

NAC NO 161-16043  
DRAWN TC  
CHECKED DB  
DATE 06-28-2017

SYMBOLS AND ABBREVIATIONS

SYMBOLS

COLUMN GRID	
BUILDING / WALL SECTION	
DRAWING MANE	
ELEVATION INDICATOR	
MATCH LINE	
ROOM MARK	
INTERIOR ELEVATION	
ENLARGED AREA DETAIL MARK	
ENLARGED SECTION DETAIL MARK	
EXTERIOR ELEVATION	
DOOR MARK	
REVISION CLOUD	

ABBREVIATIONS

AT	ASPHALT CONCRETE	FLEX	FLEXIBLE	PL	PLATE, PROPERTY LINE
ABC	ANCHOR BOLT	FLOR	FLORESCENT	PLBG	PLUMBING
AC	ACCUUSTICAL CEILING	FP	FIREPROOF	PLM	PLAIN
ADJ	ADJACENT	F.S.	FINISH SLAB	PNL	PANEL
AFF	ABOVE FINISH FLOOR	FR	FIRE RETARDANT	PO	POWER OPERATED
AGG	AGGREGATE	FRP	FIBER REIN PLASTIC	POT	PATH OF TRAVEL
ALT	ALTERNATE	FT	FOOT, FEET	PR	PAIR
ALUM	ALUMINUM	FT	FOOT, FEET	PSF	POUNDS PER SQUARE FOOT
ANCH	ANCHOR, ANCHORAGE	FTG	FURRED IN	PT	POINT, PAINT
ANDZ	AND ZED	FUR	FURRED IN	PTD	PAPER TOWEL DISPENSER
BD	BOARD	FUT	FUTURE	PTR	PAPER TOWEL RECEPTOR
BFF	BELOW FINISH FLOOR	GA	GAGE (GAUGE)	PVC	POLY VINYL CHLORIDE
BLDG	BUILDING	GALV	GALVANIZED	PVMT	PAVEMENT
BLKING	BLOCKING	GC	GENERAL CONTRACTOR	PWD	PLYWOOD
BM	BENCH MARK	GL	GLAZING	QTR	QUARTER
BO	BOTTOM OF	GWB	GYPSPUM WALLBOARD	QTY	QUANTITY
BOT	BOTTOM	GYP	GYPSPUM	R	RECESSED
BRG	BEARING	HIT	HEIGHT	RI	RADIUS, RISER, ROUND
BRSHT	BASIN	HB	HOSE BIBB	RA	RETURN AIR
BUR	BUILT UP ROOFING	HC	HOLLOW CORE	RB	RESILIENT BASE
C	CHANNEL	HDBO	HARDBOARD	RCP	REFLECTED CEILING PLAN
C/C	CENTER TO CENTER	HD	HEAVY DUTY	REFI	REFERENCE
CAB	CABINET	HDWD	HARDWOOD	RELO	RELOCATION
CB	CHALK BOARD, CATCH BASIN	HEWR	HARDWARE	REPL	REPLACE
CBM	CEMENT	HM	HOLLOW METAL	RES	RESILIENT
CG	CORNER GUARD	HR	HORIZONTAL	REV	REVISIONS, REVISED
CI	CAST IRON	HP	HIGH POINT	RFG	RIGID FIBERGLASS
CJ	CAST IN PLACE	HR	HOUR	RH	RIGHT HAND
CJ	CONTROL JOINT	HVAC	HEATING/VENTILATING/	RM	ROOM
CL, CLK	CLOCK	HW	HOT WATER	RO	ROUGH OPENING
CLG	CEILING, CHAIN LINK GATE	ID	INSIDE DIAMETER	ROW	RIGHT OF WAY
CLR	CLEARANCE	IE	INVERT ELEVATION	REQD	REQUIRED
CMP	CORRUGATED METAL PIPE	IN	INCLUDING	RWL	RAINWATER LEADER
CMTS	COMMENTS	INCL	INCLUDING	S	SEALED, SOUTH
CMU	CONCRETE MASONRY UNIT	INSL	INSULATION	SI	SURFACE MOUNTED
CO	CLEAN OUT	INT	INTERIOR	SC	SOLID CORE
COL	COLUMN	JC	JANITOR'S CLOSET	SCHED	SCHEDULE
CON	CONCRETE	JT	JOINT	SECT	SECTION
CONC	CONCRETE	KB	KNOCKED DOWN	SD	STANDARD
CONN	CONNECTION	KP	KICK PLATE	SDG	SQUARE FEET
CONST	CONSTRUCTION	L	LENGTH LONG	SF	SQUARE FEET
CONT	CONTINUOUS OR CONTINUE	LAB	LABORATORY	SH	SHEET
CORR	CORRIDOR, CORRUGATED	LAM	LAMINATE	SIMR	SIMILAR
CARPET	CARPET	LAV	LAVATORY	SM	SHEET METAL
CSK	COUNTERSINK	LF	LINEAL FEET	SMS	SHEET METAL SCREWS
CT	CERAMIC TILE	LH	LEFT HAND	SP	SOUNDPROOF
CU FT	CUBIC FEET	LL	LONG LEG VERTICAL	SPL	SPEAKER
CW	COLD WATER	LLH	LONG LEG HORIZONTAL	SQ	SPECIAL
D	DEPTH	LLV	LONG LEG VERTICAL	SS	SQUARE
DEM	DEMOLISH, DEMOLITION	LP	LOW POINT	S.S.	SERVICE SINK
DF	DRINKING FOUNTAIN	LWT	LIGHT WEIGHT	ST	STAINLESS STEEL
DG	DECOMPOSED GRANITE	LVR	LOUVER	STC	STREET
DIA	DIAMETER	MAS	MASONRY	STC	SOUND TRANSMISSION
DIA	DIAGONAL	MAS	MASONRY	STL	STANDARD
DIM	DIMENSION	MB	MARKER BOARD	STL	STEEL
DISP	DISPENSER	MATL	MATERIAL	STR	STORAGE
DN	DOWN	MECH	MECHANICAL	STRUC	STRUCTURAL
DD	DITTO	MET_MTL	METAL	SUSP	SUSPENDED
DP	DAMP PROOFING	MEZZ	MEZZANINE	SV	SEAMLESS VINYL
DR	DOOR	MFR	MANUFACTURER	SW	SWITCH
DS	DOWNSPOUT	MH	MAN HOLE	SWR	SEWER
DTL	DETAIL	MIN	MINIMUM	SYH	SYMMETRY (CAL)
DWG	DRAWING	MISC	MISCELLANEOUS	T	THICKNESS
DWC	DRYWALL CHANNEL	MO	MASONRY OPENING	TD	TRENCH DRAIN
E	EXISTING	MOD	MODULAR	TB	TASK BOARD
E	EAST	MOV	MOVABLE	TEL	TELEPHONE
EA	EACH	MOTD	MOUNTED	TEMP	TEMPERATURE,
EDF	ELECTRIC	MWP	METAL WALL PANEL	TEMP	TEMPORARY
EF	EACH FACE	N	NEW	THK	THICKNESS
EJ	EXPANSION JOINT	N	NORTH	TD	TOP OF
ELEC	ELECTRICAL	NA	NOT APPLICABLE	TOC	TOP OF CONCRETE
ELAST	ELEVATION, ELEVATOR	NIC	NOT IN CONTRACT	TOL	TOILET
ELEV	ELEVATION, ELEVATOR	NOR	NORTH	TOP	TOP OF PARAPET
EMER	EMERGENCY	NS	NOT SCALE	TOS	TOP OF STEEL
EP	EPOXY PAINT	NTS	NOT TO SCALE	TOW	TOP OF WALL
EPDM	ETHYLENE PROPYLENE	NO	NUMBER	TRD	TOILET PAPER DISPENSER
EQ	EQUAL	OA	OVERALL	TYP	TYPICAL
EQUIP	EQUIPMENT	OC	ON CENTERS	U	URNAL
ES	EXPOSED STRUCTURE	OD	OUTSIDE DIAMETER	UG	UNDERGROUND
EST	ESTIMATE	OFF	OFFICE	UL	UNDERWRITERS LABORATORY
EW	EACH WAY	OH	OVERHEAD, OPPOSITE HAND	UNF	UNFINISHED
EW	ELECTRICAL WATER COOLER	OPN	OPENING	UNL	UNLESS NOTED OTHERWISE
EXC	EXCAVATION	OPP	OPPOSITE	VCT	VINYL COMPOSITION TILE
EXH	EXHAUST	ORD	OVERFLOW ROOF DRAIN	VERT	VERTICAL
EXIST	EXISTING	OS	OUTSIDE	VNR	VENEER
EXP	EXPANSION	P.PNT	PIANTIED	VPL	VENEER PLASTER
EXT	EXTERIOR	PAR	PARALLEL	VWC	VINYL WALL COVERING
F	FABRICATE	PART	PARTITION	W	WIDTH
FA	FIRE ALARM	PART BO	PARTICLE BOARD	W/D	WITHOUT
FAB	FABRICATE	PC	PIECE	W/W	WALL TO WALL
FD	FLOOR DRAIN	PCC	PRECAST CONCRETE	WC	WATER CLOSET
FBN	FOUNDATION	PCF	POUNDS PER CUBIC FOOT	WD	WOOD
FE	FIRE EXTINGUISHER	PERF	PERFORATED	WG	WIRE GLASS
FEC	FIRE EXTINGUISHER CABINET	PERM	PERMETER	WH	WALL HUNG, WATER HEATER
FF	FINISH FLOOR	PERP	PERPENDICULAR	WM	WIRE MESH
F.G.	FINISH GRADE	PH	PANIC HARDWARE	WP	WATERPROOFING
FHC	FIRE HOSE CABINET	PREFAB	PREFABRICATED	WR	WATER REPELLENT
FHR	FIRE HOSE RACK	PJ	PANEL JOINT	WS	WEATHER-STRIP
FIN	FINISHED	PJP	PENETRATION	WSC	WAINSCOT
FJ	FALSE JOINT			WT	WEIGHT
FLA	FLASHING			WWF	WELDED WIRE FABRIC
				YD	YARD

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APP # 3 117998  
AC FLS SS  
Date AUG 11 2017

**KEYNOTES**

KEY	TEXT	KEY	TEXT	KEY	TEXT
S1	(E) PLANTING AREA	S28	(E) STORAGE CONTAINER	S37	(E) ASPHALT BERM
S5	(E) CONCRETE PAVING	S29	(E) PLANTER	S38	(E) TRASH ENCLOSURE
S6	(E) CONCRETE PAVING	S30	(E) ORNAMENTAL METAL FENCE	S39	(E) ASPHALT PAVING
S8	(E) ASPHALT PAVING	S31	(E) CHAIN LINK FENCE	S40	(E) HIGH IMPACT SURFACE +PLAY STRUCTURE
S10	(E) CONCRETE RAMP	S32	(E) CONCRETE STAIRS	S42	(E) CHAINLINK FENCE
S11	(E) CONCRETE STAIRS	S33	(E) CONCRETE RAMP	S43	PROPERTY LINE - TYP.
S17	(E) CURB CUT	S34	(E) LUNCH SHELTER		
S18	(E) PLANTING AREA	S35	(E) COLUMN		
S19	(E) CONCRETE RETAINING WALL	S36	(E) GATE		

**GENERAL SITE NOTES**

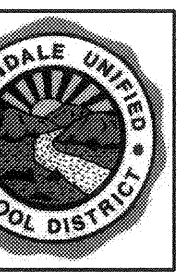
- A. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK NOT NOTED ON ARCHITECTURAL DRAWINGS.
- B. GENERAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL SUB-CONTRACTORS PRIOR TO PERFORMING WORK SHOWN IN CONTRACT DOCUMENTS.
- C. GENERAL CONTRACTOR SHALL VERIFY ALL (E) SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- D. GENERAL CONTRACTOR SHALL CLEAN AREA OF WORK DAILY AND PROVIDE BARRICADES AT ALL AREAS OF CONSTRUCTION.

**DSA PROJECT STATUS**

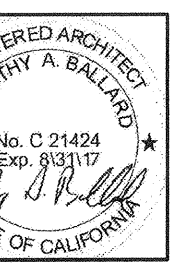
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50260	Certified	03.04.1998
54482	Certified	03.02.1995
58640	Void	04.30.1998
59840	Certified	06.30.1998
61519	#3	12.08.1998
61533	Certified	09.18.1997
61534	Certified	04.03.1998
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65596	Certified	09.16.1998
65649	Certified	01.08.1999
65725	Certified	06.30.1999
104939	Certified	06.09.2003
109832	Certified	01.09.2013
114627	Certified	08.28.2012
115013	Certified	05.14.2014
116253	Certified	08.28.2015

**REVISIONS**

CONSTRUCTION DOCUMENTS



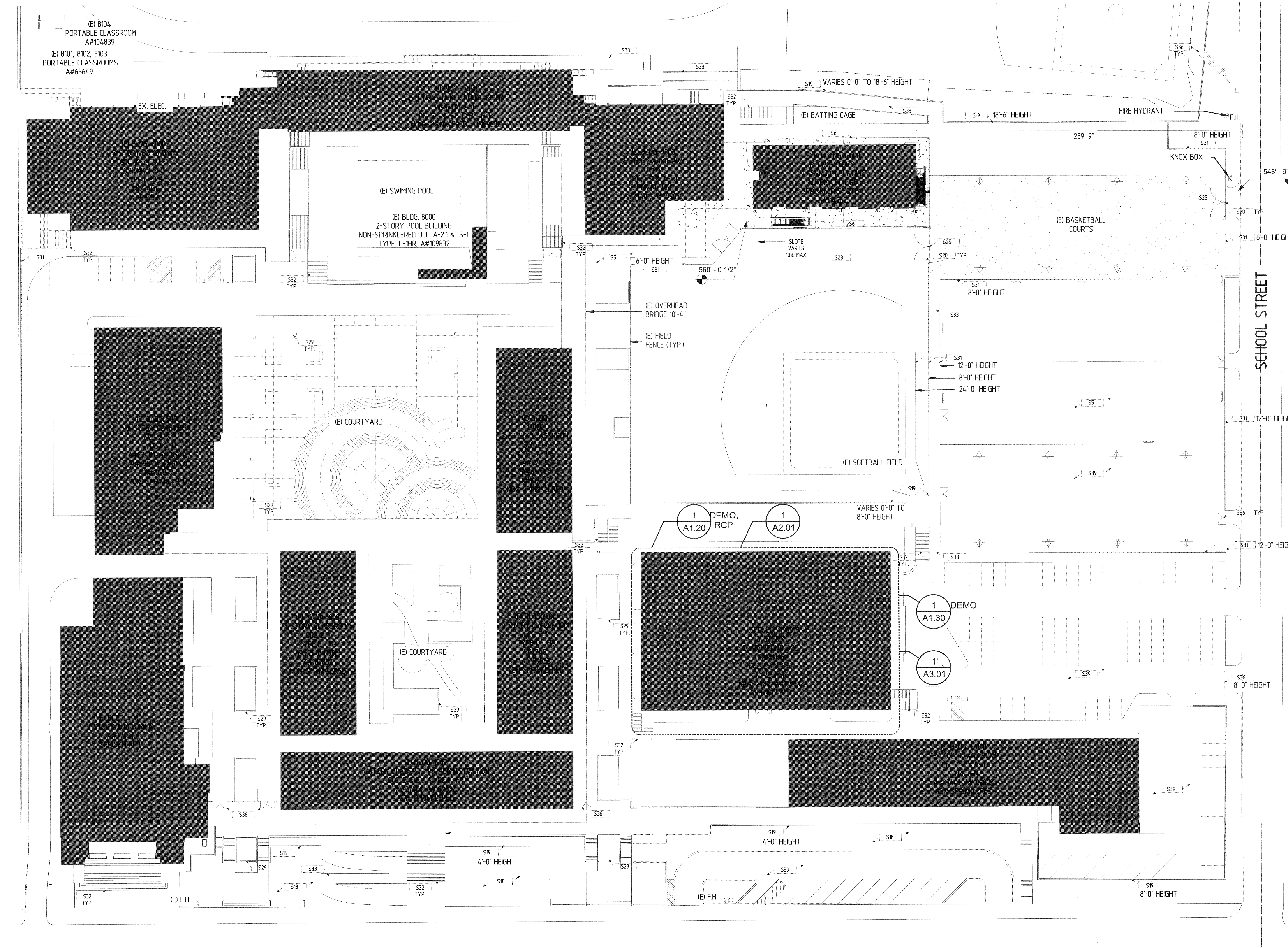
GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL- HVAC UPGRADE**  
651 GLENWOOD RD.  
GLENDALE, CA 91201



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837 NORTH SPRING STREET, THIRD FLOOR  
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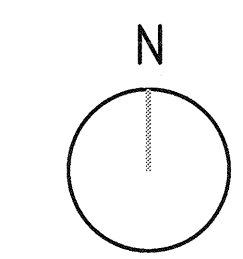
KEY SITE PLAN/ CODE PLAN

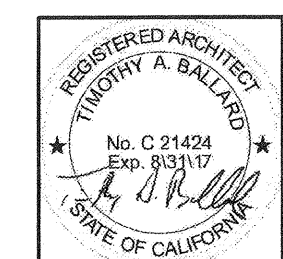
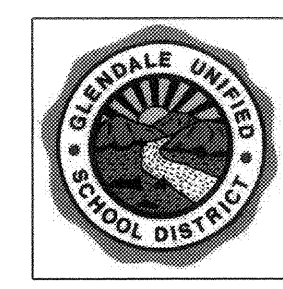
**A1.01**



**1 SITE PLAN**  
SCALE: 1/8" = 1'-0"

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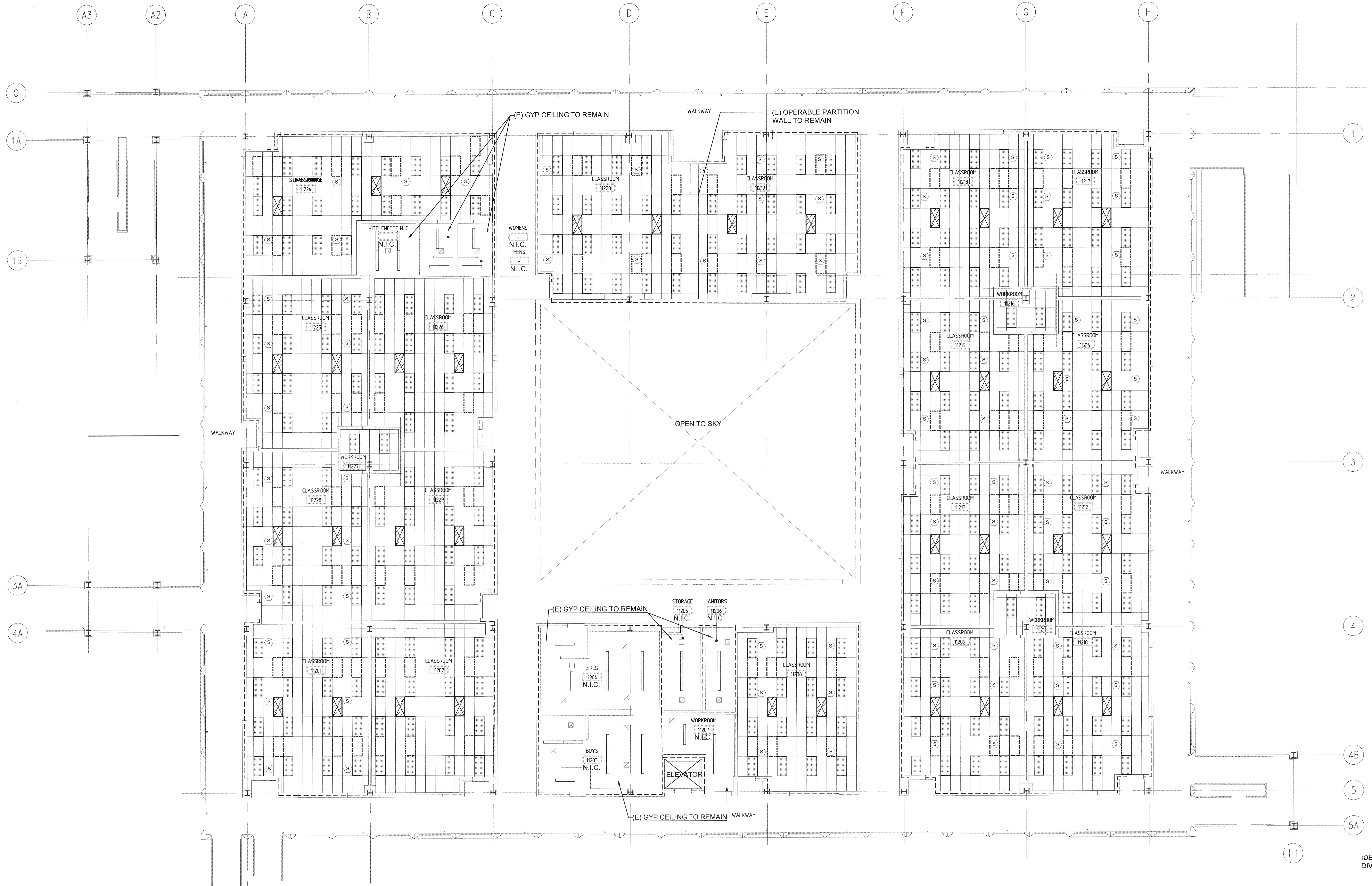




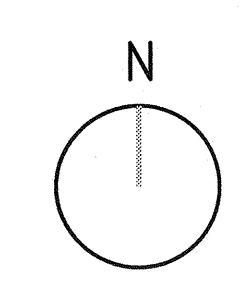
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SECOND FLOOR  
REFLECTED CEILING  
DEMO PLAN  
**A1.20**



1 SECOND FLOOR REFLECTED CEILING DEMO PLAN  
SCALE: 1/8" = 1'-0"

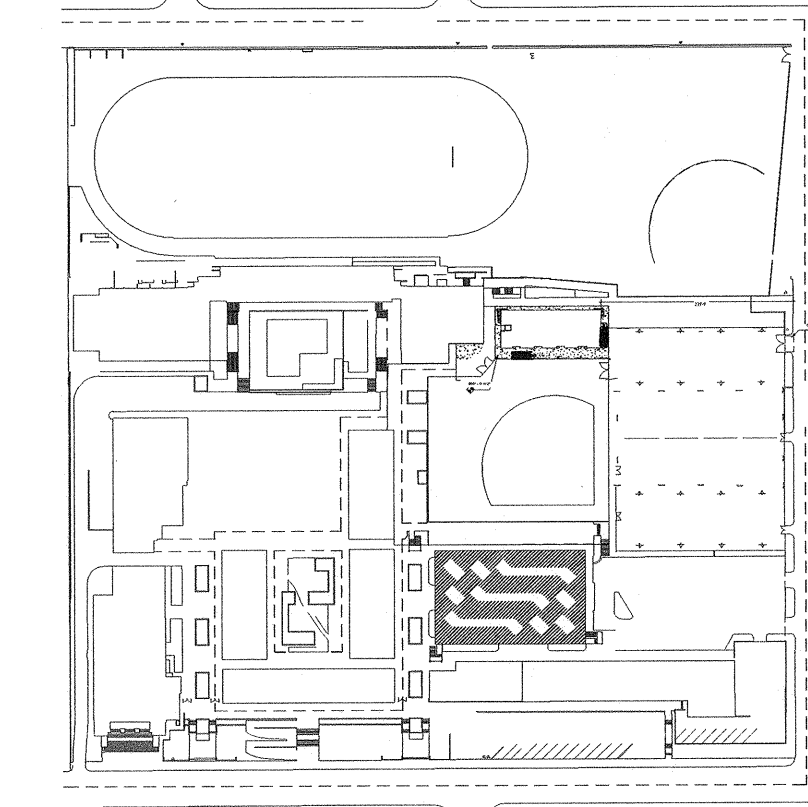


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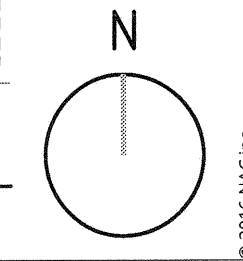
- SEE MECHANICAL DRAWING MD1.01 FOR THE REMOVAL OF EXISTING FAN COIL UNITS AND ASSOCIATED ATTACHMENTS
- CONTRACTOR TO PROVIDE MINIMUM 15 CEILING TILES PER ROOM TO ACCOUNT FOR DAMAGED TILES. TILES TO MATCH EXISTING ADJACENT CEILING TILES.
- CONTRACTOR TO DUST, CLEAN AND REPAIR CEILING GRID AS NECESSARY AFTER INSTALLATION IS COMPLETE.
- CONTRACTOR TO MAKE SURE ALL LIGHT FIXTURE LENSES ARE SECURELY ATTACHED TO GRID BEFORE COMPLETION OF PROJECT.
- CONTRACTOR TO PROTECT EXISTING CEILING GRID AND ATTACHMENTS
- AT (E) FAN COILS TO BE REMOVED, (E) UNISTRUT/EG. CARRIER TO REMAIN, PROTECT IN PLACE.

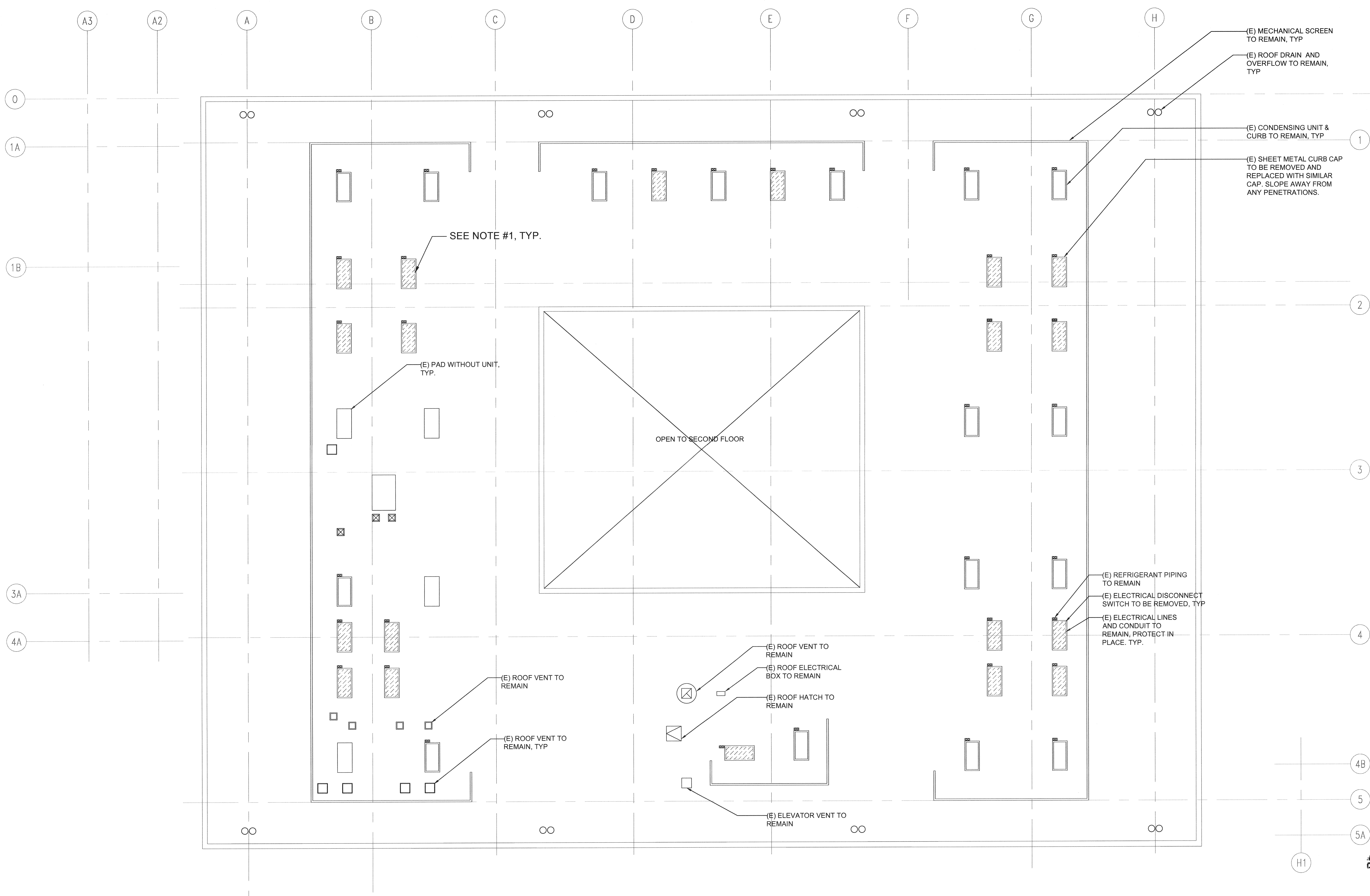
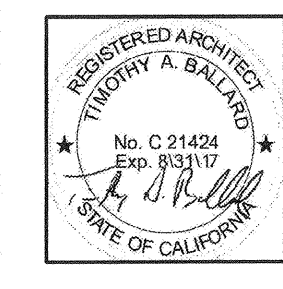
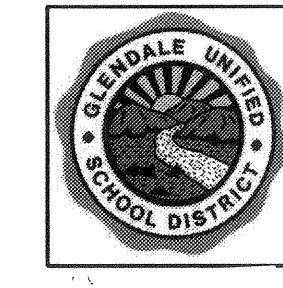
LEGEND

- (E) FAN COIL TO BE REMOVED
- (E) LIGHTS TO REMAIN
- (E) REGISTERS TO REMAIN
- (E) SPRINKLERS TO REMAIN
- REMOVE (E) CEILING TILE
- (E) 1 HR RATED WALL

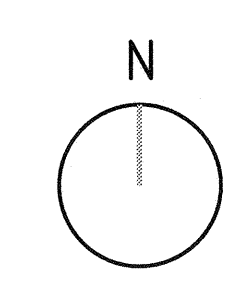


KEY PLAN  
SCALE: NTS





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

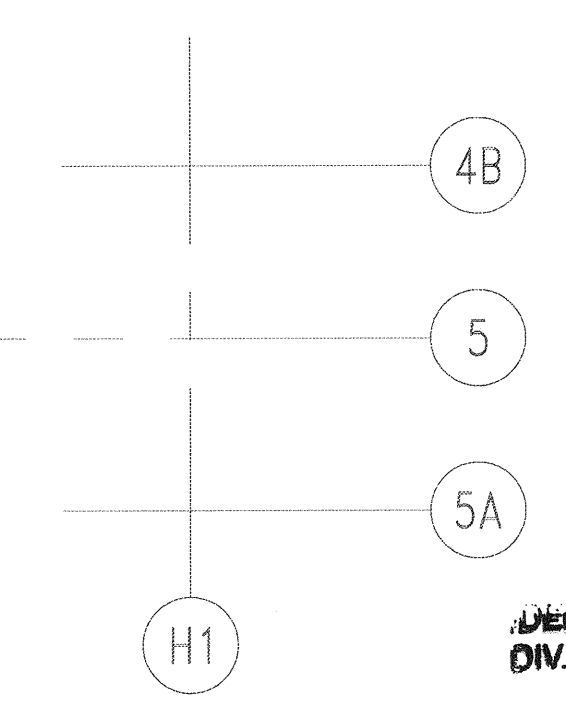


**NOTES**

- SEE MECHANICAL MD 2.01 FOR HEAT PUMP UNITS TO BE REMOVED. PATCH AND REPAIR SURFACES AFTER REMOVAL OF EXISTING UNITS AND ITS ASSOCIATED UTILITIES AND ATTACHMENTS.
- CONTRACTOR TO COORDINATE REMOVAL & INSTALLATION OF (E) UNITS, UTILITIES, AND EQUIPMENT WITH ROOFING MANUFACTURER AND (E) ROOFING WARRANTY REQUIREMENTS IN ORDER TO PRESERVE WARRANTIES.

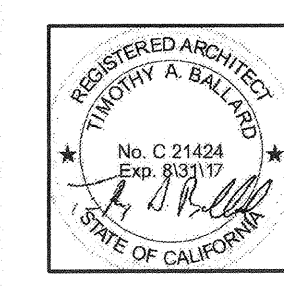
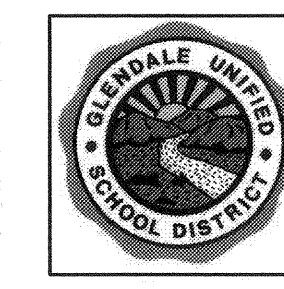
**LEGEND**

- (E) HEAT PUMPS TO BE REMOVED
- (E) MECHANICAL EQUIPMENT TO REMAIN PROTECT IN PLACE



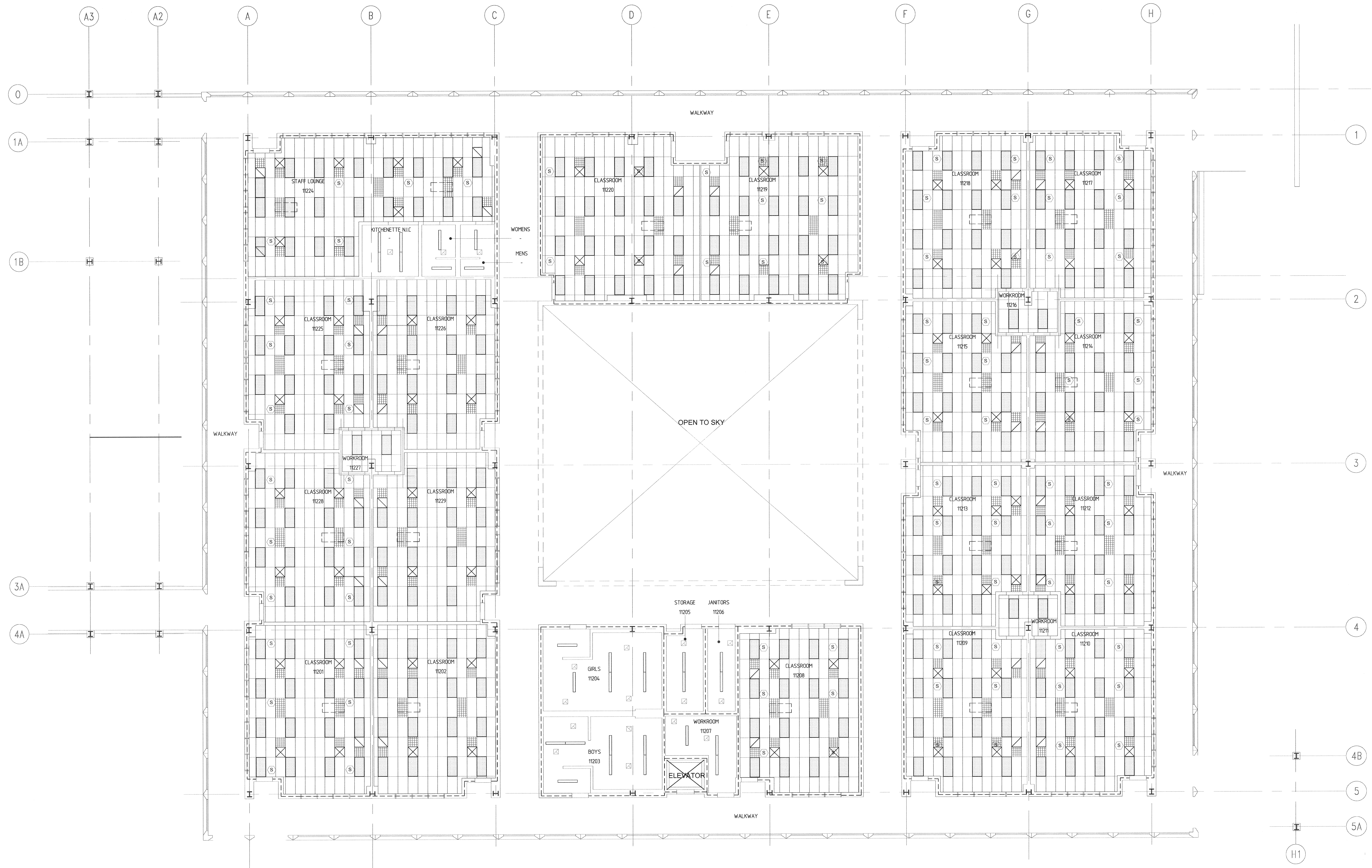
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SCALE: NTS

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AC FLS 98  
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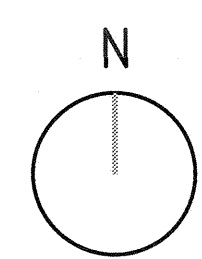


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NAC NO: 161-16043  
DRAWMAN: TC  
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2ND FLOOR  
REFLECTED CEILING  
PLAN

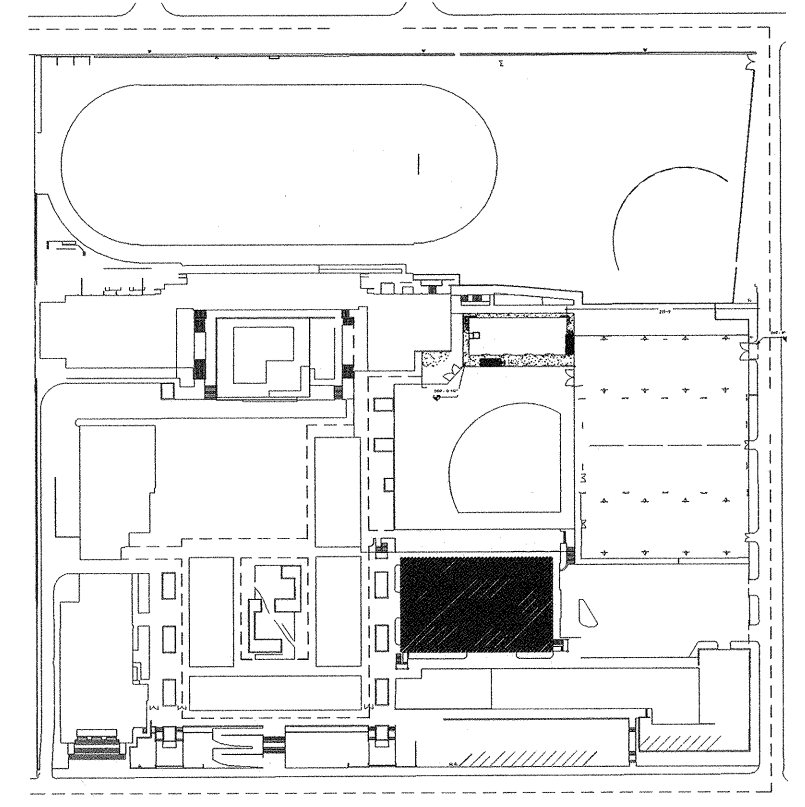


**1 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

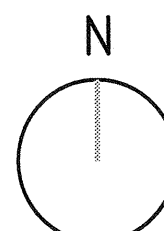


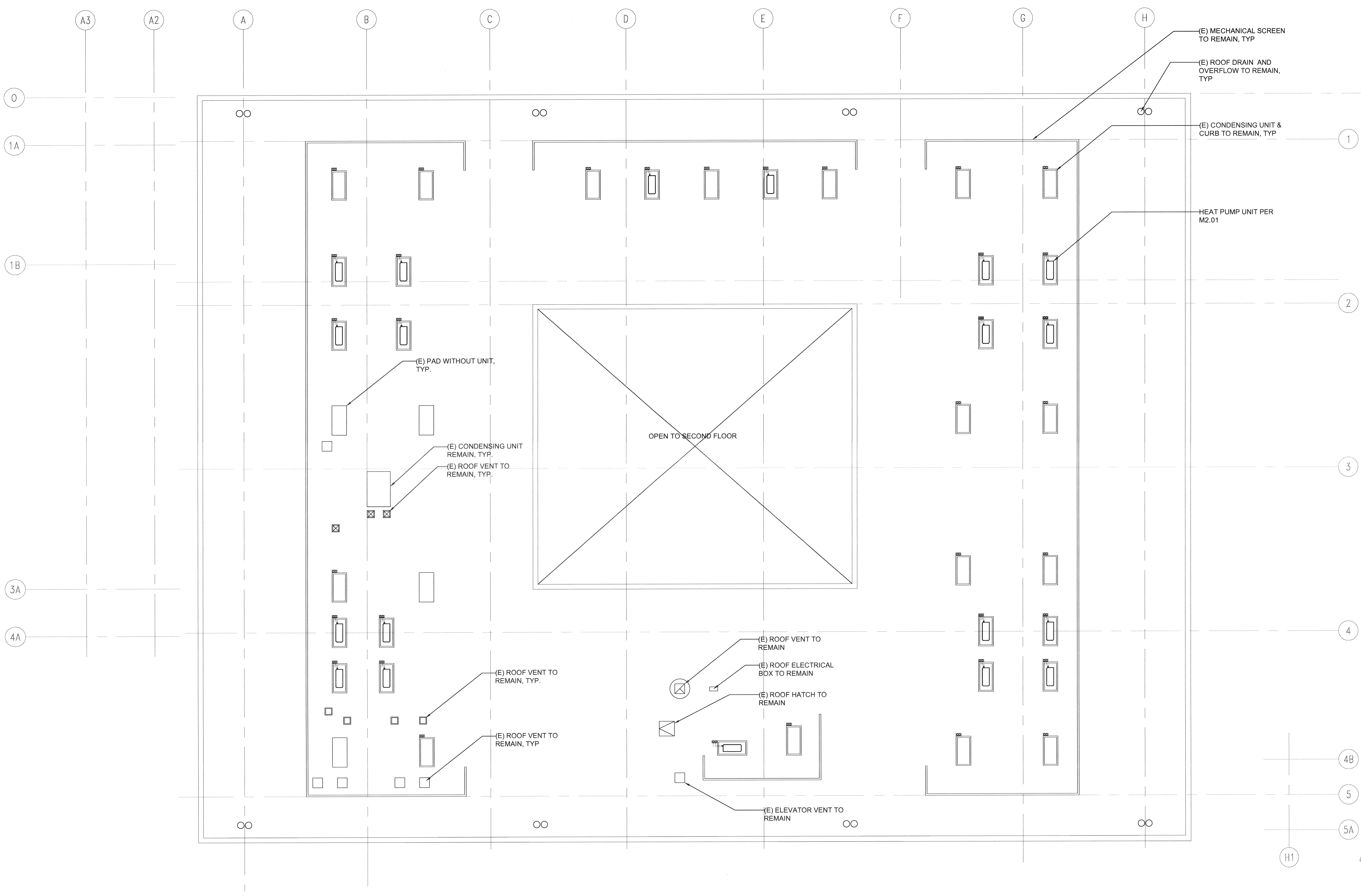
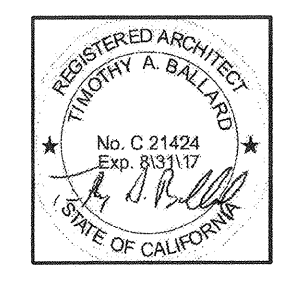
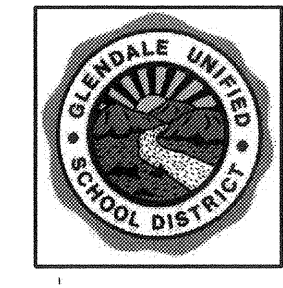
**LEGEND**

- REGISTERS
- (E) LIGHTS TO REMAIN
- FAN COIL, SEE M1.01
- (E) SPRINKLER HEADS TO REMAIN
- 1-HR RATED WALL
- 2X2 ACOUSTIC CEILING TILE @ GRILL LOCATIONS  
PROVIDE GRILL CEILING DIVIDER AT EACH GRILL, TYP
- 4X2 CEILING TILE TO MATCH ADJACENT EXISTING

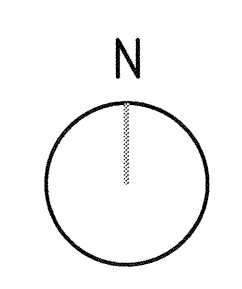


**KEY PLAN**  
SCALE: NTS

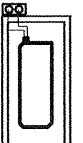





1 ROOF PLAN  
SCALE: 1/8" = 1'-0"

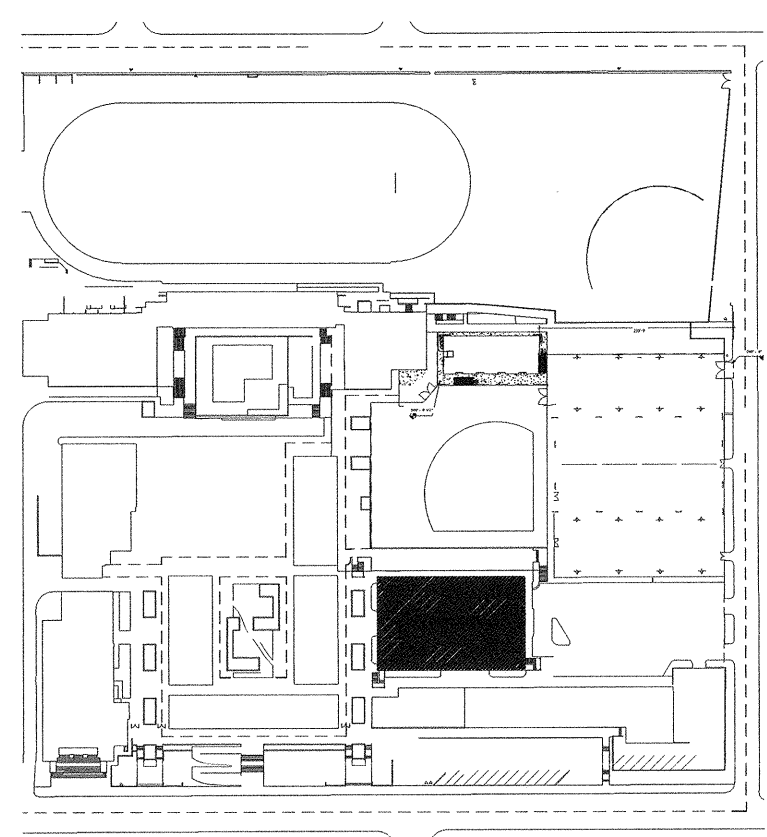


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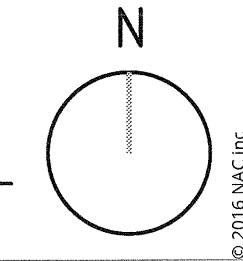
-  HEAT PUMP UNIT
-  (E) MECHANICAL EQUIPMENT TO REMAIN

NOTES

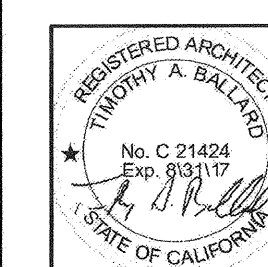
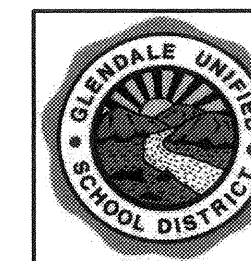
- A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT ROOF WHERE WORK WILL OCCUR PRIOR TO STARTING ANY NEW CONSTRUCTION. CONTACT THE ARCHITECT IF ANY DISCREPANCIES OR UNFORESEEN CONDITIONS OCCUR, ALSO, PRIOR TO, AND DURING ANY DEMOLITION, THE GENERAL CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
- B. GENERAL CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL SUBCONTRACTORS FOR THE INSTALLATION OF (N) HVAC ROOFTOP UNITS.
- C. GENERAL CONTRACTOR SHALL LOCATE AND VERIFY ALL (E) VENTS AND EQUIPMENT TO REMAIN, AND SHALL PROTECT DURING CONSTRUCTION.
- D. CONTRACTOR TO PROTECT IN PLACE FIRE SPRINKLER SYSTEM.
- E. GENERAL CONTRACTOR SHALL FIELD VERIFY LOCATION AND DIMENSIONS OF ALL (E) ROOF CURBS TO REMAIN



KEY PLAN  
SCALE: NTS



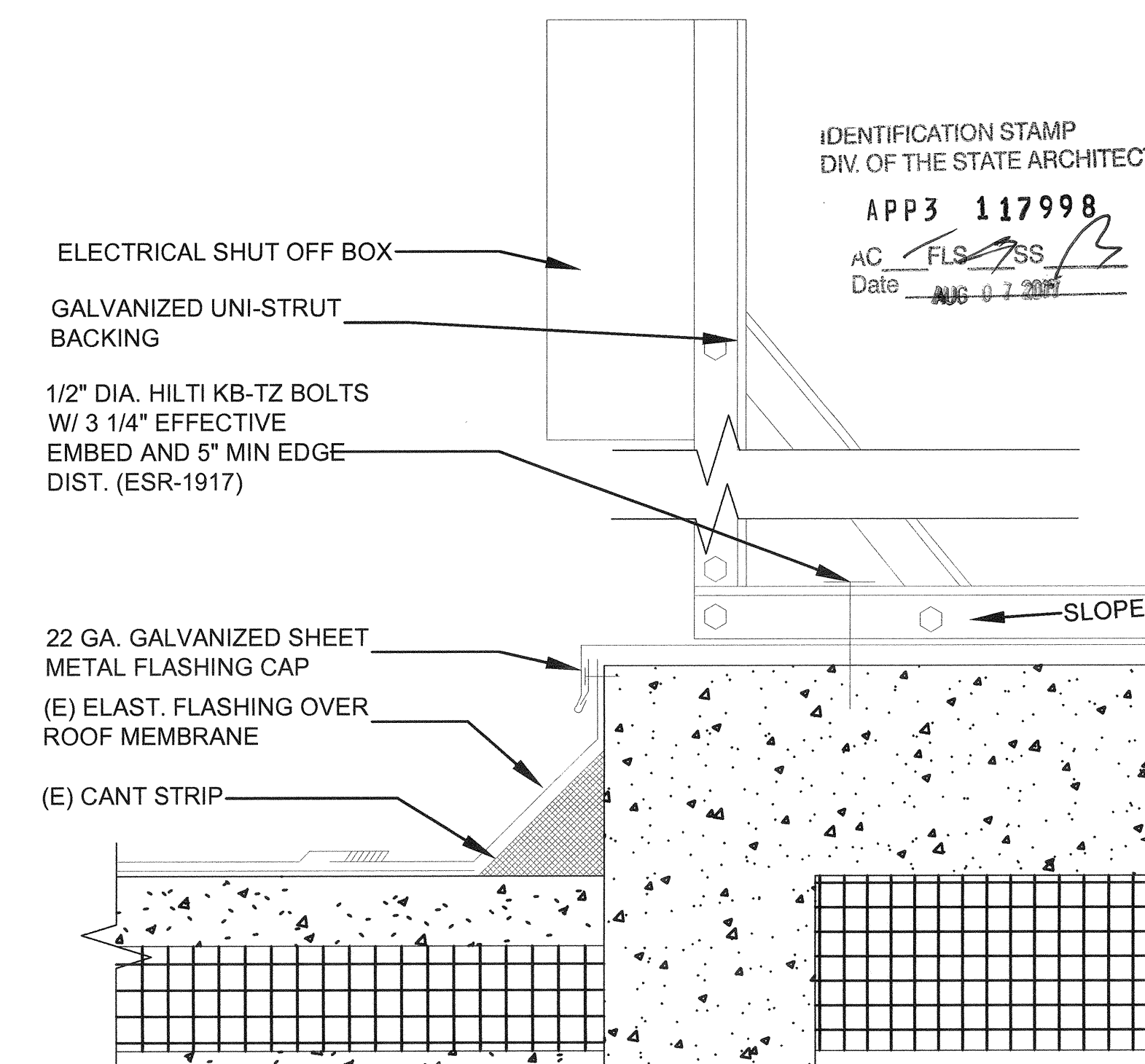
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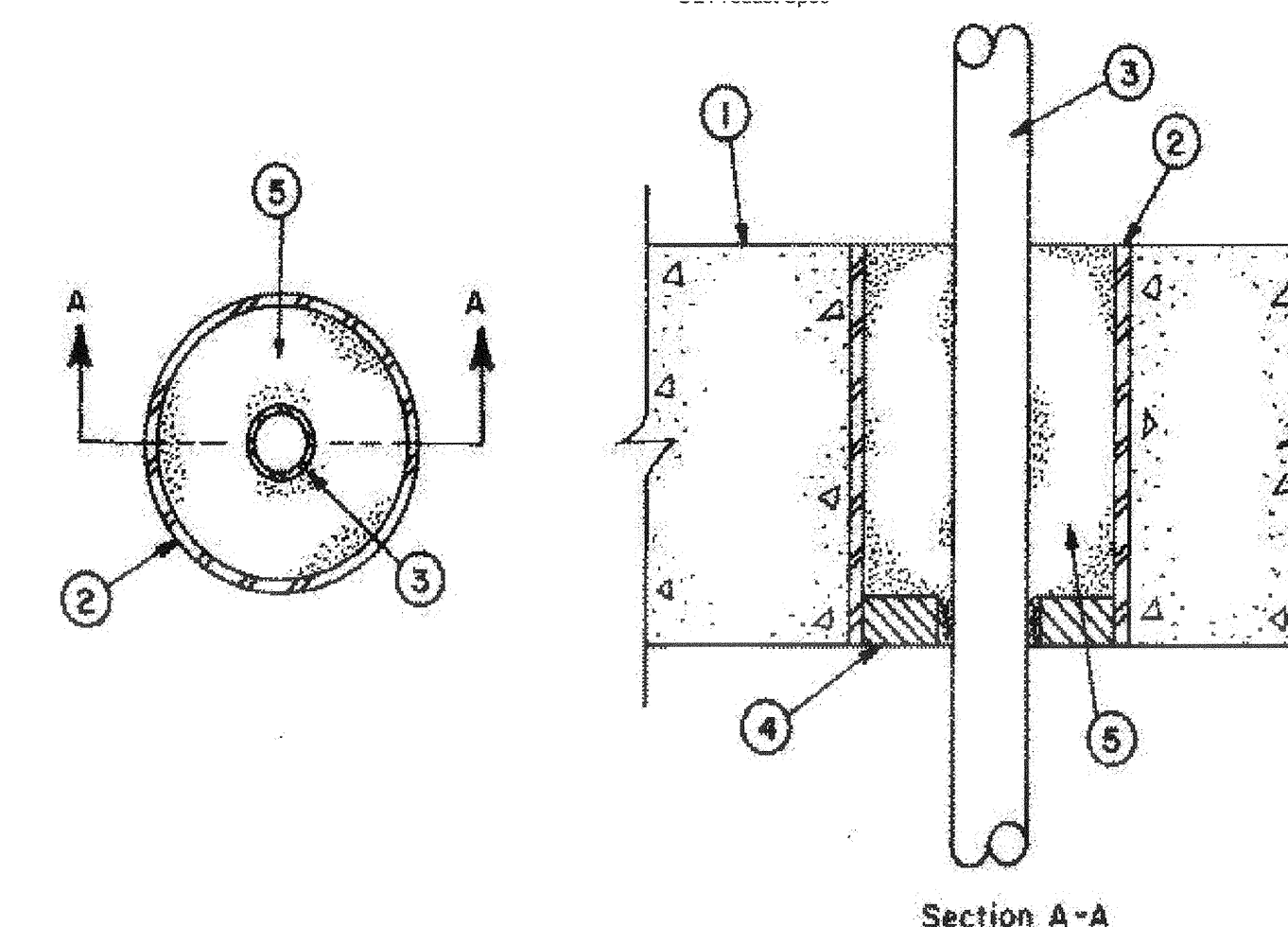
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DATE 06-28-2017

DETAILS



3 BRACING AT POWER SHUT OFF  
SCALE: 3" = 1'-0"



- Floor or Wall Assembly** — Min 8 in. thick reinforced normal weight (140-155 pcf) concrete.
- Metallic Sleeve** — Nom 6 in. diam Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- Metallic Pipe** — Nom 1-1/4 in. diam rigid galv steel conduit Schedule 5 (or heavier) steel pipe, centered in sleeve and rigidly supported on both sides of through opening.
- Forming Materials** — Used as a form and sealant to prevent leakage of the fill materials when in a liquid state.
  - A. Forming Material\*** — Min 1 in. thick boards friction-fitted into annular space between through-penetrant and periphery of opening. Forming material to be flush with bottom surface of floor or both surfaces of wall.

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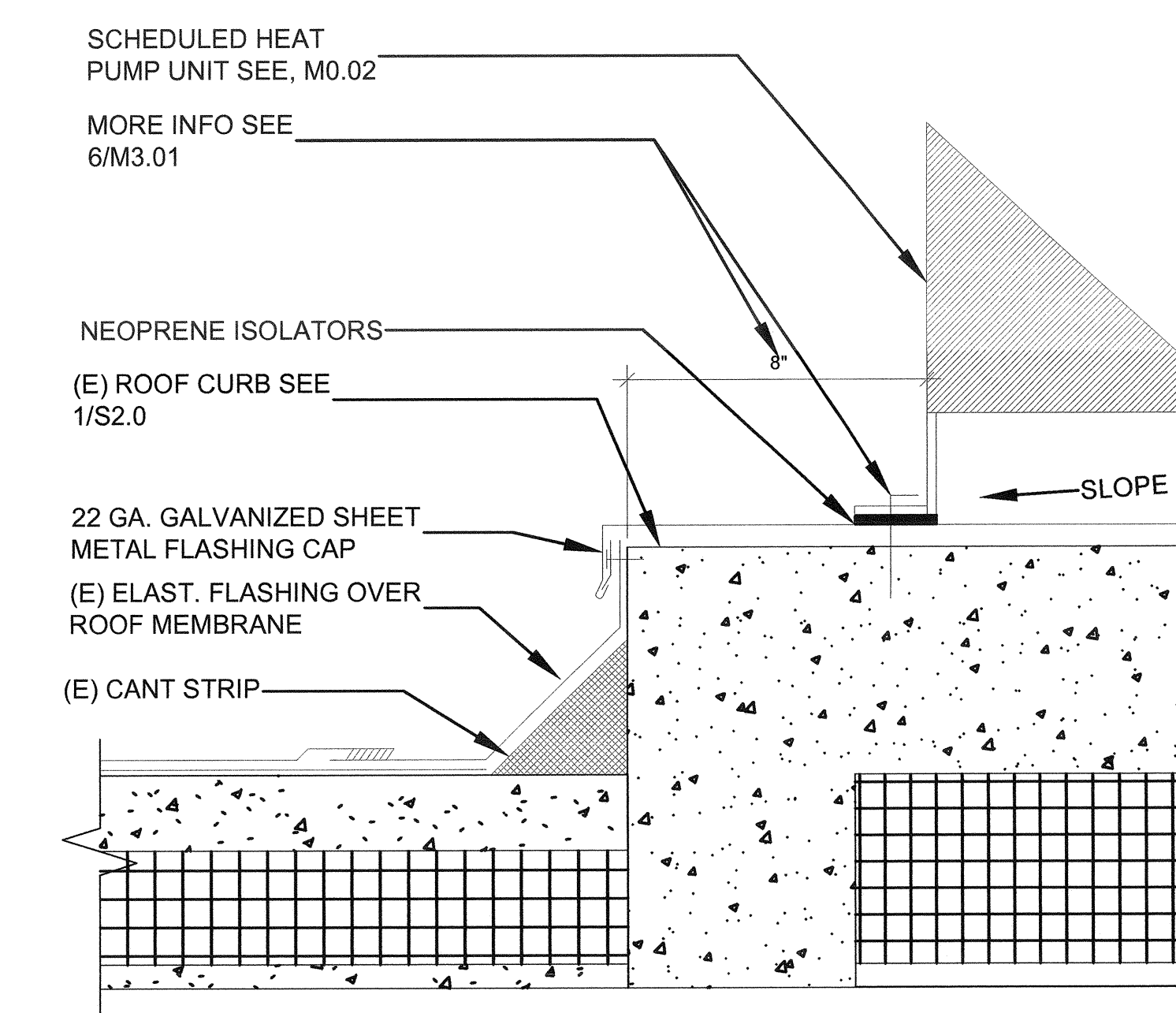
LUL Product Spec

UNIFRAX ILLC — Type LD

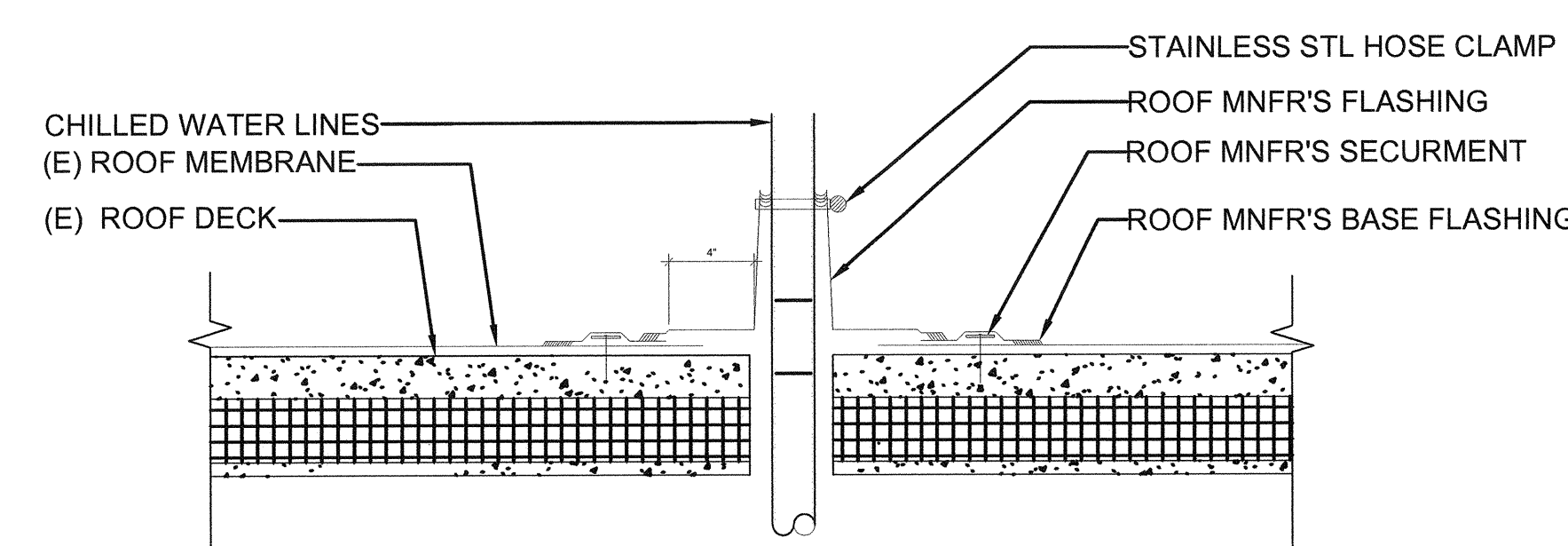
**B. Packing Material** — Loose alumina silica fiber or strips of alumina silica fiber blanket packed between form board and conduit or pipe and between form board and sleeve to prevent leakage of liquid fill material.

**5. Fill, Void or Cavity Material\*** — Min 7 in. thickness of silicone material installed as described in the manufacturer's application instructions to fill the remaining void in the opening. Density 17 pcf min, 20 pcf max. **DOW CORNING TORAY SILICONE CO LTD** — Type SE 1900

2 WALL PENETRATION DETAIL  
SCALE: 1 1/2" = 1'-0"



1 SHEET METAL CAP @ ROOF UNIT PADS



4 ROOF PIPE PENETRATION DETAIL  
SCALE: 1 1/2" = 1'-0"



S0.1	SHEET INDEX, ABBREVIATIONS & SYMBOLS
S0.2	STRUCTURAL GENERAL NOTES
S1.0	SECOND FLOOR FRAMING PLAN
S1.1	ROOF FRAMING PLAN
S2.0	DETAILS

ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
&	AND
@	AT
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BNDRY	BOUNDARY
BOT OR	BOTTOM
BRC	BRACE
BRG	BEARING
BT	BENT
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR	CAMBER
CC	CENTER TO CENTER
CRJ	CRUCIFORM
CG	CENTER OF GRAVITY
CJ	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DITTO (REPEAT)
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FF	FAR FACE
FF	FINISHED FLOOR
FIN	FINISH
FJ	FLOOR JOIST
FL	FLOOR LINE
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FULL PENETRATION; FIRE PROOFING
FRMG	FRAMING
FS	FULL SIZE; FAR SIDE
FT	FOOT; FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HGT	HEIGHT
HOSP	HOSPITAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSB	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
HR	HARD ROCK
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH

STRUCTURAL STEEL SHAPES	
W	W SHAPE
C	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
L	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	STRUCT TUBING SHAPE

SYMBOLS

	SECTION REFERENCE BUBBLE
	DETAIL REFERENCE BUBBLE WITH ARROW
	DETAIL REFERENCE BUBBLE
	FULL HEIGHT SECTION INDICATOR
	ELEVATION OF FRAME
	ELEVATION OF WALL
	NORTH ARROW
	SLOPE
	EARTH LAYER
	STEPPED SURFACE; FLOOR DEPRESSION
	SLOPPED SURFACE
	INDICATES SAND OR GROUT
	INDICATES GRAVEL
	TOP OF SLAB ELEVATION
	WELDED WIRE FABRIC (WWF LAYER)
	FOOTING TYPE
	INDICATES MASONRY WALLS
	STEEL TUBE COLUMN
	STEEL PIPE COLUMN
	WIDE FLANGE STEEL COLUMN
	MEMBER SPLICE
	TOP OF STEEL ± ELEVATION
	BEAM CAMBER AT MID-SPAN
	STEEL IN CROSS SECTION
	DIRECTION OF SPAN
	ANGLE BRACE
	DOUBLE ANGLE BRACE
	DRAG STRUT CONNECTION
	FULL HEIGHT STIFFENER CONNECTION
	MOMENT CONNECTION
	STEPPED FOOTING

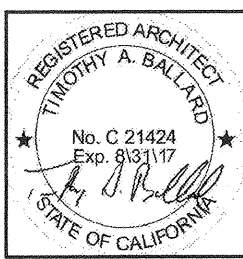
CONSTRUCTION DOCUMENTS



GLENDALE UNIFIED SCHOOL DISTRICT  
HERBERT HOOVER HIGH SCHOOL- HVAC UPGRADE  
851 GLENWOOD RD, GLENDALE, CA 91222

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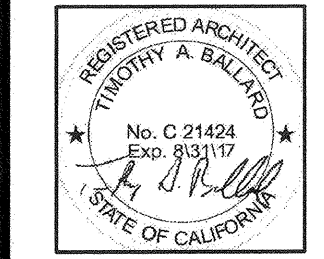
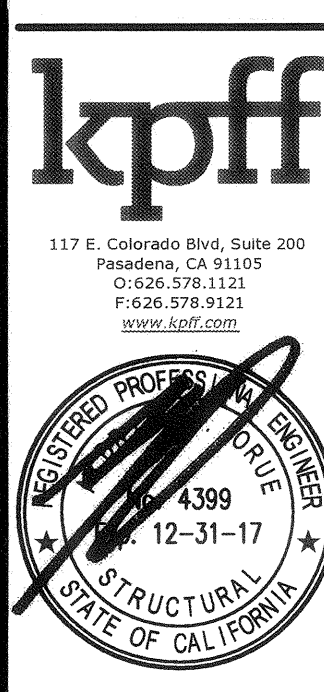


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SHEET INDEX, ABBREVIATIONS & SYMBOLS

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STRUCTURAL NOTES

- GENERAL**
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
  - ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
  - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
  - ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING:  
2016 CALIFORNIA BUILDING CODE, VOLUME 2A, REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER WHICH ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
  - SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:  
a. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED  
b. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.  
c. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.  
d. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.  
e. FLOOR AND ROOF FINISHES.  
f. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
  - SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:  
a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.  
b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.  
c. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.  
d. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
  - THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
  - OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW.
  - PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
  - ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
  - CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

DESIGN LOADS

LOCATION: 34 1659, -118.2696

- EARTHQUAKE LOADS ON NONSTRUCTURAL COMPONENTS:  
EARTHQUAKE LOADS ARE IN ACCORDANCE WITH SECTION 1613A OF THE CODE.  
 $S_D = 2.755g$   
 $S_1 = 0.938g$   
 $F_a = 1.0$   
 $F_v = 1.5$   
 $S_{M5} = 2.755g$   
 $S_{M1} = 1.407g$   
 $S_{M2} = 1.837g$   
 $S_{T1} = 0.938g$   
 $L = 1.25$   
 $\rho = 1.0$   
RISK CATEGORY III  
SITE CLASS D  
SEISMIC DESIGN CATEGORY E

$I_p = 1.0$  FOR ALL NONSTRUCTURAL COMPONENTS EARTHQUAKE LOADS ON NONSTRUCTURAL COMPONENTS, SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:  
CALCULATE  $F_p$  BASED ON ASCE 7-10 EQUATION 13.3-1 USING THE VALUE OF  $S_D$   
THE MAXIMUM AND MINIMUM VALUES FOR  $F_p$  SHALL BE DETERMINED FROM ASCE 7-10 EQUATIONS 13.3-2 AND 13.3-3, RESPECTIVELY.  
ALL EARTHQUAKE LOADS ON NONSTRUCTURAL COMPONENTS SHALL BE BASED ON THE VALUES OF  $I_p$  AND  $R_p$  FROM ASCE 7-10 TABLES 13.5-1 AND 13.6-1.

- WIND LOAD ON NON STRUCTURAL COMPONENTS  
WIND LOADS ARE IN ACCORDANCE WITH ASCE 7-10 CH 29 USING EQUATIONS 29.5-2 AND 29.3-1  
WIND SPEED, V = 115MPH  
RISK CATEGORY = III  
EXPOSURE CATEGORY = B  
WIND LOAD TO ROOF TOP UNITS = 63PSF

STRUCTURAL OBSERVATION:

- STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNEE IN ACCORDANCE WITH SECTION 1709A OF THE CODE.
- STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- A CIVIL OR STRUCTURAL ENGINEER OR ARCHITECT SHALL PERFORM THE STRUCTURAL OBSERVATION THE ENGINEER OR ARCHITECT SHALL BE REGISTERED OR LICENSED IN THE STATE OF CALIFORNIA. THE DEPARTMENT OF BUILDING AND SAFETY RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHEN THEY ARE INDEPENDENT OF THE CONTRACTOR.
- THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER, A LETTER FROM THE OWNER OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT. THE STRUCTURAL OBSERVER SHALL ALSO INFORM THE OWNER OF THE REQUIREMENTS FOR A PRECONSTRUCTION MEETING AND SHALL PRESIDE OVER THIS MEETING.
- THE CONTRACTOR SHALL COORDINATE AND CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE, AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETINGS SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
- THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

CONSTRUCTION STAGES	ELEMENTS/CONNECTIONS TO BE OBSERVED
a. EQUIPMENT ANCHORAGE	ANCHORS LAYOUT

- THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STATE OF CONSTRUCTION OBSERVED. A COPY OF THE OBSERVATION REPORT SHALL BE SENT TO DSA, OWNER, CONTRACTOR, AND PROJECT INSPECTOR.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS

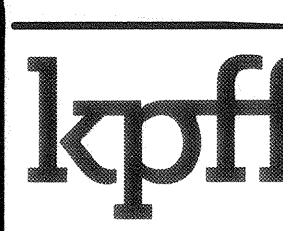
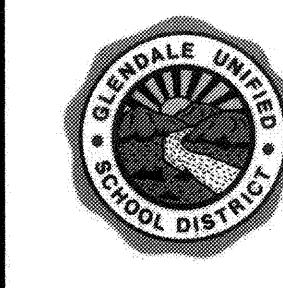
- STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17A OF THE 2013 CBC.
- THE SPECIAL INSPECTOR MUST BE APPROVED BY DSA, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- THE SPECIAL INSPECTORS AND TESTING FIRM MUST BE HIRED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE BUILDING OFFICIAL, OWNER, AND STRUCTURAL ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS, OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE BUILDING OFFICIAL, COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.

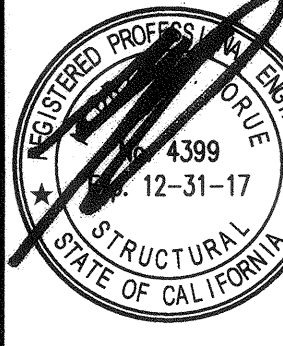
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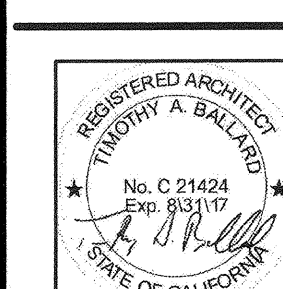
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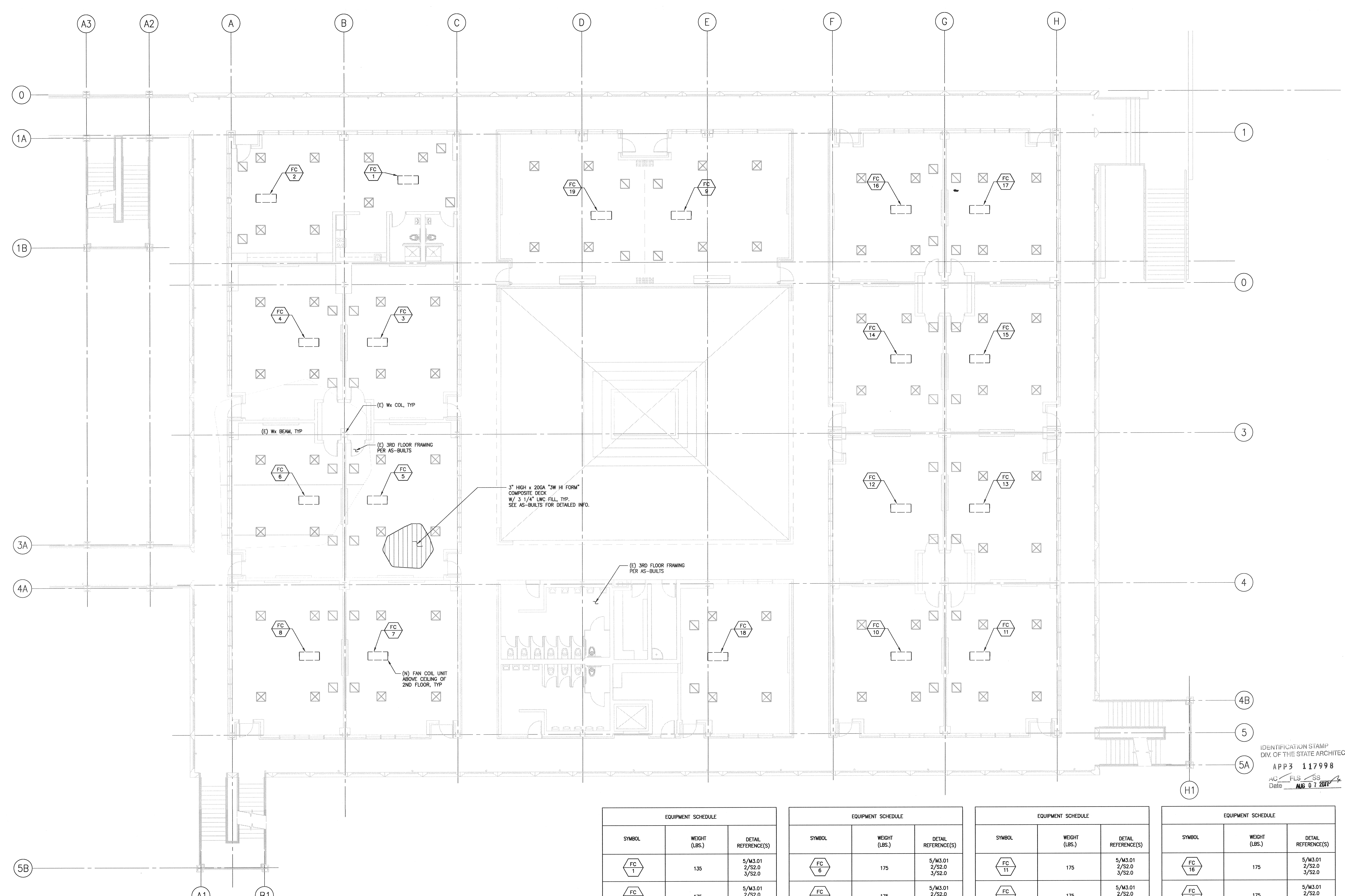


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323.424.8028

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SECOND FLOOR FRAMING PLAN

**S1.0**



3" HIGH x 20GA "3W HI FORM"  
COMPOSITE DECK  
W/ 3 1/4" LWC FILL, TYP.  
SEE AS-BUILTS FOR DETAILED INFO.

(E) Wx BEAM, TYP  
(E) Wx COL, TYP  
(E) 3RD FLOOR FRAMING  
PER AS-BUILTS

(N) FAN COIL UNIT  
ABOVE CEILING OF  
2ND FLOOR, TYP

1 SECOND FLOOR REFLECTED FRAMING PLAN  
SCALE = 1/8"=1'-0"

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
FC 1	135	5/M3.01 2/S2.0 3/S2.0
FC 2	175	5/M3.01 2/S2.0 3/S2.0
FC 3	175	5/M3.01 2/S2.0 3/S2.0
FC 4	175	5/M3.01 2/S2.0 3/S2.0
FC 5	175	5/M3.01 2/S2.0 3/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
FC 6	175	5/M3.01 2/S2.0 3/S2.0
FC 7	175	5/M3.01 2/S2.0 3/S2.0
FC 8	175	5/M3.01 2/S2.0 3/S2.0
FC 9	175	5/M3.01 2/S2.0 3/S2.0
FC 10	175	5/M3.01 2/S2.0 3/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
FC 11	175	5/M3.01 2/S2.0 3/S2.0
FC 12	175	5/M3.01 2/S2.0 3/S2.0
FC 13	175	5/M3.01 2/S2.0 3/S2.0
FC 14	175	5/M3.01 2/S2.0 3/S2.0
FC 15	175	5/M3.01 2/S2.0 3/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
FC 16	175	5/M3.01 2/S2.0 3/S2.0
FC 17	175	5/M3.01 2/S2.0 3/S2.0
FC 18	175	5/M3.01 2/S2.0 3/S2.0
FC 19	175	5/M3.01 2/S2.0 3/S2.0

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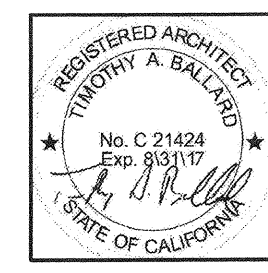
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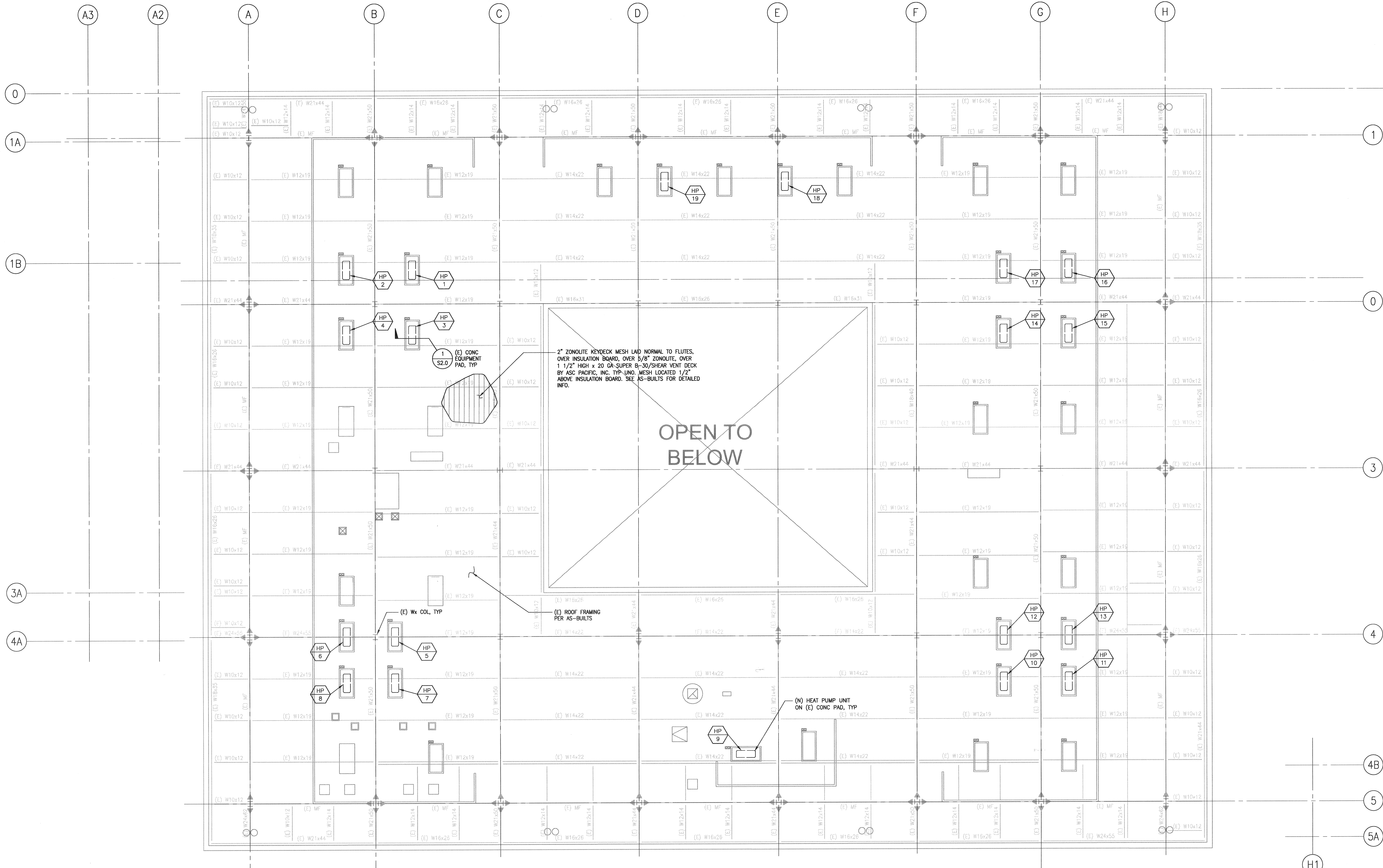


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ROOF FRAMING PLAN

**S1.1**



**1 ROOF PLAN**  
SCALE = 1/8"=1'-0"

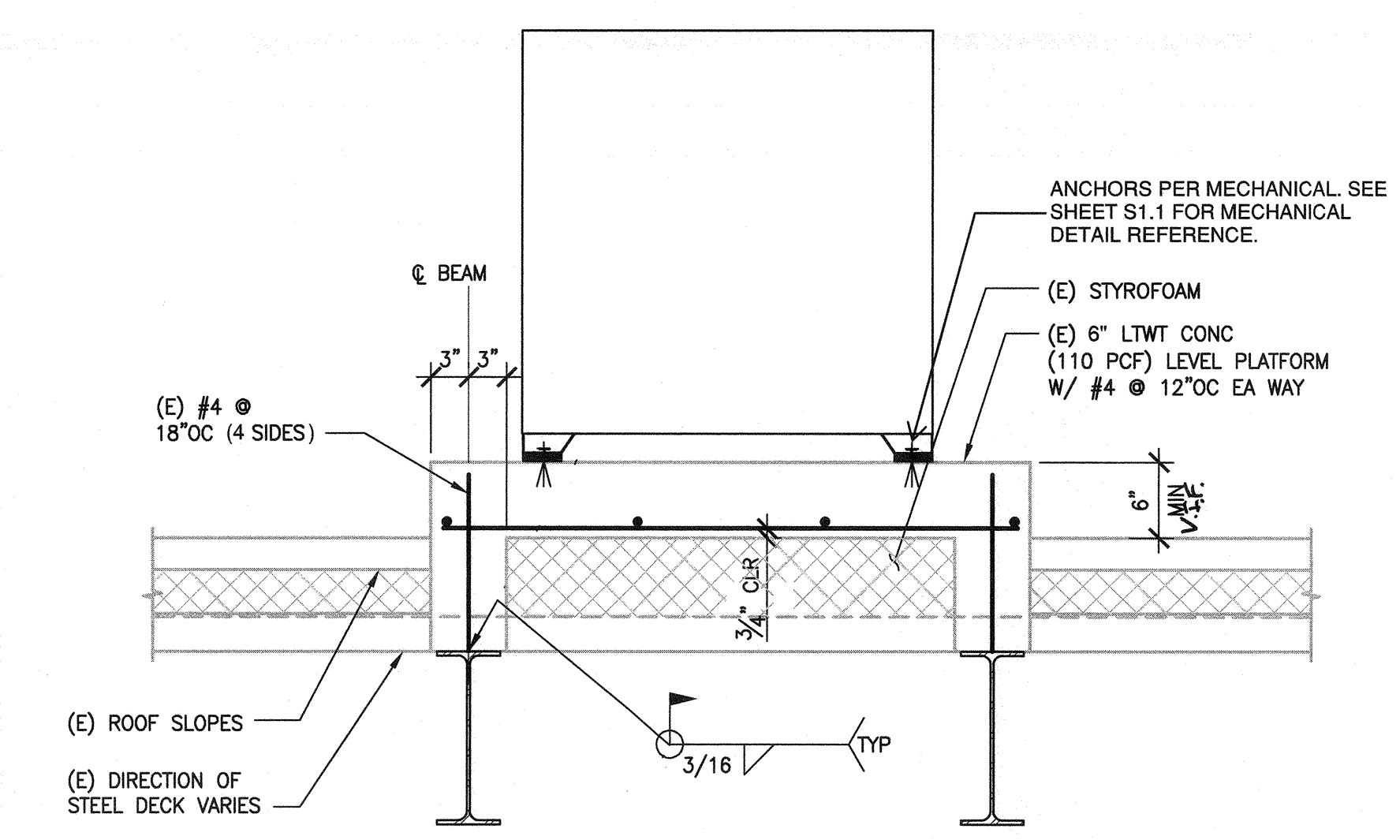
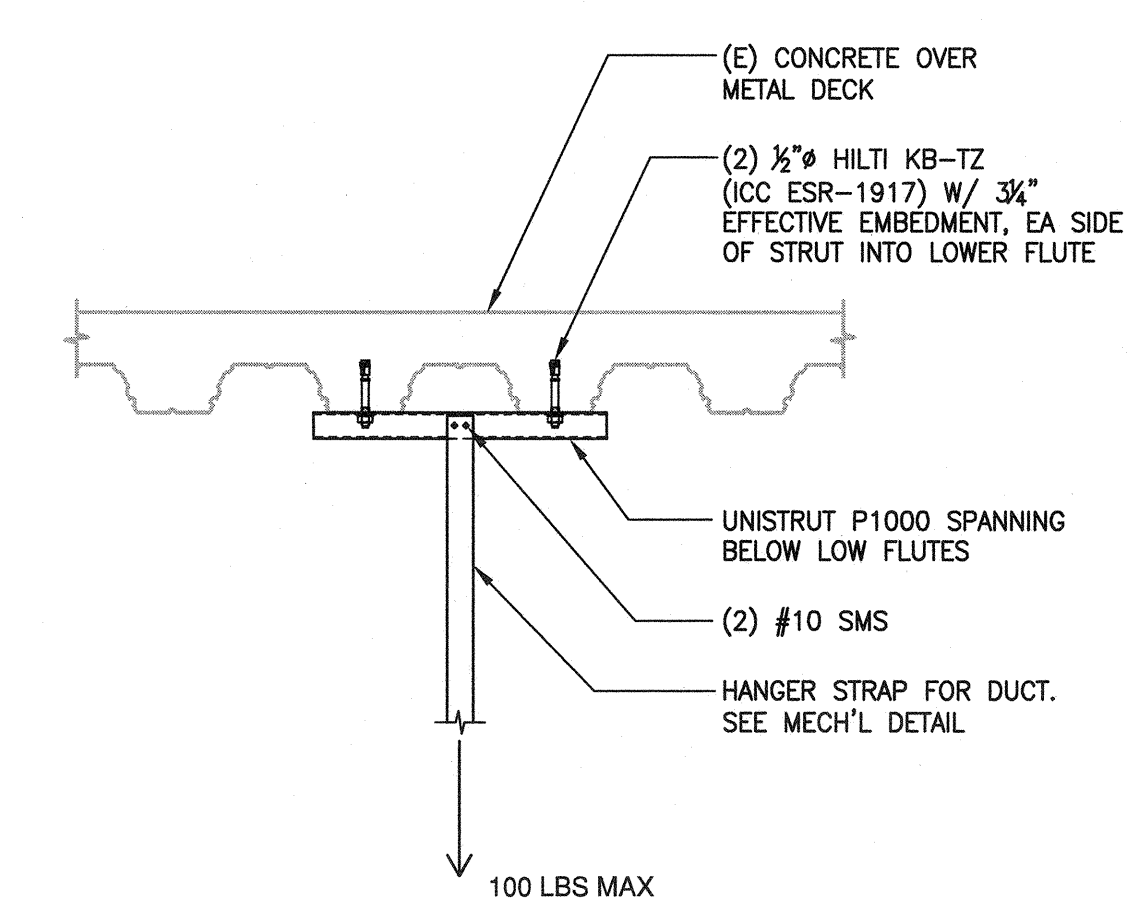
EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
HP 1	200	6/M3.01 1/S2.0
HP 2	250	6/M3.01 1/S2.0
HP 3	250	6/M3.01 1/S2.0
HP 4	250	6/M3.01 1/S2.0
HP 5	250	6/M3.01 1/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
HP 6	250	6/M3.01 1/S2.0
HP 7	250	6/M3.01 1/S2.0
HP 8	250	6/M3.01 1/S2.0
HP 9	250	6/M3.01 1/S2.0
HP 10	250	6/M3.01 1/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
HP 11	250	6/M3.01 1/S2.0
HP 12	250	6/M3.01 1/S2.0
HP 13	250	6/M3.01 1/S2.0
HP 14	250	6/M3.01 1/S2.0
HP 15	250	6/M3.01 1/S2.0

EQUIPMENT SCHEDULE		
SYMBOL	WEIGHT (LBS.)	DETAIL REFERENCE(S)
HP 16	250	6/M3.01 1/S2.0
HP 17	250	6/M3.01 1/S2.0
HP 18	250	6/M3.01 1/S2.0
HP 19	250	6/M3.01 1/S2.0

File: k:\071\160228\160228-10-30-Hoover\_High\_School\_Building\_11000\_HMC\_Upgrade\3-D\Drawn\160228LS1.dwg  
User: jk  
Date: 160228-10-30-16:46:46 Auto-Plot Date: 5-2016.dwg

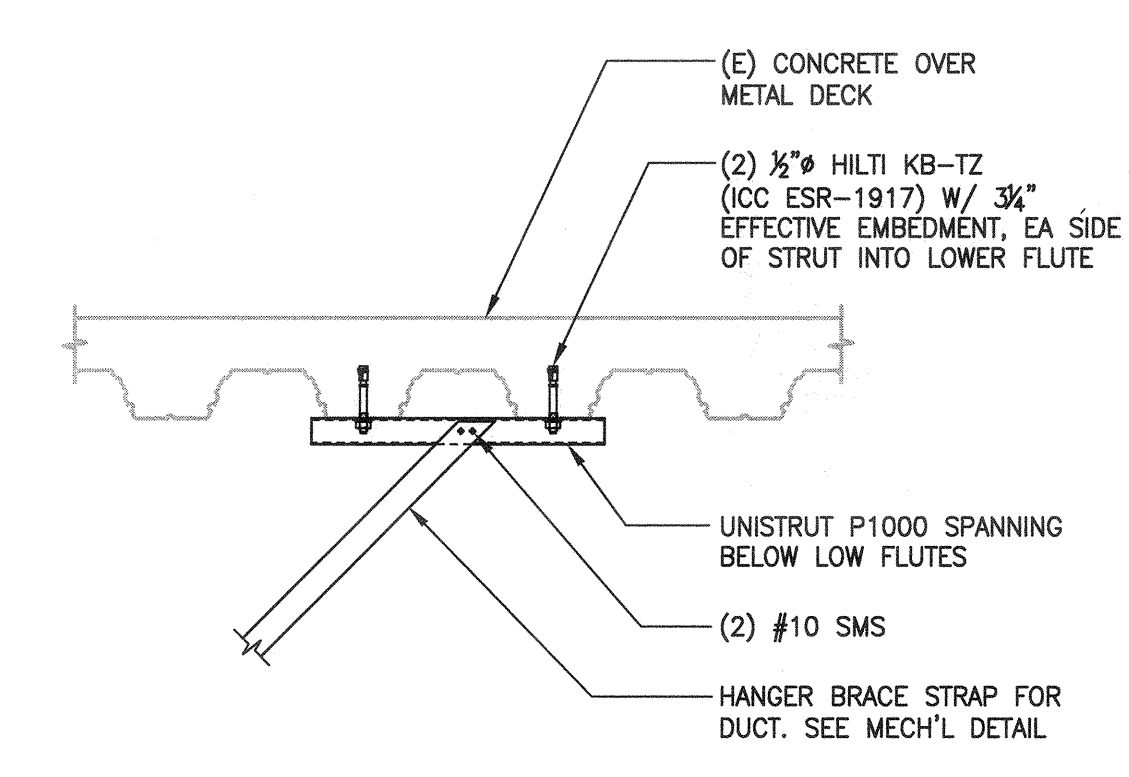


DUCT HANGER CONNECTION

1"=1'-0" 4

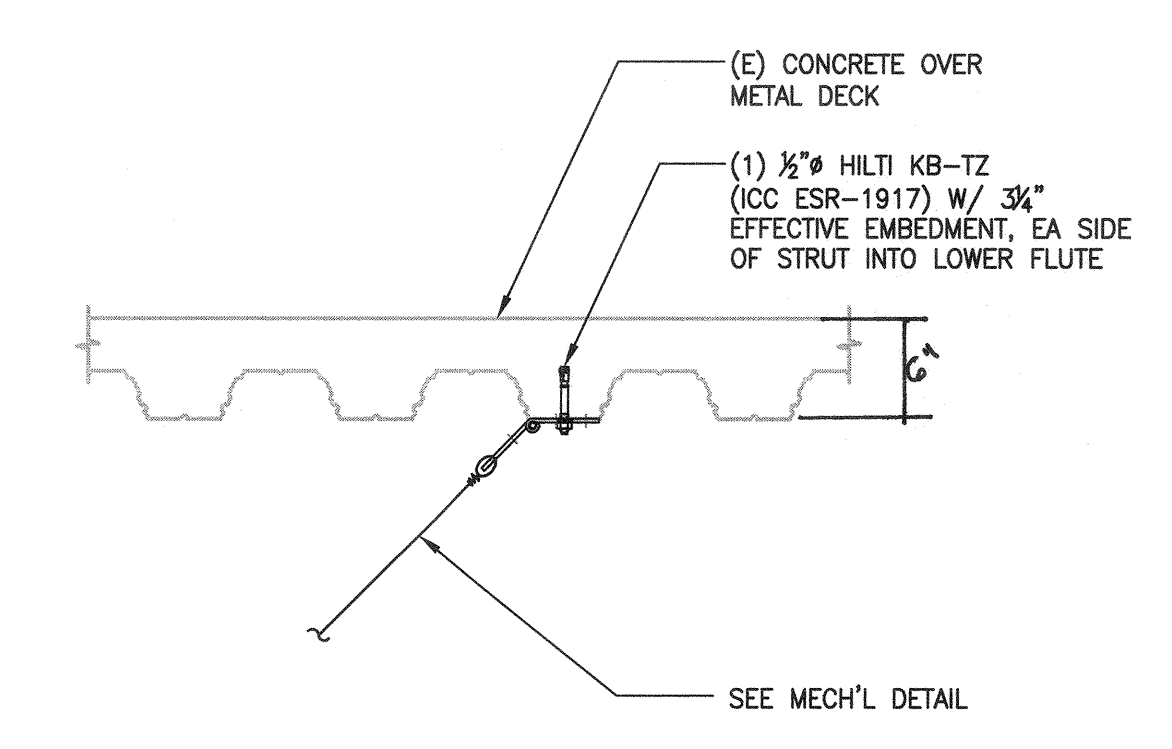
(E) CONCRETE EQUIPMENT PAD

1"=1'-0" 1



DUCT BRACE CONNECTION

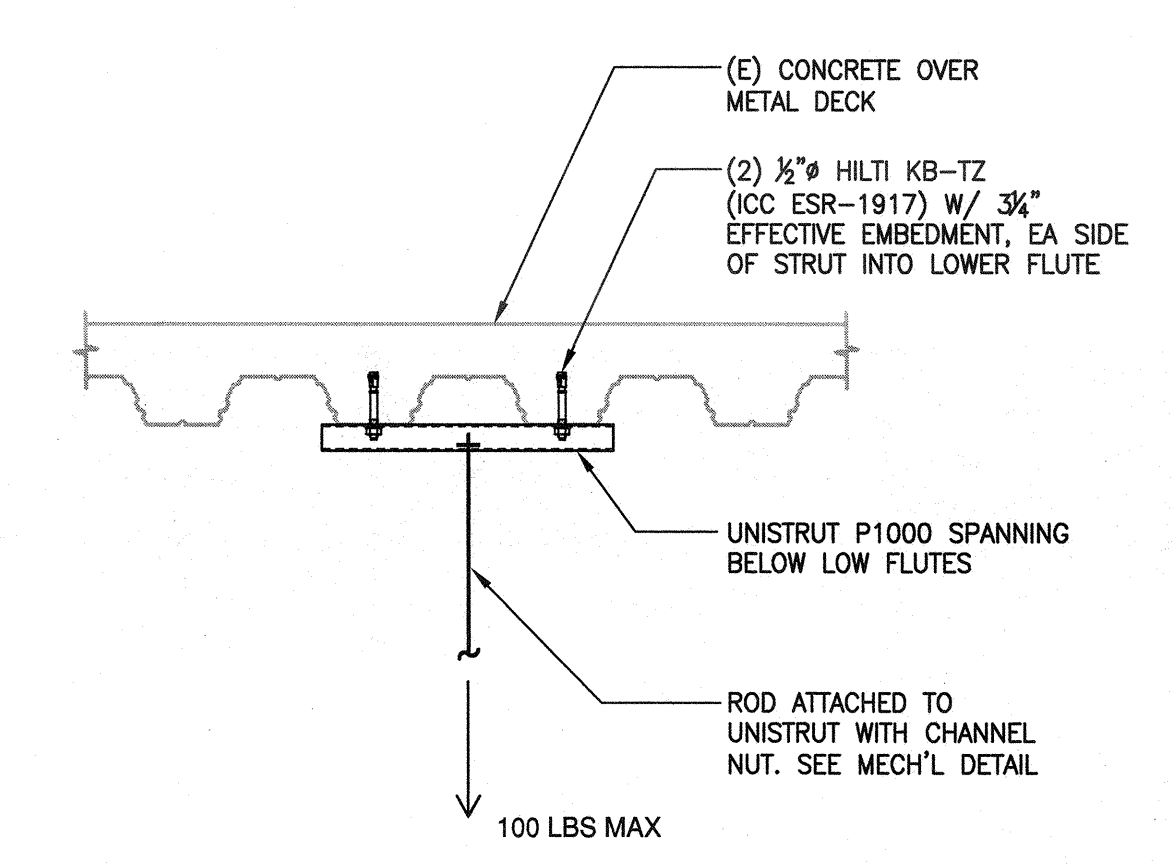
1"=1'-0" 5



FAN COIL BRACE CONNECTION

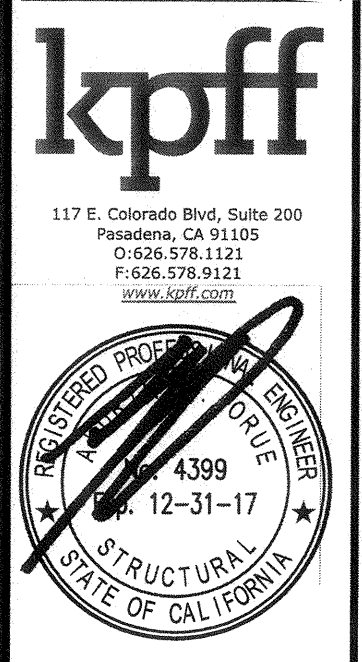
1"=1'-0" 2

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FAN COIL HANGER CONNECTION

1"=1'-0" 3



GLENDALE UNIFIED SCHOOL DISTRICT  
 HERBERT HOOVER HIGH SCHOOL- HVAC UPGRADE  
 851 GLENWOOD RD, GLENDALE, CA 91202



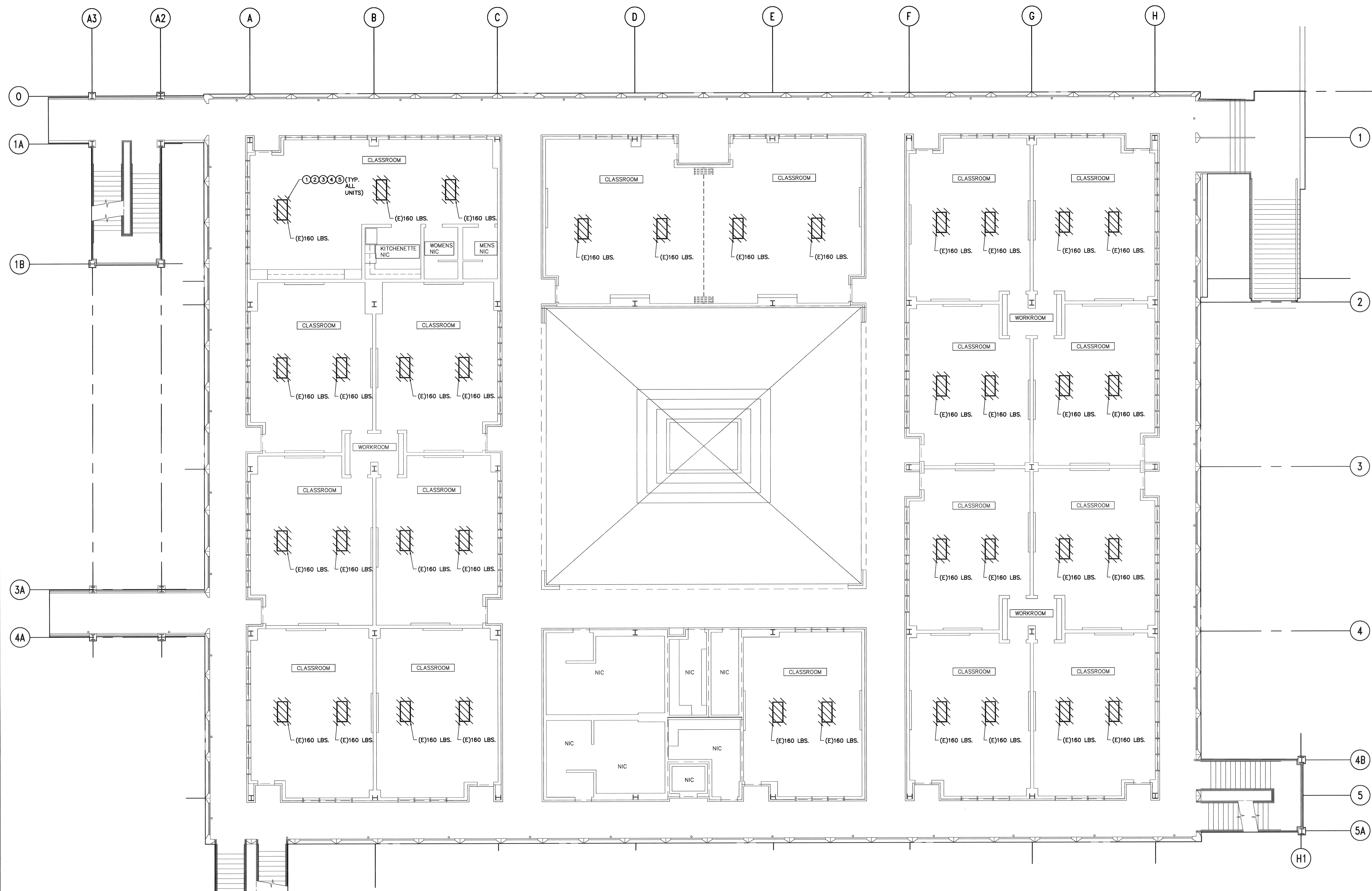
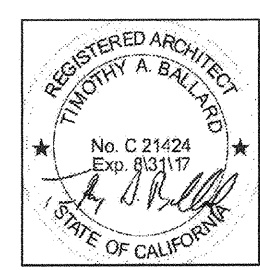
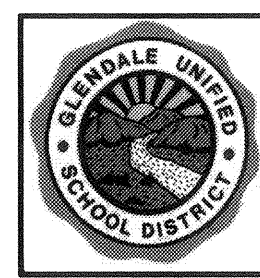
NAC ARCHITECTURE  
 nacararchitecture.com  
 837 NORTH SPRING STREET, THIRD FLOOR  
 LOS ANGELES, CA 90012  
 P: 213.472.8079  
 NAC NO: 161-16043  
 DRAWN: TP  
 CHECKED: ORD  
 DATE: 06-22-2017

DETAILS

S2.0







1 DEMOLITION MECHANICAL 2ND FLOOR PLAN  
SCALE: 1/8" = 1'-0"

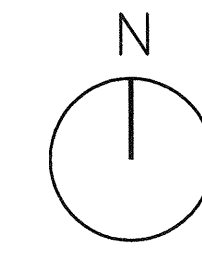
DEMOLITION NOTES:

- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS TO BE REMOVED. CONTRACTOR SHALL VERIFY ALL SUCH ITEMS WITH DISTRICT PRIOR TO REMOVAL. ALL ITEMS NOT REFUSED BY DISTRICT SHALL BE REMOVED INTACT AND FULLY FUNCTIONAL BY CONTRACTOR AND RETURNED TO DISTRICT. ALL ITEMS REFUSED BY DISTRICT SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED.
- PLUMBING CONTRACTOR SHALL DISCONNECT EXISTING CONDENSATE DRAIN FROM MECHANICAL EQUIPMENT TO BE REMOVED AND/OR REPLACED - AS REQUIRED.
- CONTRACTOR SHALL RE-USE EXISTING OPENINGS IN WALLS AND ROOF WHEREVER POSSIBLE. COORDINATE WITH OTHER TRADES AS NECESSARY. GENERAL CONTRACTOR SHALL MODIFY OPENING AS REQUIRED TO ACCOMMODATE NEW MECHANICAL DEVICE.
- GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES.
- PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
- EXISTING ABANDONED OR UNUSED PIPING, DUCT, VENTS, ETC. SHALL BE REMOVED. PATCH AND REPAIR WALLS/ROOF AS NECESSARY.
- ALL DUCTWORK AND DIFFUSER INDICATED AS DASHED LINES ARE EXISTING TO REMAIN.

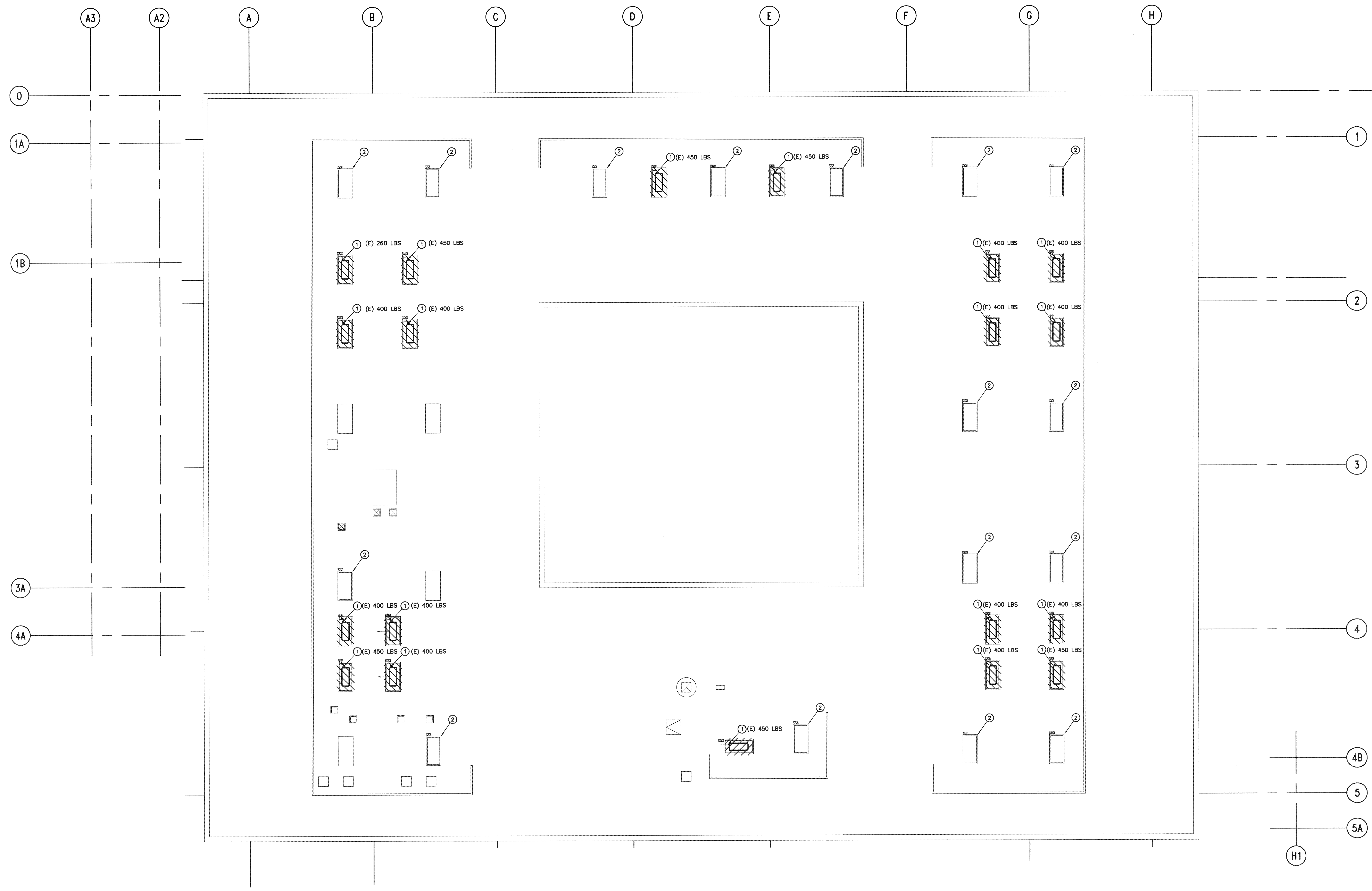
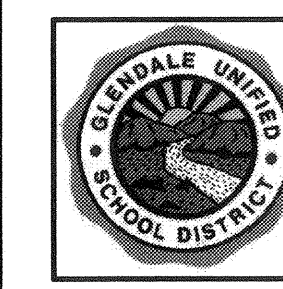
DEMOLITION KEY NOTES:

- DEMO AND REMOVE EXISTING FAN COILS UNITS AND ASSOCIATED REGISTERS, GRILLES, ETC. AS SHOWN AS CROSS HATCHED IN DRAWING.
- DISCONNECT CONDENSATE CONNECTIONS AND RE-USE CONDENSATE PIPING FOR NEW UNITS.
- DEMO HORIZONTAL RUNS OF REFRIGERANT PIPING TO VERTICAL RISER (EXISTING 1/2" LIQUID & 3/4" VAPOR VERTICAL REFRIGERANT PIPING TO REMAIN UNLESS NOTED OTHERWISE.)
- ALL EXISTING DUCTWORK AND ACCESSORIES TO REMAIN UNLESS NOTED.
- CONTRACTOR SHALL DISCONNECT AND CAP EXISTING CONDENSATE DRAIN LINE FOR RECONNECTION TO NEW MECHANICAL UNIT.

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Date AUG 07 2017







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

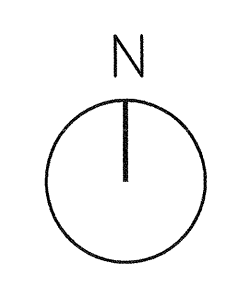
DEMOLITION NOTES:

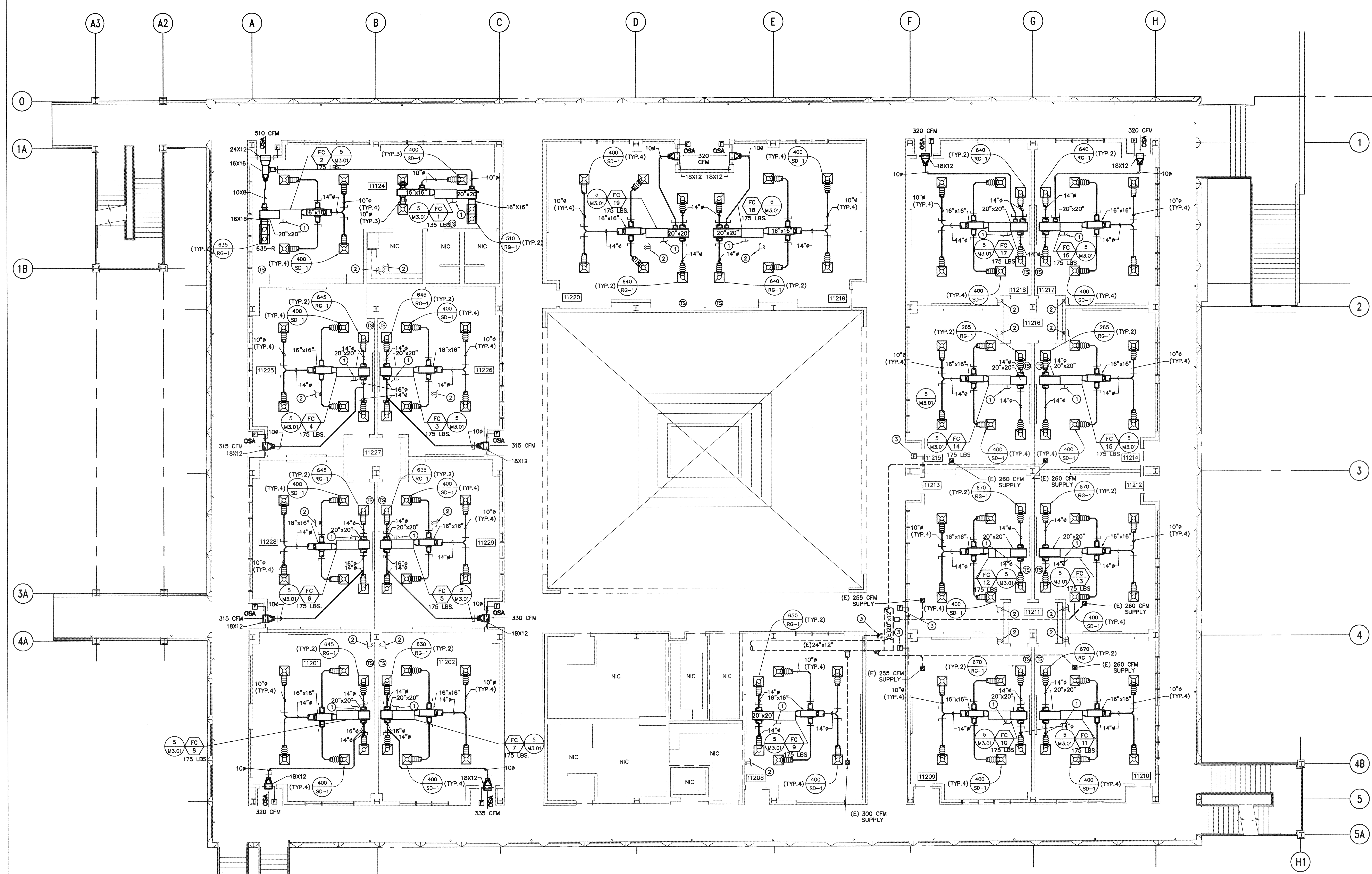
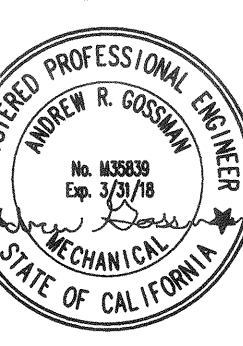
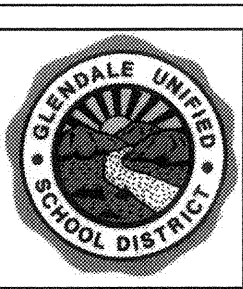
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS TO BE REMOVED. CONTRACTOR SHALL VERIFY ALL SUCH ITEMS WITH DISTRICT PRIOR TO REMOVAL. ALL ITEMS NOT REFUSED BY DISTRICT SHALL BE REMOVED INTACT AND FULLY FUNCTIONAL BY CONTRACTOR AND RETURNED TO DISTRICT. ALL ITEMS REFUSED BY DISTRICT SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED.
- PLUMBING CONTRACTOR SHALL DISCONNECT EXISTING CONDENSATE DRAIN FROM MECHANICAL EQUIPMENT TO BE REMOVED AND/OR REPLACED - AS REQUIRED.
- CONTRACTOR SHALL RE-USE EXISTING OPENINGS IN WALLS AND ROOF WHEREVER POSSIBLE. COORDINATE WITH OTHER TRADES AS NECESSARY. GENERAL CONTRACTOR SHALL MODIFY OPENING AS REQUIRED TO ACCOMMODATE NEW MECHANICAL DEVICE.
- GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES.
- PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
- EXISTING ABANDONED OR UNUSED PIPING, DUCT, VENTS, ETC. SHALL BE REMOVED. PATCH AND REPAIR WALLS/ROOF AS NECESSARY.
- ALL DUCTWORK AND DIFFUSER INDICATED AS DASHED LINES ARE EXISTING TO REMAIN.

DEMOLITION KEY NOTES:

- DEMO AND REMOVE EXISTING HEAT PUMP UNITS. REFRIGERANT PIPING TO REMAIN. CAP AND SEAL AS REQUIRED AFTER HEAT PUMP REMOVAL.
- PROTECT (E) HEAT PUMPS IN PLACE.

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APP 3 117998  
AC FLS SS  
Date AUG 17 2017





1 MECHANICAL 2ND FLOOR PLAN  
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES:

- FIELD VERIFY ALL EXISTING DUCT DIMENSIONS INDICATED PRIOR TO FABRICATION. PROVIDE ALL TRANSITIONS AS REQUIRED TO CONNECT NEW DUCTWORK TO EXISTING.
- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, AND ELECTRICAL LIGHTING LAYOUT.
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF NEW CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY DISCREPANCIES.
- ALL EXISTING DUCTWORK TO BE REUSED SHALL BE THOROUGHLY CLEANED. FURNISH NEW FILTERS UPON COMPLETION FOR AIR TEST AND BALANCING.
- CONTRACTOR TO PROVIDE AN INDEPENDENT AIR TEST AND BALANCE REPORT FROM AN AABC APPROVED COMPANY.
- SEE 1/M3.01 FOR EMCS CONTROL WIRING.
- IF SHOWN, ALL DUCTWORK/REGISTERS INDICATED WITH DASHED LINES ARE EXISTING TO REMAIN.
- SEE DETAIL 11/M3.01 FOR REFRIGERANT PIPING SUPPORT.
- SEE DETAIL 10/M3.01 FOR DUCTWORK SUPPORT.

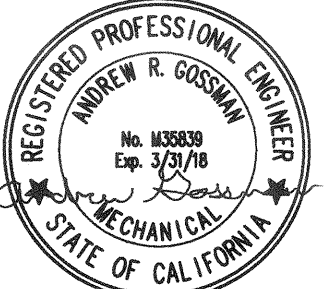
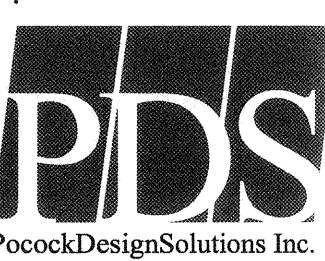
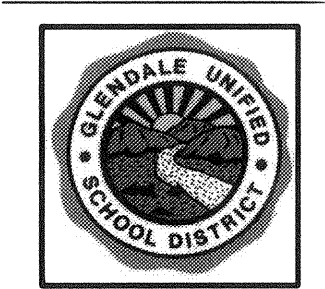
PLUMBING CONSTRUCTION NOTES:

- CONTRACTOR SHALL CONNECT EXISTING CONDENSATE LINE TO NEW MECHANICAL UNIT. MODIFY AND EXTEND EXISTING PIPING AS REQUIRED. SEE DTL 12/M3.01.
- ALL CONDENSATE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXAMINATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
- WHERE PLANS INDICATE NEW EQUIPMENT CONNECTING TO EXISTING SERVICES, CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW EQUIPMENT.

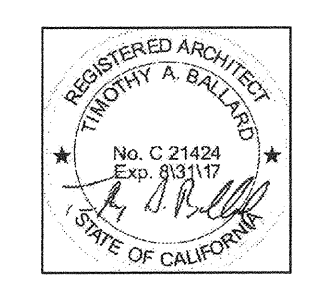
CONSTRUCTION KEYNOTES:

- NEW 3/8"-RL AND 7/8"-REFRIG. VAPOR LINE FROM NEW FAN COIL UNIT.
- CONNECT NEW 3/8"-RL TO (E)2-RL RISER AND NEW 7/8"-REFRIG. VAPOR TO (E)3/4"-REFRIG. VAPOR RISER.
- EXISTING(E) FIRE DAMPER TO REMAIN.

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APP3 117998  
Date: 06-07-2011



GLENDALE UNIFIED SCHOOL DISTRICT  
HERBERT HOOVER HIGH SCHOOL - 11000  
BUILDING PROP 39 - HVAC UPGRADE  
657 GLENWOOD RD, GLENDALE, CA 91201

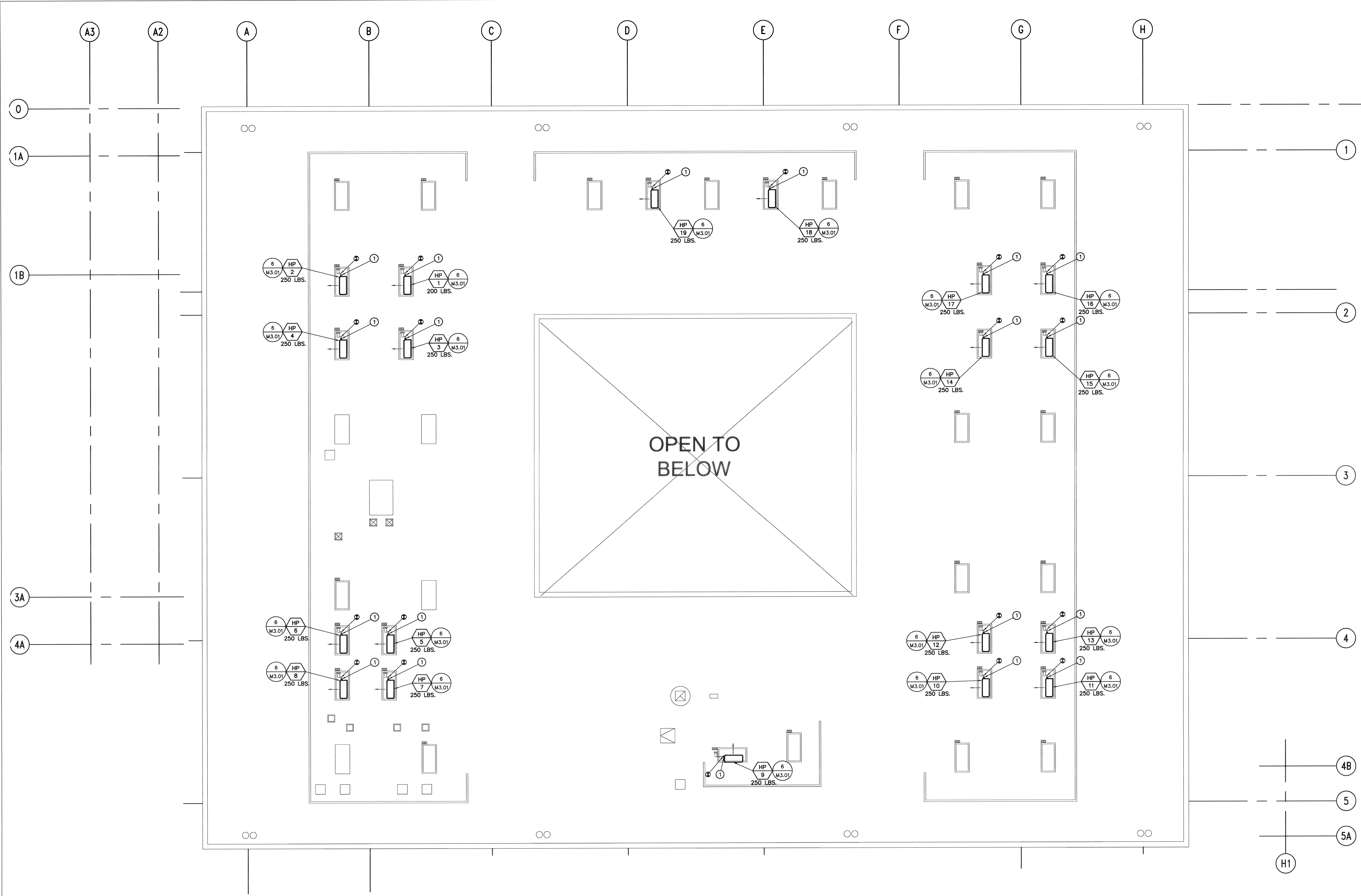


pacarchitecture.com  
837 NORTH SPRING STREET, THIRD FLOOR  
LOS ANGELES, CA 90012  
P: 323.475.8075

MAC NO 161-16043  
DRAWN BB  
CHECKED DB  
DATE 06-22-2017

MECHANICAL ROOF PLAN

M2.01



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

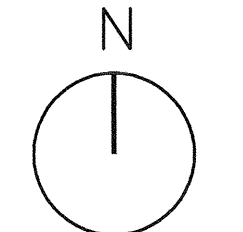
CONSTRUCTION NOTES:

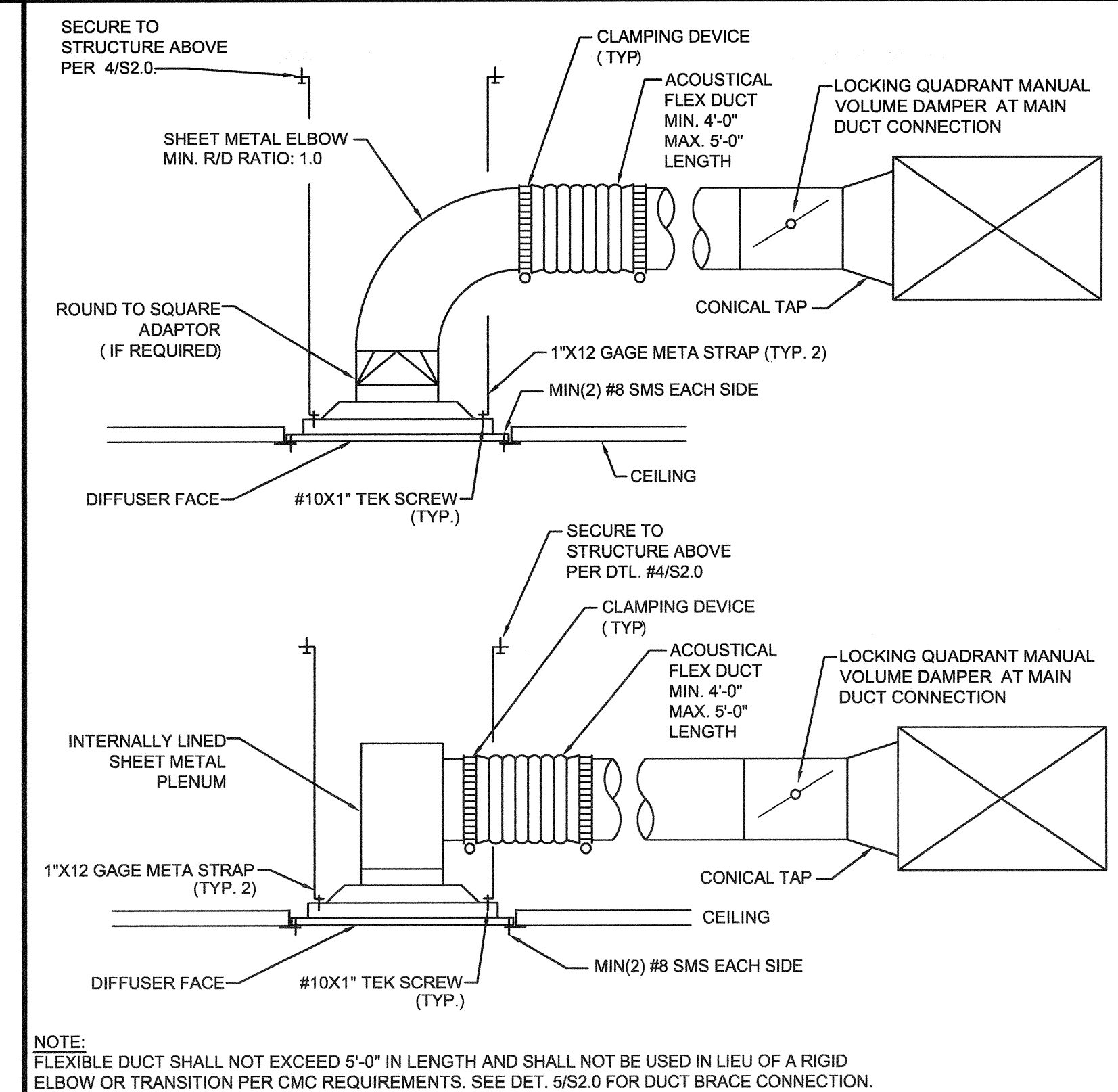
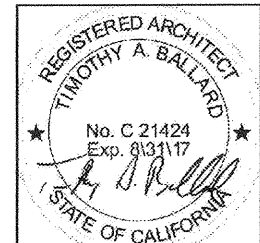
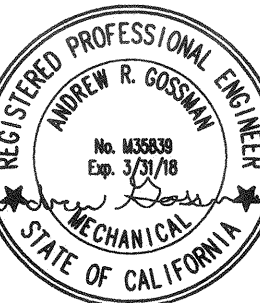
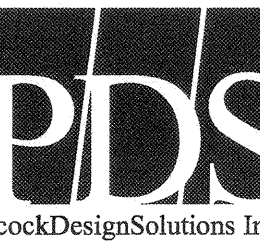
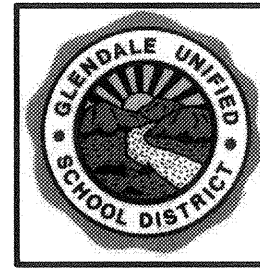
- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- BEFORE COMMENCEMENT OF WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF NEW CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY DISCREPANCIES.

CONSTRUCTION KEYNOTES:

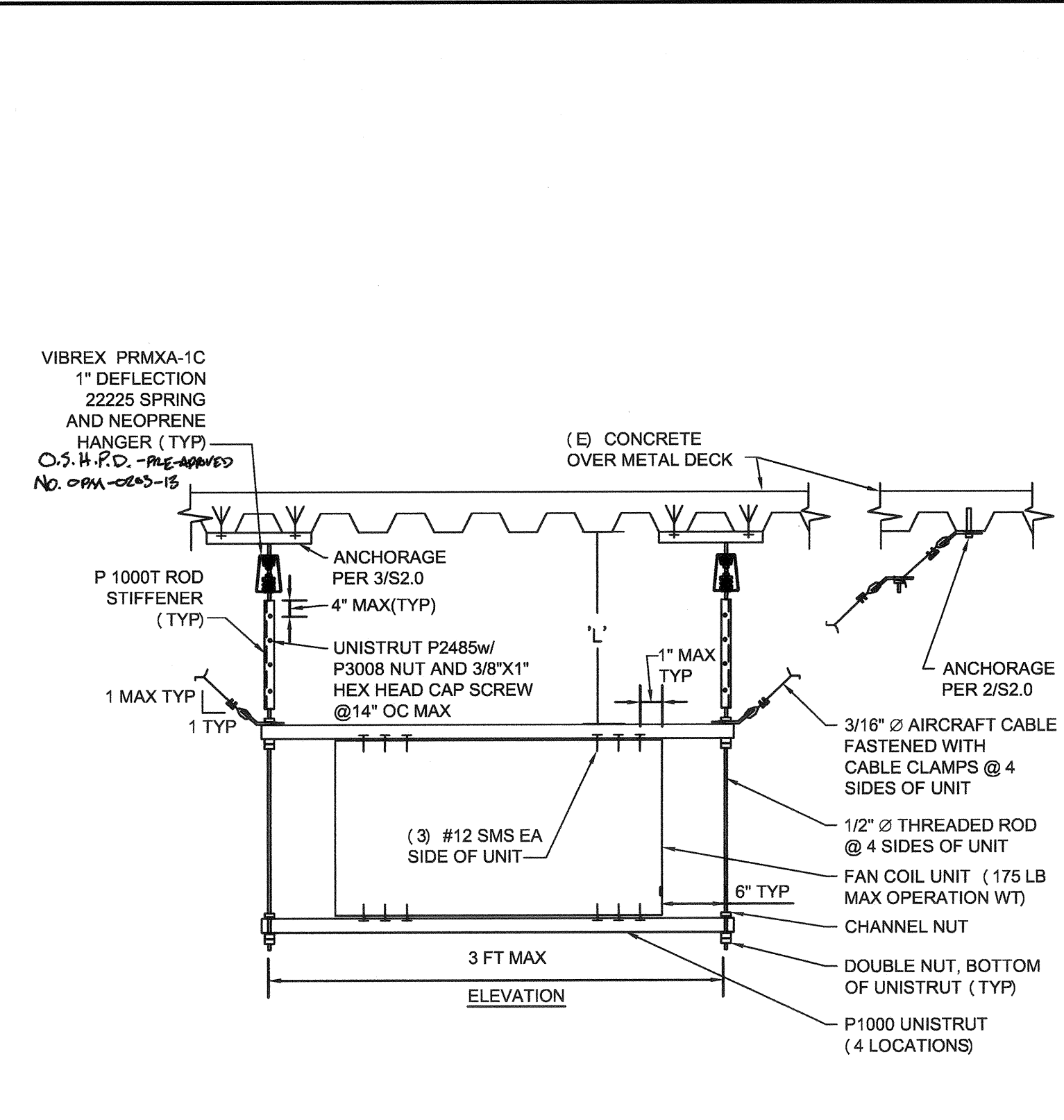
- CONNECT NEW 3/8"-RL TO (E)1/2"-RL AND NEW 7/8"-REFRIG. VAPOR TO (E)3/4"-REFRIG. VAPOR. PROVIDE ALL NEW INSULATION WITH WEATHERPROOF JACKETING ON BOTH PIPES.

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Date JUN 07 2017

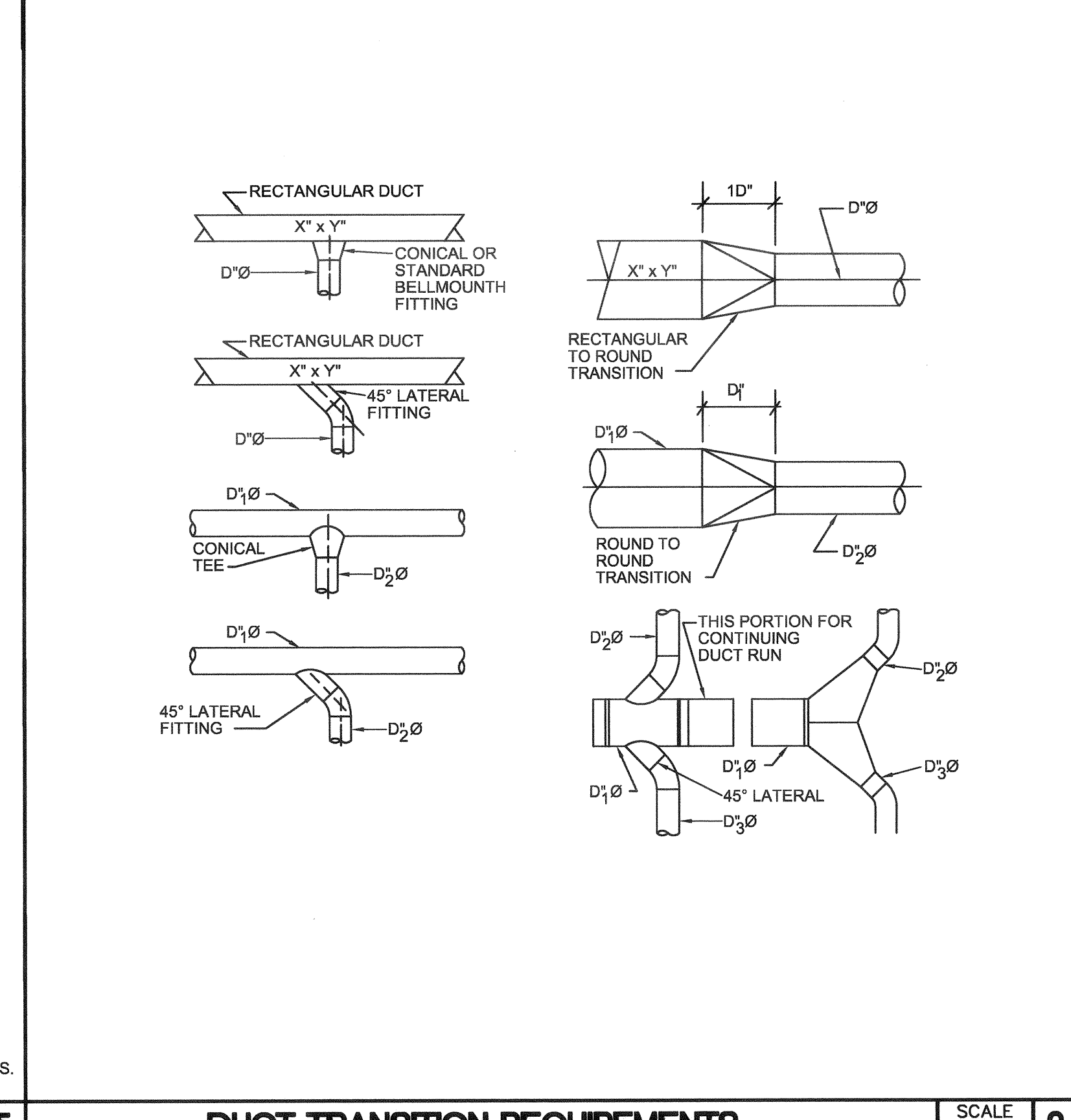




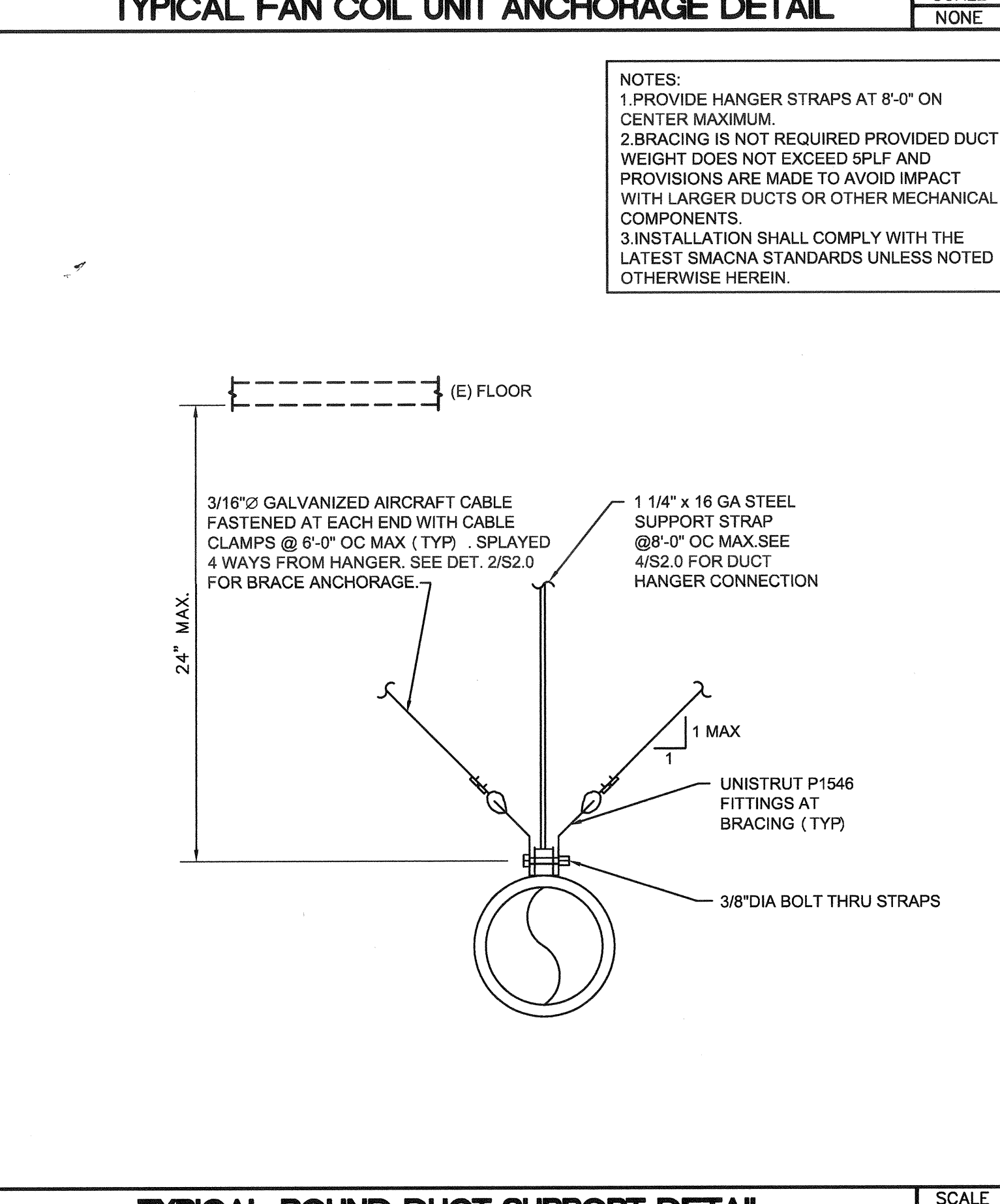
TYPICAL CEILING DIFFUSER ANCHORAGE DETAIL SCALE NONE 3



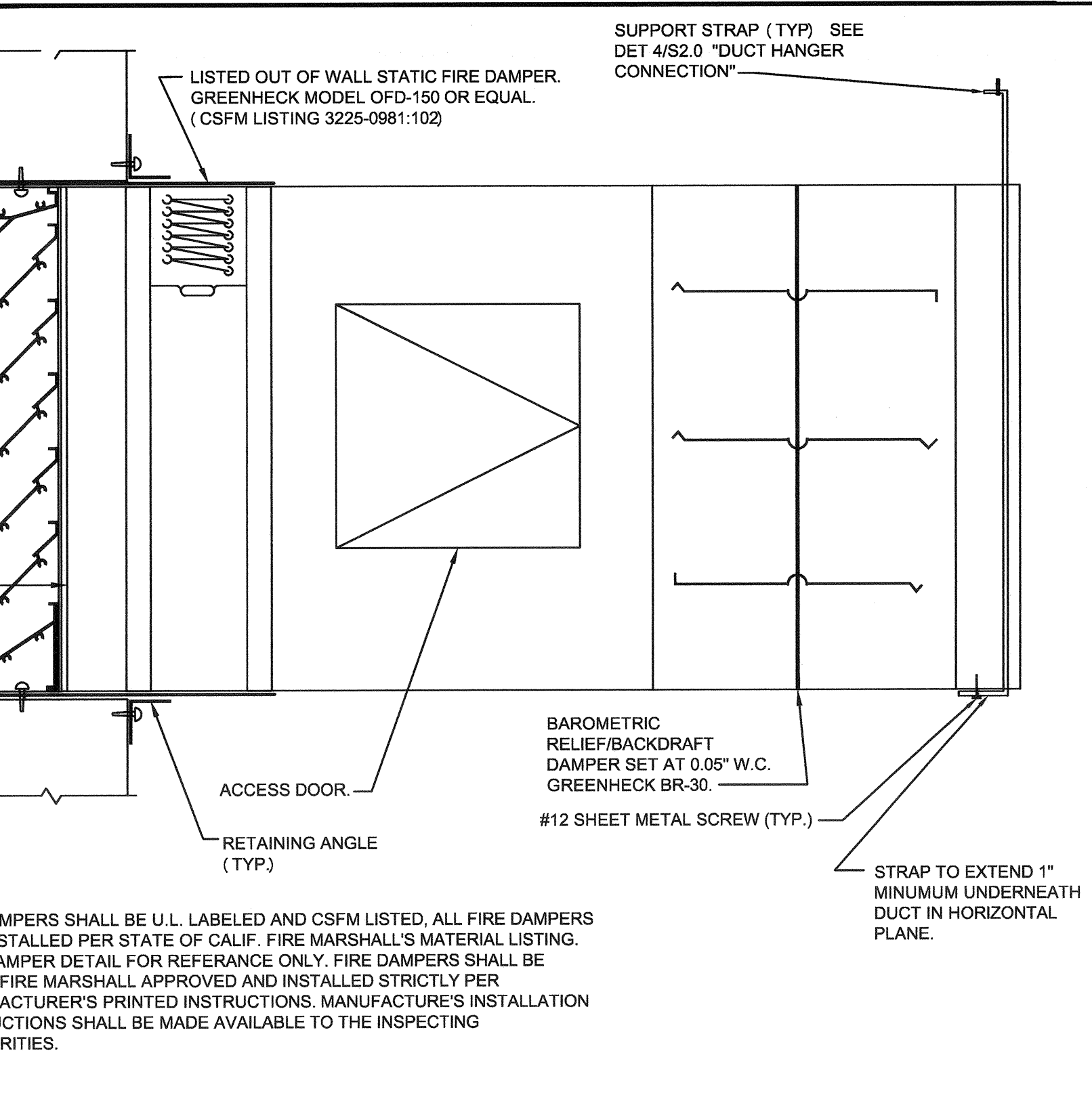
TYPICAL FAN COIL UNIT ANCHORAGE DETAIL SCALE NONE 5



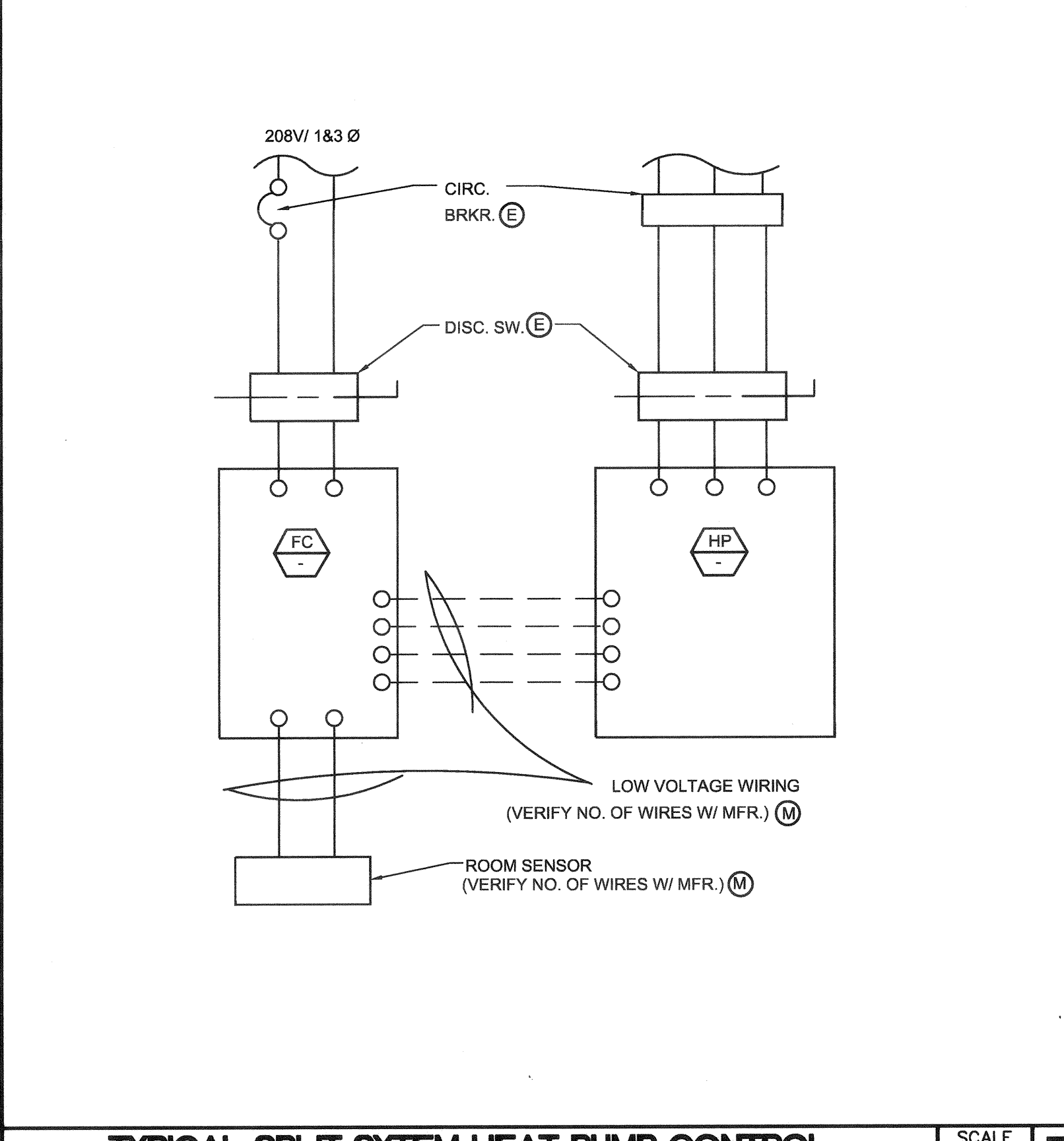
DUCT TRANSITION REQUIREMENTS SCALE NONE 2



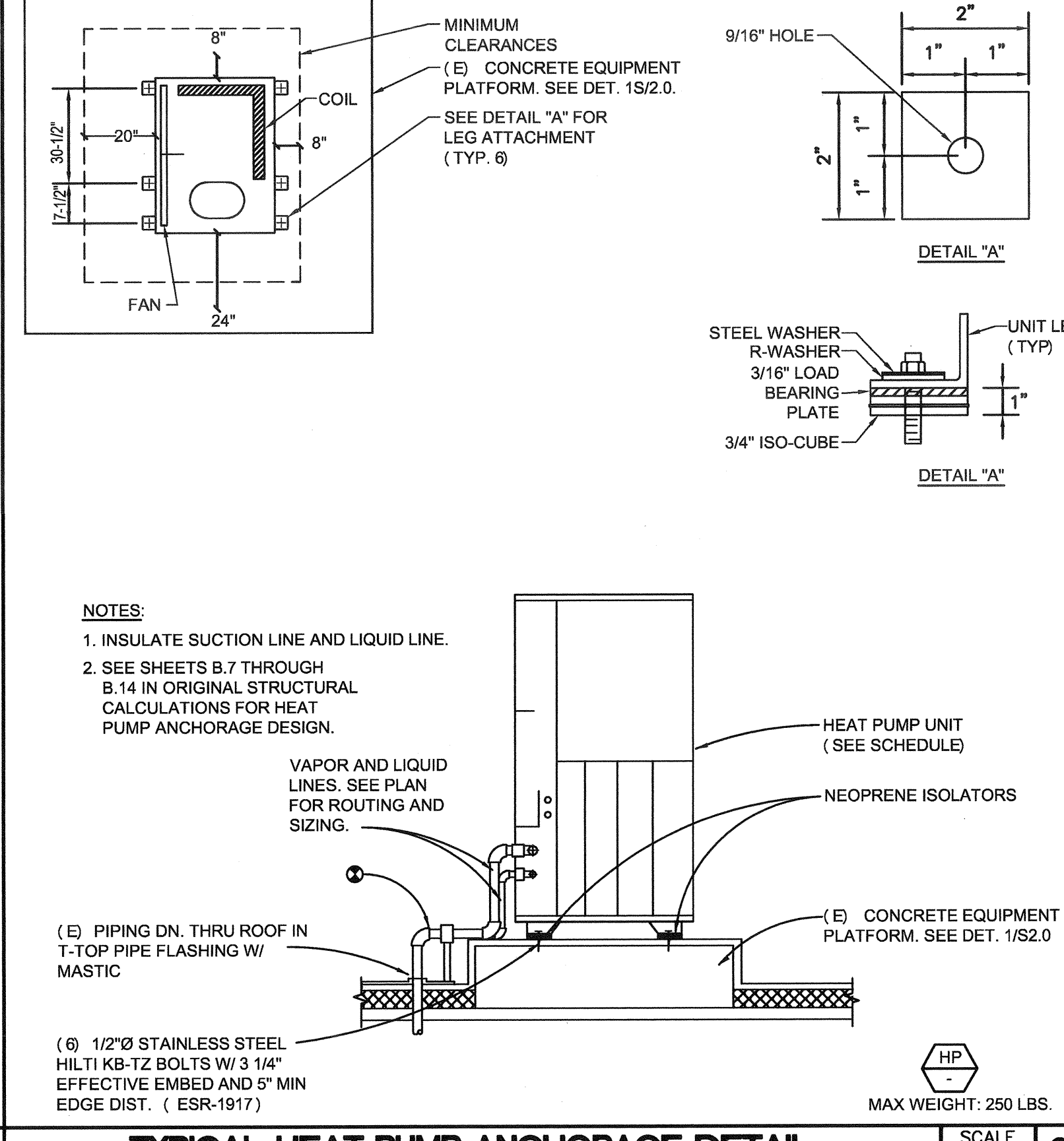
TYPICAL ROUND DUCT SUPPORT DETAIL SCALE NONE 4



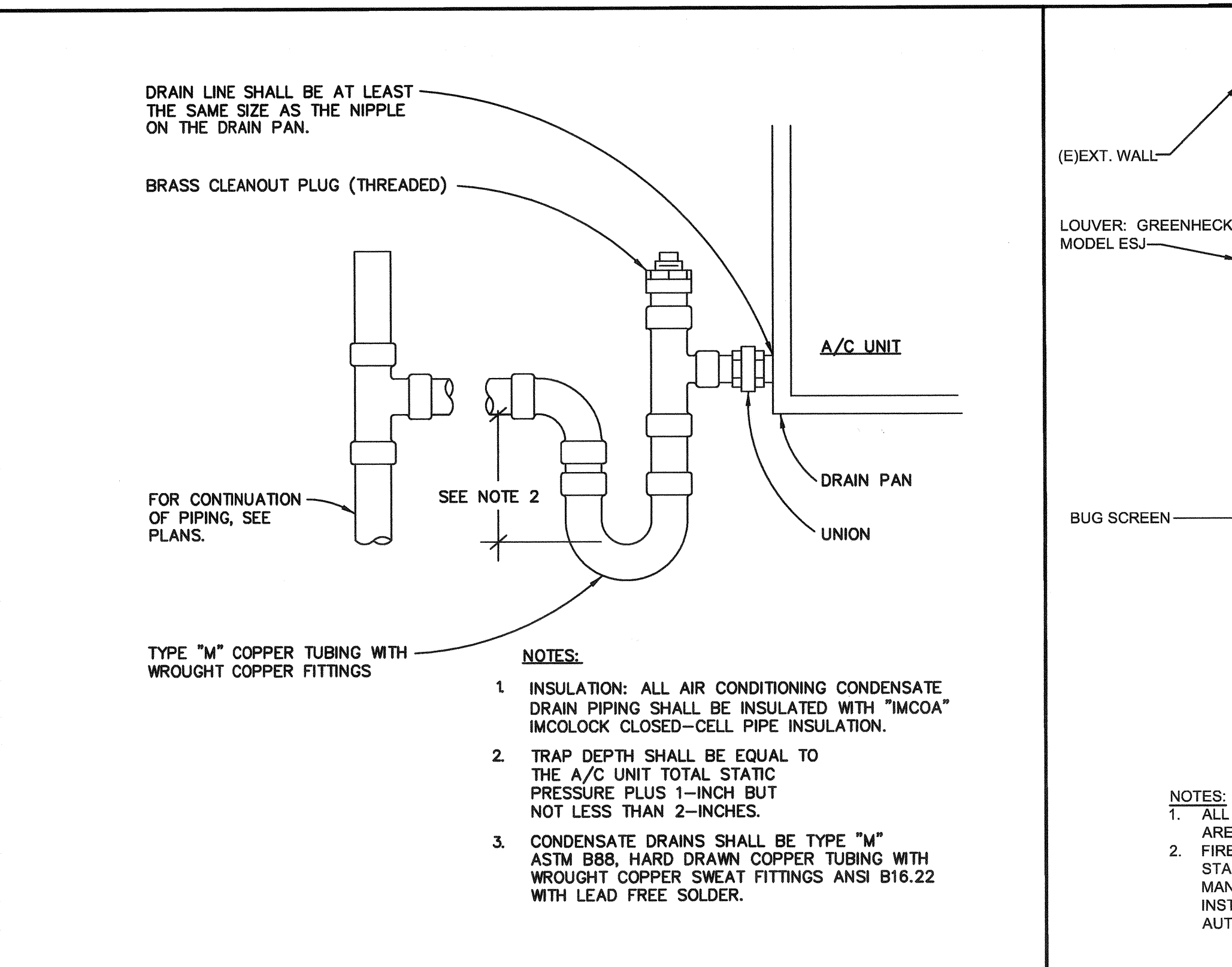
TYPICAL EXTERIOR FIRE DAMPER DETAIL SCALE NONE 8



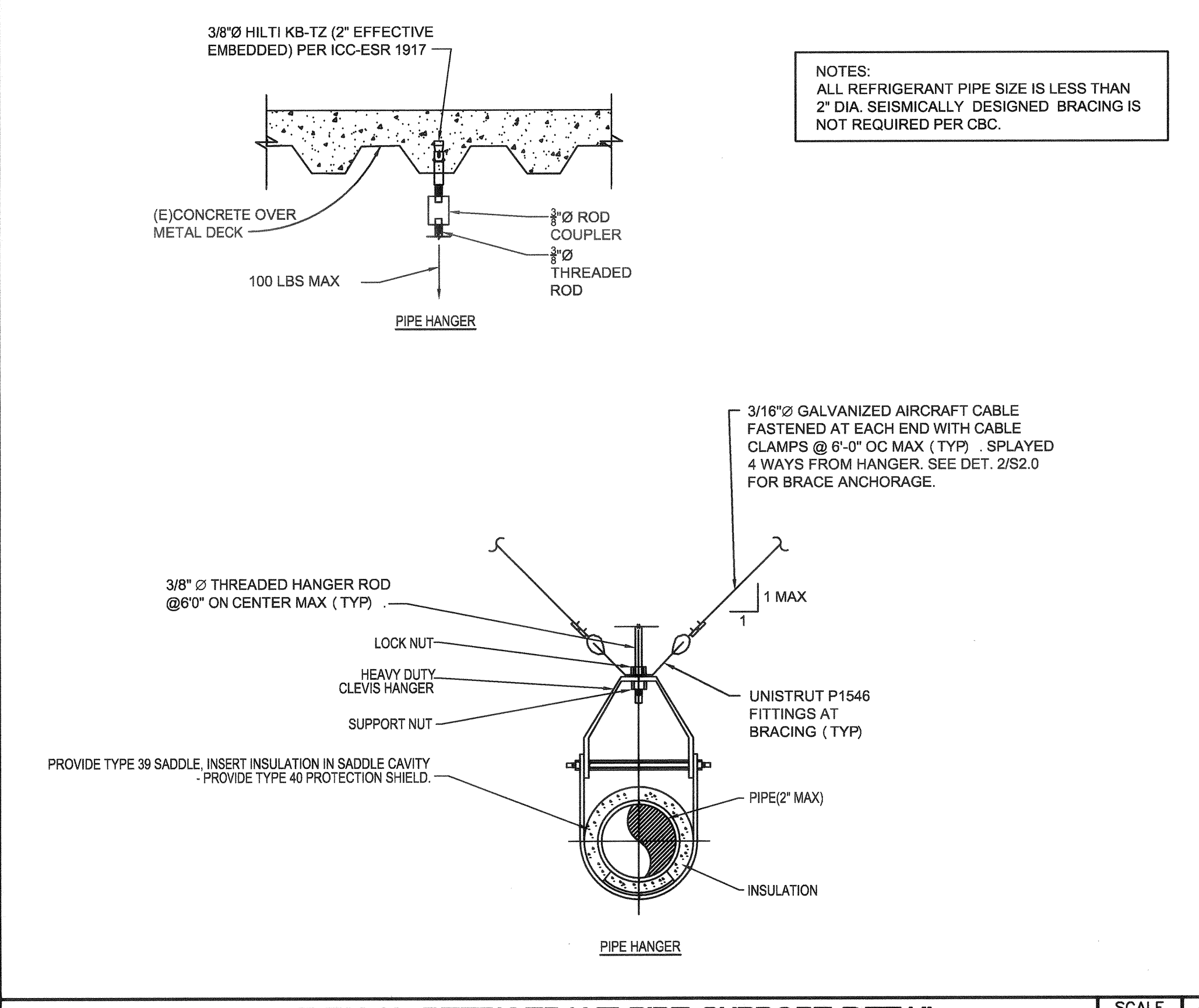
TYPICAL SPLIT SYSTEM HEAT PUMP CONTROL SCALE NONE 7



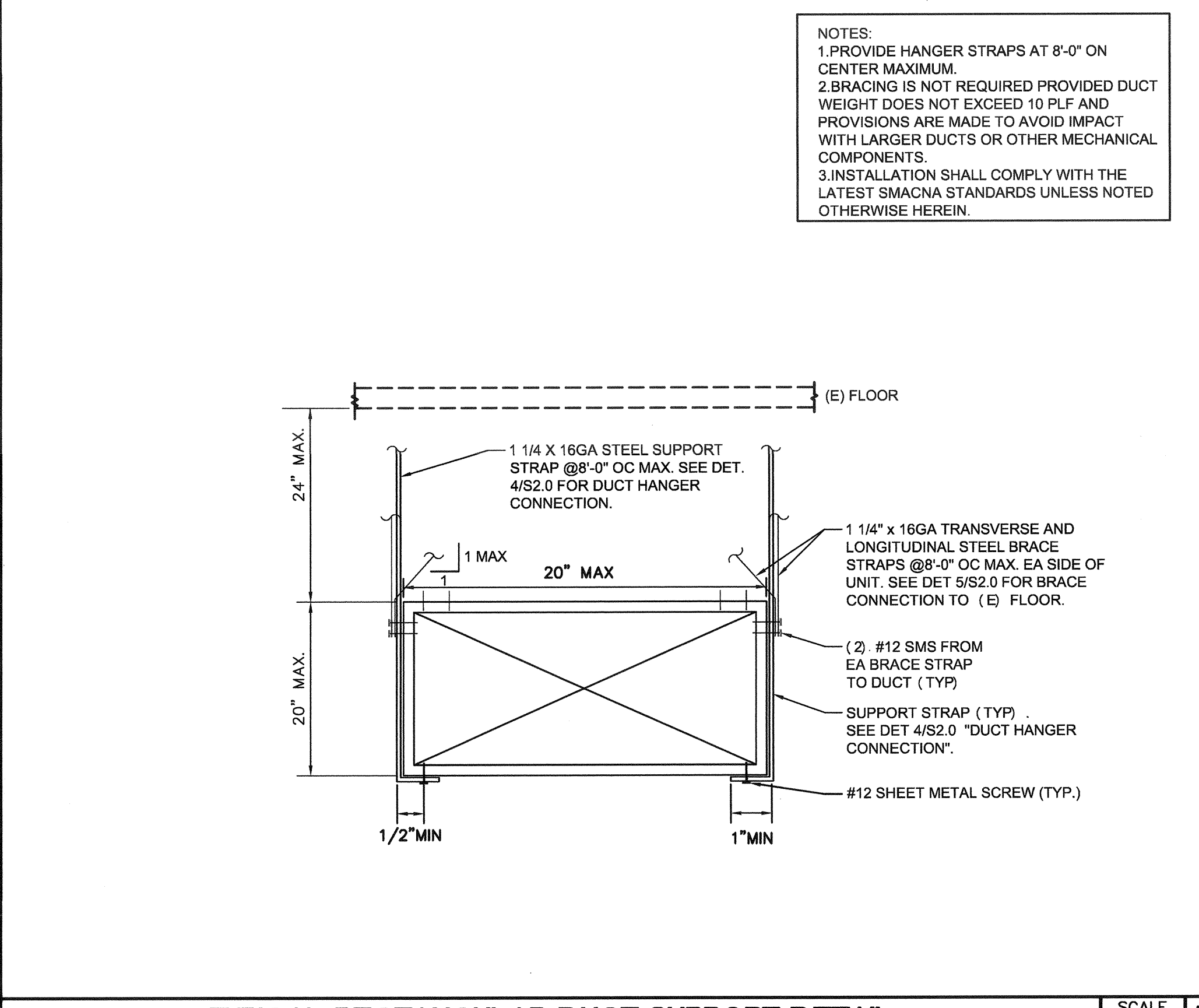
TYPICAL HEAT PUMP ANCHORAGE DETAIL SCALE NONE 6



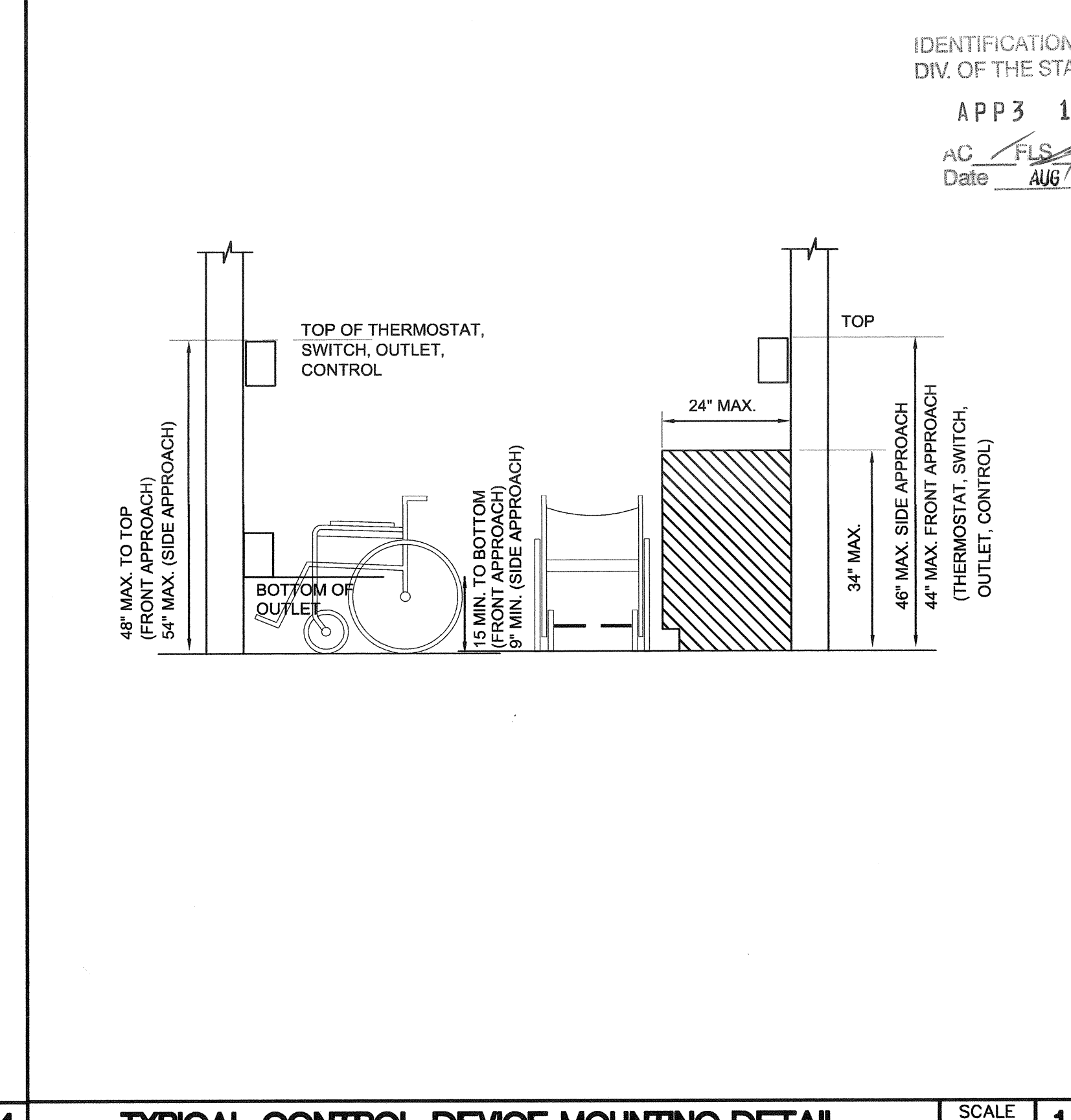
TYPICAL CONDENSATE TRAP DETAIL SCALE NONE 12



TYPICAL REFRIGERANT PIPE SUPPORT DETAIL SCALE NONE 11



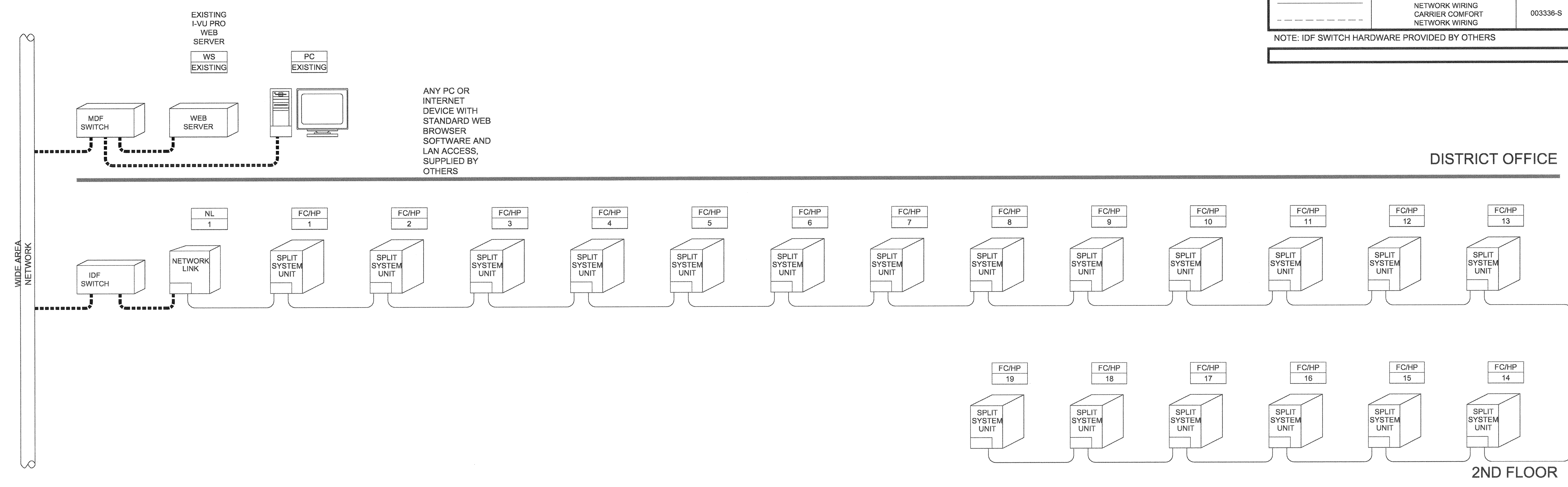
TYPICAL RECTANGULAR DUCT SUPPORT DETAIL SCALE NONE 10



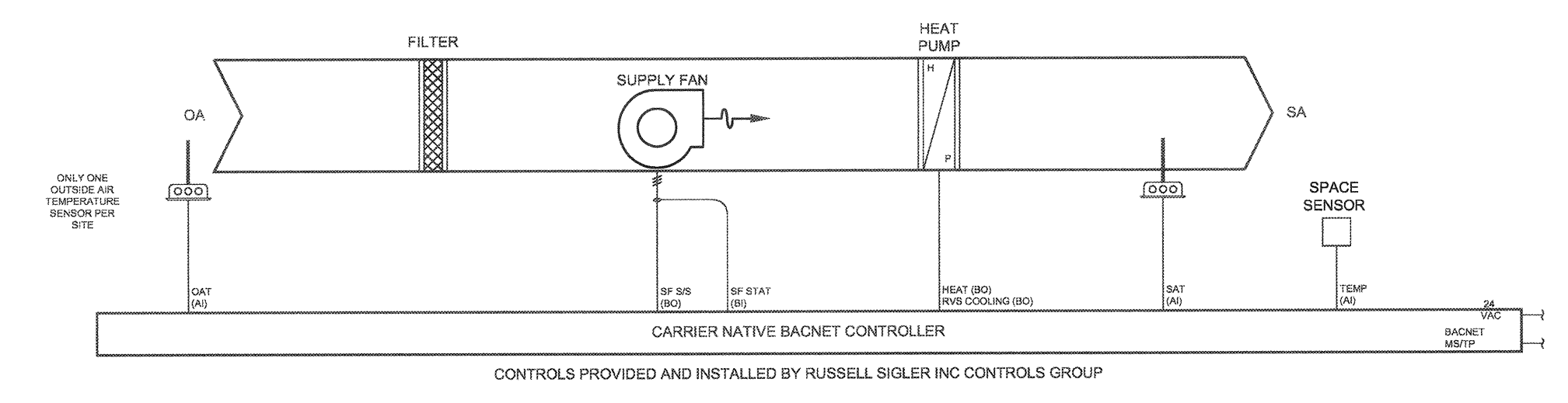
TYPICAL CONTROL DEVICE MOUNTING DETAIL SCALE NONE 1

WIRE LEGEND			
LINE STYLE	WIRE TYPE	PART NUMBER	DESCRIPTION
-----	LOCAL AREA NETWORK (CAT 5)	0042002-S	PROVIDED AND INSTALLED BY OTHERS
-----	BACNET MS/TP NETWORK WIRING	003336-S	24 AWG 2 COND SHIELDED, PLENUM, GRG
-----	CARRIER COMFORT NETWORK WIRING		20 AWG 3 COND SHIELDED, PLENUM, WHIT / GRN STRIPE

NOTE: IDF SWITCH HARDWARE PROVIDED BY OTHERS



1 EMCS RISER DIAGRAM  
SCALE: NONE



2 TYPICAL CONSTANT VOLUME SPLIT SYSTEM HEAT PUMP UNIT  
(FC/HP-1 TRHU FC/HP-19)  
SCALE: NONE

**Sequence of Operation**

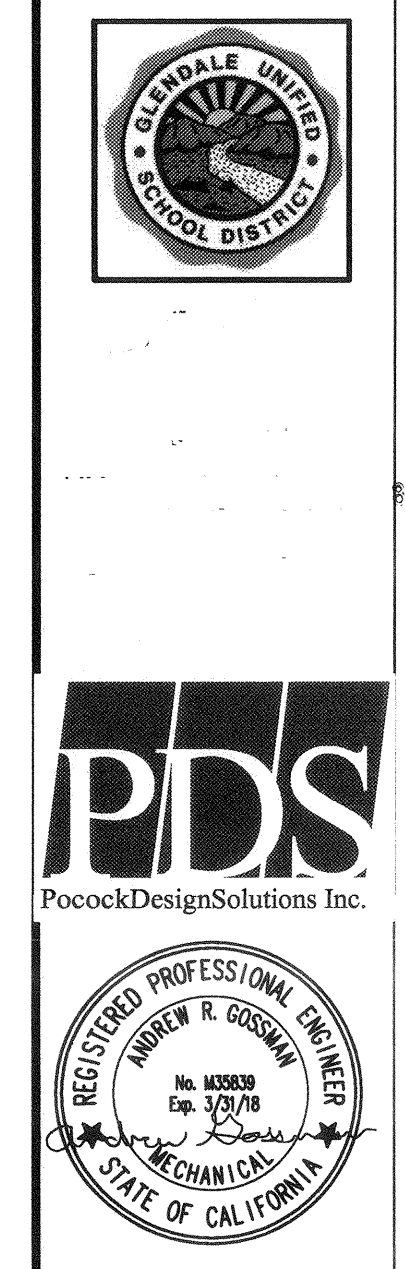
**Indoor Fan**  
During Occupied periods, fan shall operate continuously. During Unoccupied periods, fan shall operate when the space temperature exceeds the unoccupied heating or cooling setpoints.

**Single Speed**  
The fan operates at one speed only and provides on/off operation.

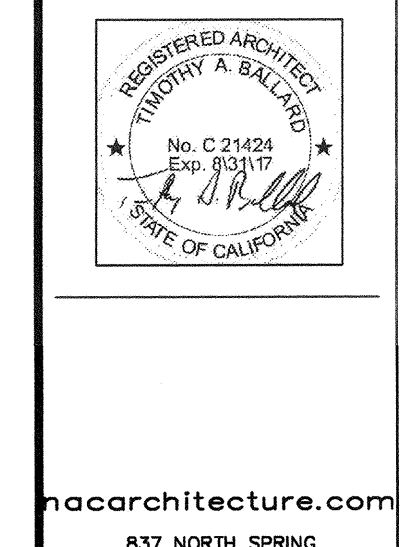
**Heating Mode**  
When space temperature is below the occupied heating setpoint, unit shall operate in the heating mode. Unit shall stage available heat stages to satisfy demand in the occupied space.

**Cooling Mode**  
When space temperature is above occupied cooling setpoint, unit shall operate in the cooling mode. Unit shall enable available cooling stages to satisfy demand in the occupied space.

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Date AUG 07 2017



GLENDALE UNIFIED SCHOOL DISTRICT  
HERBERT HOOVER HIGH SCHOOL - 11000  
BUILDING PROP 39 - HVAC UPGRADE  
651 GLENWOOD RD., GLENDALE, CA 91202



MAC ARCHITECTURE.COM  
807 NORTH SPRING STREET, THIRD FLOOR  
LOS ANGELES, CA 90012  
P-323.629.8029

MECHANICAL CONTROL DRAWINGS











MOUNTING: SURFACE  
ENTER CABINET AT: EXISTING  
VOLTAGE: 208V, 3Ø, 3W

**EXISTING PANEL "RC"**

MAIN: M.L.O. (DOUBLE LUGS)  
BUSSING: 400A

LOCATION	VOLT-AMPERES			L T G	R E C	M I S	BKR. A M P L E	BKR. A M P L E	M I S	L T G	VOLT-AMPERES			LOCATION
	#A	#B	#C								#A	#B	#C	
*** OU-25	2232	2232					40	1	2	40		2232	2232	OU-24
								3	4					
								5	6					
*** OU-26	2232						40	7	8	40		2232	2232	OU-23
								9	10					
								11	12					
** HP-17	2232						30	13	14	30		2232	2232	HP-18
								15	16					
								17	18					
** HP-16	2232						30	19	20	40		2232		OU-22
								21	22					
								23	24					
* SPARE							30	25	26	30		2232		OU-17
* SPARE								27	28					
								29	30					
								31	32					
								33	34					
								35	36	30				
								37	38					
								39	40					
								41	42					
SUBTOTAL	8,928	8,928	8,928									15,624	15,624	13,392
TOTAL VOLT-AMPERES/PHASE	#A= 24,552 VA			#B= 24,552 VA			#C= 22,328 VA							
TOTAL PANEL VOLT-AMPERES:	71,432 VA			+ LCL 0 VA			= 71,432 VA			AMPS= 198.4 A				

MOUNTING: SURFACE  
ENTER CABINET AT: EXISTING  
VOLTAGE: 208V, 3Ø, 3W

**EXISTING PANEL "RD"**

MAIN: M.L.O.  
BUSSING: 400A

LOCATION	VOLT-AMPERES			L T G	R E C	M I S	BKR. A M P L E	BKR. A M P L E	M I S	L T G	VOLT-AMPERES			LOCATION
	#A	#B	#C								#A	#B	#C	
*** OU-27	2232						40	1	2	40		2232	2232	OU-30
								3	4					
								5	6					
*** OU-30	2232						40	7	8	40		2232	2232	OU-29
								9	10					
								11	12					
** HP-9	2232						30	13	14	30		2232	2232	OU-31
								15	16					
								17	18					
** HP-12	2232						30	19	20	30		2232		HP-13
								21	22					
								23	24					
EXIST (VERIFY)	3840						40	25	26	20		1920		EXIST (VERIFY)
								27	28					
								29	30					
** HP-10	2232						30	31	32	2		3840		EXIST (VERIFY)
								33	34					
								35	36					
** HP-11	2232						30	37	38					
								39	40					
								41	42					
SUBTOTAL	17,232	17,232	17,232									14,688	10,848	12,768
TOTAL VOLT-AMPERES/PHASE	#A= 31,920 VA			#B= 28,080 VA			#C= 30,000 VA							
TOTAL PANEL VOLT-AMPERES:	90,000 VA			+ LCL - VA			= 90,000 VA			AMPS= 244 A				

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APP3 117598  
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Date AUG 07 2017



16369 MD  
T. P. IN & RATTAN  
Engineering, Inc.  
10000 HOLLYWOOD BLVD SUITE 200  
BENTONVILLE, AR 72716  
BIB: 1639 / D44 FAX: 249 / 1457

GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL -  
11000 BUILDING PROP 39 - HVAC UPGRADE**  
651 GLENWOOD RD, GLENDALE, CA 91202



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ARCHITECTURE  
nacarchitecture.com  
837 NORTH SPRING STREET,  
THIRD FLOOR  
LOS ANGELES CA 90012  
P: 213.480.8025

NAC NO: 161-16043  
DRAWN: RK  
CHECKED: JK  
DATE: 6-28-2017

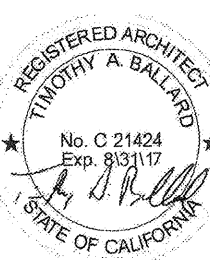
ELECTRICAL DETAILS &  
PANEL SCHEDULES



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DIVISION OF STATE ARCHITECTURE  
OFFICE OF REGULATION SERVICES  
FILE NO. 117998  
APP. NO. 117998  
AC: FLS SS  
DATE: AUG 07 2017

16565 NO  
J. R. RATTAN  
REGISTERED PROFESSIONAL ENGINEER  
ELECTRICAL ENGINEERING  
3845 HOLLYHURST AVENUE SUITE 200  
IRVINE, CA 92614  
P: 949 444 2447 FAX: 949 447 1497

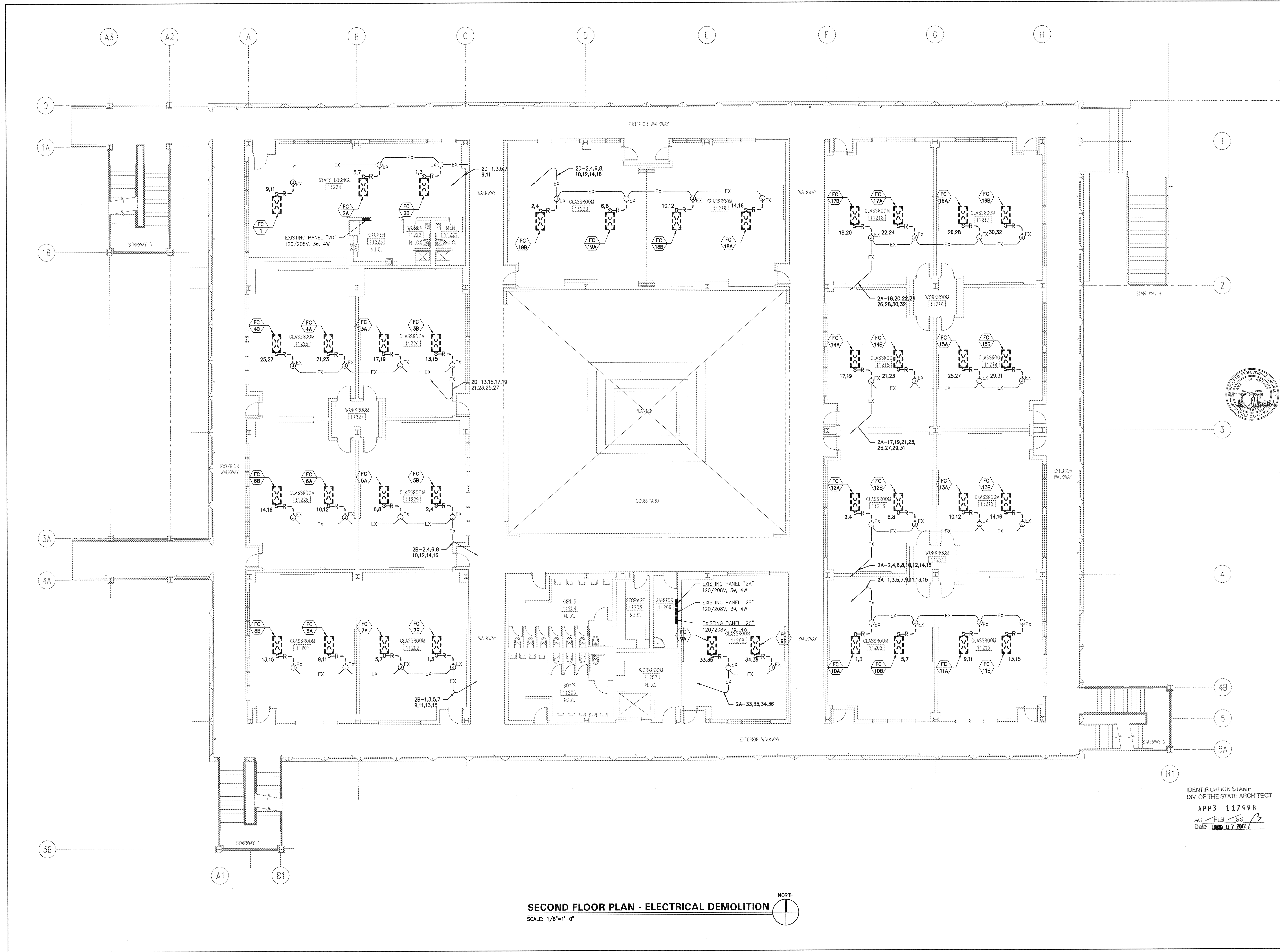
GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL -  
11000 BUILDING PROP 39 - HVAC UPGRADE**  
851 GLENWOOD RD, GLENDALE, CA 91202



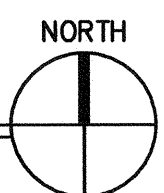
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837 NORTH SPRING STREET,  
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LOS ANGELES, CA 90012  
(213) 482-8000

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DATE: 6-28-2017

ELECTRICAL  
DEMOLITION

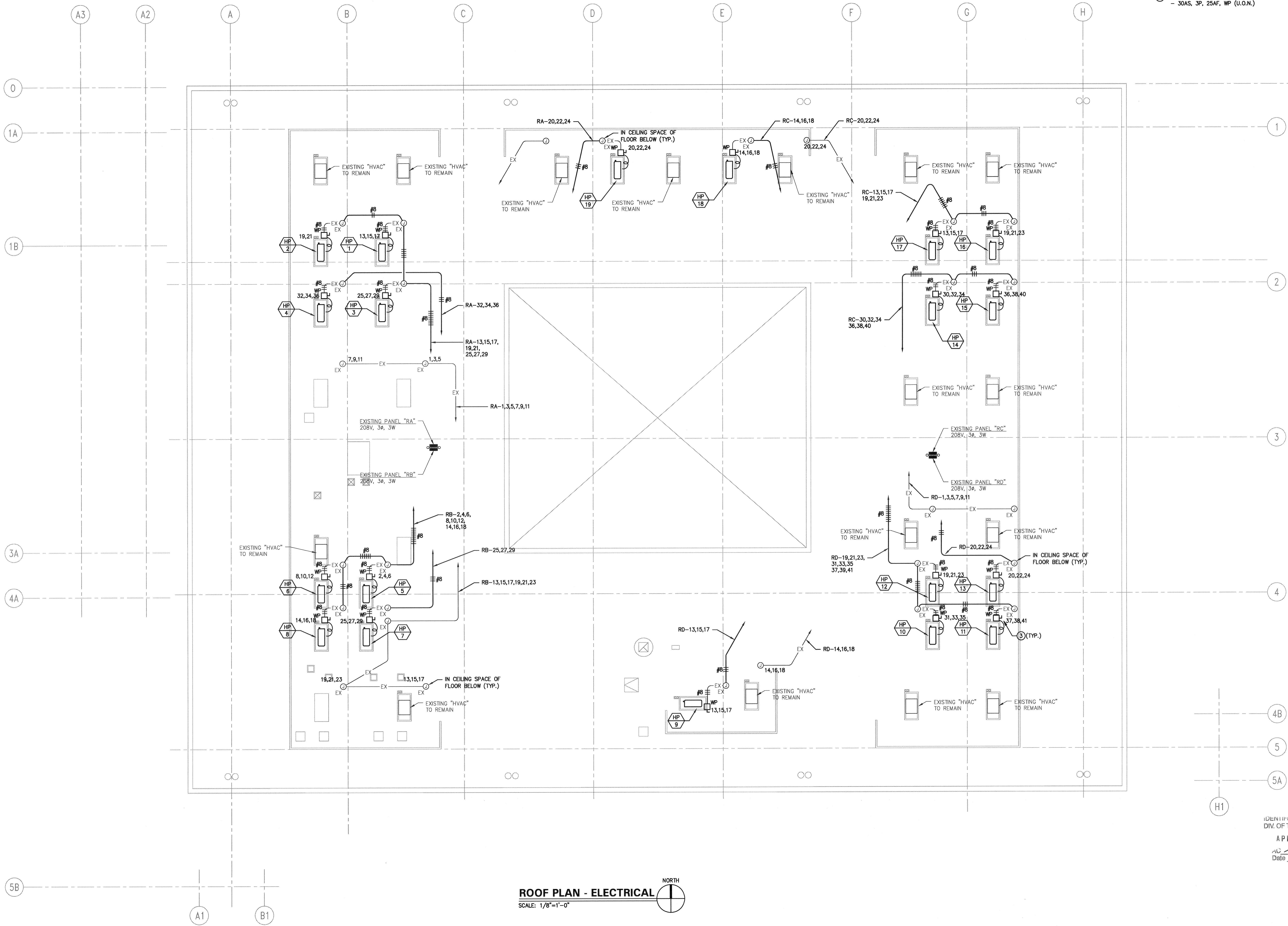


**SECOND FLOOR PLAN - ELECTRICAL DEMOLITION**  
SCALE: 1/8"=1'-0"



**SPECIAL NOTES - THIS SHEET ONLY**

- ① EXISTING JUNCTION BOX WITH EXISTING CIRCUITS/CONDUCTORS AS INDICATED. LABEL CONDUCTORS WITH CIRCUIT NUMBER INDICATED AND "TAPE-OFF" FOR FUTURE USE.
- ② EXTEND EXISTING CIRCUITS INDICATED TO NEW HVAC EQUIPMENT.
- ③ NEW DISCONNECT SWITCH INSTALLED ON EXISTING UNISTRUT RACK - 30AS, 3P, 25AF, WP (U.O.N.)



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

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 FILE NO.  
 APPL. NO.  
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16365 MD  
 RAY J. JIN & RAY T. TAN  
 ARCHITECTS  
 2441 HIGHLAND AVENUE, SUITE 200  
 GLENDALE, CA 91205  
 B/B / 2497 / 0444 FAX 2497 / 1487

GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL -**  
**11000 BUILDING PROP 39 - HVAC UPGRADE**  
 651 GLENWOOD RD, GLENDALE, CA 91202



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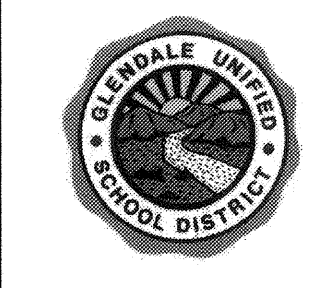
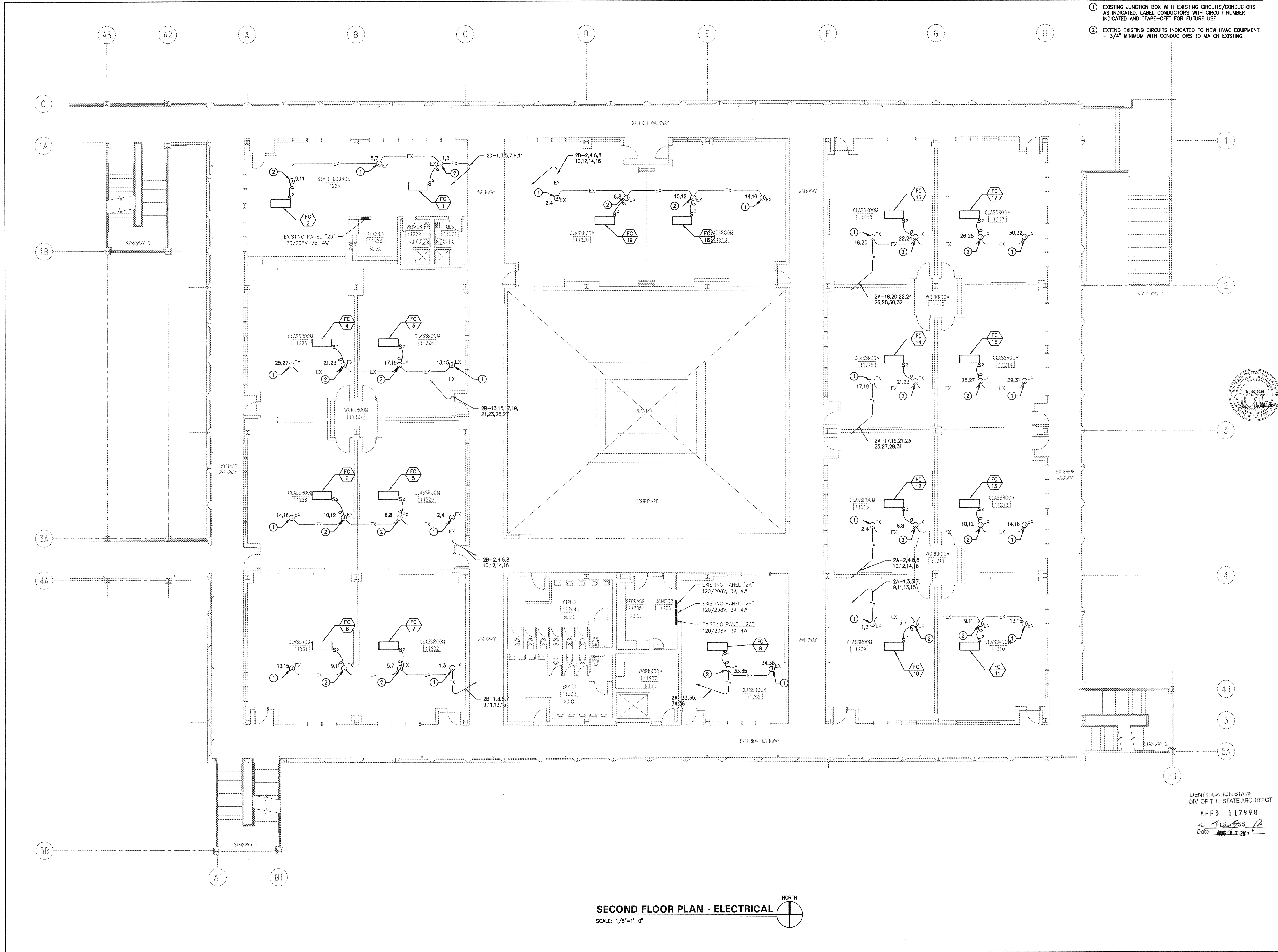
837 NORTH SPRING STREET,  
 THIRD FLOOR  
 LOS ANGELES CA 90012  
 323.424.8025

NAC NO: 161-16043  
 DRAWN: RK  
 CHECKED: JK  
 DATE: 6-28-2017

ROOF PLAN - ELECTRICAL

SPECIAL NOTES - THIS SHEET ONLY

- ① EXISTING JUNCTION BOX WITH EXISTING CIRCUITS/CONDUCTORS AS INDICATED. LABEL CONDUCTORS WITH CIRCUIT NUMBER INDICATED AND "TAPE-OFF" FOR FUTURE USE.
- ② EXTEND EXISTING CIRCUITS INDICATED TO NEW HVAC EQUIPMENT. - 3/4" MINIMUM WITH CONDUCTORS TO MATCH EXISTING.



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 FILE NO. 13182  
 APRIL 10, 2017  
 DATE: 06-07-2017

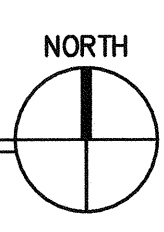
15265, MD  
 JOHN R. RATTAN  
 ENGINEERING INC.  
 2481 HIGHLAND AVENUE SUITE 100  
 COSTA MESA, CA 92626  
 B B 7 2857 / 0444 FAX 714 447 1487

REGISTERED ARCHITECT  
 PROPERTY & BALDWIN  
 NO. C 21424  
 EXP. 03/31/17  
 STATE OF CALIFORNIA

GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL -**  
**11000 BUILDING PROP 39 - HVAC UPGRADE**  
 851 GLENWOOD RD, GLENDALE, CA 91202

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 DIV. OF THE STATE ARCHITECT  
 APP3 117998  
 Date: 06-07-2017

**SECOND FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"



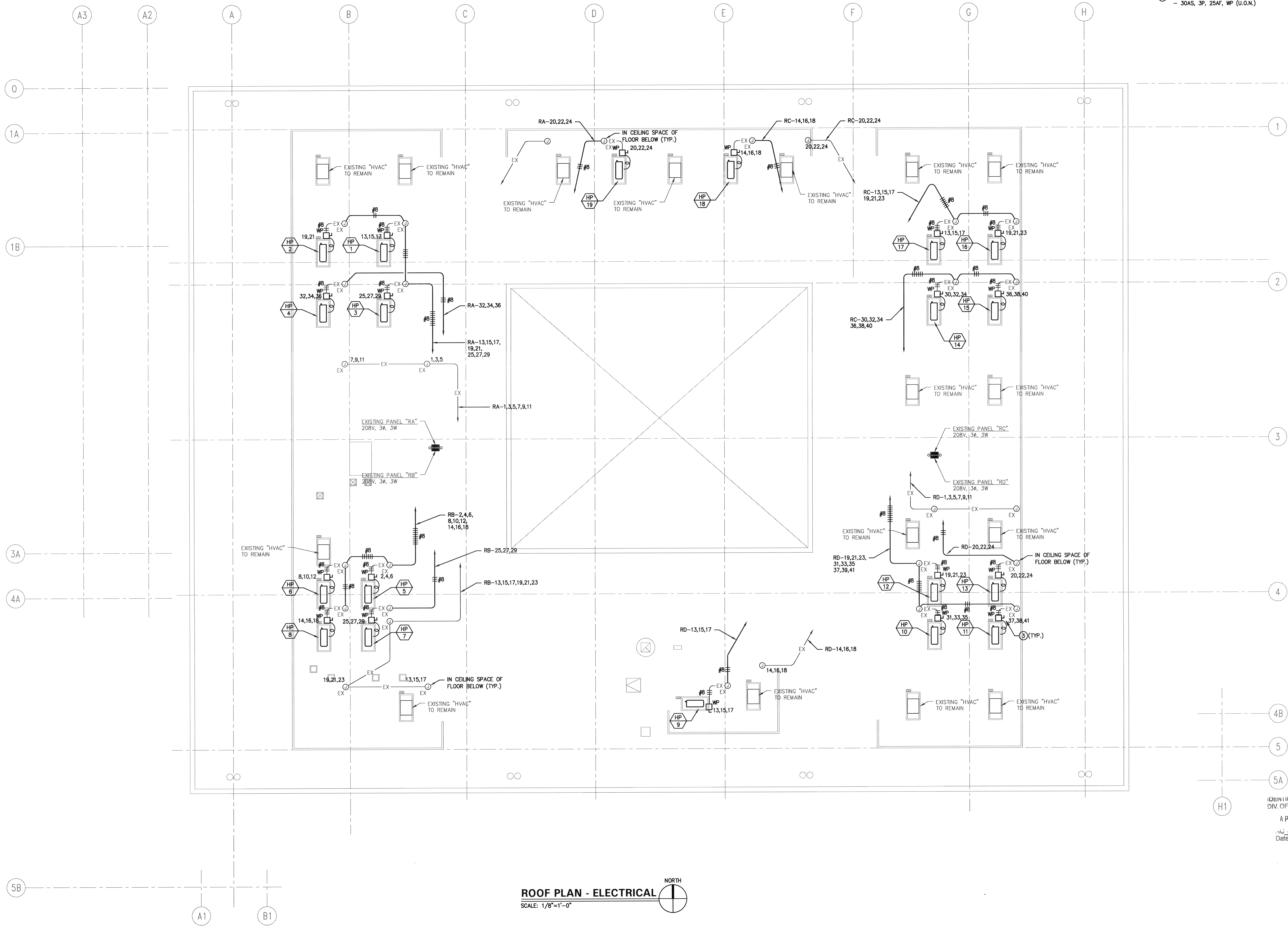
REGISTERED ARCHITECT  
 PROPERTY & BALDWIN  
 NO. C 21424  
 EXP. 03/31/17  
 STATE OF CALIFORNIA

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 ARCHITECTURE  
 nacarchitecture.com  
 457 NORTH SPRING STREET,  
 THIRD FLOOR  
 LOS ANGELES CA 90012  
 (213) 481-8100

NAC NO: 161-16043  
 DRAWN: RK  
 CHECKED: JK  
 DATE: 6-28-2017

**SPECIAL NOTES - THIS SHEET ONLY**

- 1 EXISTING JUNCTION BOX WITH EXISTING CIRCUITS/CONDUCTORS AS INDICATED. LABEL CONDUCTORS WITH CIRCUIT NUMBER INDICATED AND "TAPE-OFF" FOR FUTURE USE.
- 2 EXTEND EXISTING CIRCUITS INDICATED TO NEW HVAC EQUIPMENT.
- 3 NEW DISCONNECT SWITCH INSTALLED ON EXISTING UNISTRUT RACK - 30AS, 3P, 25AF, WP (U.O.N.)



**ROOF PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"  
 NORTH

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 Date: 01/01/2017



IDENTIFICATION STAMP  
 ENGINEERING STAFF ARCHITECT  
 OFFICIAL REGISTRATION SERVICES  
 FILE NO. 117998  
 APR. 10, 2017  
 NAME: TURPIN & RATTAN  
 DATE: 01/01/2017

GLENDALE UNIFIED SCHOOL DISTRICT  
**HERBERT HOOVER HIGH SCHOOL -  
 11000 BUILDING PROP 39 - HVAC UPGRADE**  
 851 GLEENWOOD RD, GLENDALE, CA 91202



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NAC NO: 161-16043  
 DRAWN: RK  
 CHECKED: JK  
 DATE: 6-28-2017

ROOF PLAN -  
 ELECTRICAL