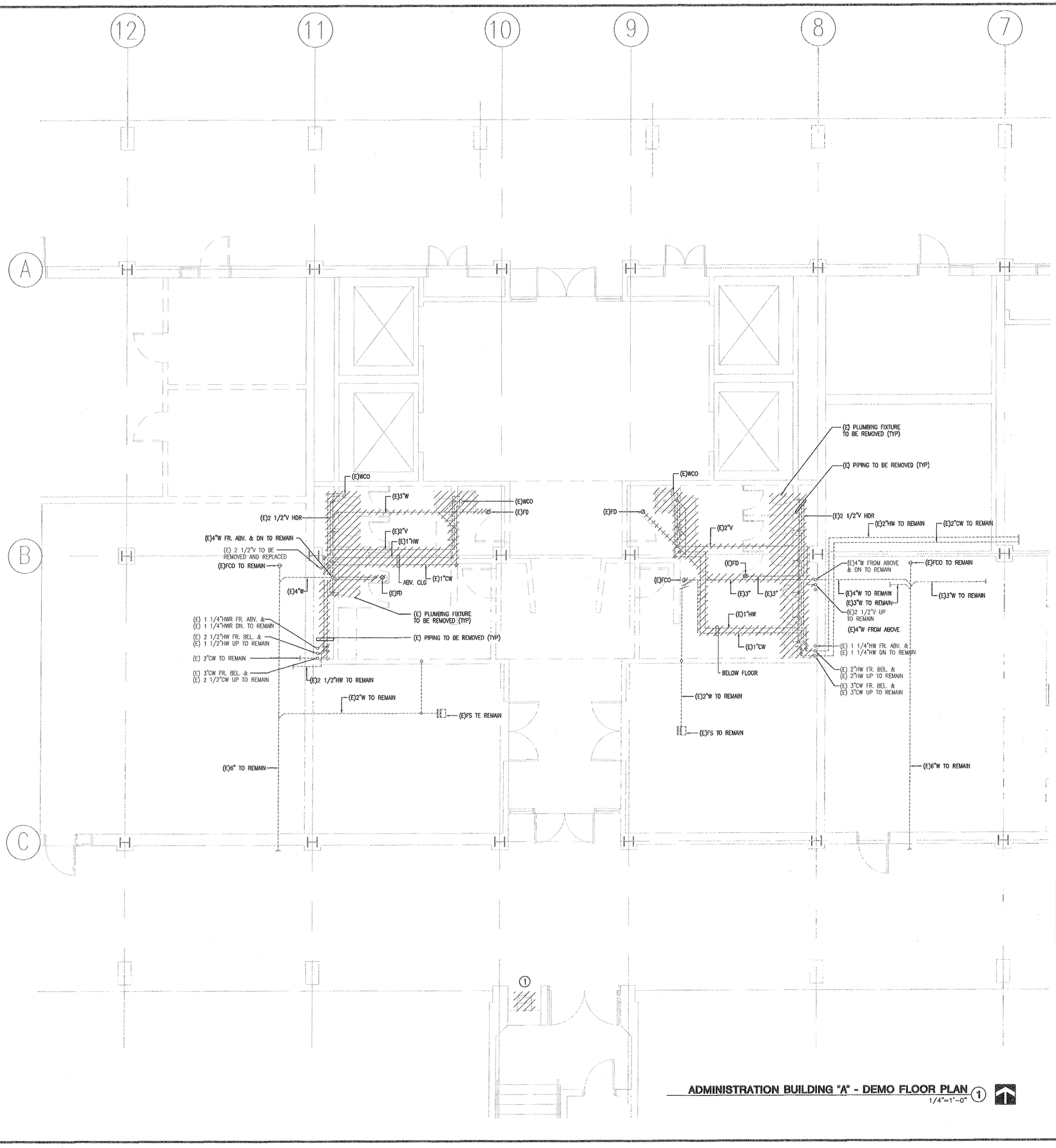

REFERENCE NOTES:

1. EXISTING DRINKING FOUNTAIN AND TRIM TO BE REMOVED, EXISTING WATER AND VENT TO BE CAPPED ABOVE CEILING, EXISTING WASTE TO BE CAPPED BELOW FLOOR.

DEMOLITION NOTE:

ALL PLUMBING FIXTURES AND ASSOCIATED PIPING SHOWN HATCHED SHALL BE REMOVED; WHERE NEW CONNECTION IS NOT PROVIDED, EXISTING PIPING STUB-OUTS SHALL BE CAPPED AS REQUIRED.

ADMINISTRATION BUILDING "A" - DEMO FLOOR PLAN (1)
1/4"=1'-0"

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REN. 11-30-09
STATE OF CALIFORNIA

LICENSED ARCHITECT
JAY R. TITTLE
No. C-12955
Ren. 11-30-11
STATE OF CALIFORNIA

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PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
PLUMBING PARTIAL DEMO ENLARGED FLOOR PLAN

NO.	DATE	ISSUE
1	3-29-11	DSA CORR.

DRAWN BY	PROJECT NO.
CAD	2007-SH29-00
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B.E.S.	6-14-10

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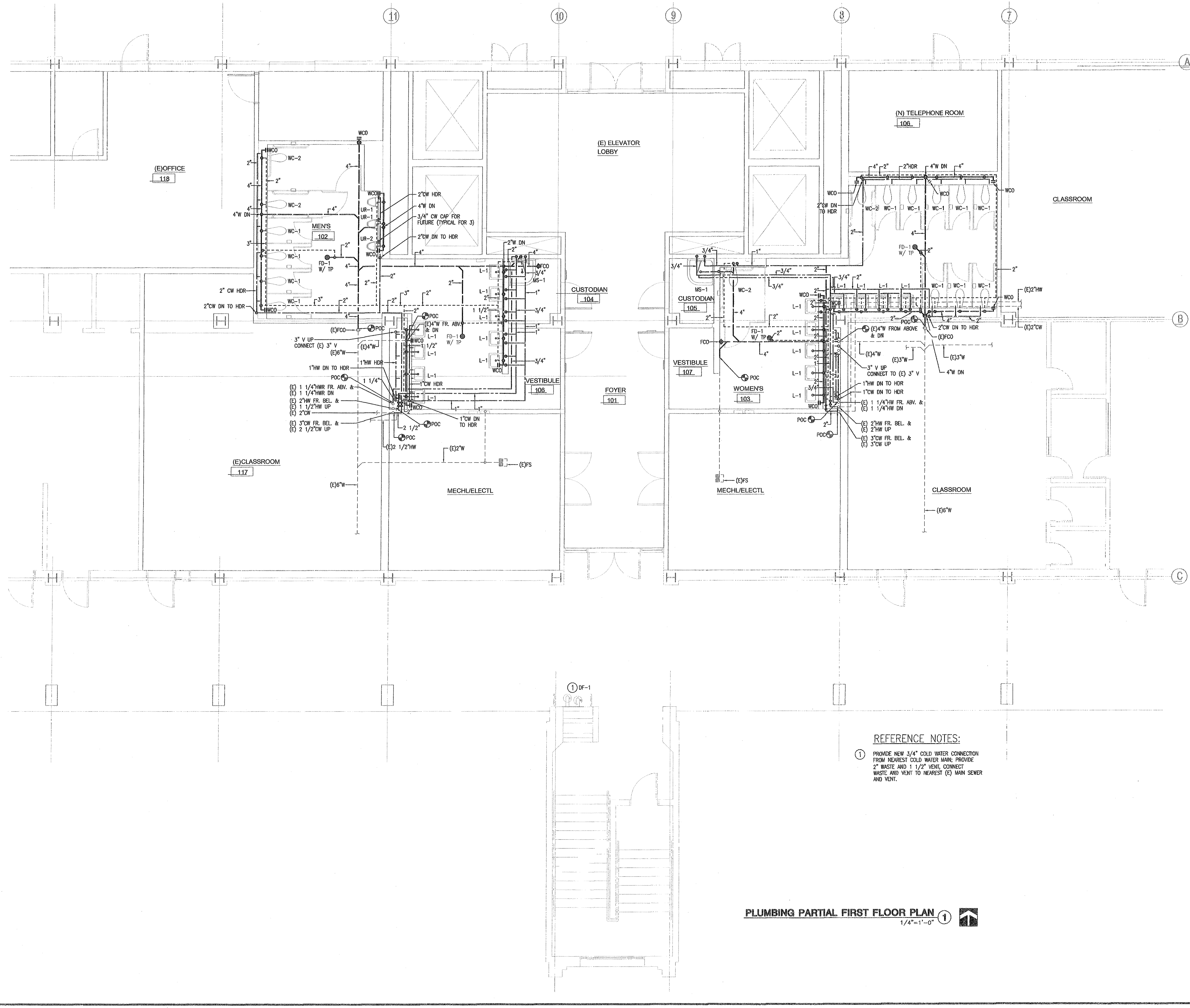

REFERENCE NOTES:

1. PROVIDE NEW 3/4" COLD WATER CONNECTION FROM NEAREST COLD WATER MAIN; PROVIDE 2" WASTE AND 1 1/2" VENT, CONNECT WASTE AND VENT TO NEAREST (E) MAIN SEWER AND VENT.

PLUMBING PARTIAL FIRST FLOOR PLAN (1)
1/4"=1'-0"

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DATE 3-29-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
PLUMBING PARTIAL FIRST FLOOR PLAN

NO.	DATE	ISSUE
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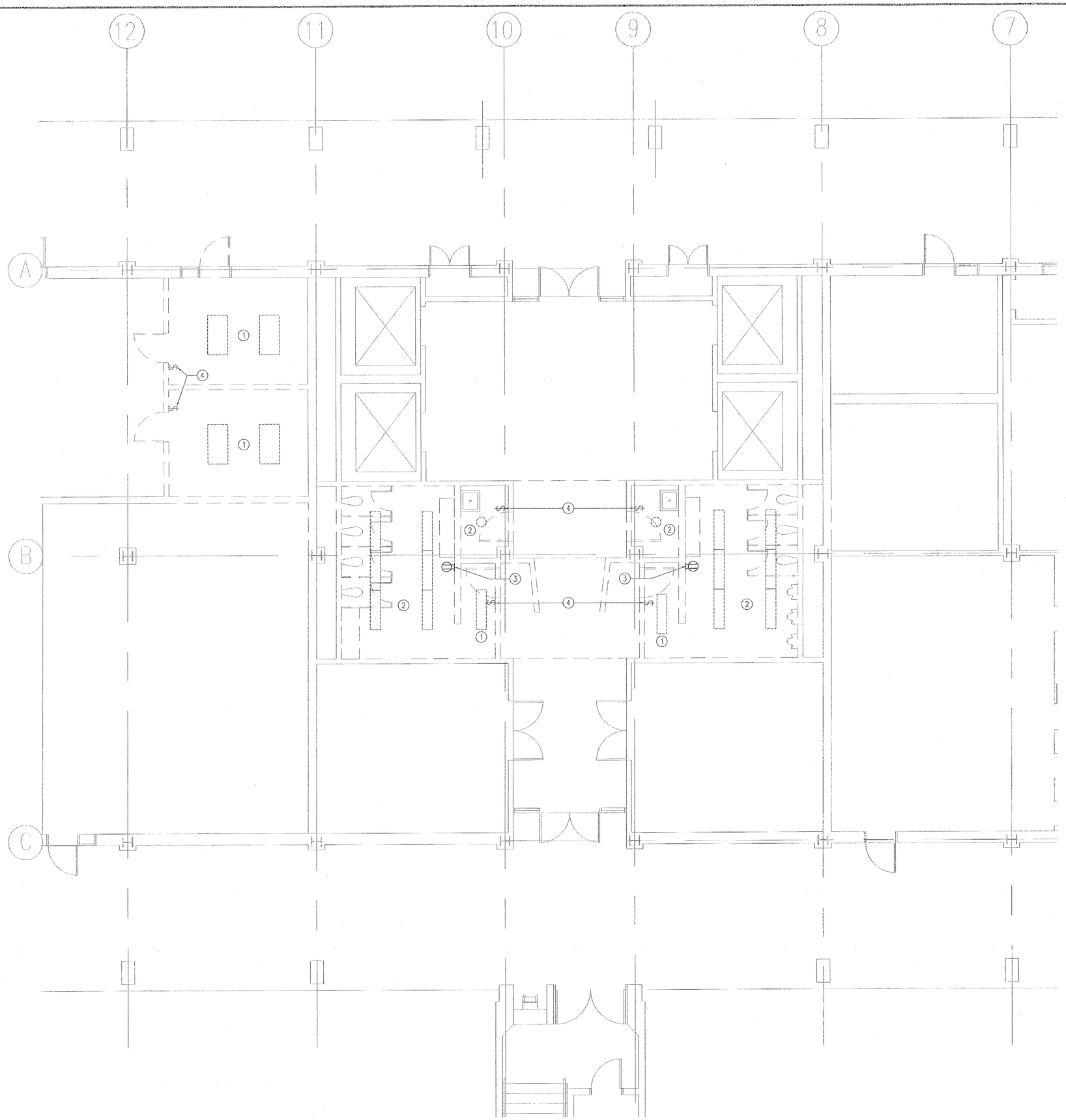

REFERENCE NOTES:

(1) REMOVE EXISTING LIGHTING AND WIRING TO HOMERUN J-BOX.

(2) REMOVE EXISTING LIGHTING. LEAVE WIRING IN PLACE.

(3) REMOVE EXISTING OUTLET. LEAVE WIRING IN PLACE.

(4) REMOVE EXISTING WALL SWITCH AND WIRING BACK TO HOMERUN J-BOX.

DEMOLITION NOTES:

1. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL:

   CONDUCT A SURVEY AT THE JOB SITE INCLUDING ALL AREA UPON WHICH THIS WORK IS IN ANY WAY DEPENDENT FOR VERIFICATION OF EXISTING CONDITIONS AND INSPECT EACH AND EVERY AREA AFFECTED BY THE TOTAL ALTERATION OF THE BUILDING BEFORE SUBMITTING BID.

   A. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS IN AN WAY THE INSTALLATION OF WORK AS SHOWN ON DRAWING. ANY DISCREPANCY SHALL BE REFERRED IMMEDIATELY TO THE ARCHITECT OR ENGINEER FOR RESOLUTION. NO WAIVER OF RESPONSIBILITY FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTIFICATION HAS BEEN FILED BEFORE SUBMITTAL OF PROPOSAL.

   B. BECOME THOROUGHLY FAMILIAR WITH INTENT OF WORK SHOWN ON DRAWINGS, AND THE ACTUAL EXISTING CONDITIONS OF WHICH CONNECTIONS MUST BE MADE TO BE IN ACCORDANCE WITH THESE DRAWINGS. THE ELECTRICAL DRAWINGS INDICATE NEW WORK, EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACE IS REQUIRED. NO CONSIDERATION WILL BE GRANTED TO THE CONTRACTOR BY REASON UNFAMILIARITY WITH THE ACTUAL PHYSICAL CONDITIONS AT SITE.

2. THE CONTRACTOR SCOPE OF WORK IN THIS CONTRACT IS TO CONFIRMED AND FAMILIARIZE HIMSELF WITH ALL EXISTING ELECTRICAL SYSTEMS AND SHALL INCLUDE ALL NECESSARY DEMOLITION AND NEW AND RELOCATION WORK REQUIRED BY CHANGES TO WALLS, CEILINGS AND OTHER ARCHITECTURAL WORK. THE CONTRACTOR IS URGE TO RE-USE EXISTING JUNCTION BOXES, ELECTRICAL AND TELEPHONE OUTLETS, SWITCHES, CIRCUIT BREAKERS CABLING AND CONDUITS WHEREVER POSSIBLE. DEVICES AND CONDUITS DESIGNATED "X" SHOULD MEET THESE REQUIREMENTS. ALL OUTLETS TO BE FIELD CHECKED FOR DETERMINATION OF CONFORMANCE WITH THESE REQUIREMENTS.

   REFER TO CONTRACTOR DOCUMENTS FOR THE EXTENT OF THESE CHANGES.

   A. WHERE ELECTRICAL LIGHT FIXTURES OR OTHER ELECTRICAL DEVICES ARE TO BE REMOVED, ALL WIRING BACK TO THE NEXT REMAINING LIGHT FIXTURE OR OUTLET SHALL BE REMOVED. MAINTAIN CONTINUITY OF BRANCH CIRCUITS AND OTHER WIRING TO ALL REMAINING LIGHT FIXTURES, OUTLETS AND/OR EQUIPMENT.

   B. ELECTRICAL OUTLETS SUCH AS CONVENIENCE RECEPTACLES UNAFFECTED BY ARCHITECTURAL CHANGES SHALL REMAIN AS IS, ENERGIZED FOR SERVICE.

   C. DISCONNECT AND CAP ALL EXISTING FLOOR BOXES AND FLUSH FLOOR COUPLINGS NOT BEING REUSED.

   D. ALL EXISTING CIRCUIT BREAKERS RENDERED "SPARE" DUE TO TENANT REMODELING SHALL BE TURNED TO THE "OFF" POSITION AND LABELED "SPARE".

   E. SHOULD ANY DOUBT SURFACE REGARDING THE PROPER DISPOSITION OF ANY EXISTING ELECTRICAL WORK, THE ARCHITECT AND ENGINEERS SHALL BE CONTACTED IMMEDIATELY.

   F. ALL EXISTING CONDUIT AND WIRES NOT BEING REUSED IN THIS CONTRACT SHALL BE REMOVED.

   G. ALL EXISTING LIGHTING WITHIN TENANT SPACE SHALLL BE DEMO AND REMOVED INCLUDING ALL ASSOCIATED BRANCH CIRCUITRY CONDUIT AND WIRES.

3. WHERE EXISTING HVAC EQUIPMENT AND PLUMBING EQUIPMENT ARE BEING REMOVED AND/OR ABANDONED IN RECONSTRUCTION OF THIS SPACE, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INCLUDE IN HIS BID, SCOPE OF WORK, BUT NOT LIMITED TO:

   A. REMOVAL OF ALL ELECTRICAL BRANCH CIRCUITRY AND DEVICES SERVING THOSE PLUMBING EQUIPMENT (i.e. ELECTRICAL WATER HEATER, WATER SOFTENER, DRINKING FOUNTAIN, ETC.) WHICH ARE BEING REMOVED AND/OR ABANDONED IN THE REMODEL OF THIS SPACE.

   B. VERIFY ACTUAL FIELD INSTALLATION OF EXISTING EQUIPMENT BEING DEMOVED AND REFER TO MECHANICAL, PLUMBING DRAWINGS TO DETERMINE EQUIPMENT BEING REMOVED AND FOR EXACT SCOPE OF WORK.

4. IN AREAS WHERE DEMOLITION WORK IS PERFORMED BY OTHER TRADES, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES, SHOULD ANY OF THE EXISTING ELECTRICAL DEVICES, OUTLETS OR EQUIPMENT (WHICH IS TO REMAIN IN SERVICE) BE DISCONNECT, IT SHALL BE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO RECONNECT AS REQUIRED THOSE ITEMS WHICH ARE TO REMAIN ENERGIZED FOR SERVICE AT NO EXTRA COST TO THE OWNER.

5. THE FINAL ELECTRICAL SYSTEM AFTER NEW WORK AND DEMOLITION SHALL MEET ALL LOCAL AND STATE ELECTRICAL CODES.

SYMBOLS LISTS:

○	INCANDESCENT OR H.I.D. LIGHTING FIXTURE, CEILING MOUNTED
⊟	FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED WITH 4S OUTLET BOX
GFI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE.
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET, +15" TO THE BOTTOM OF BOX UNLESS OTHERWISE NOTED ON DRAWINGS
S	TOGGLE SWITCH, +4" -0" TO TOP OF BOX. SUFFIX ON SWITCH SYMBOLS SHALL INDICATE THE FOLLOWING: NO SUFFIX = SINGLE POLE, 2 = 2 POLE, 3 = 3 WAY, K = KEY OPERATED, R = SPDT MOMENTARY CONTACT SWITCH, P = WITH PILOT LIGHT, a,b,c,d, ETC. INDICATES OUTLET CONTROLLED, m= MOTOR RATED SWITCH 600V 30A, 1P, 2P OR 3P AS REQUIRED.
13L	EXISTING ELECTRICAL PANELBOARD OR SWITCHGEAR DESIGNATION
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS

2#12, 3/4"C. — 3#12, 3/4"C. — 4#12, 3/4"C. — 5#12, 3/4"C. — 6#12, 3/4"C. — 7#12, 1"C.

2#10, #12, 3/4"C. — 3#10, #12, 3/4"C. — 4#10, #12, 3/4"C. — 5#10, #12, 3/4"C. — 6#10, #12, 3/4"C. — 7#10, #12, 1"C.

4#8, #12, 3/4"C.

WIRE SIZE OTHER THAN #12, #10 OR #8 IS NOTED ON EACH CONDUIT RUN WITH SIZE OF CONDUIT (I.E., 3#6 - 1"C.)

CONDUIT HOMERUN INDICATING HOT WIRE AND NEUTRAL

CEILING MOUNTED AUTOMATIC LIGHTING MOTION SENSOR COMPLETE WITH OUTLET BOX AND SWITCH PACK.

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KEYNOTES

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KEY PLAN

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PROJECT

PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE

ELECTRICAL PARTIAL DEMO
ENLARGED FLOOR PLAN

NO.	DATE	ISSUE
	3-29-11	DSA CORR.

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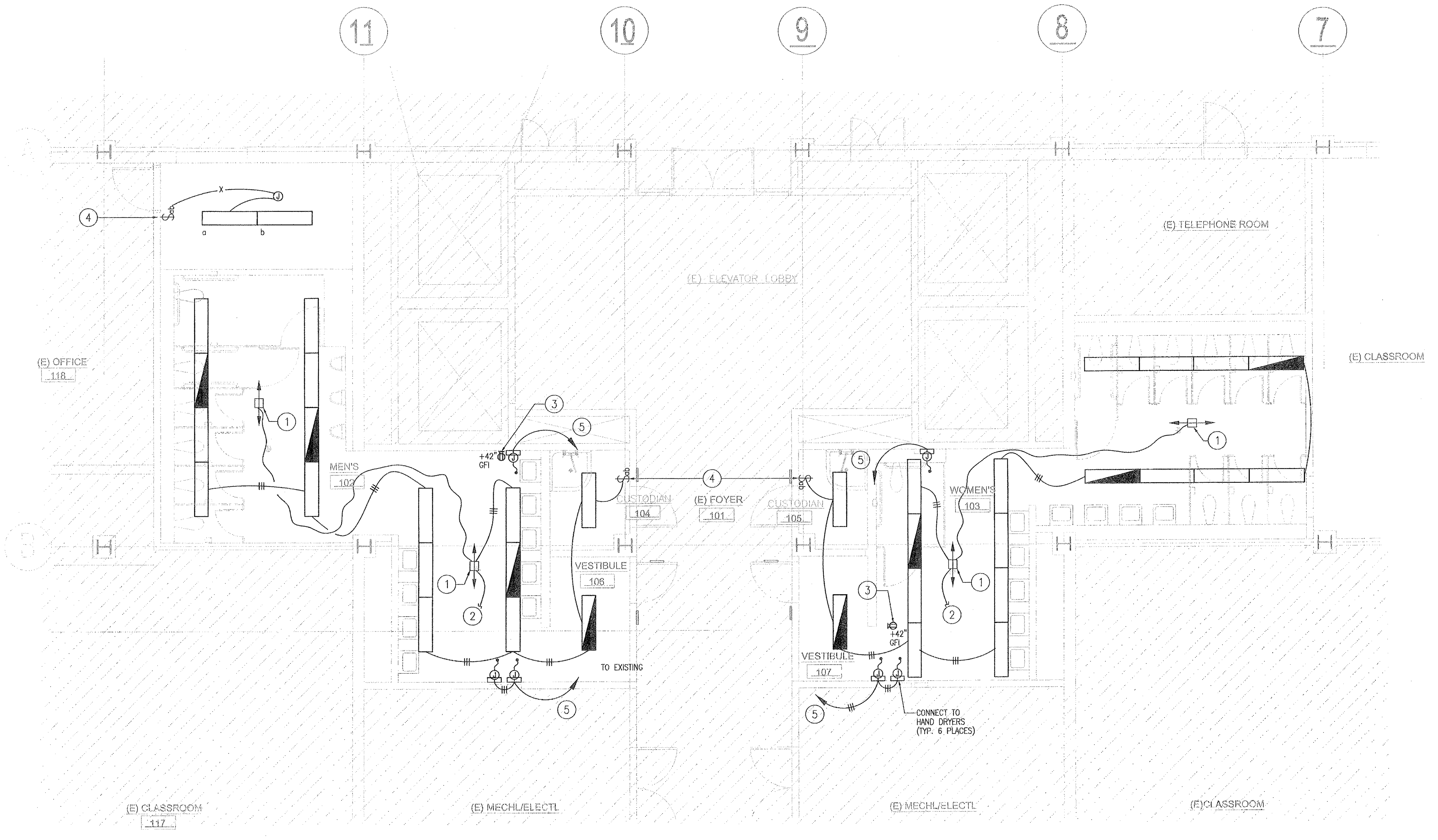

PARTIAL FIRST FLOOR LIGHTING AND POWER PLAN (3)
1/4"=1'-0"

REFERENCE NOTES:

(1) CEILING MOUNTED LINE-VOLTAGE MOTION SENSOR WATT STOPPER DT-355.

(2) TO EXISTING LIGHTING CIRCUIT IN THE AREA.

(3) CONNECT RECEPTACLE TO EXISTING CIRCUIT. EXTEND WIRING TO NEW LOCATION.

(4) REPLACE EXISTING WALL SWITCH WITH NEW WALL MOUNTED MOTION SENSOR. WATT STOPPER WS 200.

(5) 1/2"C. 3#12 TO NEAREST 120V. PANEL. FURNISH AND INSTALL (6) NEW 20AMP SINGLE POLE CIRCUIT BREAKERS.

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, MINIMUM WIRE SIZE FOR LINE VOLTAGE WIRING SHALL BE #12, THHN COPPER FOR BRANCH CIRCUITRY.
2. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE UBC BUILDING CODES, NATIONAL ELECTRICAL CODE "NEC" AND OTHER LOCAL GOVERNING AUTHORITIES.
   A. ALL NEW ELECTRICAL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE SEISMIC REQUIREMENTS.
3. SUBSCRIPTS a, b, c, ETC. AT SWITCH SYMBOLS ARE TO DISTINGUISH BETWEEN SWITCHES.
4. +4'-6" INDICATES A MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER OF EQUIPMENT OF OUTLET. "M.H." INDICATES A MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF FIXTURE OR DEVICE.
5. ALL SYMBOLS SHOWN ON SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT.
6. EVERY WALL MOUNTED OUTLET HEIGHT AND LOCATION SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND THE DETAIL DRAWINGS TO INSURE THE PROPER HEIGHT AND LOCATION WITH RESPECT TO CABINETS, EQUIPMENT, MIRRORS, TACK BOARDS, ETC.
7. COORDINATE WITH THE OTHER TRADES, IN ADVANCE OF CONSTRUCTION, THE CEILING AREA IN WHICH RECESSED LIGHTING FIXTURES OCCUR. THIS SHALL INCLUDE PLUMBING, HEATING AND VENTILATING, AIR CONDITIONING AND CARPENTRY. IN THE EVENT OF ANY CONFLICT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
8. ALL WORK/MATERIALS SHOWN ON PLANS SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
9. CUT AND PATCH TO MATCH ALL EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER INSTALLATION OF NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
10. CONTRACTOR SHALL INCLUDE IN HIS BID, ALL LABOR AND MATERIAL REQUIRED TO MAINTAIN THOSE ELECTRICAL/SIGNAL SYSTEMS WHICH ARE TO REMAIN IN SERVICE DURING AND AFTER THE REMODEL RECONSTRUCTION
    THE ELECTRICAL SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO THESE MAJOR ITEMS:
    A. BUILDING ELECTRICAL DISTRIBUTION SYSTEM (LIGHTING, POWER, ETC.)
    B. ENERGY MANAGEMENT SYSTEM.
    C. CEILING MOUNTED PUBLIC ADDRESS/MUSIC SYSTEM, SPEAKERS, CABLING, CONDUIT, ETC.
    D. WALL MOUNTED FIRE ALARM DEVICES (I.E. SMOKE DETECTORS, MANUAL PULL STATIONS, ETC.)
11. ALL DATA AND TELEPHONE EQUIPMENT, INCLUDING PLENUM CABLING SHALL BE FURNISH, INSTALLED AND CONNECTED BY TENANT (VENDER).
12. FOR ALL DATA SYSTEM HOME RUNS OR STUB CONDUITS SHOWN ON THIS PLAN, CONTRACTOR SHALL AIM CONDUIT IN THE DIRECTION OF THE TENANT DATA BACKBOARD.
13. FOR ALL TELEPHONE SYSTEM HOME RUNS OR STUB CONDUITS SHOWN ON THIS PLAN, CONTRACTOR SHALL AIM CONDUIT IN THE DIRECTION OF TENANT TELEPHONE BOARD.
14. ALL NEW STUB CONDUIT INSTALLED IN THIS CONTRACT SHALL HAVE BUSHING ON END.
15. WHERE NEW AND/OR EXISTING CONDUIT(S) INSTALLATION PENETRATE THROUGH ARCH-ITECTURAL FIRE RATED ASSEMBLIES (SUCH AS 1 HOUR FIRE RATED CORRIDOR WALL OR CONCRETE FLOOR), CONTRACTOR SHALL PROVIDE "3M" FIRE SEAL COMPOUND AROUND CONDUIT(S) TO SEAL PENETRATION.
16. CONTRACTOR BID SHALL INCLUDE ALL CORE DRILING AND SAW CUTTING AS REQUIRED FOR THE INSTALLATION OF NEW ELECTRICAL WORK. ALL CORE HOLES SHALL BE SEALED AND CAULK, ALL SAW-CUT SHALL BE PATCH TO MATCH EXISTING. CMG WILL PREFORM X-RAYING OF FLOOR IF REQUIRED.

ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2007 CALIFORNIA CODE OF REGULATIONS (CCR) ....
2007 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
(2005 National Electrical Code of the National Fire Protection Association, NFPA) ....

CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7-05 SECTION 13.3.1 AND TABLE 13.6-1. ANCHORAGE DETAILS FOR ROOF / FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.

ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

Existing source of power has been investigated and is adequate for the new additional load as indicated on drawings.

Site Inspector is to witness and verify grounding tests.

LIGHTING FIXTURE SCHEDULE

LAMP TYPE	DESCRIPTION	MANUFACTURER/ CATALOG NO.	SYMBOLS
(1)T5/SP41	1' X 6" SURFACE MOUNTED FIXTURE WITH TAMPERPROOF CLEAR ACRYLIC WRAPAROUND LENS, HINGED AND LATCHED FROM EITHER SIDE, BAKED WHITE ENAMEL FINISH AND ELECTRONICS BALLAST. TOTAL WATTS = 61 EFFICIENCY 65.5%	LSI - SILHOUETTE #W44-4-1-SS-TPH	
(1)T5/SP41	1' X 6" SURFACE MOUNTED FIXTURE WITH TAMPERPROOF CLEAR ACRYLIC WRAPAROUND LENS, HINGED AND LATCHED FROM EITHER SIDE, BAKED WHITE ENAMEL FINISH AND ELECTRONICS BALLAST EXCEPT EMERGENCY PACK. TOTAL WATTS = 61 EFFICIENCY 65.5%	LSI - SILHOUETTE #W44-4-1-EM-TPH	

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KEYNOTES

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KEY PLAN

SEAL: LICENSED ARCHITECT JAY R. TITTLE NO. REN. 4-30-11 STATE OF CALIFORNIA

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PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
FIRST FLOOR LIGHTING AND POWER PLAN

NO.	DATE	ISSUE
	3-29-11	DSA CORR.

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DRAWING NO.: E2.1
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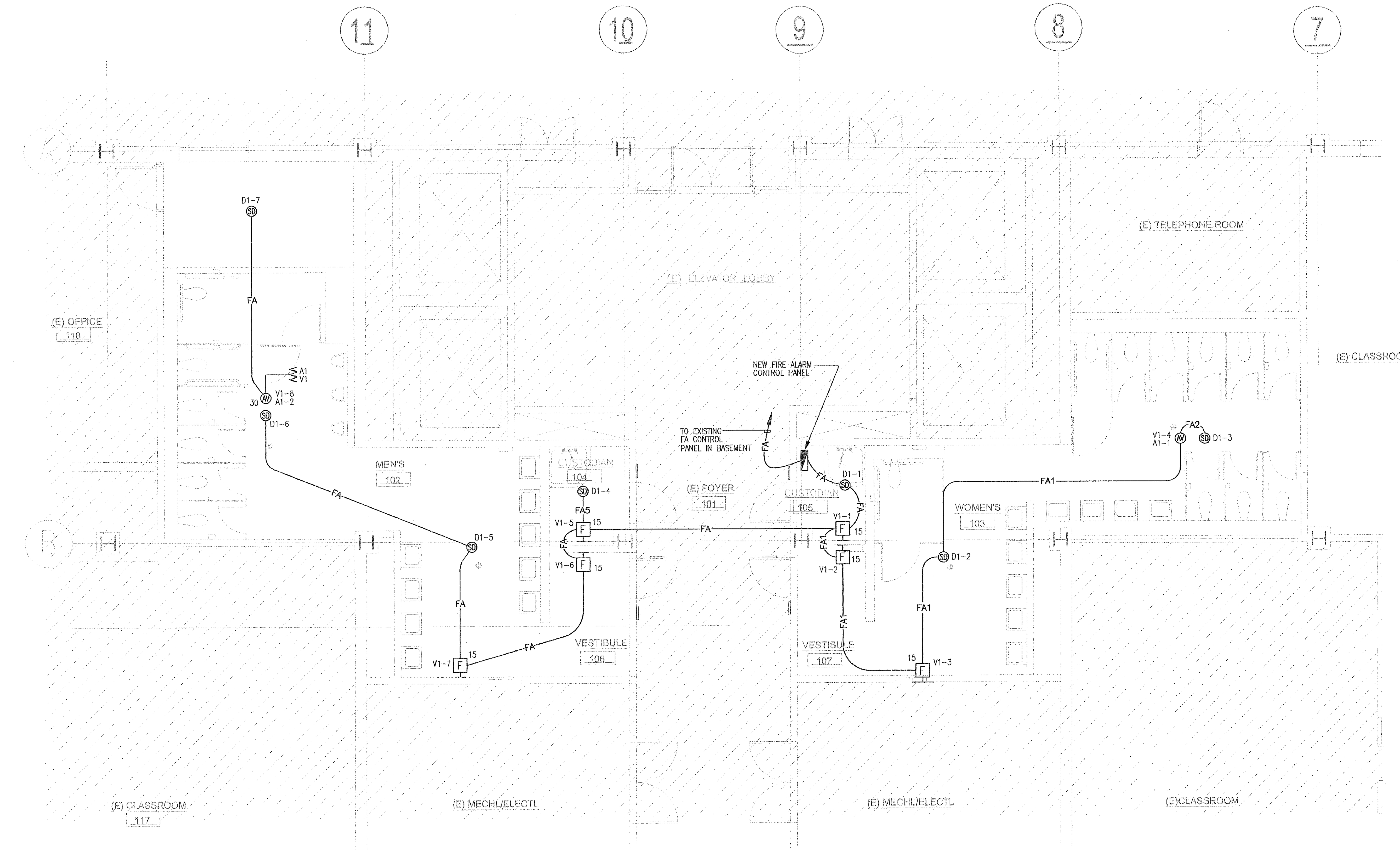


SCOPE OF WORK IS "RESTROOM REMODEL" ONLY. ALL OTHER AREAS ARE EXISTING TO REMAIN.

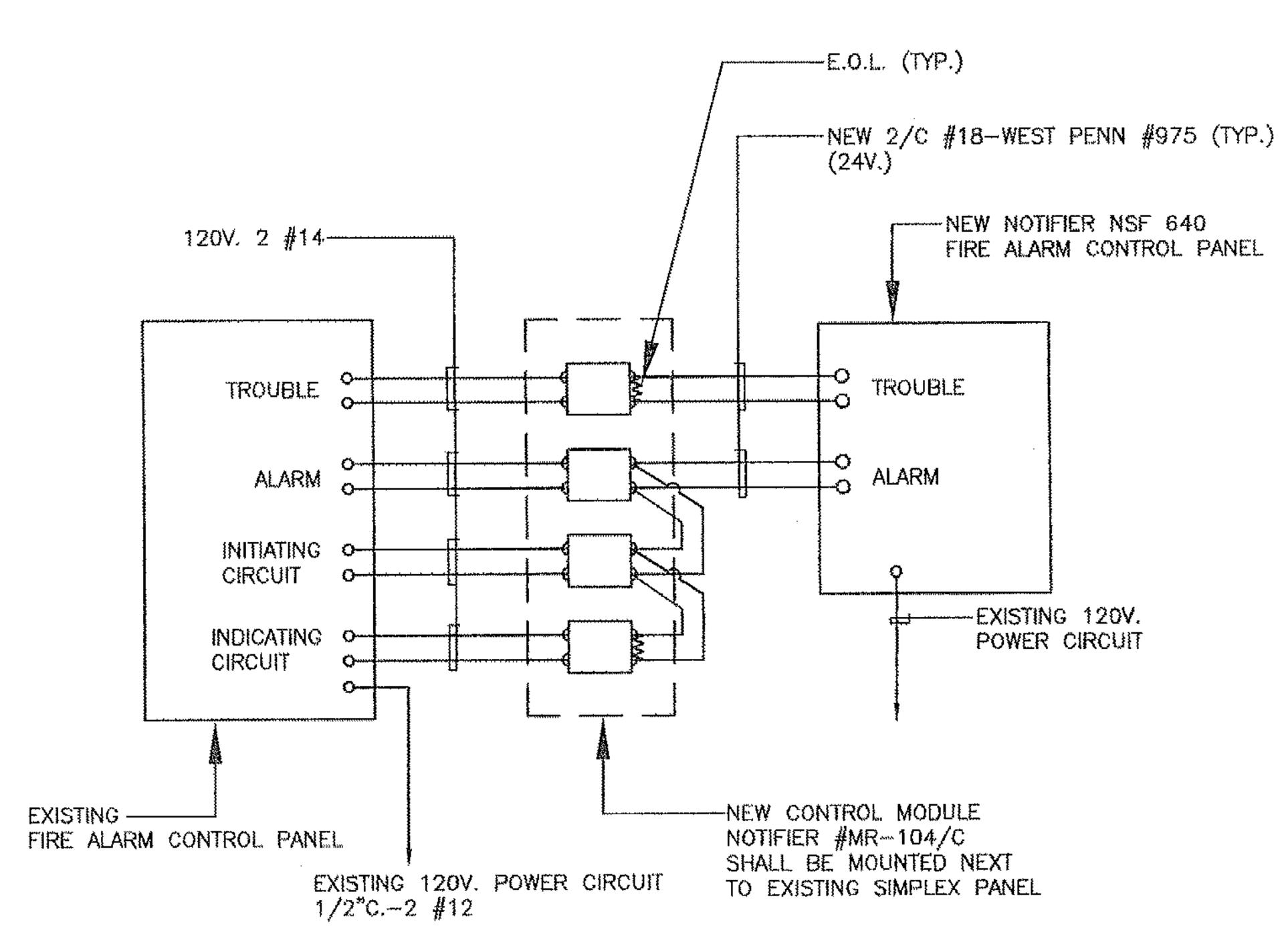
PARTIAL FIRST FLOOR FIRE ALARM PLAN (3)
1/4"=1'-0"

SPECIAL NOTES

1. NEW ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP). CONNECT TO EXISTING FACP 120V POWER SUPPLY CIRCUIT. INTERFACE WITH EXISTING FACP SO BOTH PANELS WILL ALARM IN RESPONSE TO EITHER SYSTEM INITIATING DEVICES. THE NEW FACP SHALL BE SIZED TO ACCOMODATE THE EXISTING SYSTEM AT SOME LATER DATE.

2. PROVIDE SIGN AT EACH FIRE ALARM CONTROL PANEL TO READ AS FOLLOWS:

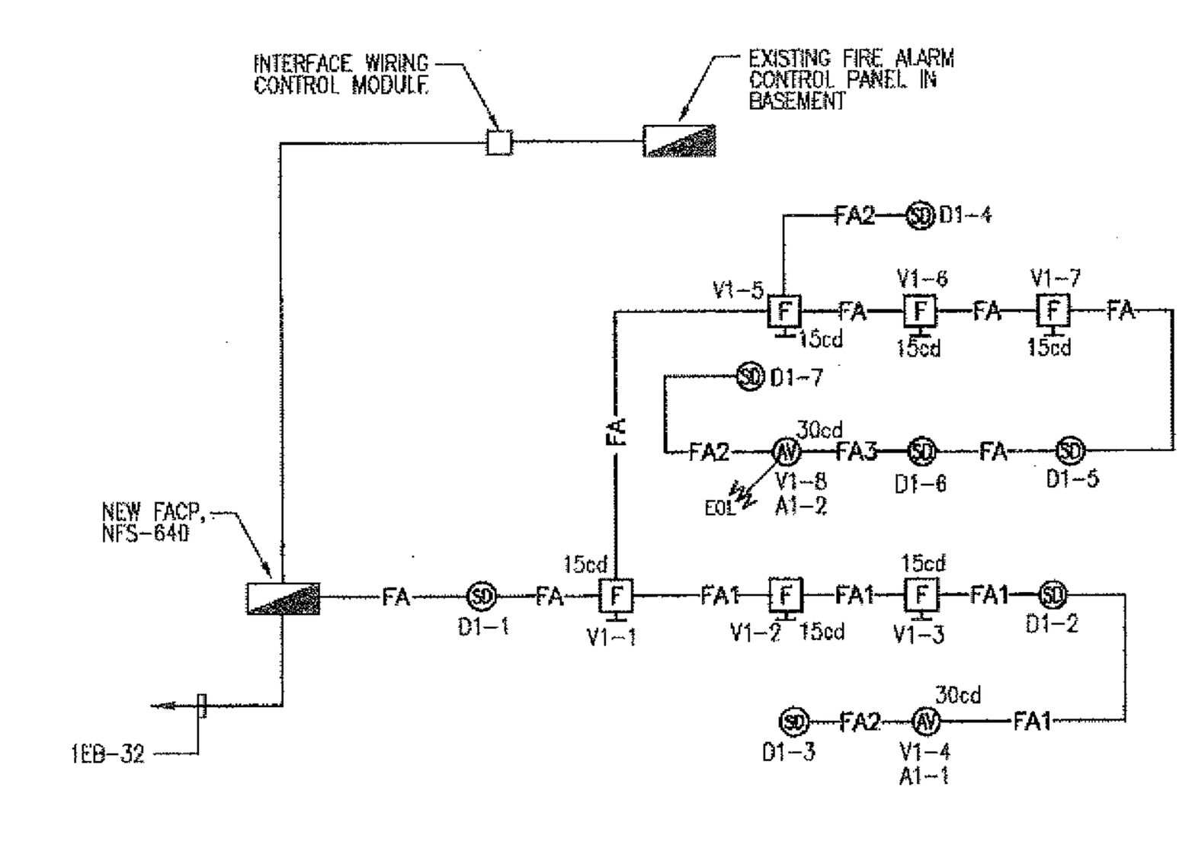
   FIRE ALARM RESET INSTRUCTIONS:
   1. RESTORE ACTIVATED DEVICE(S)
   2. PUSH RESET BUTTON ON EXISTING FACP
   3. PUSH RESET BUTTON ON NOTIFIER FACP



INTERFACE WIRING DIAGRAM
NOT TO SCALE

SYMBOL LIST AND WIRING LEGEND:

Symbol	Description
(panel symbol)	NEW FIRE ALARM SYTEM CONTROL PANEL – NOTIFIER NSF 640
(SD)	SMOKE DETECTOR–FCI ASD–PL2 CSFM# 7272–1703:121
(AV) 30	CEILING MOUNTED AUDIO/VISUAL – GENTEX GEC3–24WR CSFM# 7135–0569:122 (30cd @ 0.209A)
[F] 15	VISUAL DEVICE – GENTEX GES3–2415WR CSFM# 7125–0569:123 (15cd @ 0.106A)
—FA —	3/4"C. 2#18/2 SHIELDED TWISTED PAIR + 4#12
—FA1—	3/4"C. 2#18/2 SHIELDED TWISTED PAIR + 8#12
—FA2—	3/4"C. 2#18/2 SHIELDED TWISTED PAIR.
—FA3—	3/4"C. 4#12
—FA5—	3/4"C. 2#18/2 SHIELDED TWISTED PAIR.



FIRE ALARM RISER DIAGRAM
SCALE: NONE

ARCHITECTURE
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San Dimas, California 91773
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KEYNOTES

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER CELESTIN HARITON No. 17082 Exp. 09/30/11 ELECTRICAL STATE OF CALIFORNIA

DL ENGINEERING, INC.
600 West Broadway, Suite 250
Glendale, California 91204
818 265–9720 FAX 818 265–9725

KEY PLAN

SEAL

LICENSED ARCHITECT JAY R. TITTLE NO. [illegible] REN. 11-30-11 STATE OF CALIFORNIA

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 3 5 9 6
AC FLS SU SS
DATE 3-29-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
FIRST FLOOR FIRE ALARM PLAN

NO.	DATE	ISSUE
—	3-29-11	DSA CORR.

DRAWN BY: CAD
PROJECT NO.: 2007-SH29-00
CHECKED BY: B.E.S.
©DATE: 6-14-10
DRAWING NO.: **E3.1**
SHEET . OF .

ELECTRICAL SPECIFICATIONS

BATTERY CALCULATION "FACP"

	DEVICE	#	CURRENT STANDBY A.	CURRENT ALARM A.	TOTAL STANDBY A.	TOTAL ALARM A.
(30cd)	HORN/STROBE	2	0	0.209	0	0.4180
(15cd)	STROBE	6	0	0.106	0	0.6360
	SMOKE/HEAT	13	.0003	0.0065	0.018	.0039
			TOTAL STANDBY CURRENT		0.03	
				TOTAL ALARM CURRENT		1.0930

ALARM CURRENT X ALARM TIME /60 = AMP/HR FOR ALARM

1.093 X 5/60 = 0.9108 AMP HR.

STANDBY CURRENT X 24 HRS = AMP/HR FOR ALARM

0.018 X 24 = 0.4320 AMP HR.

TOTAL = 1.3428 AMP HR.

BATTERY SIZE = 12 AMP HR. (@ PANEL)

VISUAL CIRCUIT V1: 2 A/V DEVICES (30cd) @ 0.209A. EACH = 0.418A
6 VISUAL DEVICES (15cd) @ 0.106A. EACH = 0.636A
= 1.054A

$$\frac{1.054A \times 175' \times 21.5}{6530\ (\#12)} = 0.6073\ VD$$

$$\frac{0.6073VD}{24V.} \times 100 = 2.53\%$$

WORST CASE VOLTAGE DROP CALCULATION

SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR MECHANICAL/ELECTRICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7, SECTION 13.3.1. AND TABLE 13.6.1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

ANCHORAGE DETAILS FOR EQUIPTMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA's DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

DESIGN CRITERIA

THE FOLLOWING IS FOR MECHANICAL/ELECTRICAL ENGINEER'S INFORMATION ONLY:

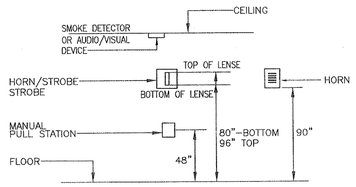
THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24. SECTION 1632 (A) AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

a) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:

1- CALCULATED AS SPECIFIED IN ASCE 7, SECTION 13.3.1 AND TABLE 13.6.1.

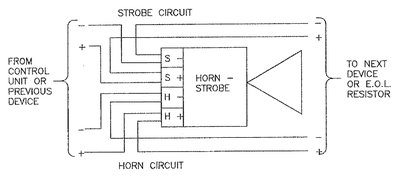
b) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICC REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.

ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

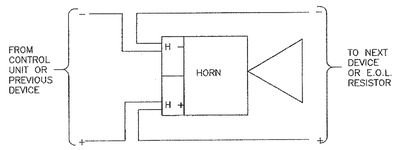


MOUNTING HEIGHT REQUIREMENTS FOR FIRE ALARM DEVICES.

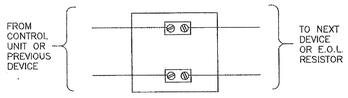
D FA DEVICE ELEVATION
E-0.1 SCALE: NONE



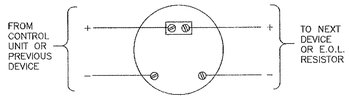
COMBINATION HORN/STROBE UNIT



HORN UNIT



PULL STATION



SMOKE DETECTOR

C TYPICAL DEVICE WIRING
E-0.1 SCALE: NONE

SEQUENCE OF OPERATION				
	BUILDING POWER FAILURE	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	PULL STATION
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM, SUPERVISION & TROUBLE)	YES	YES	YES	YES
SOUND CONTROL PANEL TROUBLE BUZZER	YES	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT
ACTIVATE AUDIBLE ALARM SIGNALS (UNTIL SILENCE)	NO	YES	YES	YES
ACTIVATE VISUAL ALARM SIGNALS (UNTIL RESET)	NO	YES	YES	YES
CENTRAL STATION MONITOR	YES	YES	YES	YES

1. CODE COMPLIANCE

   A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.

2. PERMITS AND FEES

   SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

3. MATERIAL

   A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY THE UNDER-WRITER'S LABORATORIES, INC. MANUFACTURED IN ACCORDANCE WITH U.L., NEMA, ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

4. GROUNDING

   A. ALL ELECTRICAL EQUIPMENT, DEVICES AND SYSTEMS SHALL BE GROUNDED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL NEW BRANCH CIRCUIT WIRING.

5. ALL CONDUCTORS SHALL BE COPPER TYPE "THWN\THHN" RATED AT 600 VOLTS, UNLESS OTHERWISE NOTED.

6. ALL CONDUITS EXPOSED SHALL BE (RGS) RIGID GALVANIZED STEEL.

7. ALL CONDUITS CONCEALED SHALL BE "EMT".

8. FLEXIBLE STEEL CONDUIT SHALL NOT BE USED.

9. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL ELECTRICAL CONDITIONS THAT MAY AFFECT HIS BID AND HE SHALL INCLUDE ALL SUCH COSTS WHEN SUBMITTING HIS BID PROPOSAL. NO EXTRAS WILL BE ALLOWED IF THE CONTRAC-TOR DID NOT VISIT THE EXISTING JOB SITE AND TAKE INTO CONSIDERATION ALL EXISTING ELECTRICAL CONDITIONS.

10. THE CONTRACTOR SHALL EXERCISE CARE AND PRUDENCE WHEN RUNNING CONDUIT BELOW GRADE. ALL DAMAGES INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11. SCHEDULE OF WORK

    ANY WORK TO BE PERFORMED IN EXISTING BUILDINGS DURING SCHOOL SESSIONS MUST BE PLANNED BY THE CONTRACTOR IN ADVANCE. THE SCHEDULING SHALL BE DONE IN COOPERATION WITH THE SCHOOL PRINCIPAL WHO WILL MAKE AVAILABLE TO THE CONTRACTOR FOR THE PERFORMANCE OF THIS WORK, PORTIONS OF BUILDING WHICH MAY NORMALLY BE IN USE.

12. CONTINUITY OF EXISTING ELECTRICAL SYSTEMS

    A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF POWER, LIGHT COMMUNICATION, SIGNAL, FIRE ALARM AND SECURITY SYSTEM SERVICE TO THE EXISTING BUILDINGS.

    B. REFRIGERATION MOTORS SHALL BE KEPT OPERATING AT ALL TIMES, EXCEPT FOR PERIODS OF TIME NOT AGGREGATING MORE THAN TWO HOURS IN ANY ONE DAY AND DURING THE VACATION PERIOD. NOTIFY THE DISTRICT BEFORE DISCONNECTING REFRIGERATION MOTORS.

13. SHOP DRAWINGS

    A. WITHIN TEN (10) DAYS AFTER RECEIPT OF CONTRACT, SUBMIT TO ARCHI-TECT SEVEN (7) COMPLETE SETS OF DRAWINGS FOR ALL ELECTRICAL EQUIP-MENT AND DEVICES LISTED BELOW. DO NOT DELIVER THESE ITEMS TO THE JOB SITE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER.

    B. SUBMIT DRAWINGS FOR THE FOLLOWING EQUIPMENT:

       1) FIRE ALARM SYSTEM DEVICES AND EQUIPMENT
       2) TERMINAL CABINETS AND WIRE GUTTERS

14. GUARANTEE

    THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP. GUARANTEE PERIOD SHALL START AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

15. CLEAN-UP

    UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND UNUSED MATERIALS, TOOLS AND EQUIPMENT RESULTING FROM THIS WORK.

16. DRAWINGS AND SPECIFICATIONS

    ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN SOME RESPECTS. SIZES AND LOCA-TION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY IN THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFF-SETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

FIRE ALARM NOTES:

1. FURNISH AND INSTALL NEW CONTROL PANEL, DEVICES AND WIRING AS INDICATED ON THE DRAWINGS PER THE FOLLOWING:
   A) THE GENERAL CONTRACTOR UNDER THIS CONTRACT IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT, WIRE, BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS (INCLUDING ANY AND ALL RELATED CUTTING AND PATCH WORK REQUIRED).
2. STATEMENTS OF COMPLEANCE REQUIRED WITH REQUEST FOR FINAL TEST/ACCEPTANCE. CFC 901.2.1
3. OCCUPANCY PROHIBITED UNTIL FIRE ALARM TEST/ APPROVED CFC 901.5.1
4. RECORDS TO REMAIN ON PREMISES WITHIN THREE YRS. CFC 901.6.2
5. SMOKE DETECTORS TESTED BY CALIBRATED SENSITIVITY MANUFACTURER EQUIPMENT CFC 907.20.4

   SMOKE DETECTORS TESTED BY CALIBRATED SENSITIVITY MANUFACTURER EQUIPMENT CFC 907.20.4
6. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
7. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
8. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
9. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
10. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
11. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA.
12. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
13. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
14. AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS.
15. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
16. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
17. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE LOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
18. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
19. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
20. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
21. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
22. FIRE ALARM PANEL REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
23. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK HANDLE IN "ON" POSITION. THE CIRCUIT BREAKERS SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT I.D. TO BE LABELED AT FIRE PANEL/EXTENDERS.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 4.5.2.1.
25. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE FINISHED FLOOR.
26. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
27. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
28. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

NOTES:

1. THE ELECTRICAL DRAWINGS INDICATE NEW WORK. EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACING IS REQUIRED.
2. CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
3. THE ELECTRICAL PLANS ARE DEVELOPED FROM AS-BUILT DRAWINGS. THE CONTRAC-TOR IS RESPONSIBLE TO PROVIDE CIRCUIT CONTINUITY FOR A WORKABLE SYSTEM.
4. EACH EMPTY CONDUIT SHALL HAVE A PULL CORD INSTALLED IN IT.
5. ALL ELECTRICAL SYMBOLS SHOWN ON SCHEDULES ARE NOT NECESSARILY USED ON THIS PROJECT.
6. VERIFY EXACT LOCATION OF ALL EXISTING ELECTRICAL SWITCHGEAR, SIGNAL CABINETS (TEL/INTERCOM, F.A.CABLE TV., AND SECURITY) PRIOR TO BID AND INSTALLATION AND NOTIFY SCHOOL DISTRICT OF ANY DISCREPANCY WITH THEIR PLANS.
7. EACH PANELBOARD SHALL BE GROUNDED WITH A 3/4" X 10' LONG COPPER CLAD STEEL GROUND ROD.
8. MAKE ALL FINAL CONNECTIONS TO PANELBOARDS IN PORTABLE CLASSROOMS.

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

NTD ARCHITECTURE
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KEYNOTES

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KEY PLAN

SEAL

AGENCY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 1 1 3 5 9 6
ACV FLS SV SS LC
DATE 3-22-2011

PROJECT
PASADENA CITY COLLEGE
BUILDING "R"
TOILET ROOMS RENOVATION

DRAWING TITLE
NOTES, ELECTRICAL/FA SPECS AND DETAILS

NO.	DATE	ISSUE
1	3-29-11	DSA CORR.

DRAWN BY: CAD
PROJECT NO.: 2007-SH20.00
CHECKED BY: DLE
©DATE: 8-14-10
DRAWING NO.: E-3.2
SHEET OF