# ATLAS 9085-B AERO DRIVE SAN DIEGO, CALIFORNIA 92123

PLAN CHECK MAY 5, 2023



5173 WARING ROAD - SUITE 91 SAN DIEGO, CALIFORNIA 92120 www.schallarchitects.com

ONE WALK-IN COOLER MEASURING 13'-8" X 36'-6"

COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SHALL BE SUBMITTED TO

THE CITY DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. CFC

	1			
	FIRE	DEPARTMEN	TON TI	ES
	THE INTEN	TION DOCUMENTS APPROVED BY T THAT SUCH CONSTRUCTION DO EVIEW AND APPROVAL BY THE FIF	CUMENTS COMPLY	' IN ALL RESPECTS WITH THIS
	APPLICANT 2. OPEN FLAM	OF THE RESPONSIBILITY OF COINE, FIRE AND BURNING ON THE	MPLIANCE WITH TH PREMISES SHALL	IIS CODE. (CFC 105.4.4) BE IN ACCORDANCE WITH
	(CFC 308. 3. NEW AND		APPROVED ADDRE	ESS NUMBERS, BUILDING
	LEGIBLE AN NUMBERS	ND VISIBLE FROM THE STREET O SHALL CONTRAST WITH THEIR BA OAD AND THE BUILDING ADDRESS	R ROAD FRONTING CKGROUND. WHER	THE PROPERTY. THESE E ACCESS IS BY WAY OF A
	APPROVED 4. DECORATIVI	SIGN OR MEANS SHALL BE USE E MATERIALS AND FINISHES SHAL T LIGHTS, FIRE ALARM SENDING S	D TO IDENTIFY TH L COMPLY WITH C	IE STRUCTURE. (CFC 505.1) CFC 807.
	EXTINGUISH DECORATIVI	HER LOCATIONS, SHALL NOT BE ( E MATERIAL. PER CALIFORNIA CO	CONCEALED, IN WH	HOLE OR IN PART, BY ANY
	DOCUMENT	CODE OFFICIAL SHALL HAVE THE S AND CALCULATIONS FOR ALL F	TIRE PROTECTION S	SYSTEMS AND TO REQUIRE
	PROTECTION BE SUBMIT	IE ISSUED FOR THE INSTALLATION N SYSTEM. CONSTRUCTION DOC TED FOR REVIEW AND APPROVAL	UMENTS FOR FIRE PRIOR TO INSTAL	PROTECTION SYSTEMS SHALL LATION. (CFC 901.2)
	COMPLY W	IGUISHING SYSTEMS SHALL BE IN ITH STANDARDS 903.3. RIOR APPROVED AUDIBLE DEVICE,		
	SPRINKLER	N AN APPROVED LOCATION, SHAI SYSTEM. (CFC 903.4.2) AND CLASSIFICATIONS OF EXTING		
	CODE REG 10. AT LEAST	ULATIONS (CCR), TITLE 19 AND ( ONE FIRE EXTINGUISHER WITH A WITHIN 75' MAXIMUM TRAVEL DIS	CFC 906. MINIMUM RATING	OF 2A-10BC SHALL BE
	TABLE 2. 11. FIRE ALARM	(CFC 906.3) M AND DETECTION SYSTEMS SHAI THE REQUIREMENTS OF SECTIO	L CONFORM TO C	ONE OF THE FOLLOWING
	AND STRUG BUILDINGS	CTURES AND THE REQUIREMENTS AND STRUCTURES. (CFC 907.1)	OF 907.9 ARE A	PPLICABLE TO EXISTING
	INDICATE L THAT IT W	TION DOCUMENTS FOR FIRE ALAF OCATION, NATURE AND EXTENT ( ILL CONFORM TO THE PROVISION	OF THE WORK PRO S OF THIS CODE,	DPOSED AND SHOW IN DETAIL THE CALIFORNIA BUILDING
	FIRE CODE 13. MEANS OF	D RELEVANT LAWS, ORDINANCES, OFFICIAL. (CFC 907.1.1) EGRESS DOORS SHALL BE REAL	DILY DISTINGUISHAE	BLE FROM THE ADJACENT
	MIRRORS ( DOORS. N	TION AND FINISHES SUCH THAT DR SIMILAR REFLECTING MATERIAL MEANS OF EGRESS DOORS SHALL	.S SHALL NOT BE . NOT BE CONCEA	USED ON MEANS OF EGRESS
	14. THE EGRES	NS OR SIMILAR MATERIALS. (CFC SS PATH SHALL REMAIN FREE AN GE IS PERMITTED IN ANY EGRESS	ID CLEAR OF ALL	
	CHAPTER 3	UNDER CONSTRUCTION, ALTERAT 33. BLE DEBRIS SHALL NOT BE ACCU		
	SHIFT OF	ND WASTE MATERIAL SHALL BE I WORK. COMBUSTIBLE DEBRIS, R OF BY BURNING ON THE SITE U	UBBISH AND WAST	TE MATERIAL SHALL NOT BE
	17. DUMPSTERS IN BUILDIN	S AND TRASH CONTAINERS EXCE IGS OR PLACED WITHIN 5 FEET ( BLE ROOF EAVE LINES UNLESS P	EDING 1.5 CUBIC OF COMBUSTIBLE \	YÀRDS SHALL NOT BE STORED WALLS, OPENINGS OR
	OR LOCATE STRUCTURE	ED IN A TYPE I OR IIA STRUCTUI ES. CONTAINERS LARGER THAN OMBUSTABLE MATERIALS OR SIMIL	RE SEPARATED BY 1 CUBIC YARD SH	10 FEET FROM OTHER IALL BE OF A NON- OR
	SHIFT OF 'DISPOSED	WORK. COMBUSTIBLE DEBRIS, R OF BY BURNING ON THE SITE U IGS THAT REQUIRE STANDPIPES,	UBBISH AND WAST	TE MATERIAL SHALL NOT BE . . (CFC 3304.2)
	CONSTRUC DEPARTMEN	TION WHEN THE HEIGHT REACHES  NT VEHICLE ACCESS. A FIRE DEP  FROM AVAILABLE FIRE DEPARTME	S 40 FEET ABOVE ARTMENT CONNECT	THE LOWEST LEVEL OF FIRE THAN
	19. STRUCTURE NOT LESS	ES UNDER CONSTRUCTION, ALTER THAN ONE APPROVED PORTABLE 06 AND SIZED FOR NOT LESS T	ATION OR DEMOLIT FIRE EXTINGUISHI	TION SHALL BE PROVIDED WITH ER IN ACCORDANCE WITH
	BE PROVID CONSTRUC	DED AT EACH STAIRWAY ON ALL F TION SHEDS, IN LOCATIONS WHEF	FLOOR LEVELS, IN RE FLAMMABLE OR	ALL STORAGE AND COMBUSTIBLE LIQUIDS ARE
	20. OPERATION ACCORDAN	R USED, AND WHERE OTHER SPE IS INVOLVING THE USE OF CUTTII CE WITH CFC CHAPTER 35. IS SHALL BE PROVIDED FOR ALL	NG AND WELDING	SHALL BE DONE IN
	IN THE PA	TH OF FIREFIGHTER TRAVEL TO S CESS TO ALARM PANELS AND/OR WHERE ACCESS TO AN AREA IS	STRUCTURES, SECU ANNUNCIATORS, A	JRED PARKING LEVELS, DOORS
	ON ANEAS	WHERE ACCESS TO AN AREA IS	RESTRICTED.	
	ABBF	REVIATIONS		
	& < ©	AND ANGLE AT	E. EA. E. J.	EAST EACH EXPANSION JOINT
	C O	CENTERLINE DIAMETER OR ROUND PERPENDICULAR	ELE. ELEC. ELEV.	ELEVATION ELECTRICAL ELEVATOR
	#	POUND OR NUMBER	EMER. ENCL.	EMERGENCY ENCLOSURE
	ACOUS A. D. ADJ.	ACOUSTICAL AREA DRAIN ADJUSTABLE	EQ. EQPT. E. W. C.	EQUAL EQUIPMENT ELECTRIC WATER COOLER
	AGGR. ALUM. APPROX.	AGGREGATE ALUMINUM APPROXIMATE	EXST. EXPO. EXP.	EXISTING EXPOSED EXPANSION
	ARCH. ASPH. BD.,BRD	ARCHITECTURAL ASPHALT BOARD	EXT. F. A. F. D.	EXTERIOR FIRE ALARM FLOOR DRAIN
	BITUM. BLDG. BLK.	BITUMINOUS BUILDING BLOCK	FDN. F. E. F. E. C.	FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CAB.
	BLKG. BM. BOT.	BLOCKING BEAM BOTTOM	F. H. C. FIN. FL.	FIRE HOSE CABINET FINISH FLOOR
	CAB. C. B.	CABINET CATCH BASIN	FLASH. FLUOR. F. Q. B.	FLASHING FLUORESCENT FACE OF BLOCK
	CEM. CER. C. I.	CEMENT CERAMIC CAST IRON	F. O. C. F. O. F. F. O. S.	FACE OF CONCRETE FACE OF FINISH FACE OF STUD
DEFERRED SUBMITTAL	CLG. CLKG. CLO.	CEILING CAULKING CLOSET	F. O. 3. F.R.T. F. S. FT.	FIRE RETARDANT TREATED FULL SIZE FOOT OR FEET
IT IS UNDERSTOOD THAT PLANS FOR THE PROJECT HAVE, AT THIS TIME, BEEN REVIEWED FOR	CLR. COL. CONC.	CLEAR COLUMN CONCRETE	FTG. FURR.	FOOTING FURRING
COMPLIANCE WITH ALL APPLICABLE STATE AND CITY REGULATIONS, AND THAT THE PROJECT AS A WHOLE HAS BEEN APPROVED BY THE CITY, WITH THE EXCEPTION OF THE DEFERRED ITEMS LISTED.	CONN. CONSTR. CONT.	CONNECTION CONSTRUCTION CONTINUOUS	GA. GALV. G. B.	GAUGE GALVANIZED GRAB BAR
WE UNDERSTAND THAT WE WILL NOT BE AUTHORIZED AN INSPECTION OF THE DEFERRED PROPOSED PRIOR TO THE SUBMITTAL AND APPROVAL OF THE PLANS AND/OR CALCULATIONS	CORT. CORR. CPY. CTSK.	CORRIDOR CANOPY COUNTERSUNK	G.I. GL. GR.	GALVANIZED IRON GLASS GRADE
FOR THOSE DEFERRED ITEMS.  COMPLETE PLANS AND SPECIFICATIONS FOR ALL FIRE EXTINGUISHING SYSTEMS, INCLUDING	C. T. DBL.	CERAMIC TILE DOUBLE	GYP. H. B.	GYPSUM HOSE BIBB
AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS AND OTHER SPECIAL FIRE EXTINGUISHING SYSTEMS AND RELATED APPURTENANCES SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. CFC 901.2	DEPT. D. F. DET.	DEPARTMENT DRINKING FOUNTAIN DETAIL	H. C. HDWD. HDW.	HOLLOW CORE HARDWOOD HARDWARE
1. SPRINKLER SYSTEM 2. HALLOW METAL WINDOW SYSTEM	DIA. DIM. DISP.	DIAMETER DIMENSION DISPENSER	H. M. HORIZ. HGT.	HOLLOW METAL HORIZONTAL HEIGHT

D. W. P.

DRAWER

DOWNSPOUT

DRAWING

DRY STANDPIPE

DOWN

#### NT NOTES GENERAL NOTES THE FIRE CODE OFFICIAL ARE APPROVED WITH OCUMENTS COMPLY IN ALL RESPECTS WITH THIS FIRE CODE OFFICIAL SHALL NOT RELIEVE THE

I. D.

INSUL.

INSULATION

INTERIOR

INSIDE DIAMETER

# ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE, FEDERAL AND LOCAL CODE.

ORDINANCES, LAWS AND CALIFORNIA BUILDING CODE 2022 EDITION, STATE OF CALIFORNIA AND CITY AMENDMENTS. THIS PROJECT SHALL COMPLY WITH THE FOLLOWING BUILDING CODES AND ANY OTHER APPLICABLE REGULATIONS:

CA. BUILDING CODE, 2022 ED. CA. MECHANICAL CODE, 2022 ED. CA. PLUMBING CODE, 2022 ED. ELECTRICAL CODE, 2022 ED. CA. FIRE CODE, 2022 ED.

CA. GREEN BLDG. STAND., 2022 ED THE CONTRACTOR SHALL VISIT THE SITE, VERIFY ALL DIMENSIONS BEFORE SUBMITTING A BID, AND

NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS. ALL HEIGHTS AND ELEVATIONS SHALL BE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE

SIGNAGE IS SUBJECT TO SEPARATE PERMITS.

PROVIDE ADEQUATE BACKING FOR ALL INDICATED FIXTURES, SIGN J-BOXES, GRAB BARS, ROOF MOUNTED FIXTURES, ETC. WHERE INDICATED

SUSPENDED CEILINGS SHALL COMPLY WITH SECTION 808, CBC INTERIOR FINISHES MUST CONFORM TO REQUIREMENTS OF CHAPTER 8, CBC

STANDARDS, LAWS, ORDINANCES AND REGULATIONS.

JOINT

LAMINATE

LAVATORY

MAXIMUM

METAL

MINIMUM

MOUNTED

NUMBER

OVERALL

**OPENING** 

OPPOSITE

PRE-CAST

PLATE

**PLASTER** 

POINT

PLYWOOD

QUARRY TILE

RECEPTACLE

ROOF DRAIN

REFERENCE

REINFORCED

REQUIRED

ROOM

RESAWN

REDWOOD

REFRIGERATOR

ROUGH OPENING

RAIN WATER LEADER

ROUGH SAWN

RADIUS

OBSCURE

ON CENTER

OUTSIDE DIAMETER

PLASTIC LAMINATE

PAPER TOWEL DISPENSER

OPPOSITE HAND

MECHANICAL

**MANUFACTURER** 

MISCELLANEOUS

MASONRY OPENING

NOT IN CONTRACT

NOT TO SCALE

MEDICINE CABINET

M. C.

MECH.

MISC.

M. O.

N. I. C.

NO. OR

N.T.S.

O. A.

OBS.

O. C.

O. D.

OPH

OPNG.

OPP.

P. LAM.

PLAS.

PLYWD.

P.T. DISP.

Q. T.

RECP.

RAD.

R. D.

REF.

REFR.

REINF.

REQ.

R. 0.

RO.S.

R.S.

RWD.

R. W. L.

RM.

PR.

MTD.

. NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN CBC TABLE 307.1 (1) AND 307.1 (2).

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK.

. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS. VERIFY WITH 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, CONSTRUCTION AND MAINTENANCE OF ALL SAFETY DEVICES INCLUDING SHORING AND BRACING AND THE CONTRACTOR SHALL BE SOLELY

4. CONTRACTOR SHALL PROVIDE MANUFACTURES CUT SHEETS ON ALL ENGINEERED WOOD TRUSSES TO THE BUILDING OFFICIAL, AND RECEIVE APPROVAL PRIOR TO THE ERECTION OF ROOF FRAMING.

RESPONSIBLE FOR COMPLYING WITH CURRENT FEDERAL, STATE AND LOCAL SAFETY AND HEALTH

15. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S.) 6. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION

110.6 ENERGY EFFICIENCY STANDARDS (E.E.S.) 7. CUSTOMERS. PATRONS AND VISITORS SHALL BE PROVIDED WITH PUBLIC TOILET FACILITIES IN STRUCTURES AND TENANT SPACES INTENDED FOR PUBLIC UTILIZATION. THE NUMBER OF PLUMBING FIXTURES LOCATED WITHIN THE REQUIRED TOILET FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 2902.1 FOR ALL USERS. EMPLOYEES SHALL BE

PROVIDED WITH TOILET FACILITIES IN ALL OCCUPANCIES. EMPLOYEE TOILET FACILITIES SHALL

EITHER BE SEPARATE OR COMBINES EMPLOYEE AND PUBLIC TOILET FACILITIES PER CBC

**SECTION 2902.3** 18. STATE HEALTH & SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR-WATER SUPPLY PIPING.

9. WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC

20. GENERAL CONTRACTOR IS TO PROVIDE SUB-CONTRACTORS A FULL SET OF PLANS WHICH SHALL INCLUDE EACH DISCIPLINE (ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING) 21. GENERAL CONTRACTOR IS TO PROVIDE FIRE SPRINKLER DESIGN AND DRAWINGS AS NEEDED.

SHEATHING

SCHEDULE

SECTION

SHOWER

SQUARE

STATION

STEEL

STORAGE

STRUCTURAL

SUSPENDED

SYMMETRICAL

TENANT FURNISHED,

TENANT FURNISHED.

TENANT INSTALLED.

TONGUE AND GROOVE

TOILET PAPER DISPENSER

UNLESS OTHERWISE NOTED

TOP OF PARAPET

TOP OF CURB

TELEPHONE

**TERRAZZO** 

TELEVISION

TYPICAL

URINAL

**VERTICAL** 

WEST

WITH

WOOD

WITHOUT

WAINSCOT

WEIGHT

**VESTIBULE** 

WATER CLOSET

**WATERPROOF** 

TOP OF WALL

THICK

CONTRACTOR INSTALLED.

STANDARD

SOAP DISPENSER

SHELF OR SHEET

SPECIFICATION

STAINLESS STEEL

S. C.

SCHD.

S. DISP.

SECT.

SH.

SHR.

SPEC.

ST. STL.

SQ.

STA.

STD.

STL.

STOR.

STRUCT.

SUSP.

T.F.C.I.

T.F.T.I.

T.O.C.

TEL.

TER.

T & G

THK.

T.O.P.

T. V.

TYP.

UR.

VERT.

VEST.

W. C.

WD.

W/0

WSCT.

T.O.W.

U. O. N.

T. P. DISP.

SYM.

S. C. DISP.

S. N. DISP.

S. N. RECEPT

SOLID CORE

SEAT COVER DISPENSER

SANITARY NAP. DISPENSER

SANITARY NAP. RECEPTACLE

# PROJECT DIRECTORY

WESTERN SALT COMPANY C/O H G FENTON COMPANY VASQUEZ CONSTRUCTION COMPANY 7577 MISSION VALLEY ROAD

SAN SAN DIEGO, CALIFORNIA 92108

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METTEMEYER ENGINEERING 2225 WEST CHESTERFIELD BLVD. - SUITE 300 SPRINGFIELD, MISSOURI 65807 ALAN METTEMEYER PH: (417) 890-8002 E-MAIL: amettemeyer@mett-engr.com

# SHEET INDEX

<u>ARCHITECTURAL:</u> TITLE SHEET

**GENERAL CONTRACTOR** 

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CELL PH: 619-609-1654

EMAIL: jason@vasquezco.com

3009 G STREET

JASON SANDERS

TS1 ACCESSIBILITY NOTES AND DETAILS TS2 ACCESSIBILITY NOTES AND DETAILS TS3 ACCESSORY MOUNTING HEIGHTS

AO.1 SITE PLAN A1.1 EGRESS PLAN A2.0 DEMOLITION PLAN

A2.1 FLOOR PLAN A2.2 EQUIPMENT PLAN

A3.1 REFLECTED CEILING PLAN

A7.2 DETAILS A8.1 FINISH PLAN A9.1 INTERIOR ELEVATIONS A9.2 INTERIOR ELEVATIONS A10.1 DOOR SCHEDULE AND WINDOW TYPES

A7.1 DETAILS

S000 GENERAL NOTES S001 SCHEDULES, SPECIAL INSPECTIONS S101 FOUNDATION PLAN AND TYPICAL DETAILS S301 ROOF FRAMING PLAN

MECHANICAL: M001 MECHANICAL TITLE SHEET M002 MECHANICAL SCHEDULES M003 MECHANICAL DETAILS M004 MECHANICAL SPECIFICATIONS M005 MECHANICAL SPECIFICATIONS M006 MECHANICAL TITLE 24 M007 MECHANICAL TITLE 24 M008 MECHANICAL ZONING PLAN M211 MECHANICAL FLOOR PLAN

M221 MECHANICAL ROOF PLAN

E001 NOTE SHEET E002 LIGHTING DETAIL SHEET E101 DEMO PLAN

E201 LIGHTING PLAN E202 EGRESS PHOTOMETRIC PLAN E301 POWER PLAN E302 EQUIPMENT LIST E401 MECHANICAL PLAN

E501 SINGLE LINE DIAGRAM

E502 PANEL SCHEDULES E601 DETAIL SHEET ET01 TITLE 24

POO1 PLUMBING TITLE SHEET P002 PLUMBING SCHEDULES P003 PLUMBING DETAILS P004 PLUMBING SPECIFICATIONS P005 PLUMBING SPECIFICATIONS P006 PLUMBING SPECIFICATIONS P211 PLUMBING FLOOR PLAN

P212 PLUMBING FLOOR PLAN

# SYMBOL LEGEND

ROOM NAME AND NUMBER 100 (100A) DOOR NUMBER  $\langle A \rangle$ WINDOW NUMBER (125) KEYNOTE P1 — WALL TYPE -DRAWING NUMBER SECTIONS —SHEET NUMBER -DRAWING NUMBER DETAILS —SHEET NUMBER (FE1) MATERIAL (123) EQUIPMENT ITEM

# **BUILDING DATA**

LEGAL DESCRIPTION: TR 8436 LOT 1 (AERO INDUSTRIAL PARK)

BUILDING ADDRESS: 9085-B AERO DRIVE SAN DIEGO, CALIFORNIA 92123

**BUILDING INFORMATION** 

APN: 421-360-01-00

THIS PROJECT SHALL COMPLY WITH TITLE 24 & 2022 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA ENERGY CODE (CEnC) AND 2022 CALIFORNIA FIRE CODE.

YES SPRINKLERS: TYPE OF CONSTRUCTION: III-B OCCUPANCY GROUP: PREVIOUS OCCUPANCY GROUP: B AND S-1 192 PEOPLE OCCUPANT LOAD: NUMBER OF STORIES: 1 STORIES TENANT REMODEL AREA: 19.678 SQ. FT. OVERALL BUILDING AREA: 33,664 SQ. FT.

THE EXISTING 1-HOUR WALL SEPARATING THIS PROJECT SPACE FROM THE ADJACENT TENANT. SPACE TO THE EAST WILL DESIGNATE THE 2 SEPARATE CONTROL AREAS FOR THIS EXISTING

ADJACENT SPACE TO THE EAST HAS OFFICE SPACE AT THE NORTH END WITH WAREHOUSE SPACE AT THE SOUTH END. OCCUPANCY GROUP = B AND S-1. .....

# PROJECT DESCRIPTION

TENANT IMPROVEMENT OF 19,678 SQUARE FEET FOR "ATLAS". THE TENANT SPACE OCCUPIES ROUGHLY HALF OF THE ENTRY LEVEL FLOOR OF 1 STORY BUILDING. SURFACE PARKING IS AVAILABLE AT THE NORTH, WEST, AND SOUTH END SIDES OF THE PROPERTY.

THE TENANT IMPROVEMENT WILL INCLUDE: NEW PARTITION WALLS, INTERIOR DOORS, INTERIOR WINDOWS, CASEWORK, CEILING, LIGHTING, POWER, DATA AND INTERIOR FINISHES. MECHANICAL UPGRADES WILL INCLUDE THE USE OF EXISTING AND NEW EQUIPMENT AS OUTLINED IN THE MECHANICAL SHEETS. DUCTING WILL BE MODIFIED OR ADDED TO ACCOMMODATE THE EXISTING AND NEW HVAC DESIGN.

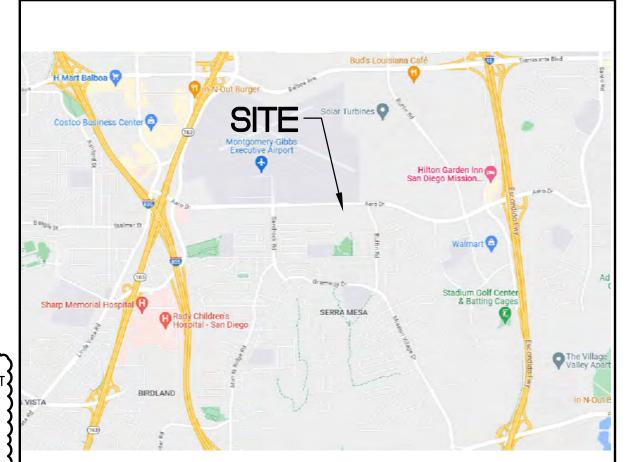
A NEW WALK-IN COOLER WILL BE ADDED TO THE EXISTING SPACE PER THE PLANS.

FOUNDATION MODIFICATIONS / ADDITIONS WILL BE SHOWN PER THE STRUCTURAL SHEETS. *\_\_\_\_\_\_* PLUMBING SCOPE TO INCLUDE REMOVAL OF EXISTING PLUMBING FIXTURES, PER DEMOLITION PLAN, AND SALVAGED TO BE REUSED IN EXISTING RESTROOM SPACES.

EXISTING 1-HOUR WALL TO REMAIN.

# VICINITY MAP

NOT TO SCALE



5173 WARING ROAD, SUITE 9

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PLAN CHECK 05-05-23 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

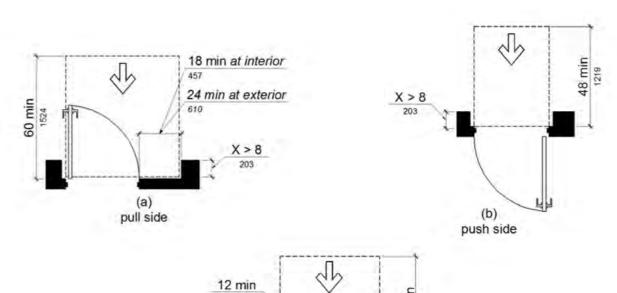
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PROJECT NO: 2022170

SHEET TITLE TITLE SHEET

# MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS MINIMUM MANEUVERING CLEARANCE Parallel to doorway (beyond stop/latch side unless noted) Approach direction Perpendicular to doorway From side 42 inches (1067 mm) 0 inches (0 mm) From pocket/hinge side 22 inches (559 mm)<sup>2</sup> 42 inches (1067 mm) 42 inches (1067 mm) 24 inches (610 mm) From stop/latch side Doorway with no door only. . Beyond pocket/hinge side. front approach side approach 22 min pocket or hinge approach stop or latch approach

#### FIGURE 11B-404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS



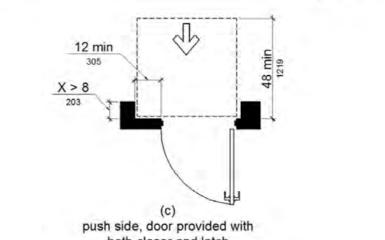


FIGURE 11B-404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

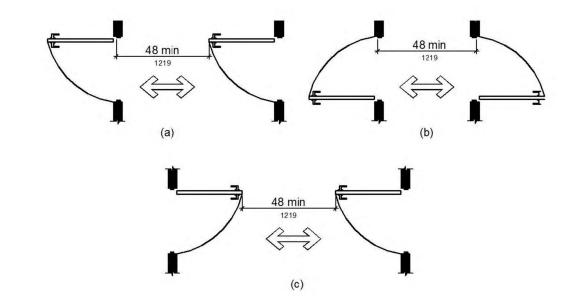


FIGURE 11B-404.2.6 DOORS IN SERIES AND GATES IN SERIES

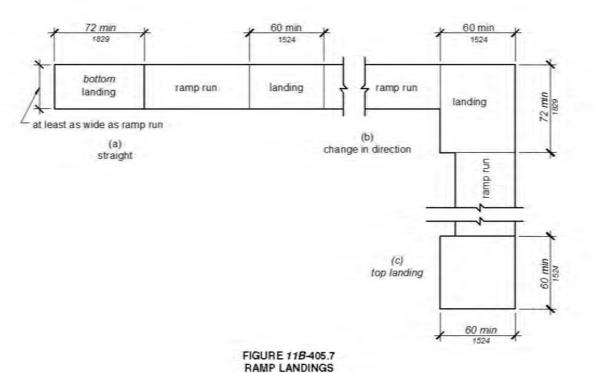




FIGURE 11B-405.9.2

CURB OR BARRIER EDGE PROTECTION

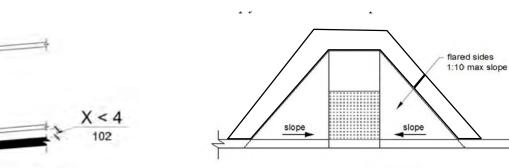


FIGURE 118-406.2.2

SIDES OF CURB RAMPS

36 min 180 degree turn 180 degree turn FIGURE 11B-403.5.2 **CLEAR WIDTH AT TURN** 

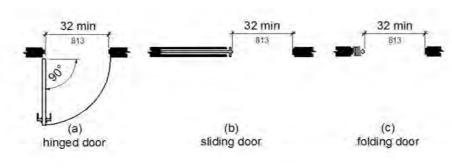


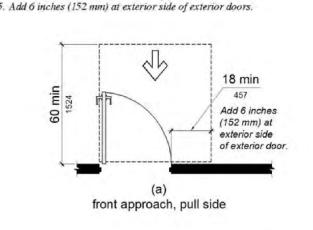
FIGURE 11B-404.2.3 **CLEAR WIDTH OF DOORWAYS** 

#### TABLE 11B-404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

	1 002	initiation in the System of Case and the						
Approach direction	Door or gate side	Perpendicular to doorway	Parallel to doorway (beyond latch side unless noted)					
From front	Pull	60 inches (1524 mm)	18 inches (457 mm) <sup>5</sup>					
From front	Push	48 inches (1219 mm)	0 inches (0 mm) <sup>1</sup>					
From hinge side	Pull	60 inches (1524 mm)	36 inches (914 mm)					
From hinge side	Push	44 inches (1118 mm) <sup>2</sup>	22 inches (559 mm) <sup>3</sup>					
From latch side	Pull	60 inches (1524 mm)	24 inches (610 mm)					
From latch side	Push	44 inches (1118 mm)*	24 inches (610 mm)					

. Add 12 inches (305 mm) if closer and latch are provided. 2. Add 4 inches (102 mm) if closer and latch are provided. Beyond hinge side.

4. Add 4 inches (102 mm) if closer is provided.



front approach, push side, door

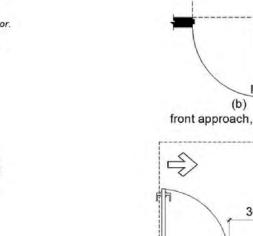
provided with both closer and latch

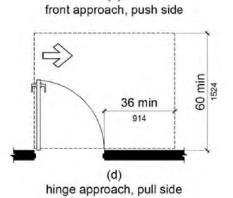
Model code

figure not

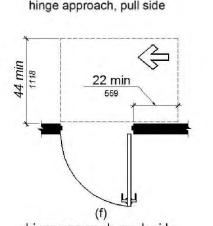
applicable

reserved





MINIMUM MANEUVERING CLEARANCE

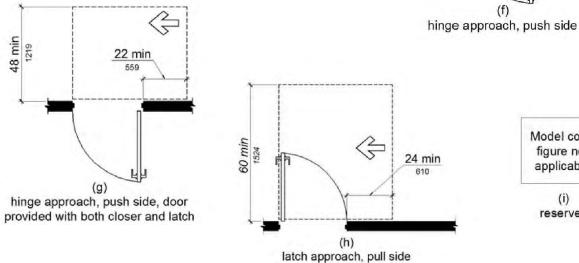


Model code

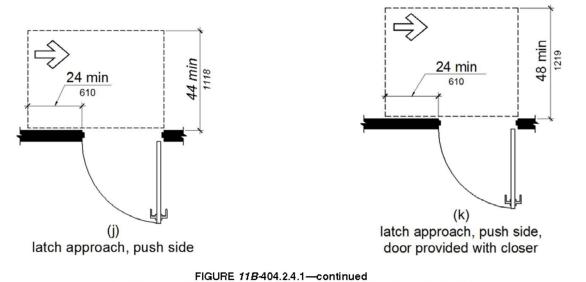
figure not

applicable

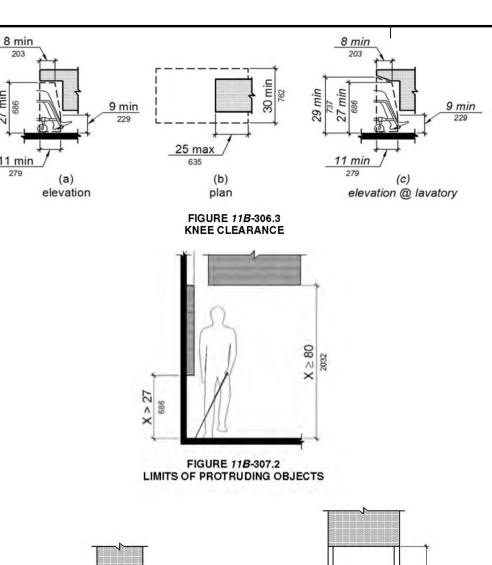
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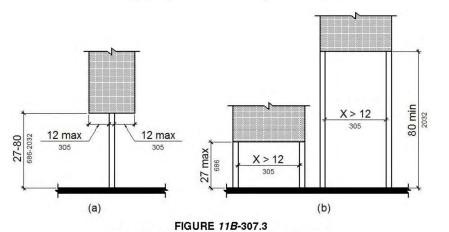


#### FIGURE 11B-404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

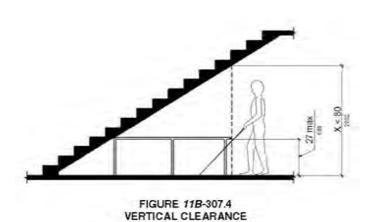


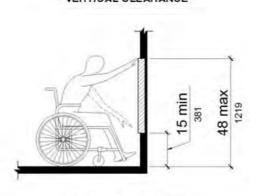
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES





POST-MOUNTED PROTRUDING OBJECTS





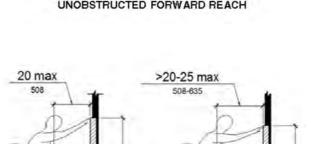
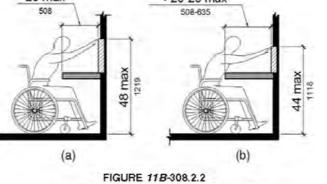


FIGURE 11B-308.2.1



OBSTRUCTED HIGH FORWARD REACH

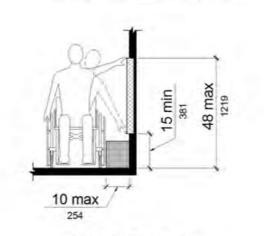


FIGURE 11B-308.3.1 UNOBSTRUCTED SIDE REACH

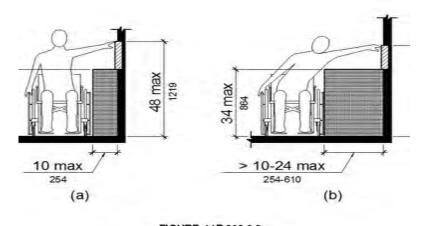


FIGURE 11B-308.3.2 OBSTRUCTED HIGH SIDE REACH

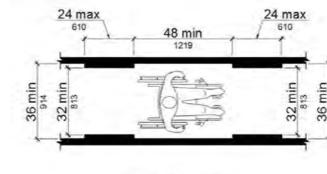
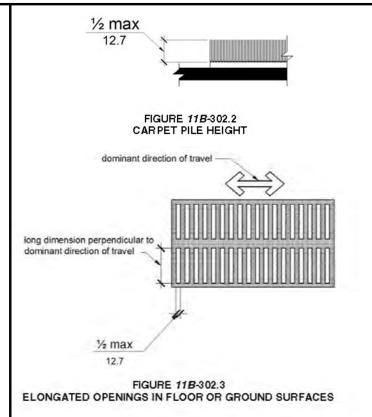
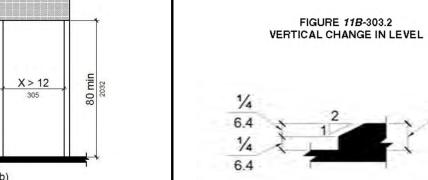


FIGURE 11B-403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE





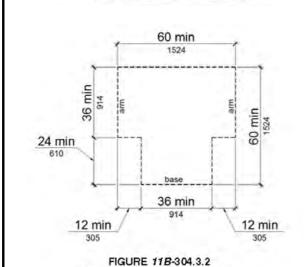


FIGURE 11B-303.3

BEVELED CHANGE IN LEVEL

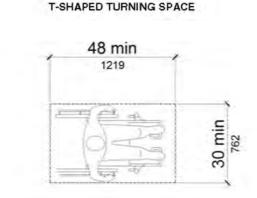


FIGURE 11B-305.3 CLEAR FLOOR OR GROUND SPACE

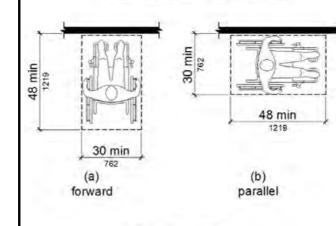
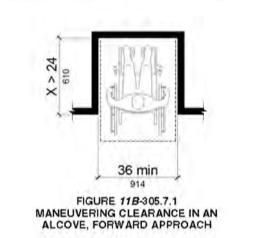
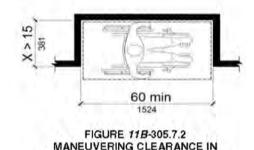
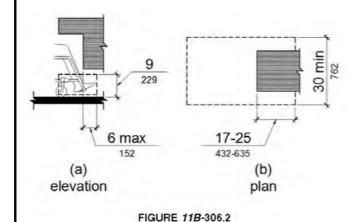


FIGURE 11B-305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE





MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH



TOE CLEARANCE

# **ACCESSIBILITY NOTES**

- WHEN ALTERATIONS OR ADDITIONS ARE MADE TO EXISTING BUILDINGS OR FACILITIES, AN ACCESSIBLE PATH OF TRAVEL TO THE SPECIFIC AREA OF ALTERATION OR ADDITION SHALL BE PROVIDED. (SECTION 11B-202.4)
- PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH SECTION 11B-307.
- (SECTION 11B-204.1) ACCESSIBLE ROUTES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-206 AND
- SHALL COMPLY WITH DIVISION 4. (SECTION 11B-206.1) ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-206.4. ENTRANCE
- DOORS, DOORWAYS AND GATES SHALL COMPLY WITH SECTION 11B-404 AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH SECTION 11B-402. (SECTION 11B-206.4) ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDINGS AND FACILITIES
- SHALL COMPLY WITH CBC SECTION 11B-404. (SECTION 11B-206.4.1) DOORS, DOORWAYS AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-206.5. (SECTION 11B-206.5)
- MEANS OF EGRESS SHALL COMPLY WITH CHAPTER 10, SECTION 1009. (SECTION 11B-207.1)
- WHERE PARKING SPACES ARE PROVIDED, PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-208. (SECTION 11B-208.1)
- FOR EVERY 6 OR FRACTION OF SIX PARKING SPACES REQUIRED BY SECTION 11B-208.2 TO COMPLY WITH SECTION 11B-502, AT LEAST ONE SHALL BE A VAN PARKING SPACE
- COMPLYING WITH SECTION 11B-502. (SECTION 11B-208.2.4) . WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, ON A FLOOR, OR WITHIN A SECURED AREA THEY SHALL BE PROVIDED IN ACCORDANCE WITH SECTION
- 11B-211. (SECTION 11B-211.1) WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH SECTION 11B-213. (SECTION 11B-213.1)

SHALL COMPLY WITH SECTION 11B-302. (SECTION 11B-302.1)

- NEW OR ALTERED SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-216 AND SHALL COMPLY WITH SECTION 11B-703. THIS INCLUDES, BUT IS NOT LIMITED TO, DIRECTIONAL INFORMATION, MEANS OF EGRESS, PARKING, ENTRANCES AND RESTROOMS.
- (SECTION 11B-216.1) DETECTABLE WARNINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-247.1
- AND SHALL COMPLY WITH SECTION 11B-705.1. (SECTION 11B-247.1.1.) 4. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT AND
- . OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN ½" DIAMETER EXCEPT AS ALLOWED IN SECTION 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3, AND 11B-810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF
- TRAVEL. (SECTION 11B-302.3) . WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH WITH SECTION 11B-303. (SECTION 11B-303.1)
- 7. CHANGES IN LEVEL ON  $4\hspace{-0.1cm}\cancel{\hspace{0.1cm}}\cancel{\hspace{0.1cm}}^{\hspace{0.1cm}}$  HIGH MAX SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. (SECTION 11B-303.2)
- 18. CHANGES IN LEVEL BETWEEN  $\frac{1}{4}$ "  $\frac{1}{2}$ " SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. (SECTION 11B-303.3)
- 19. CHANGES IN LEVEL GREATER THAN ½" SHALL BE RAMPED, AND SHALL COMPLY WITH CBC SECTION 11B-405 OR 11B-406. (SECTION 11B-303.4)
- 20. OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309. (SECTION 11B-309.1)
- 21. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305 SHALL BE PROVIDED FOR OPERABLE PARTS. (SECTION 11B-309.2)
- 22. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 11B-308. (SECTION 11B-309.3)
- 23. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX. (SECTION 11B-309.4)
- 24. ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 11B-402. (SECTION 11B-402.1) 25. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. (SECTION
- 26. DOORS, DOORWAYS, AND GATES THAT ARE APART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH SECTION 11B-404. (SECTION 11B-404.1)
- 27. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" MIN. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24" DEEP SHALL PROVIDE A CLEAR OPENING OF 36" MIN. (SECTION 11B-404.2.3)
- 28. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING TABLE 11B-404.2.4.1. (SECTION 11B-404.2.4.1)
- 29. DOORWAYS LESS THAN 36" WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.2. (SECTION 11B-404.2.4.2)
- 30. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH CBC SECTION 11B-309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN AND 44" MAX ABOVE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. (SECTION 11B-404.2.7)
- SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. (SECTION 11B-404.2.10)
- 32. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 11B-405. (SECTION 11B-405.1)
- 33. CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 11B-406. CURB RAMPS MAY BE PERPENDICULAR, PARALLEL, OR A COMBINATION OF PERPENDICULAR AND PARALLEL. (SECTION 11B-406.1) 34. CAR AND VAN PARKING SPACES SHALL COMPLY WITH SECTION 11B-502. WHERE
- PARKING SPACES ARE MARKED WITH LINES, WIDTH MEASUREMENTS OF PARKING SPACES ARE MARKED WITH LINES, WIDTH MEASUREMENTS OF PARKING SPACES AND ACCESS ISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS. (SECTION 11B-502.1)
- 35. ACCESS ISLES SERVING PARKING SPACES SHALL COMPLY WITH SECTION 11B-502.3. ACCESS ISLES SHALL ADJOIN AND ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS ISLES. (SECTION 11B-502.3)
- 36. STAIRS SHALL COMPLY WITH SECTION 11B-504. (SECTION 11B-504.1) 37. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH SECTION 11B-403,
- REQUIRED AT RAMPS COMPLYING WITH SECTION 11B-405, AND REQUIRED AT STAIRS COMPLYING WITH SECTION 11B-504 SHALL COMPLY WITH SECTION 11B-505 (SECTION 11B-505.1)
- 38. DRINKING FOUNTAINS SHALL COMPLY WITH SECTIONS 11B-307 AND 11B-602. (SECTION
- 39. DRINKING FOUNTAINS OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309. (SECTION 11B-602.1) 40. DRINKING FOUNTAIN SPOUT HEIGHT SHALL BE 36" MAX ABOVE FINISH FLOOR OR GROUND.
- THE SPOUT SHALL BE LOCATED 15" MIN. FROM THE VERTICAL SUPPORT AND 5" MAX FROM THE FRONT EDGE OF THE UNIT. (SECTION 11B-602.4 & 11B-602.5)
- 1. TOILET AND BATHING ROOMS SHALL COMPLY WITH SECTION 11B-603. (SECTION 11B-603.1)
- 42. WATER COMPARTMENTS AND TOILET COMPARTMENTS SHALL COMPLY WITH SECTION 11B-604.2 THROUGH 11B-604.8. (SECTION 11B-604.1)
- 43. URINALS SHALL COMPLY WITH SECTION 11B-605. (SECTION 11B-605.1) 44. LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606. (SECTION 11B-606.1)
- 45. BATHTUBS SHALL COMPLY WITH SECTION 11B-607. (SECTION 11B-607.1)
- 46. SHOWER COMPARTMENTS SHALL COMPLY WITH SECTION 11B-608. (SECTION 11B-608.1) 47. GRAB BARS SHALL COMPLY WITH SECTION 11B-609. (SECTION 11B-609.1)
- 48. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE. (SECTION 11B-609.8)
- 49. SEATS IN BATHTUBS AND SHOWER COMPARTMENTS SHALL COMPLY WITH SECTION 11B-610. (SECTION 11B-610.1) 50. SIGNS SHALL COMPLY WITH SECTION 11B-703. WHERE BOTH VISUAL AND TACTILE
- CHARACTERS ARE REQUIRED. EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED. (SECTION 11B-703.1)





PLAN CHECK 05-05-23

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PROJECT NO: 2022170

SHEET TITLE **ACCESSIBILITY** NOTES AND DETAILS

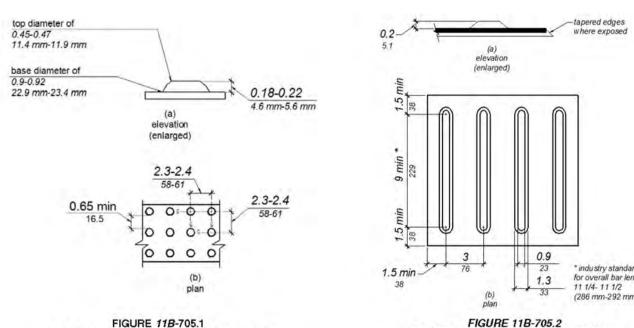
less than 72 inches (1829 mm)   5/8 inch (15.9 mm)   180 inches (1016 mm)   180 inches (3048 mm)   180 inches (4572 mm) and greater   180 inches (4572 mm) and greater   180 inches (4572 mm)   180 inches (4572 mm) and greater   180 inches (4572 mm)	305
to less than or equal to 70 inches (1778 mm)  To less than 180 inches (4572 mm) and greater  To less than 0 requal to 70 inches (1778 mm)  To less than 0 requal to 180 inches (4572 mm) and greater 2 inches (51 mm)  To less than 0 requal to 180 inches (4572 mm) and greater 2 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 2 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 2 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 3 inches (4572 mm) and greater 3 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 3 inches (4572 mm) and greater 3 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 3 inches (4572 mm) and greater 3 inches (51 mm), plus 1/8 inch (3.2 mm) per foot 3 inches (4572 mm) and greater 3 inches (4572 m	305
to less than or equal to  180 inches (4572 mm) and greater 2 inches (51 mm), plus \(^1/8\) inch (3.2 mm) per foot	
to less than or equal to 2 inches (4572 mm) and greater 2 inches (51 mm), plus 1/8 inch (3.2 mm) per foot	
120 inches (3048 mm) mm) of viewing distance above 180 inches (4572	
less than 21 feet (6401 mm) 3 inches (76 mm)	
greater than 120 inches (3048 mm)  21 feet (6401 mm) and greater  3 inches (76 mm), plus ½ inch (3.2 mm) per foot mm) of viewing distance above 21 feet (6401 mm)	

Color No. 15090 in Federal Standard 595B.

Exception: The appropriate enforcement agency may approve other colors to complement décor or unique design. The symbol contrast shall be light on dark or dark on light.



FIGURE 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY



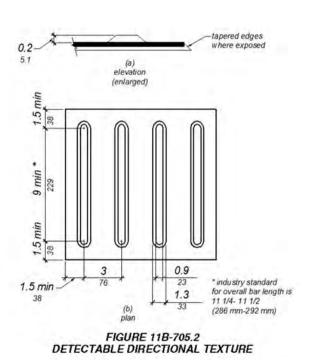
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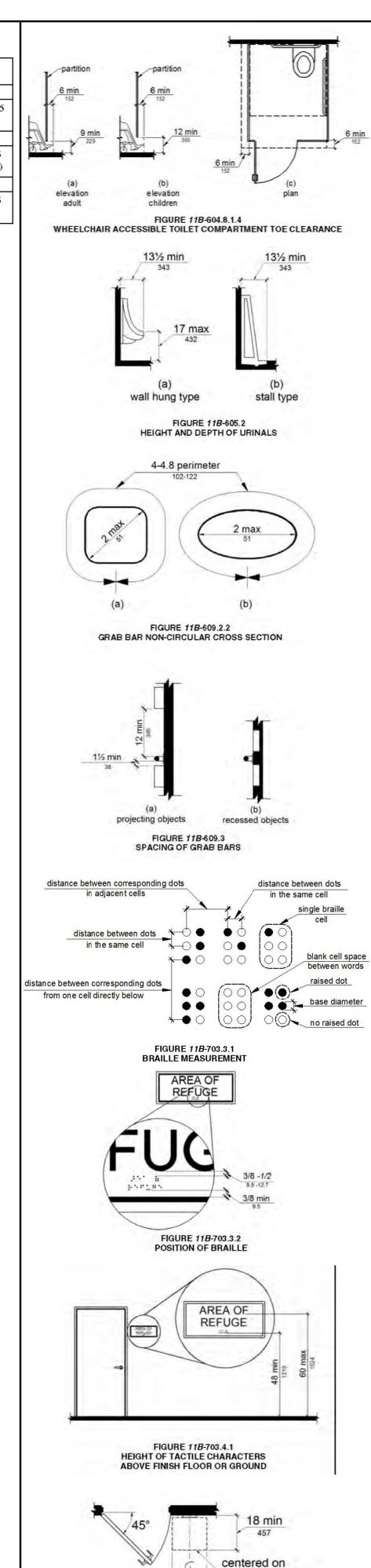
FIGURE 11B-703.6.1

PICTOGRAM FIELD

SIZE AND SPACING OF TRUNCATED DOMES

pictogram





tactile characters

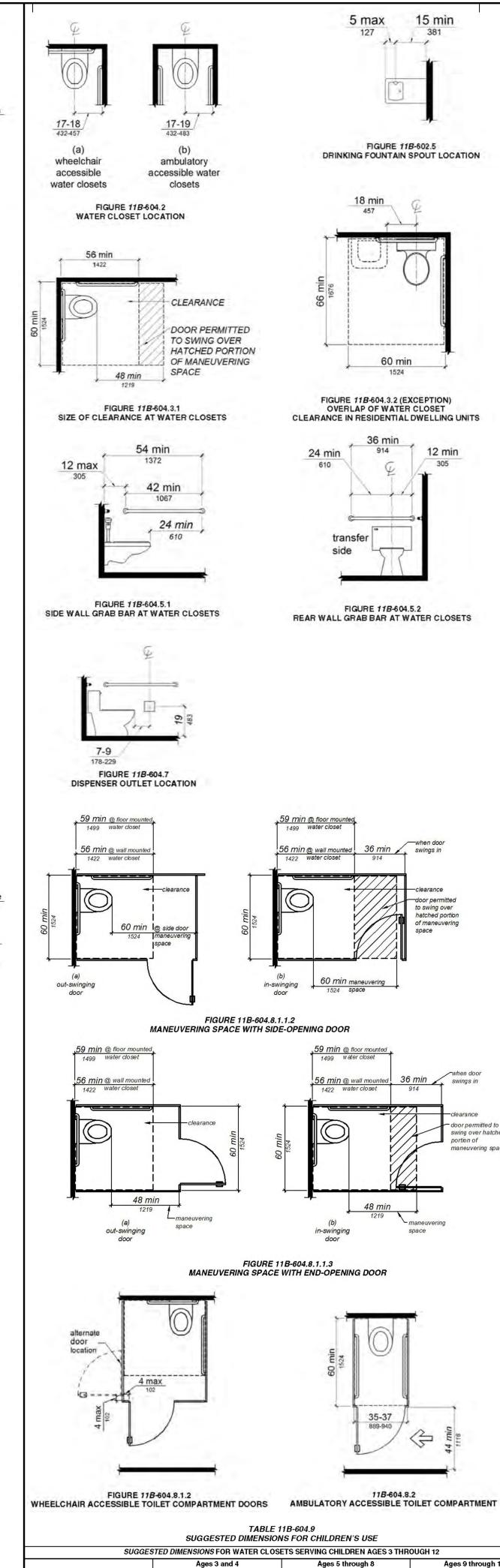
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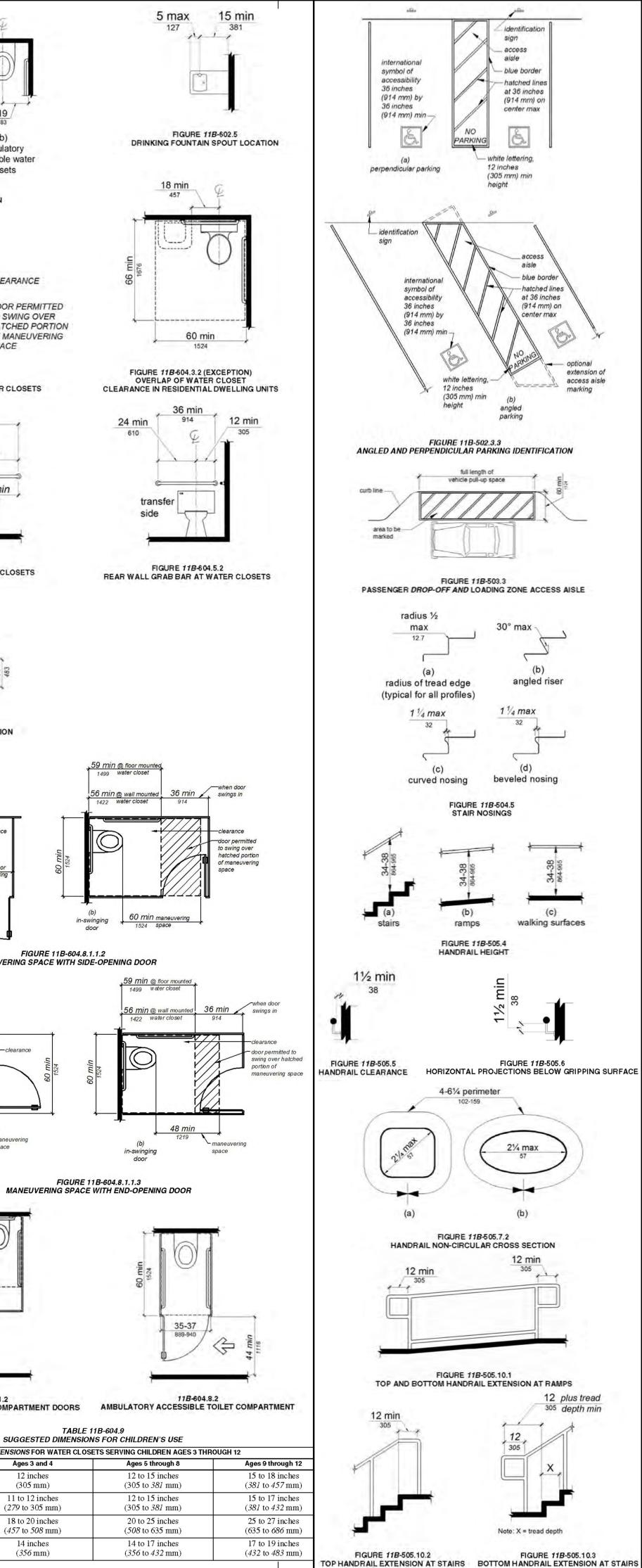
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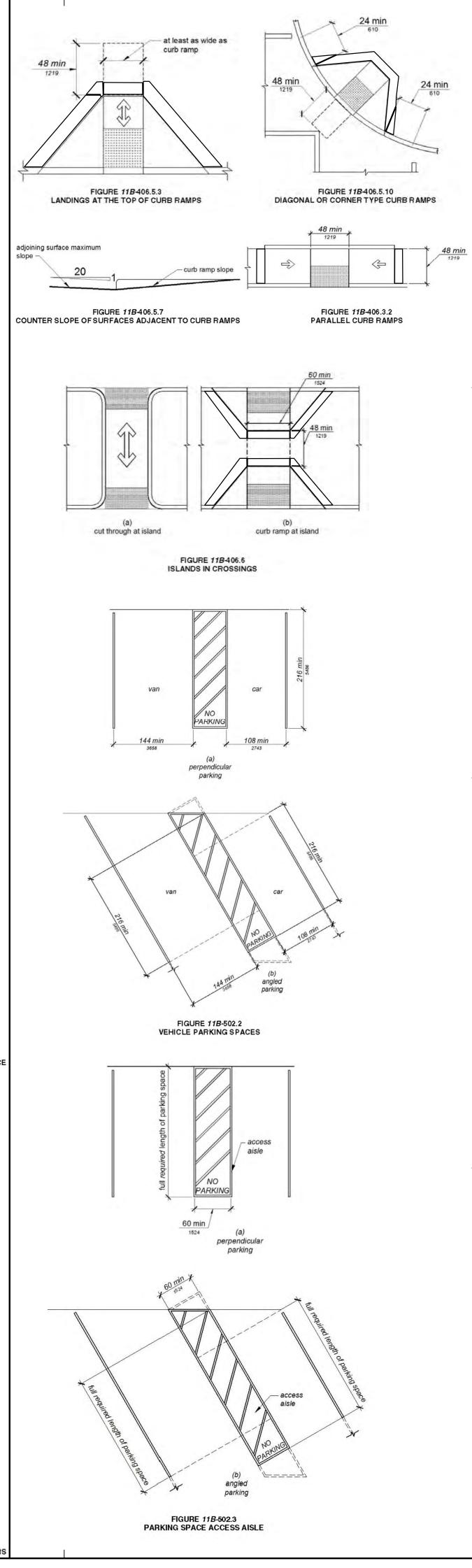
Grab Bar Height

Dispenser Height

FIGURE 11B-703.4.2 LOCATION OF TACTILE SIGNS AT DOORS











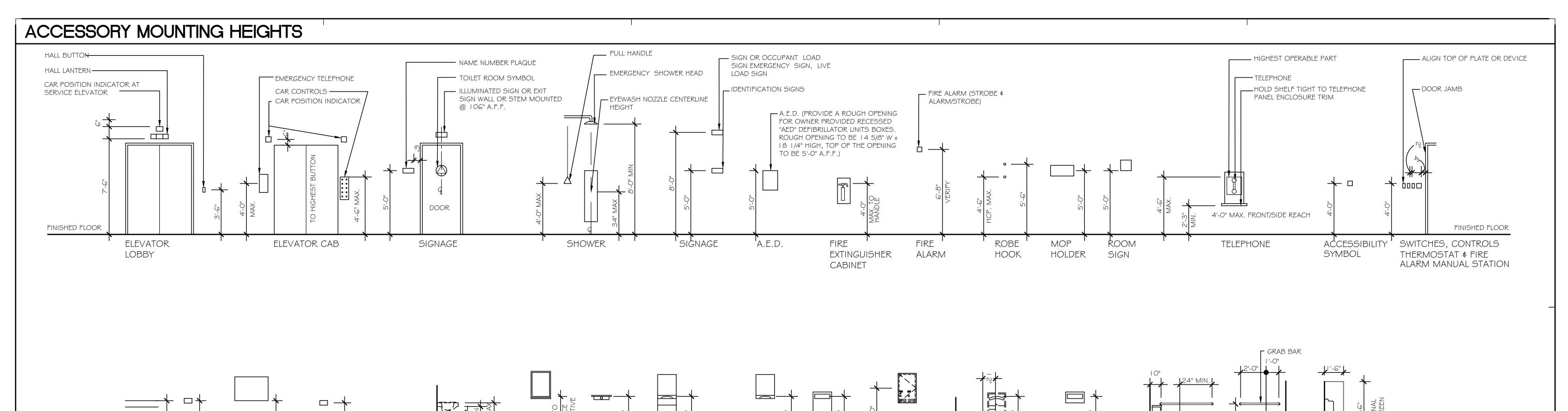
05-05-23 PLAN CHECK

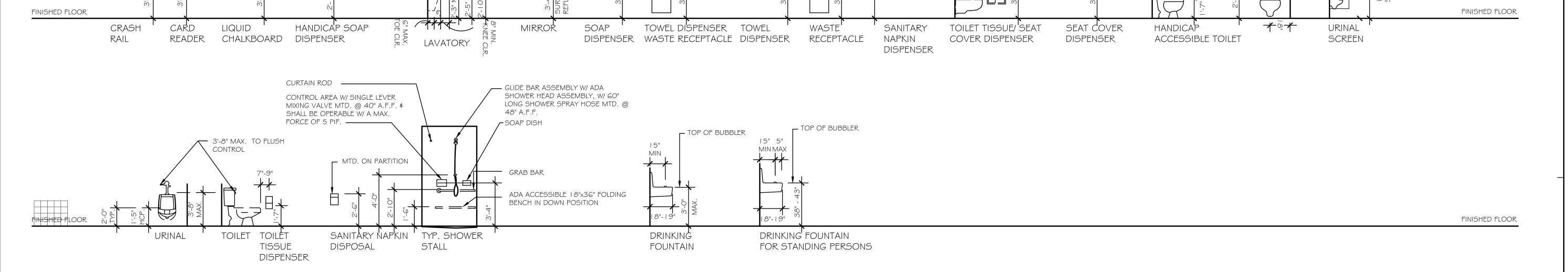
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PROJECT NO: 2022170

SHEET TITLE **ACCESSIBILITY** NOTES AND

DETAILS









O. 1-	30-23
RENEV	NAL DATE CALLED
5-05-23	PLAN CHECK

05-05-23 PLAN CHECK

9085-B AERO DRIVE

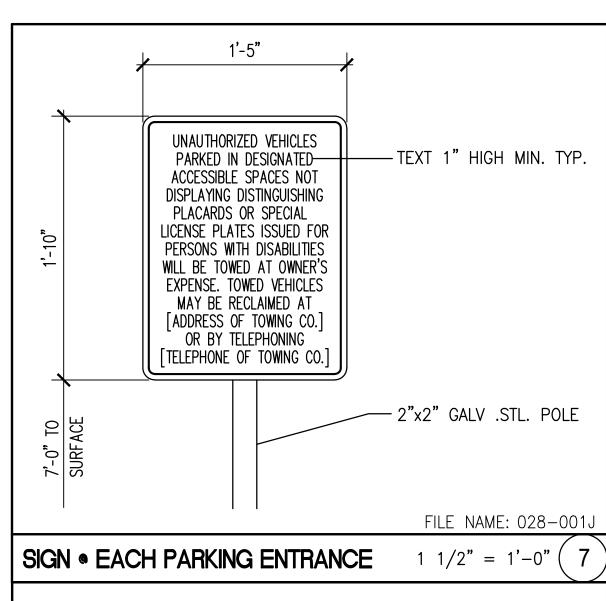
PROJECT NO: 2022170

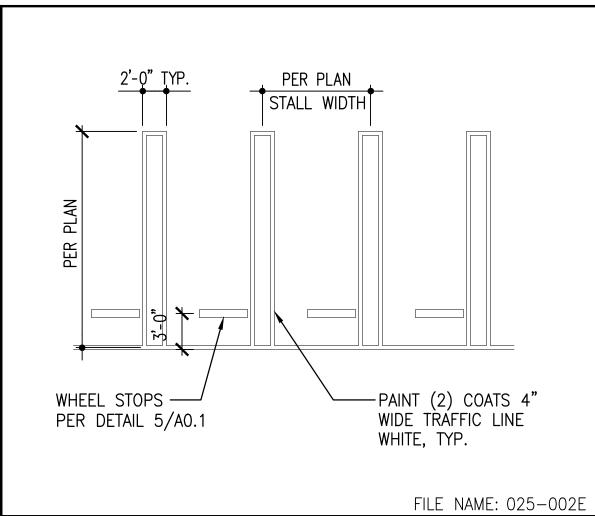
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ACCESSIBILITY MOUNTING HEIGHTS

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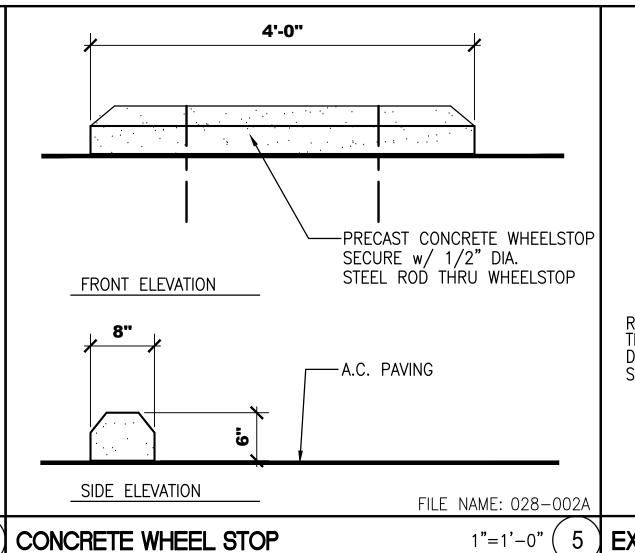
TS3

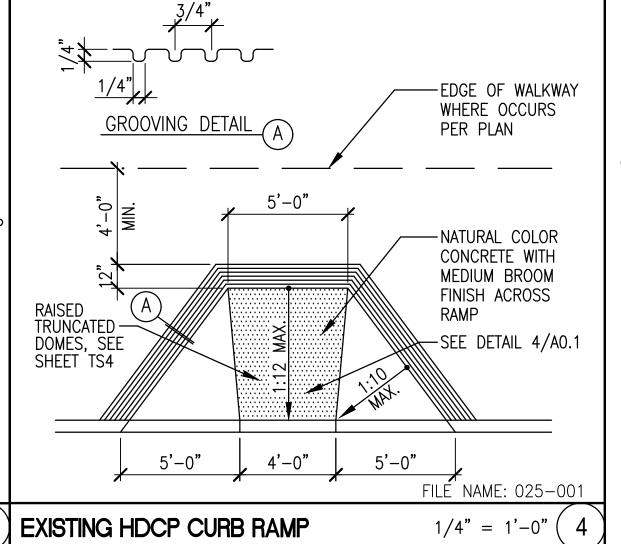




1/8"=1'-0"

**EXISTING PARKING STRIPING** 





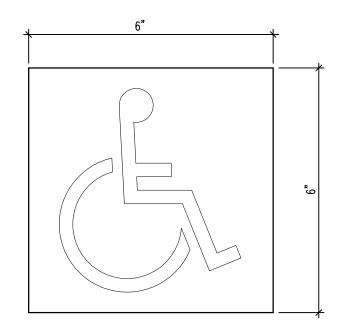
- 1 EXISTING DISABLED PERSON PARKING STALL (TYPICAL), SEE DETAIL 3/A0.1. DISABLED PARKING SERVING THE AREA OF BUILDING REMODEL MEETS CURRENT TITLE 24 ACCESS PROVISIONS. 2 HATCH INDICATES AREA OF TENANT IMPROVEMENT.
- 3 THE PRIMARY ENTRANCE SERVING THE AREA OF REMODEL MEETS CURRENT TITLE 24 ACCESS
- 4 EXISTING TRASH ENCLOSURE TO REMAIN.
  5 ACCESSIBLE ROUTE TO ACCESSIBLE ENTRY.

> EXISTING DETECTABLE WARNING DEVICE TO REMAIN

**ARCHITECTS** 5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835 www.schallarchitects.com

NOTES:

1. PATH OF TRAVEL NOT TO EXCEED 2% CROSS SLOPE



- 1. WHITE FIGURE ON A BLUE BACKGROUND.
- 2. BLUE BACKGROUND COLOR TO EQUAL COLOR #15090 IN FEDERAL STANDARD 595B

FILE NAME: SYMBOL

# INTERNATIONAL SYMBOL OF ACCESSIBILITY

THIS PROJECT SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF THE STATE PERMIT; CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (SDRWQCB), SAN DIEGO MUNICIPAL STORM WATER PERMIT, THE CITY OF SAN DIEGO LAND DEVELOPMENT CODE, AND THE STORM WATER STANDARDS MANUAL.

NOTES BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT & MUD ON ADJACENT STREET(S), DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY, AT THE END OF EACH WORKDAY, OR AFTER A STORM EVENT THAT CAUSES A BREECH IN INSTALLED CONSTRUCTION BMP'S WHICH MAY COMPROMISE STORM WATER QUALITY WITHIN ANY STREET(S). A STABILIZED CONSTRUCTION EXIT MY BE REQUIRED TO PREVENT CONSTRUCTION VEHICLES OR EQUIPMENT FROM TRACKING MUD OR SILT ONTO THE STREET.

2. ALL STOCK PILES OF SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE COVERED. ALL REMOVABLE BMP DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN 5 DAY RAIN FORECAST EXCEEDS 40%.

3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON

4. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVISES TO WORKING ORDER AFTER EACH RUN-OFF PRODUCING RAINFALL OR AFTER ANY MATERIAL BREACH IN EFFECTIVENESS.

5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.

5. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

UPDATED 09/09/15

# **BMP NOTES**

I AM THE OWNER/DESIGNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

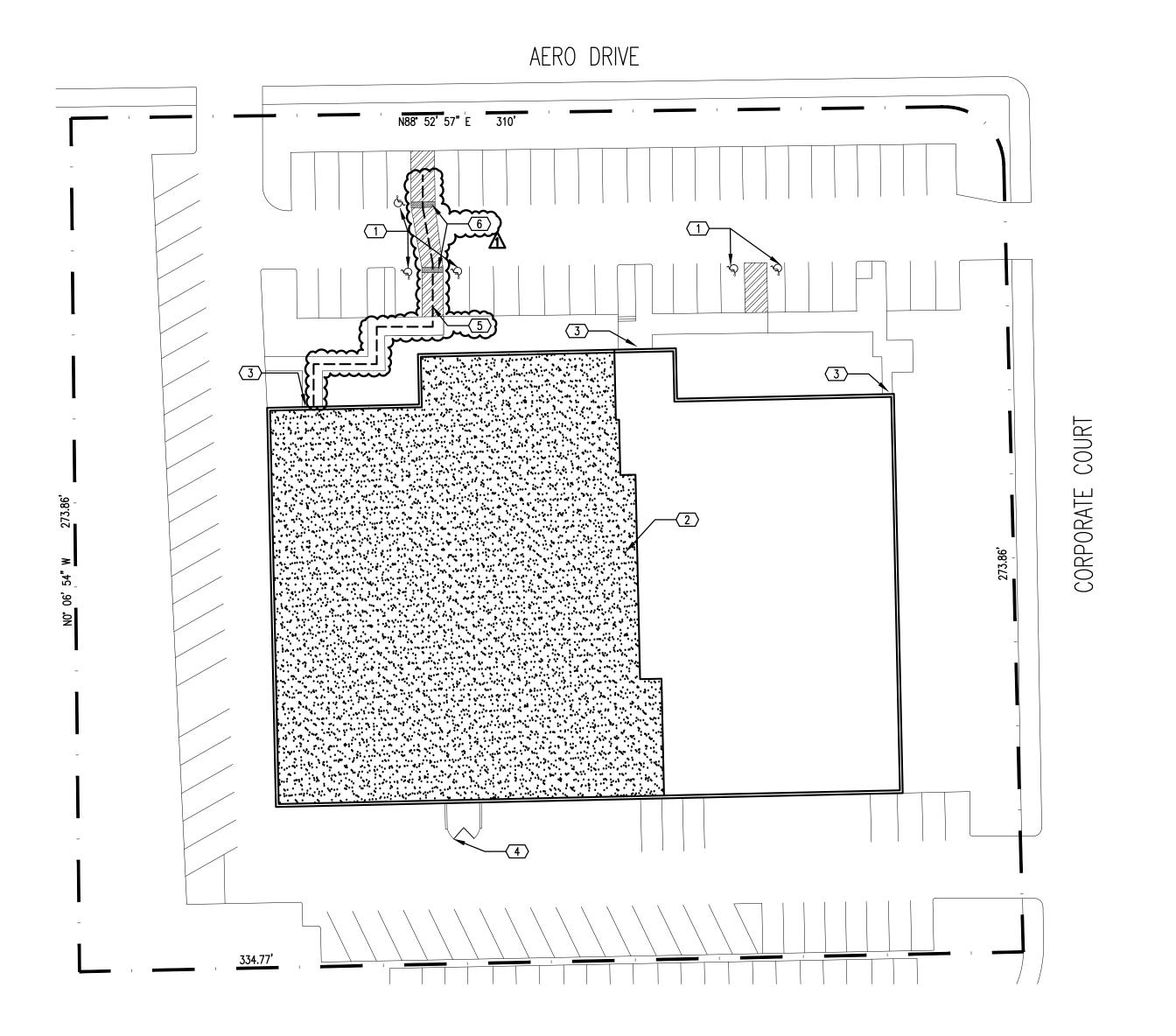
7844 (TREVIN SCHALL) MAY 05, 2023 DATE:

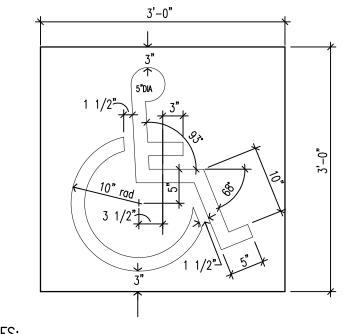
I AM THE OWNER/DESIGNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE RESTROOMS AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

(TREVIN SCHALL) MAY 05, 2022 DATE:

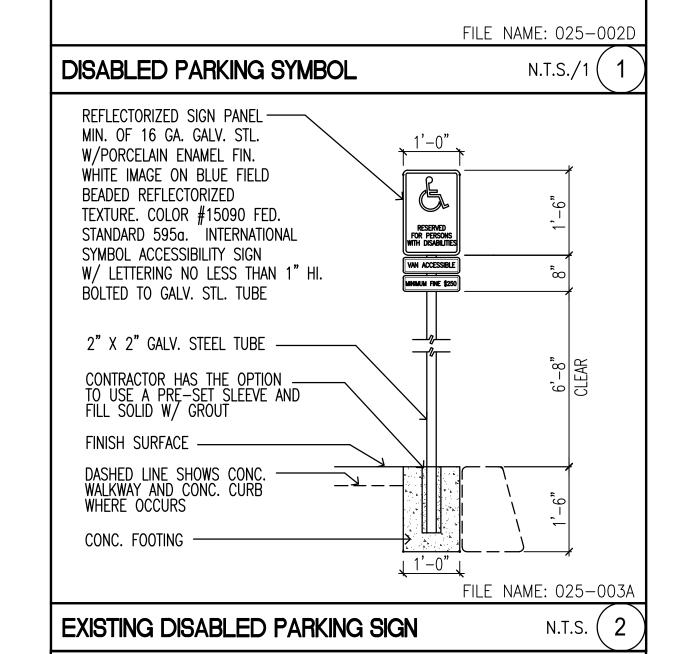
IF THE BUILDING INSPECTOR DETERMINES NONCOMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS HE/SHE SHALL REQUIRE COMPLETE, DETAILED PLANS CLEARLY SHOWING ALL EXISTING NON COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY PROVISIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.). THE PLANS MUST BE STAMPED BY THE FIELD INSPECTOR AND RESUBMITTED TO THE BUILDING DEVELOPMENT REVIEW DIVISION.

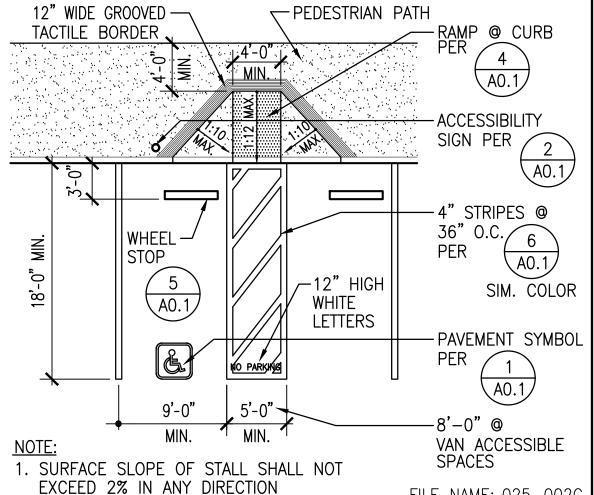
NO SITE WORK IS TO BE DONE TO EITHER THE SITE OR EXTERIOR OF THE BUILDING. DETAILS ON THIS PAGE ARE FOR REFERENCE





- 1. SYMBOL PAINTED HIGHWAY WHITE (TWO COATS).
- 2. BACKGROUND PAINTED BLUE OR EQUAL TO COLOR #15090 IN FED. STD. 595A.





TYPICAL H.C. PARKING STALL

SHEET NO:

FILE NAME: 025-0020

1/8" = 1'-0"

0 908

**SCHALL** 

05-05-23

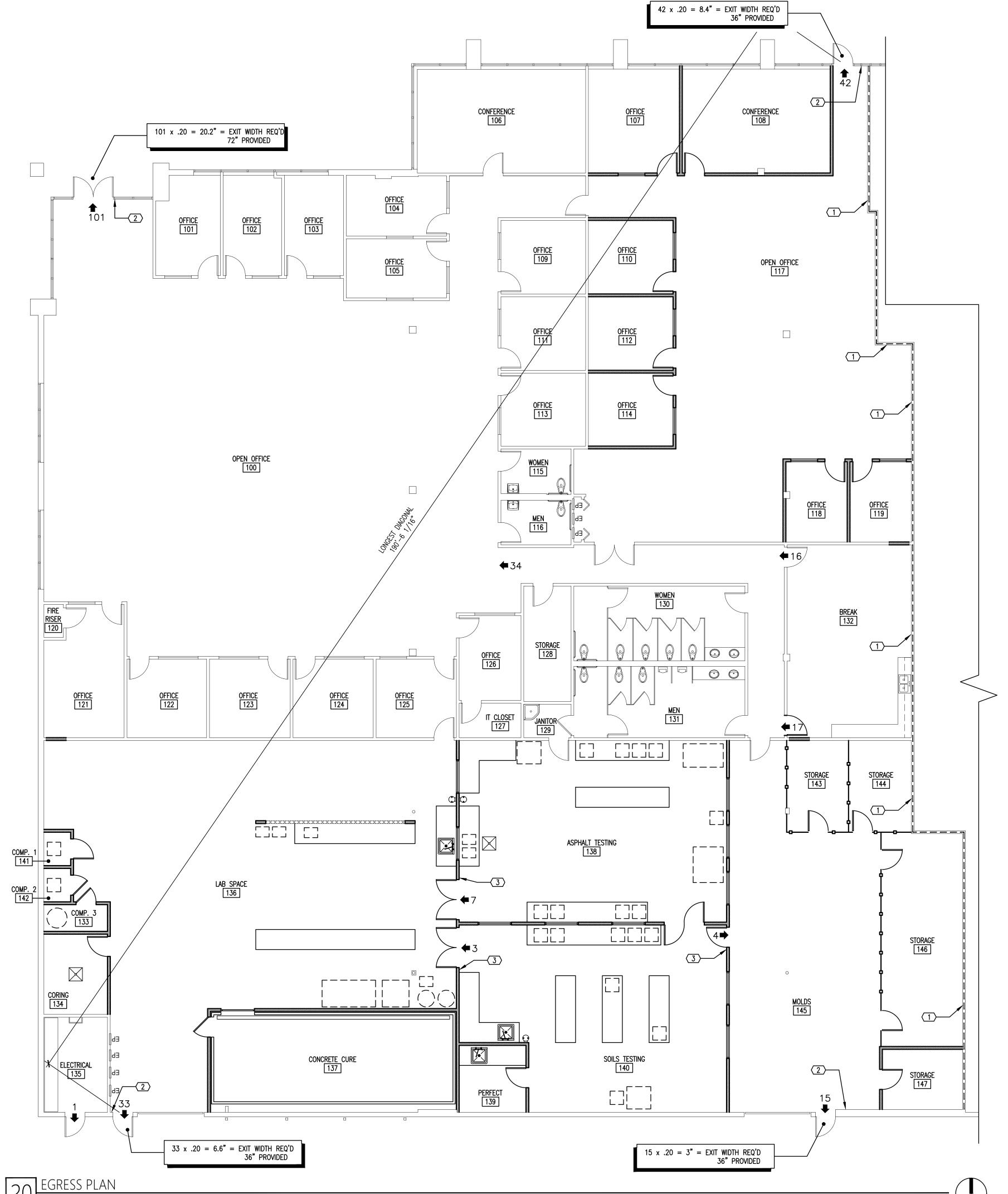
PLAN CHECK

7-31-23 PLAN CHECK

RE-SUBMITTAL (ADD001)

PROJECT NO: 2022170 SHEET TITLE

SITE PLAN AND DETAILS



KFV

- 1 EXISTING 1—HOUR RATED WALL TO REMAIN.
- TACTILE EXIT SIGN, "EXIT" CHARACTERS SHALL BE SANS SERIF UPPERCASE ACCOMPANIED BY GRADE 2 BRAILLE AND SIZED PER CBC 11B-703.
- TACTILE EXIT SIGN, "EXIT ROUTE" CHARACTERS SHALL BE SANS SERIF UPPERCASE ACCOMPANIED BY GRADE 2 BRAILLE AND SIZED PER CBC 11B-703.

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No. C-28473  No. C-28473

05-05-23 PLAN CHECK

ROOM#	ROOM NAME	ROOM AREA	OCC. LOAD	# OF OCC
100	OPEN OFFICE	3,786	150	26
100		137	150	
	OFFICE			1
102	OFFICE	131	150	1
103	OFFICE	133	150	1
104	OFFICE	134	150	1
105	OFFICE	133	150	1
106	CONFERENCE	390	15	26
107	OFFICE	211	150	2
108	CONFERENCE	343	15	23
109	OFFICE	139	150	1
110	OFFICE	139	150	1
111	OFFICE	139	150	1
112	OFFICE	139	150	1
113	OFFICE	138	150	1
114	OFFICE	138	150	1
115	WOMEN	71	N/A	0
116	MEN	70	N/A	0
117	OPEN OFFICE	1,747	150	12
118	OFFICE	110	150	1
119	OFFICE	110	150	1
120	FIRE RISER	14	N/A	0
121	OFFICE	221	150	2
122	OFFICE	140	150	1
123	OFFICE	142	150	1
124	OFFICE	141	150	1
125	OFFICE	141	150	1
		117		1
126	OFFICE		150	
127	IT CLOSET	48	300	1
128	STORAGE	122	300	1
129	JANITOR	35	300	1
130	WOMEN	274	N/A	0
131	MEN	257	N/A	0
132	BREAK	492	15	33
133	COMP. 3	38	200	1
134	CORING	114	150	1
135	ELECTRICAL	134	300	1
136	LAB SPACE	2,329	150	16
137	CONCRETE CURE	465	300	2
138	ASPHALT TEST	882	150	6
139	PERFECT	70	150	2
140	SOILS TESTING	812	150	5
141	COMP. 1	20	200	1
142	COMP. 2	20	200	1
143	STORAGE	119	300	1
144	STORAGE	124	300	1
145	MOLDS	1,048	200	6
146	STORAGE	382	300	2
147	STORAGE	108	300	1
	OCCUPIED AREA IN S.F.	17,147	TOTAL # OF OCCUPANTS	192
TO	TAL SUITE AREA IN S.F	19,678	2200.74110	<u> </u>
		2		

GENERAL NOTES:

19,678 S.F.

NORTH

EXIT DOOR WIDTH

PROVIDED: 4 DOORS

REQUIRED: 192 OCCUPANTS

TOTAL EXITS PROVIDED

1. AFTER THE BUILDING IS OCCUPIED, ANY CHANGE IN USE OR OCCUPANCY WHICH CAUSES AN INCREASE IN OCCUPANT LOAD SHALL COMPLY WITH ALL OF THE REQUIREMENTS FOR THE INCREASED LOAD.

192 x 0.2 EACH =

36"+36"+36"+ 72" =

38.4"

180"

2. TACTILE EXIT SIGNS (CBC SEC. 1011.4 & 11B703.1) SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:

FOLLOWING LOCATIONS:

A) EACH GRADE-LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT".

B) EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE—LEVEL EXTERIOR EXIT BY MEANS OF EXIT ENCLOSURES THAT DOES NOT UTILIZE A STAIR OR RAMP, OR BY MEANS OF AN EXIT PASSAGEWAY, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

C) EACH EXIT ACCESS FROM AN INTERIOR ROOM OR AREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

3. ALL EXTERIOR LIGHTING TO COMPLY WITH SAN DIEGO COUNTY LIGHTING ORDINANCE.

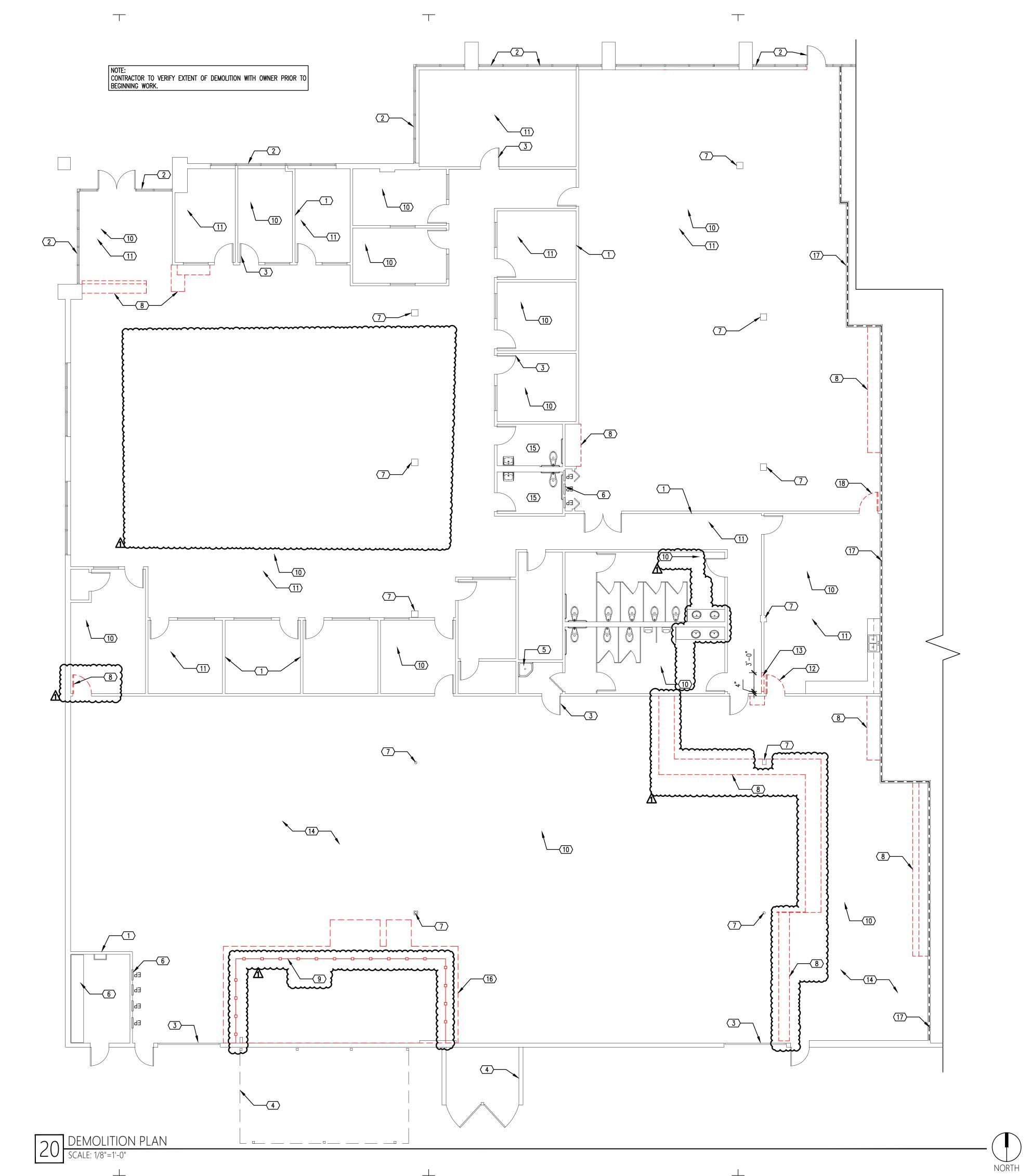
ATLAS 9085-B AERO SAN DIEGO, CALIFOR

PROJECT NO: 2022170

SHEET TITLE EGRESS PLAN

SHEET NO:

A1.1



**KEYNOTES:** 

1 EXISTING WALL TO REMAIN; TYPICAL.
2 EXISTING ALUMINUM STOREFRONT SYSTEM TO REMAIN; TYPICAL.
3 EXISTING DOOR TO REMAIN; TYPICAL.

4 EXISTING BOOK TO REMAIN; TYPICAL.

4 EXISTING EXTERIOR CANOPY AND TRASH ENCLOSURE TO REMAIN.

5 EXISTING MOP SINK TO REMAIN.

6 EXISTING ELECTRICAL TO REMAIN.

7 EXISTING COLUMN AND OR ENCLOSURE TO REMAIN.

8 DEMO EXISTING DOOR.

9 EXISTING CHAIN LINK FENCE TO REMOVED. REMOVE EXISTING FINISHES TO REMAIN.

11) EXISTING CEILING GRID, TILES, AND LIGHT FIXTURES TO REMAIN. TYPICAL.
12) REMOVE EXISTING DOOR. SALVAGE FOR REINSTALLATION PER PLAN.

13 REMOVE EXISTING WALL TO RECEIVE NEW DOOR PER DOOR SCHEDULE. 14 REMOVE EXISTING LOCKERS AND CHAIN LINKED CAGES IN WAREHOUSE AREA.

15 NOT USED. 16 DASHED LINE INDICATES EXISTING CONCRETE SLAB TO BE REMOVED. REFER TO STRUCTURAL

DRAWINGS FOR MORE INFORMATION.

(17) EXISTING 1—HOUR RATED WALL TO REMAIN.
(18) REMOVE EXISTING DOOR AND SALVAGE; TO BE REUSED.

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05-05-23 PLAN CHECK 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

PROJECT NO: 2022170

LISTED BELOW.

3001.1 Scope

Section 3002 Definitions 3002.1 Definitions

Section 3003 Location 3003.1 Ventilation

3003.4 Temperatures

Section 3004 Fuel Piping 3004.1 Fuel-Gas Piping

3004.2 Shutoff Valves

3004.2.1 Fuel Supply Lines

3004.3 Valve Position

Section 3005 Interlocks

Section 3006 Fire Protection

3006.2 Fixed Fire-Extinguishing Systems

Section 3007 Operation and Maintenance

3007.1 Furnace System Information

3006.1 Required Protection

3006.3 Fire Extinguishers

equipment.

3007.2 Oven Nameplate

The solvent used.

3007.3 Training

The required purge time.

3007.4 Equipment Maintenance

The oven operating temperature.

maximum operating temperature.

in place of the exhaust blower ratings.

the operation of ovens or furnaces.

3005.1 Shut Down

FURNACE CLASS A. FURNACE CLASS B. FURNACE CLASS C. FURNACE CLASS D.

CHAPTER 30 - INDUSTRIAL OVENS

"furnaces" are used interchangeably in this chapter.

The following terms are defined in Chapter 2:

flammable vapors or mists or combustible dusts.

combustible ceilings and floors from exceeding 160°F (71°C).

parallel with the fuel line when the valve is in the open position.

for other fuel sources shall comply with this section.

Permits shall be required as set forth in Sections 105.6 and 105.7.

Code, and with ventilation air in accordance with the California Mechanical Code.

building and injury to persons resulting from explosion shall be considered.

Industrial ovens and furnaces shall be located so as not to pose an ignition hazard to

Roofs and floors of ovens shall be insulated and ventilated to prevent temperatures at

accordance with the California Mechanical Code or the International Fuel Gas Code.

official concerning the necessary requirements for such protection.

An approved, clearly worded, and prominently displayed safety design data form or

The number of gallons (L) used per batch or per hour of solvent entering the oven.

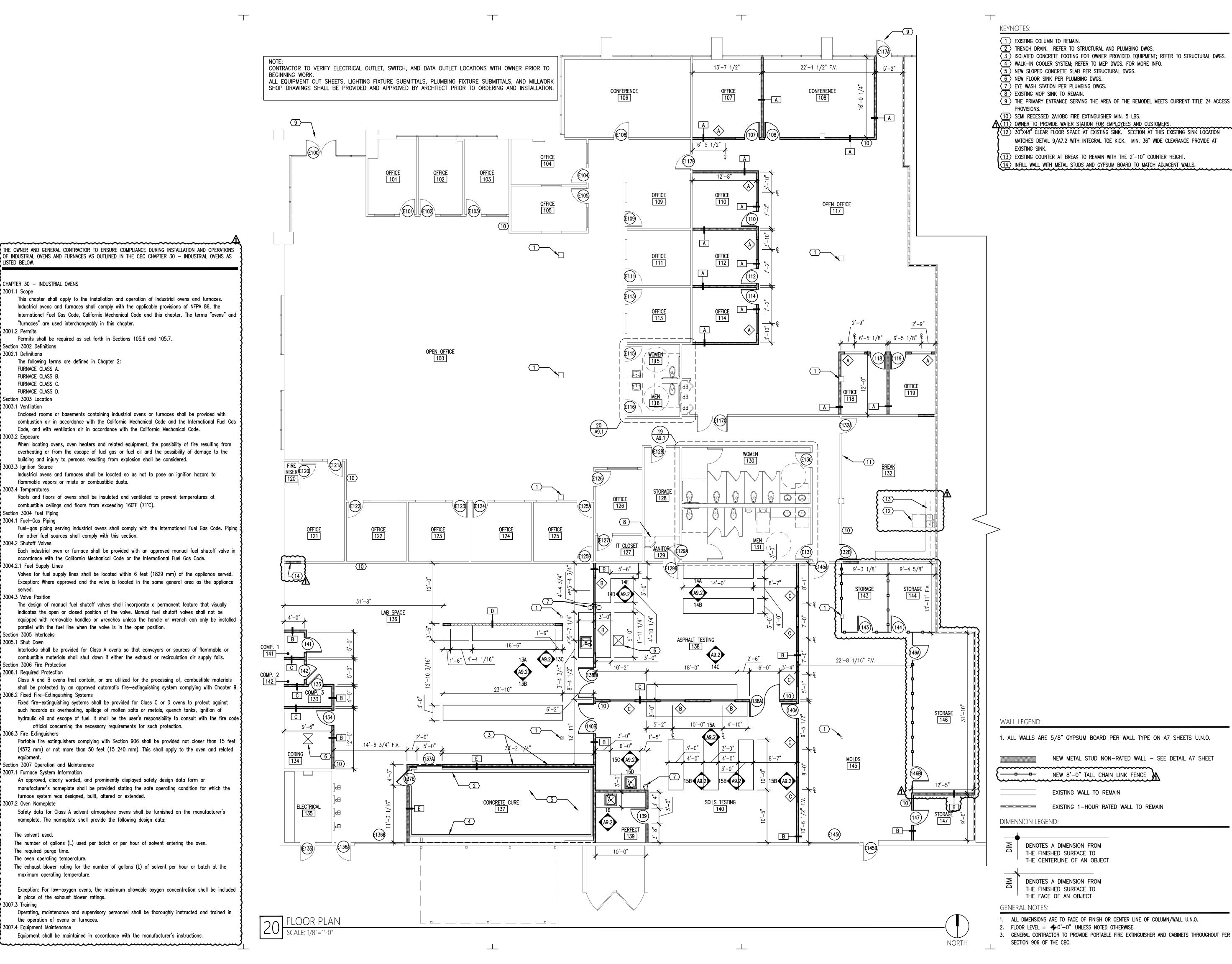
Equipment shall be maintained in accordance with the manufacturer's instructions.

furnace system was designed, built, altered or extended.

nameplate. The nameplate shall provide the following design data:

This chapter shall apply to the installation and operation of industrial ovens and furnaces.

Industrial ovens and furnaces shall comply with the applicable provisions of NFPA 86, the



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05-05-23 PLAN CHECK 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

908

PROJECT NO:

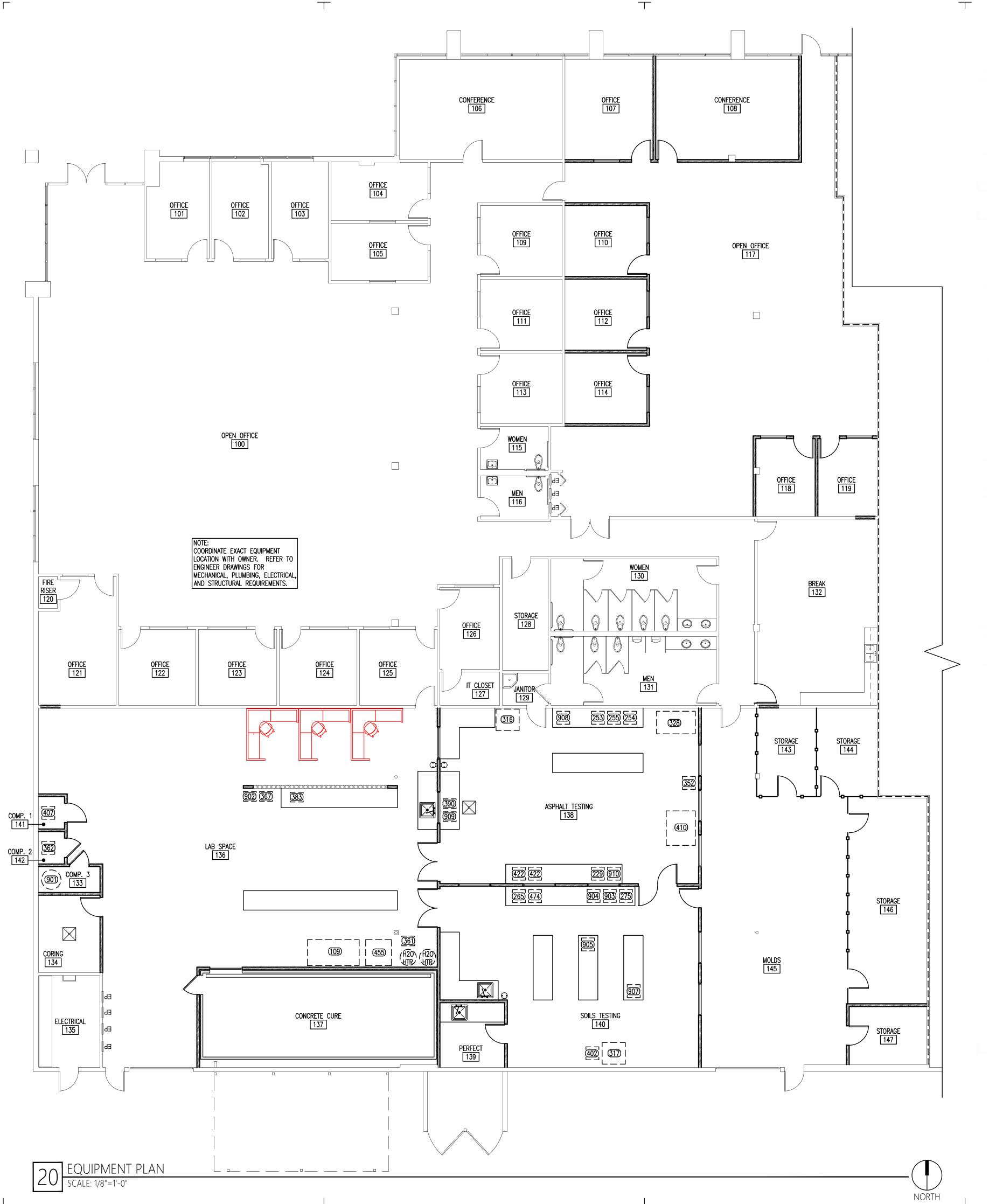
NEW METAL STUD NON-RATED WALL - SEE DETAIL A7 SHEET

NEW 8'-0" TALL CHAIN LINK FENCE

EXISTING WALL TO REMAIN

2022170

SHEET TITLE



Name	Model	Asset Identification Number	Location	Display Picture	Serial Number	Electrical Requirements	Ventilation Requirements	Footing Requirements	Other Requirement
COX & Sons Kneading Compactor	CS 1000-B	₹ 316	San Diego Offic	717	006-86	240v, 30A	No	No	43"L x 40"W x 78"h
COX & Sons Kneading Compactor	C\$ 1000-B	<b>₹</b> 317	San Diego Office	THE		240v, 30A	No	No -	43"L x 40"w x 78"h
HUMBOLDT Pneumatic Direct Shear	HM-2560A.3F	265)	San Diego Offici	. 🔄	1302335	120v, 20A	No	No	Pneumatic
HUMBOLDT Conmatic IPC	HM-2470A.3F	(474)	San Diego Offici		1210509	120v. 20A	No	No -	Pneumatic
Quincy Lab Oven	40GC	275)	San Diego Offici		G4-003732	115V, 15A	No	No	
Test Mark Compaction Machine	CM-9060-DBR	<b>♦</b> 402	San Diego Office		25804	115V, 15A	No	Anchored to slab	
HUMBOLDT Master Loadet	HM-3000.3F	422	San Diego Office		506289	115V, 15A	No -	No	
HUMBOLDT Master Loader	HM-3000.3F	422	San Diego Office		1357389	115V, 15A	No	No	
Test Mark Compaction Machine	CM-400P-SD	<b>109</b>	San Diego Offic		30305	115V, 15A	No	Anchored to slab	
FORNEY Rebar & Compression Machine	LT-900	455)	San Diego Office	e Ta	65140	240V, 30A	No	Yes, 4Lx4Wx3D	97" fa l
Gilson Agitator	SS-18	229	San Diego Office		D-584	115V,20A	No -	Anchored to Bench/Table	

Supremeequip U.S.A. Rebar Bender	RB-32	<b>√</b> (361)	San Diego Office	PENDING:	110V, 20A	No	No	
Quincy Lab Oven	21-350	<b>₹</b> 367	San Diego Office	B23ERS-00225	120v. 20A	No	No	
NCAT Asphalt Content Furnace	F85930-30	<b>√</b> 254	San Diego Office	-1.27505E+12	240V, 30A	Yes	No	Exhaust vent Not to exceed 10', minimur 3" I.D. seamless stee tubing.
NCAT Asphalt Content Furnace	F85930-30	<b>255</b>	San Diego Office		240V, 30A	Yes	No :	Exhaust vent Not to exceed 10', minimur 3" I.D. seamless stee tubing.
Quincy Lab Oven	31-350S	₹ 353	San Diego Office		115V, 20A	No	No	
Grieve Lab Oven	SA-350	<b>√</b> 328	San Diego Office	610194	230V, 20A	Yes	No	76"∟x 41"w x 75"h,
Pine Gyratory Compactor	AFG2AS	₹ 352	San Diego Office	8254	115V, 12A	No	No	
Gilson Testing Screen	TS-1	<b>√</b> 407	San Diego Office	13881	120v. 20A	No	Anchored to slab	
TROXLER Hamburg Wheel Tracker	PMV Wheel Tracker	<b>410</b>	San Diego Office	67548	240V, 60A	No	Anchored to slab	Pneumatic, 64"L x 54"w x 85"h, requires water inpu and a drain.
LA Rattler	B0890-EX1910	<b>√</b> 362	San Diego Office	H-73-3994A-18	220V, 20A	No	Anchored to slab	
Air Compressor	Grainger \$\$3L3	901)	San Diego Office	CBV805873	240V, 20A		Anchored to concrete	80 Gallon

Proctor Machine	Compactor M100-2	<b>902</b>	San Diego Office	1243	120v, 20A	Να	Anchored to concrete	
Tri-Flex 2 Master Control Panel	25-0696/02	903		Н130701		No	No	
ri-Flex 2 Aux Tary Control Panel	25-0699	904)		H121202		No	No	
Scale	AS3102	905	San Diego Office	8026171047	120v, 20A	No.	No:	
Scale	AX8201/E	<b>✓</b> 906	San Diego Office	B842616678	120v, 20A	No.	-: No.	
Water Bath	97014-16	907	San Diego Office		120v, 20A	No	No	) - 1
Scale	GP-20K	485	San Diego Office	14711937	120v, 20A	No	No.	
Scale	Explorer E0F110	908	San Diego Office	F1731120192267	120v, 20A	No	No	
Specfic Gravity tank	SGA-122	<b>909</b>	San Diego Office	-		No	Needs a base stand	connected to drain
Scale.	EP12001	<b>₹</b> 390	San Diego Office	112715026	120v, 20A	No	No:	
Soils Microwave	EM925AJW-P1	910	San Diego Office	EB0236858101690611101	120v, 20A	No	. No	
Scale	HW-60KGL	383	San Diego Office	M7307199	120v, 20A	No	No:	

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05-05-23 PLAN CHECK

DRIVE

ATLAS
9085-B AERO DR

PROJECT NO: 2022170

SHEET TITLE

PLAN

SHEET NO:

A2.2

- 1 NEW EXIT SIGN PER LIGHTING SCHEDULE; REFER TO ELECTRICAL FOR MORE INFO.
- 2 EXISTING STRUCTURAL COLUMN TO REMAIN.
- 3 CEILING SYSTEM OF WALK-IN UNIT PER MANUFACTURER.
- 4 EXISTING STRUCTURE ABOVE TO REMAIN.
- 5 EXISTING FIXTURE TO BE REMOVED AND REUSED.

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05-05-23 PLAN CHECK 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

SYMBOL LEGEND: EXISTING LIGHTING FIXTURE PER ELECTRICAL

2'X4' LIGHT 1'X4' LIGHT

NEW LIGHTING FIXTURE PER ELECTRICAL

6" CAN LIGHT EXIT LIGHT 2'X4' LIGHT 4' LIGHT BY WALK-IN 4'LIGHT PER MANUFACTURER

NEW DIFFUSERS PER MECHANICAL AIR SUPPLY AIR RETURN EXHAUST EXISTING DIFFUSERS PER MECHANICAL AIR SUPPLY AIR RETURN EXHAUST

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**GENERAL NOTES:** 

NORTH

+9'-0" FINISH ELEVATION ABOVE FINISH FLOOR (A.F.F.), U.N.O.

- 1. WALL & CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC.
- 2. SEE DETAILS ON A7.2 FOR SUSPENDED CEILING INSTALLATION DETAILS.
- 3. SUSPENDED CEILING GRIDS TO BE CENTERED IN SPACE (BOTH DIRECTIONS) U.N.O.
- 4. SUSPENDED CEILINGS SHALL COMPLY WITH ASTM C 635 & ASTM C 636 SEE CEILING DETAILS ON A7.2.
- 5. SUSPENDED CEILINGS SYSTEM DETAILS AND CONNECTION DETAILS ARE PER ASCE 7-10, SECTION 13.5.6 AND CISCA 3-4 FOR SEISMIC DESIGN CATEGORY "E".
- 6. FOR SUSPENDED CEILINGS A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED IN SEISMIC DESIGN CATEGORIES D THROUGH F (ASCE SEC. 13.5.6.2.2) - SEE CEILING DETAILS ON A7.2.
- 7. EXISTING LIGHTS SHALL BE RELOCATED TO ACCOMMODATE NEW WALLS AS REQUIRED.
- 8. THE MEANS OF EGRESS, INCLUDING EXIT DISCHARGE, WILL BE ILLUMINATED TO A LEVEL NOT LESS THAN ONE FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED. )CBC SEC. 1006.1 AND 1006.2)
- 9. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES, (CBC 1013)
- 10. MECHANICAL CONTRACTOR IS TO FIELD VERIFY EXISTING HVAC SYSTEM AND REWORK AS NECESSARY FOR NEW LAYOUT AND EXISTING HVAC UNIT LOCATIONS ARE TO BE
- 11. LIGHT FIXTURES, EXIT SIGNS, SPRINKLERS AND OTHER CEILING ELEMENTS ARE TO BE CENTERED IN CEILING TILE, UNLESS NOTED OTHERWISE.
- 12. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN LIGHT FIXTURE LOCATIONS, MAIN RUNNERS, DUCTS, BUILDING STRUCTURE, ETC.
- 13. PROVIDE CEILING ACCESS AS REQUIRED FOR ACCESS TO EQUIPMENT FOR SYSTEM MAINTENANCE IN SUSPENDED AND GYPSUM BOARD CEILINGS. IDENTIFY ACCESS TILES OR PANELS WITH PLASTIC HEAD MAP TACKS (COLOR WHITE).
- 14. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLERS AND OTHER CEILING PENETRATIONS REQUIRE MIN. 2" RINGS, SLEEVES OR ADAPTERS THAT WILL ALLOW A MIN. 1" CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, SWING JOINT CAN BE PROVIDED AT THE TOP OF THE SPRINKLER DROP TO ACCOMMODATE THE 1" MOVEMENT. ASCE 7, SEC. 13.5.6.2.2

0 908

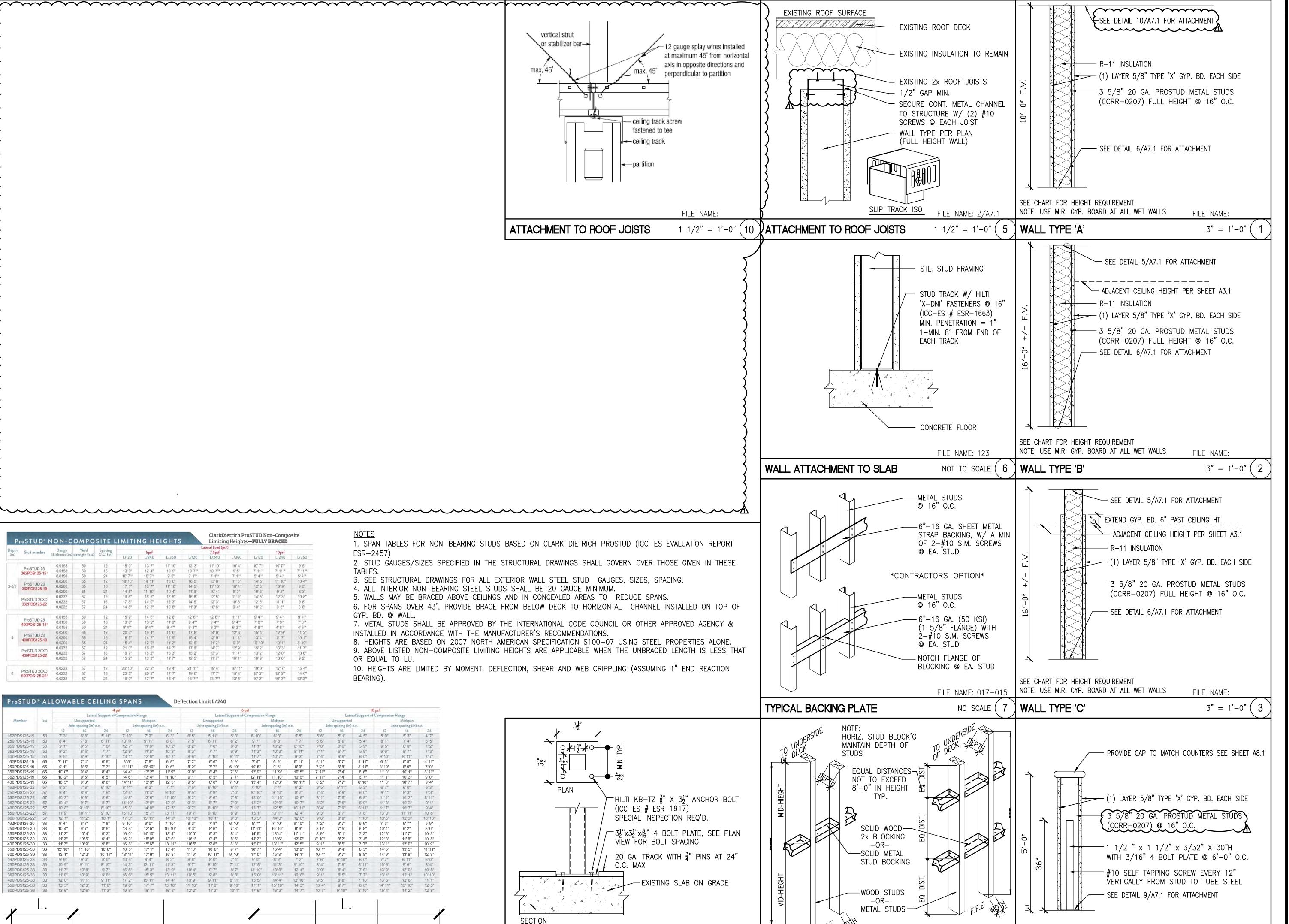
PROJECT NO: 2022170

SHEET TITLE

CEILING PLAN

DOUBLE SPAN

TRIPLE SPAN



FILE NAME: 123

NOT TO SCALE (9

LOW WALL ATTACHMENT TO SLAB

FILE NAME: 017-015A

NO SCALE (

(8) WALL TYPE 'D'

TYPICAL STUD WALL FIRE BLOCKING

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05-05-23 PLAN CHECK 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

0 806

PROJECT NO: 2022170

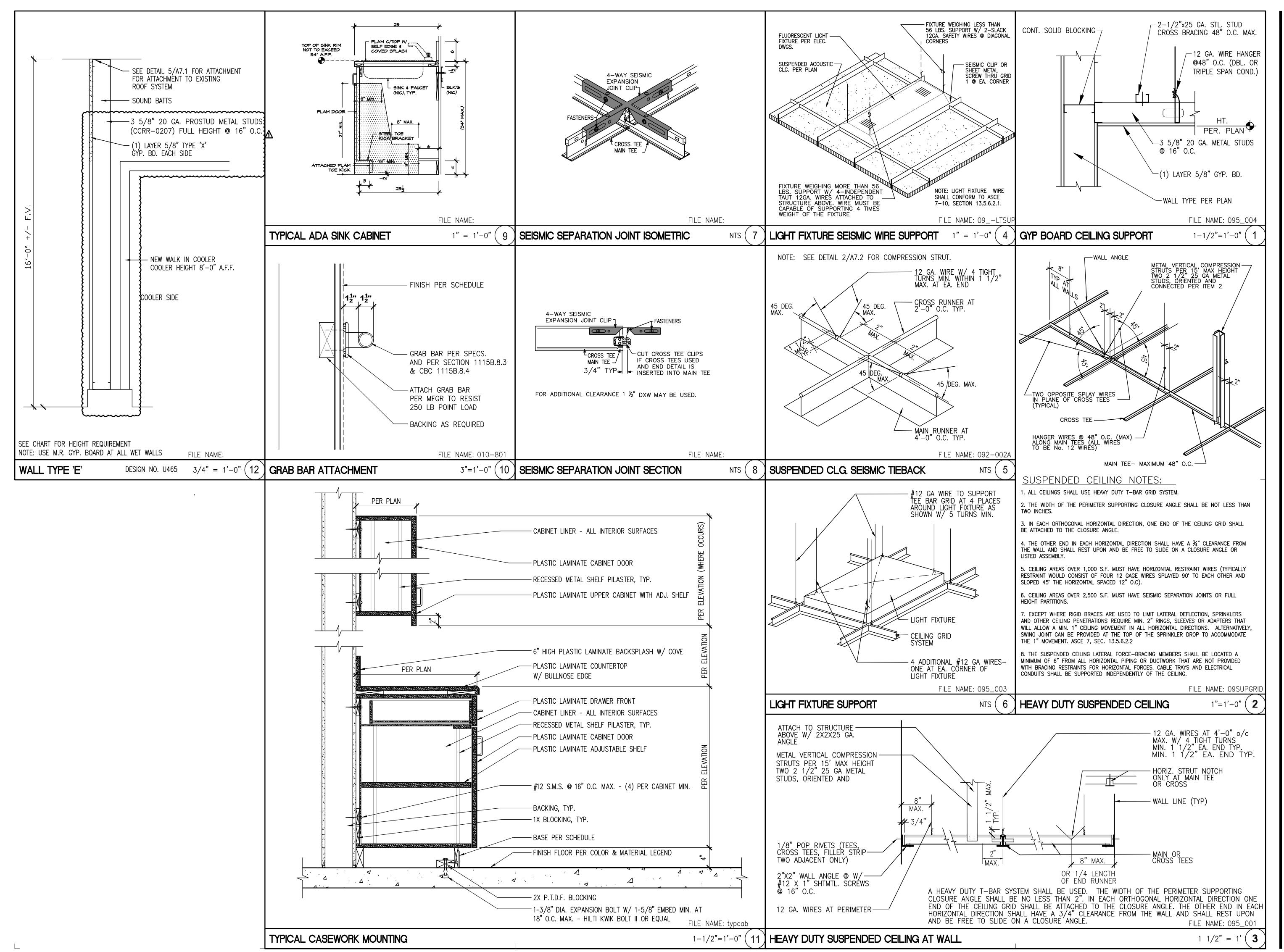
SHEET TITLE

DETAILS

SHEET NO:

FILE NAME:

3" = 1'-0" (4)







05-05-23 PLAN CHECK
7-31-23 PLAN CHECK
RE-SUBMITTAL (ADD001)

9085-B AERO
AN DIEGO, CALIFOR

PROJECT NO: 2022170

SHEET TITLE

DETAILS

SHEET NO:

A7.2

FINISH LEGEND:

PAINT - FLAME SPREAD RATING: CLASS A (0-25) OVER NON-COMBUSTIBLE SURFACES.

- ALL PAINT LOCATIONS: TREE COAT SYSTEM 1-PRIMER COAT, 2-PAINT COATS PER FINISH SCHEDULE.
- ALL EXISTING WALLS TO BE PATCHED AND SANDED SMOOTH PRIOR TO PAINTING.
- P-1) FIELD COLOR TBD
- FLOOR MATERIAL:
- F-1) CERAMIC TILE TBD
- F-2 COMMERCIAL GRADE DIRECT GLUE CARPET. 7 F-3 SHEET VINYL FLOORING – TBD
- F-4) FLOAT DAMAGED AREAS OF EXISTING FLOOR WITH CONCRETE PATCH AND INSTALL VCT TO MATCH
- F-5 EXISTING FINISH TO REMAIN.

#### WALL BASE:

- B-1) CERAMIC BASE TO MATCH F-1
- B-2 4" RUBBER BASE TBD
- B-3 INTEGRAL COVED BASE SHEET VINYL TO MATCH F-3
- CEILING:

  AT—) EXISTING 2X4 GRID TO REMAIN; PAINT; REPLACE WITH NEW 2X4 CEILING TILE.
- AT-2) 2X4 CEILING GRID AND TILE (ARMSTRON ESR-1308); PROVIDE R-30 INSULATION WITH VINYL SCRIM AT ROOF STRUCTURE ABOVE.
- SCRIM AT ROOF STRUCTURE ABOVE.

  GYP) EXISTING GYPSUM CEILING TO REMAIN; REPAIR ANY DAMAGE; SAND, PRIME, AND PAINT.
- GYPSUM (HARD-LID) CEILING; SAND, PRIME, AND PAINT. PROVIDE R-30 INSULATION WITH VINYL SCRIM AT ROOF ABOVE.
- OTS OPEN TO STRUCTURE ABOVE. PROVIDE R-30 INSULATION WITH VINYL SCRIM AT ROOF ABOVE.

#### WAINSCOT:

- W-1) FULL HEIGHT FRP WAINSCOT (ALL WALLS WITHIN ROOM) TBD
- W-2 4'-0" HIGH FRP WAINSCOT (ALL WALLS WITHIN ROOM) TBD

#### CASEWORK:

- (CABINETS) TBD
- SS—) SOLID SURFACE (COUNTERTOPS) —TBD
  SS—) SOLID SURFACE (RECEPTION COUNTER) TBD

# T (ALL WALLS WITHIN ROOM) — TBD

# 05-05-23 PLAN CHECK 7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)

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RE-SUBMITTAL (ADDUUT

# 9085-B AERO DRIVE

PROJECT NO: 2022170

SHEET TITLE

PLAN

SHEET NO:

A8.1

INTERIOR FINISH NOTES:

ALL INTERIOR FINISHES MUST COMPLY WITH CHAPTER 8 OF THE CBC:

1. DECORATIVE MATERIALS AND TRIM INSTALLED IN BUILDINGS GOVERNED BY THE SFM SHALL COMPLY

WITH THE PROVISIONS OF CBC 806.

2. INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH CBC 804.2 THROUGH 804.4.1.

FOAM PLASTICS SHALL NOT BE AS INTERIOR FINISH EXCEPT AS PROVIDED IN CBC SECTIONS 2603.9 OR 2604. (CBC 801.2.2).
 TOILET AND BATHING ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE

SUCH AS PORTLAND CEMENT, CERAMIC TILE OR OTHER APPROVED MATERIAL THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6" (CBC 1210.0).

5. WALLS WITHIN 2' OF THE FRONT AND SIDES OF URNIALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CERAMIC TILE OR OTHER

SMOOTH, HARD, NONABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CERAMIC TILE OR OTHER APPROVED MATERIAL SURFACE TO A HEIGHT OF 4', AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (CBC 1210.2).

ALL FINISHES TO COMPLY DIVISION 5 OF THE CALIFORNIA BUILDING STANDARDS CODE.
 ALL FINISHES TO COMPLY WITH THE VOC LIMITS PROVIDED IN THE CALIFORNIA BUILDING STANDARDS CODE TABLES 5.504.4.1, 5.504.4.2, AND 5.504.4.3.

8. WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE INTERIOR FINISH CLASSIFICATIONS IN CBC TABLE 803.9 AND SHALL MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA OF THE CA. CODE OR REGULATIONS, TITLE 19, DIVISION 1. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHALL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE AHJ.

GENERAL NOTES:

 CONTRACTOR TO PROVIDE OWNER SAMPLES OF ALL MATERIALS FOR APPROVAL PRIOR TO ORDERING AND INSTALLING.
 CHANGE IN MATERIALS TO OCCUR AT CENTERLINE OF DOOR WHEN IN CLOSED POSITION.

RESTROOM 130 ELEVATIONS

RESTROOM 115 AND 116 ENLARGED PLAN

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05-05-23 PLAN CHECK
7-31-23 PLAN CHECK
RE-SUBMITTAL (ADD001)

DENOTES A DIMENSION FROM THE FINISHED SURFACE TO THE FACE OF AN OBJECT

DENOTES A DIMENSION FROM THE FINISHED SURFACE TO THE CENTERLINE OF AN OBJECT

EXISTING 6 LONG GRAB BAR; TOP OF GRAB BAR 2'-9" A.F.F.

EXISTING MIRROR - 18"X36" MOUNTED 3'-4" A.F.F. TO REFLECTED SURFACE.

EXISTING WALL HUNG LAVATORY; TOP OF LAVATORY TO BE AT 2'-10" A.F.F. MAX.

12 NEW SURFACE MOUNTED SEAT COVER DISPENSER; AT ACCESSIBLE TOILET, MOUNT AT

2'-6" A.F.F.

(13) EXISTING PAPER TOWEL DISPENSER MOUNTED AT 3'-4" A.F.F.

(14) KNEE AND TOE CLEAR SPACE PER 11B-306. WRAP HOT AND COLD WATER PIPES.

(15) MOISTURE RESISTANT GYPSUM BOARD; TAPE, SAND, AND PAINT PER FINISH LEGEND.

(18) EXISTING RIM SET LAVATORY; TOP OF LAVATORY TO BE AT 2'-10" A.F.F. MAX.

(21) 30"X48" CLEAR SPACE AT URINAL. HAND OPERATED FLUSH CONTROL SHALL BE

TOILET PAPER DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT

WHERE A TANK-TYPE TOILET IS USED WHICH OBSTRUCTS PLACEMENT OF THE REAR GRAB BAR AT 33", THE REAR GRAB BAR ONLY MAY BE INSTALLED AS HIGH

4. THE FORCE REQUIRED TO ACTIVATE THE WATER CLOSET, MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 LBF.

ALL CASEWORK SHOP DRAWINGS SHALL BE APPROVED BY OWNER AS WELL AS SIGNED AND STAMPED BY ARCHITECT BEFORE BEGINNING PRODUCTION.
 SEE DETAIL 11/A7.2 FOR TYPICAL DETAIL OF BASE AND UPPER CABINETS.

(16) 4'-0" HIGH WAINSCOT, TYPICAL AT RESTROOM; PER FINISH LEGEND.

8 EXISTING FLOOR MOUNTED TOILET.

(17) WALL BASE PER FINISH PLAN.

GENERAL RESTROOM NOTES:

GENERAL MILLWORK NOTES:

DIMENSION LEGEND:

AS 36".

19 EXISTING TOILET PARTITION TO REMAIN.
20 EXISTING COUNTERTOP TO REMAIN.

MOUNTED AT A MAXIMUM HEIGHT OF 44" A.F.F.

CONTINUOUS PAPER FLOW SHALL NOT BE USED.
2. SEE TS3 FOR MOUNTING HEIGHT DIAGRAMS.

10 > EXISTING SURFACE MOUNTED SOAP DISPENSER.

 $\neg$ 

9085-B AERO DRIVI

PROJECT NO: 2022170

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NO:

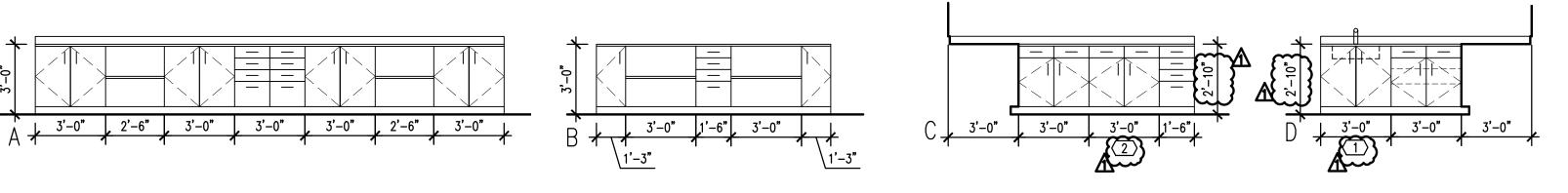
A9.1

1 SEE DETAIL 9/A7.2 FOR ADA COMPLIANCE AT BASE CABINET WITH HAND SINK. PROVIDE 48"X30" CLEAR FLOOR SPACE IN FRONT OF SINK.

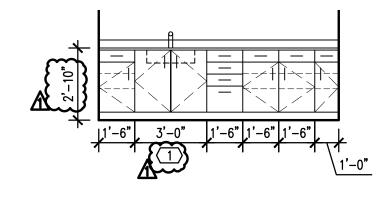
2 DETAIL AT THIS LOCATION TO BE SIMILAR TO 9/A7.2.

LAB SPACE 136 ELEVATIONS
SCALE: 1/4"=1'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 1'-5" 3'-0" 1'-6"

14 ASPHALT TESTING 138 ELEVATIONS SCALE: 1/4"=1'-0"



SOILS TESTING 140 ELEVATIONS



GENERAL MILLWORK NOTES:

 ALL CASEWORK SHOP DRAWINGS SHALL BE APPROVED BY OWNER AS WELL AS SIGNED AND STAMPED BY ARCHITECT BEFORE BEGINNING PRODUCTION. 2. SEE DETAIL 11/A7.2 FOR TYPICAL DETAIL OF BASE AND UPPER CABINETS.

DIMENSION LEGEND:

DENOTES A DIMENSION FROM
THE FINISHED SURFACE TO
THE CENTERLINE OF AN OBJECT

DENOTES A DIMENSION FROM THE FINISHED SURFACE TO THE FACE OF AN OBJECT

PROJECT NO: 2022170

SHEET TITLE

INTERIOR ELEVATIONS

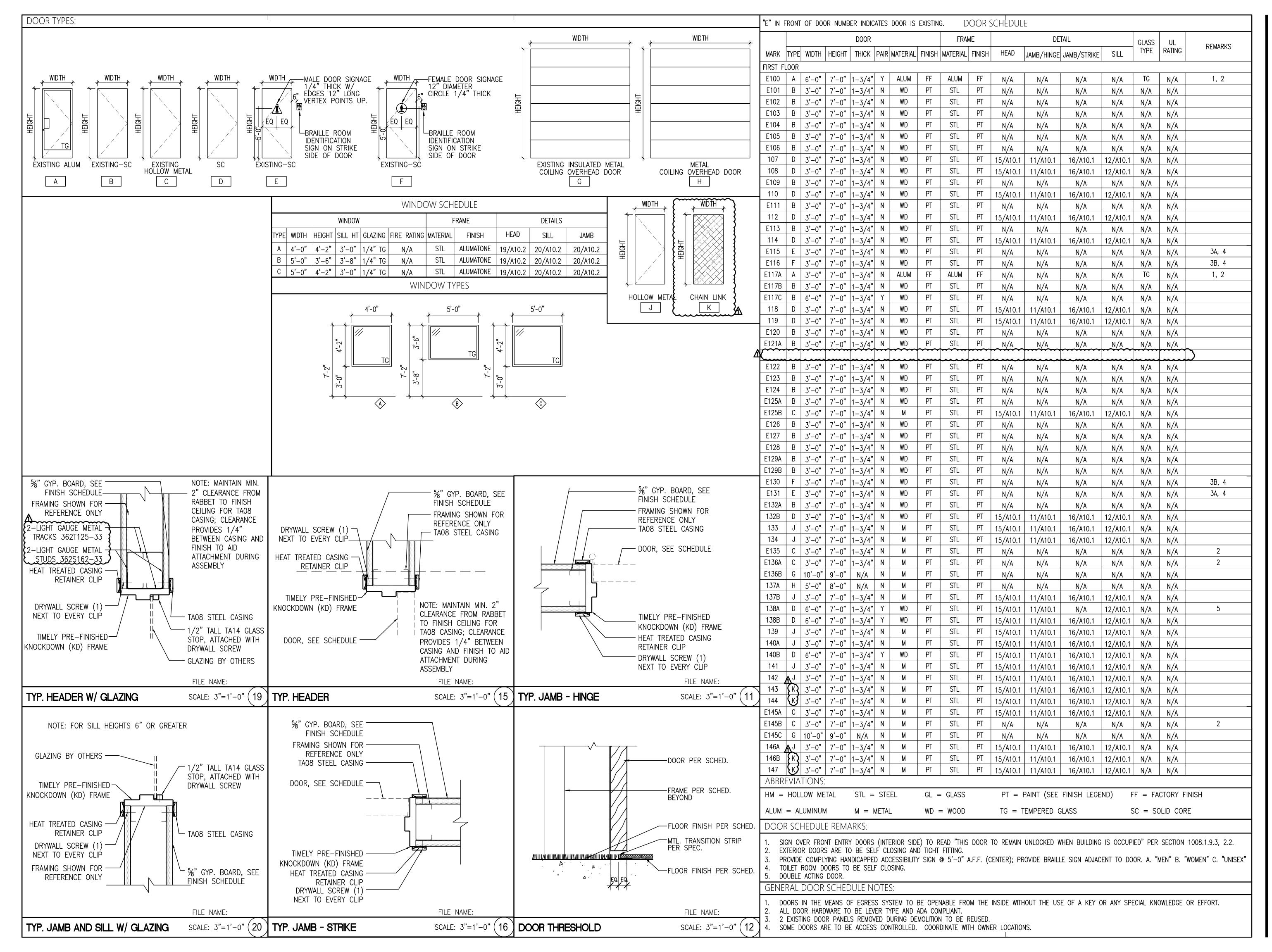
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7-31-23 PLAN CHECK RE-SUBMITTAL (ADD001)





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05-05-23 PLAN CHECK
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RE-SUBMITTAL (ADD001)

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PROJECT NO: 2022170

SHEET TITLE

DOOR SCHEDULE AND DETAILS

SHEET NO:

A10.1

SPECIAL CONDITIONS, REQUIREMENTS AND NOTES TO OWNER, DEVELOPER AND CONTRACTOR:

1. CONTRACTOR, BUILDER AND SUBCONTRACTORS INVOLVED IN ANY FORM OF CONSTRUCTION USING THESE CONTRACT DOCUMENTS SHALL BE INFORMED OF THE FOLLOWING RESPONSIBILITIES, PERFORMANCE CRITERIA. LIMITATIONS AND RISKS ASSOCIATED WITH CONSTRUCTION. IF THE OWNER, DEVELOPER OR CONTRACTOR IS NOT ABLE TO ACCEPT THE RESPONSIBILITIES OR PERFORMANCE CRITERIA AND LIMITATIONS, NOTIFY THE ENGINEER OF RECORD OR ARCHITECT PRIOR TO START OF CONSTRUCTION. IT SHALL BE EXPRESSLY UNDERSTOOD THAT THE ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE LACK OF PERFORMANCE OF MATERIALS, SYSTEMS OR DESIGNS NOT BEING LIMITED TO ITEMS OUTLINED BELOW. CONTRACTORS AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL CONDITIONS AND RESPONSIBILITIES STATED IN THESE NOTES, PLANS, SECTIONS / DETAILS, AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION OF ANY CONDITIONS OR RESPONSIBILITIES WHICH ARE NOT ACCEPTABLE OR NOT UNDERSTOOD.

2. THE CONTRACTOR SHALL USE ALL STANDARD MEANS TO ENSURE PROPER PROTECTION AND CURING OF ALL CEMENTITIOUS MATERIALS TO REDUCE CRACKING OR SURFACE SPALLING. PLAIN CONCRETE, REINFORCED CONCRETE, OR CONCRETE MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE. CREEP AND RESTRAINING EFFECTS. CRACKS ARE NORMALLY COSMETIC AND THE SYSTEM MAINTAINS SERVICEABILITY AND STRENGTH REQUIREMENTS. JOINTS MAY BE INDICATED TO CONTROL CRACKING, BUT ARE NOT MEANT TO ELIMINATE ALL CRACKING, AS THIS IS NOT PRACTICAL. EXTREME CRACKING MAY BE CAUSED BY POOR MATERIAL OR PLACEMENT. CONTACT THE ENGINEER OF RECORD FOR POSSIBLE REPAIR REQUIREMENTS.

3. FOUNDATION SETTLEMENT MAY CAUSE DISTORTION AND DISTRESS TO THE SUPPORTED STRUCTURE AS WELL AS ADJACENT UTILITIES, SLABS, FOUNDATIONS, ETC. THE GEOTECHNICAL REPORT MAY INDICATE A LEVEL OF DISPLACEMENT. ATTENTION TO PROPER SOIL PREPARATION AND GRADING, AS WELL AS PROPER DRAINAGE AWAY FROM STRUCTURE IS ESSENTIAL IN REDUCING EXPECTED SETTLEMENT. ALL REQUIREMENTS WITHIN THE GEOTECHNICAL REPORT ARE TO BE FOLLOWED. INFORM THE ENGINEER OF RECORD OF ANY CONFLICTS BETWEEN THE REPORT AND THE DRAWINGS.

4. VARIATION IN DIMENSIONS MAY OCCUR AS A RESULT OF THERMAL INFLUENCES, NATURAL DEFLECTIONS AND/OR CAMBERS OF MEMBERS. AS A RESULT, QUANTITIES MAY VARY AND ARCHITECTURAL FINISHES MAY BE AT RISK OF COSMETIC VARIATION OR DAMAGE.

5. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION UNLESS SUCH VARIATIONS ARE ISSUED BY THE ENGINEER. ADDITIONS AND ALTERATIONS MAY BE MADE BY THE ENGINEER BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.

6. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED. CONTRACTOR, SUBCONTRACTOR AND/OR WORKPERSONS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS. IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL WORK EXPLICITLY SHOWN.

7. CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS. SUCH AS RAILINGS. NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS CANOPIES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

8. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS. TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE, SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

9. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH OTHER DISCIPLINES DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION OR VARIATION NOT REPORTED BEFORE THE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

13. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

14. TYPICAL GENERAL STRUCTURAL NOTES AND DETAILS SHALL APPLY. THOUGH NOT NECESSARILY AT A SPECIFIC LOCATION ON PLANS, WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

15. ALL OPENINGS ARE NOT SHOWN ON THESE DRAWINGS. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION, OPENINGS MAY REQUIRE ADDITIONAL REINFORCING OR SUPPORTS AS SHOWN ON TYPICAL DETAILS. IF TYPICAL DETAILS FOR ALL CONDITIONS ARE NOT INCLUDED HEREIN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST IN WRITING ADDITIONAL INFORMATION.

16. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING OFFICIALS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SPECIAL INSPECTION REQUIREMENTS STATED HEREIN ARE PARTIAL. COMPLETE INSPECTION REQUIREMENTS SHALL BE AS DIRECTED BY THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

17. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW A MINIMUM OF 10 WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE ENGINEER'S RECORDS.

#### **DEFERRED SUBMITTALS:**

1. IN ACCORDANCE WITH THE IBC SECTION 106.3.4.2, SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/ BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED AS THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER, OR INSTALLER.

2. SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:

A. CONCRETE MIX DESIGNS B. REBAR SHOP DRAWINGS

C. SIMPSON STRONG-TIE, OR EQUAL, HARDWARE (INCLUDING ALL TRUSS HANGERS)

3. SUBMITTALS SHALL INCLUDE:

A. CALCULATIONS PREPARED AND SEALED BY AN APPROPRIATELY REGISTERED ENGINEER (THE "SPECIALTY B. DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER, SHOWING LOAD MAGNITUDES AND LOCATIONS - SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE

PRIMARY STRUCTURE C. ERECTION OR DESIGN DRAWINGS BEARING THE SPECIALTY ENGINEER'S SEAL AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT (1) REPRODUCIBLE COPY, ONE (1) WET SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:

D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.

A. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED. B. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND INTERNATIONAL BUILDING

C. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN.

6. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED THE STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL. ONLY AT THE OWNER'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEM(S) BE MADE BY THE ENGINEER OF RECORD, DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL HAVE APPROVED SUBMITTAL DOCUMENTS.

CONCRETE:

1. MINIMUM 28 DAY STRENGTH (fc) AS FOLLOWS: **FOUNDATIONS** INTERIOR SLAB ON GROUND 4000 PSI F0 S0 W0 C0

2. A MIX DESIGN SHALL BE SUBMITTED FOR REVIEW FOR EACH MIX TYPE AND SHALL INCLUDE ALL MATERIALS TO BE USED, SIEVE ANALYSIS OF AGGREGATE, AND DATA FOR ALL PRODUCTS.

AIR ENTRAINMENT AS FOLLOWS:

A. EXTERIOR CONCRETE SHALL BE PER ASTM C260, 6% +- 1.5% B. INTERIOR CONCRETE SHALL BE LIMITED TO 3% IN ACCORDANCE WITH ACI 302.1R

4. FLY ASH MAY BE USED AT CONTRACTOR'S OPTION. IF USED IT SHALL BE LIMITED TO 20% AND MEET ASTM 6618, CLASS C OR I

5. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER ACCORDING TO ACI

6. THE CONCRETE SUPPLIER SHALL STATE THE SLUMP AND ADDITIVES USED IN THE MIX DESIGN.

A. MAXIMUM SLUMP FOR EXTERIOR SLABS SHALL BE 4" +/- 1".

BY THE ENGINEER OR AUTHORIZED TESTING AGENCY.

B. MAXIMUM SLUMP FOR ALL OTHER CONCRETE SHALL BE 3" +/- 1". C. WATER SHALL BE CLEAN AND POTABLE. IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A OR F, SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX. THE ONLY WATER WHICH MAY BE ADDED ONSITE IS MIX WATER THAT HAS BEEN LEFT OUT AT THE BATCH PLANT D. CONCRETE DELIVERY TICKET SHALL CLEARLY INDICATE THE AMOUNT OF MIX WATER WHICH HAS BEEN LEFT OUT. MAXIMUM SLUMP SHALL BE 8" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4" BEFORE ADDING HIGH-RANGE WATER-

REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE. SEE DIVISION 3 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

7. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE II CEMENT. CALCIUM CHLORIDE IS NOT ALLOWED.

9. CONCRETE MIXING, PLACEMENT AND QUALITY SHALL BE PER IBC SECTION 1904, ASTM C 94, ASTM C 685, AND ACI 302. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GROUND NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR UPLIFT ANCHORS, CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE

8. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED

10. ALL ITEMS THAT ARE CAST INTO CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, EMBEDS, INSERTS, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE. SUPPORT ALL REINFORCING WITH CHAIRS AS REQUIRED. FLOATING IN OF THESE ITEMS IS NOT PERMITTED. REINFORCING, DOWELS, EMBEDS, AND INSERTS SHALL BE CLEAN OF RUST, OILS, AND DIRT PRIOR TO CASTING.

11. CONCRETE SLAB ON GROUND CONTROL JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR TYPICAL DETAILS. WHERE CONTROL JOINTS ARE NOT SHOWN ON PLANS, ALL CONCRETE SLABS ON GROUND SHALL BE BOUND BY KEYED, DOWELED OR SAWCUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 144 SQUARE FEET. RATIO OF BOUNDARY DIMENSIONS SHALL NOT EXCEED 1.5:1. LOCATE CONTROL JOINTS OFF OF CORNERS OF DIAMOND ISOLATION LEAVE OUTS AND RE-ENTRANT CORNERS. KEYED OR DOWELED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAWCUT. SAWCUT JOINTS SHALL BE CUT IN SLABS ON GROUND AS SOON AS POSSIBLE WITHIN 24 HOURS AFTER SLAB FINISHING AS MAY BE SAFELY DONE WITHOUT DISLODGING AGGREGATE.

12. PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE OUTSIDE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE

13. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO HOT OR COLD WEATHER IN ACCORDANCE WITH ACI WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES, FOLLOW ALL MANUFACTURERS RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH

**FOUNDATIONS:** 1. GEOTECHNICAL REPORT: N/A

ENGINEERS PRIOR APPROVAL

2. THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO PROVIDE SOIL TESTING AND REVIEW DURING CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE THE FOUNDATION REQUIREMENTS OF THE CONTRACT DOCUMENTS. IF CONDITIONS VARY FROM THAT INDICATED HEREIN, THEN THE GEOTECHNICAL ENGINEER SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

3. THE BACKFILL SHALL BE PLACED AND COMPACTED ON EACH SIDE OF FOUNDATION WALLS SUCH THAT NO UNBALANCED. LATERAL LOADS ARE INDUCED TO THE WALL. PROVIDE CLEAN CRUSHED STONE BACKFILL PER GEOTECH REPORT.

4. BACKFILL SHALL BE PLACED EVENLY AGAINST EACH SIDE OF SUBGRADE STRUCTURAL ELEMENTS TO PRODUCE APPROXIMATELY EQUAL AND OPPOSITE LATERAL PRESSURES.

**SLAB ON GRADE SUPPORT:** 

1. SLAB ON GROUND SUPPORT: MINIMUM 4" LAYER OF GRANULAR BASE CONSISTING OF AN OPEN GRADED CRUSHED STONE (ASTM C33, #57 STONE OR SIMILAR), PER GEOTECHNICAL REPORT.

2. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, CONCRETE SLABS ON GROUND SHALL BE SUPPORTED ON SELECT FILL MATERIAL AS NOTED ABOVE. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO AS NOT TO DISTURB FILL MATERIAL OR REINFORCING. THE FILL MATERIAL SHALL BE COMPACTED TO NO LESS THAN 95% COMPACTION AT MOISTURE CONTENT RANGE OF 3% BELOW TO 3% ABOVE OPTIMUM MOISTURE CONTENT BEFORE PLACEMENT OF SLABS. REFER TO GEOTECHNICAL REPORT FOR ANY ADDITIONAL REQUIREMENTS.

#### MINIMUM DEPTH IS 12" BELOW GRADE.

2. ALLOWABLE FOOTING BEARING CAPACITY IS 1500 PSF (ASSUMED).

3. ALL FOOTINGS SHALL EXTEND TO DEPTH NOTED ABOVE UNLESS NOTED OTHERWISE ON PLANS OR DETAIL. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS, AND LOWEST ADJACENT COMPACTED SUBGRADE (PAD GRADE BEFORE LANDSCAPING) OR NATURAL GRADE WITHIN 5 FEET OF BUILDING FOR PERIMETER FOOTINGS. GRADE IS DEFINED AS TOP OF EXTERIOR PAVING OR CONCRETE WHERE EXTERIOR PAVING OR CONCRETE IS PERMANENTLY LOCATED DIRECTLY ADJACENT TO BUILDING AND EXTENDS AT LEAST 5 FEET FROM BUILDING.

4. FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE FROM LOOSE DEBRIS, STANDING WATER, OR UNCOMPACTED MATERIAL

5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.

6. SITE PREPARATION AND GRADING REQUIREMENTS OF THE GEOTECHNICAL REPORT AND ANY ADDENDA SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

**ELECTRONIC FILES:** 

ELECTRONIC FILES CREATED BY METTEMEYER ENGINEERING, LLC. ARE AVAILABLE FOR USE BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR BUILDERS INVOLVED IN ANY FORM OF CONSTRUCTION AND BIDS ON THE PROJECT BASED ON THE FOLLOWING TERMS AND CONDITIONS:

BY USING THIS COMPUTER-GENERATED DRAWING, YOU WILL INDICATE YOUR ACCEPTANCE OF THE FOLLOWING TERMS AND CONDITIONS. THE PURPOSE OF THIS AGREEMENT IS TO SET FORTH THE CONDITIONS FOR THE USE BY A SECOND PARTY (USER) OF COMPUTER-GENERATED DRAWINGS PREPARED BY METTEMEYER ENGINEERING, LLC. METTEMEYER ENGINEERING, LLC RETAINS OWNERSHIP OF THE INFORMATION CONTAINED ON THE DRAWINGS; PERMISSION TO USE THESE MATERIALS IS GIVEN ONLY SUBJECT TO THE TERMS OF THIS AGREEMENT.

ARTICLE 1. THE INFORMATION RECORDED ON COMPUTER-GENERATED DRAWINGS REPRESENTS A PORTION OF STRUCTURAL ENGINEERING SERVICES PERFORMED BY METTEMEYER ENGINEERING, LLC. NO REPRESENTATION IS MADE BY METTEMEYER ENGINEERING, LLC THAT THE DATA IS WITHOUT INACCURACY. METTEMEYER ENGINEERING, LLC GRANTS PERMISSION TO USE ITS COMPUTER-GENERATED DRAWINGS WITH THIS UNDERSTANDING AND WITH NO LIABILITIES EITHER EXPRESSED OR IMPLIED FOR ACCURACY OR COMPLETENESS. THE USER AGREES TO HOLD HARMLESS AND DEFEND METTEMEYER ENGINEERING, LLC IN THE EVENT OF ANY ACTION AGAINST OR BY THE USER FOR THE PREPARATION OF INFORMATION GENERATED THROUGH THE USE OF COMPUTER-GENERATED DRAWINGS PREPARED BY METTEMEYER ENGINEERING, LLC. FURTHER, IN THE EVENT OF SUCH LEGAL ACTION, THE USER AGREES TO PAY REASONABLE ATTORNEY'S FEES AND EXPENSES INCURRED BY METTEMEYER ENGINEERING, LLC IN RESOLVING THE MATTER.

ARTICLE 2. COMPUTER-GENERATED DRAWINGS ARE MADE AVAILABLE SOLELY FOR THE FACILITATION OF THE USER'S WORK ON THE SPECIFIC PROJECT IDENTIFIED BELOW AND NO PERMISSION IS GRANTED HEREIN FOR COPYING OR REUSE. THE USER'S ACCEPTANCE OF THESE TERMS, WHICH IS COMMUNICATED BY OPENING OR USING THIS DRAWING, CONSTITUTES A WAIVER OF LIABILITY AND THE ACCEPTANCE OF RESPONSIBILITIES FOR THE COORDINATION OF ANY REVISIONS AND COMPUTER-GENERATED INTERLINEATIONS MADE TO THE INFORMATION TRANSMITTED.

ARTICLE 3. UTILIZATION OF COMPUTER-GENERATED DRAWINGS NOT IN ACCORDANCE WITH THE TERMS OF THIS AGREEMENT. SHALL CONSTITUTE A BREACH OF THIS AGREEMENT; METTEMEYER ENGINEERING, LLC WILL AT SUCH TIME DEMAND RETURN OF ITS PROPERTY AND MAY SEEK LEGAL RECOURSE AND THE COST OF REASONABLE FEES.

REINFORCING STEEL (FOR CONCRETE AND MASONRY):

1. REINFORCED CONCRETE IS DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) BY THE AMERICAN CONCRETE INSTITUTE.

2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE "ACI STANDARD: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND THE "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R) BY THE AMERICAN CONCRETE INSTITUTE. THE CODE REFERENCED EDITIONS OF CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS" MAY ALSO BE USED.

3. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL REINFORCING BARS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706 GRADE 60 LOW ALLOY WELDABLE STEEL.

4. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SUCH THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRE OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

5. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS:

EXPOSURE CONDITION CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	MINIMUM COVER 3"	TOLERANCES (+/-) 3/8"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER #6 AND LARGER	1 1/2" 2"	3/8" 3/8"
SLABS ON GRADE:	1 1/2"	1/4"
6 LAD SDLICES OF DEINICODCING STEEL IN ALL CONCRETE SHALL	RE ACCOPDING TO AC	1 240 (CL ASS D SDLIC

LAP SPLICES OF REINFORCING STEEL IN ALL CONCRETE SHALL BE ACCORDING TO ACI 318 (CLASS B SPLICE). UNLESS NOTED OTHERWISE. STAGGER SPLICES A MINIMUM OF ONE LAP IN LENGTH. NO TACK WELDING OF REINFORCING BARS IS ALLOWED. CODE REFERENCED ACI CODE AND DETAIL MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. SPLICE TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SUPPORT IN SPANDRELS, BEAMS, GRADE BEAMS, ETC. UNLESS NOTED

7. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED IN THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS. WHEN CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS ARE REQUIRED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT AND A KEY SHALL BE PROVIDED FOR ADEQUATE SHEAR TRANSFER.

REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE. 9. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM WITH IBC STANDARD

19-2, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. 10. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED

VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

AND PLACED PER CONCRETE REINFORCING STEEL INSTITUTE (CRSI) SPECIFICATIONS AND HANDBOOK. DOWEL ALL

8. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE STRAIGHTENED AND RE-BENT. FIELD BENDING OF

11. AT CORNERS OF FOOTINGS SUPPLY CORNER BARS 4'-0" LONG MINIMUM (2'-0" EACH LEG, OR 30 BAR

12. STANDEES/CHAIRS SHALL BE AS SPECIFIED IN CODE REFERENCED EDITION OF CRSI DESIGN HANDBOOK. MAXIMUM STANDEE/CHAIR SPACING SHALL BE 4'-0" ON CENTER.

13. AT ALL HOLES IN CONCRETE WALLS AND SLABS, ADD 2-#5 BARS (LENGTH IS OPENING DIMENSION PLUS 3'-0" LONG EACH WAY) AT EACH OF FOUR SIDES AND ADD 2-#5x5'-0" DIAGONALLY AT EACH OF THE FOUR CORNERS OF THE HOLE. IN 8" WALL OPENINGS REINFORCE SAME, BUT 1-#5 BAR INSTEAD OF 2-#5 BARS, RESPECTIVELY. MECHANICAL SPLICE COUPLERS, FLANGE COUPLERS, THREADED COUPLERS, ETC. SHALL HAVE CURRENT ICC APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

#### POST-INSTALLED ANCHORS:

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS OR APPROVED BY E.O.R OR PT DESIGN ENGINEER. SPECIAL INSPECTIONS ARE REQUIRED PER THE PROVISIONS SET FORTH IN BELOW REFERENCED IBC CODE REPORTS. ANCHORS ARE TO BE INSTALLED BY EXPERIENCED INSTALLERS OR CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRODUCT INSTALLATION TRAINING ON INITIAL ANCHORS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

2. CONCRETE ANCHORS:

A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713), HILTI KWIK HUS-EZ "KH-EZ" (ICC-B. ADHESIVÉ ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED

AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS

SIMPSON STRONG-TIE "GT" (ICC-ES ESR-2508), HILTI HIT-HY 200-A (ICC-ES ESR 3187)

3. MASONRY ANCHORS (ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY):

A. MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY, PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056), HILTI "KH-EZ" CRC (ICC-ES ESR-3056) B. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE: SIMPSON STRONG-TIE "GT" (ICC-ES ESR-1772), HILTI "HIT-HY 200-A (ICC-ES ESR-3963)

#### CONFLICTING REQUIREMENTS:

1. ANY AND ALL CONFLICTS WITHIN THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS AND OTHER DOCUMENTS); OR BETWEEN THE DOCUMENTS AND EXISTING PROJECT CONDITIONS SHALL BE QUANTIFIED BY THE CONTRACTOR(S); AND ALL ASSOCIATED COSTS MUST BE INCLUDED IN THE CONTRACTOR(S) BASE BID: OR ANY AND/OR ALL COSTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S). IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO BRING EACH CONFLICT TO THE ATTENTION OF THE ENGINEER OF RECORD. ALL CONFLICTS SHALL BE IDENTIFIED IN WRITTEN FORM AND SUBMITTED THROUGH THE "REQUEST FOR INFORMATION" (RFI) PROCESS DURING BIDDING. THE ENGINEER OF RECORD SHALL REVIEW ALL IDENTIFIED CONFLICTS AND RENDER TO THE CONTRACTOR(S) THEIR DECISION.

2. IF THE CONTRACTOR(S) DO NOT SUBMIT AN RFI AND/OR DO NOT RECEIVE A DIRECTIVE OR CLARIFICATION IN WRITING FROM THE ENGINEER OF RECORD THROUGH NO FAULT OF THEIR OWN, CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE MORE STRINGENT STANDARD, OR HIGHER LEVEL OF QUALITY AT NO ADDITIONAL COSTS TO THE OWNER.

3. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISHES A DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT.

STRUCTURAL LUMBER:

LUMBER SHALL BE GOOD, SOUND, WELL SEASONED, S4S, WITH A MOISTURE CONTENT OF 15% MAXIMUM AND THE FOLLOWING ALLOWABLE STRESSES:

**ENGINEERED LUMBER** REATED BEAMS, & JOISTS #2 HEM-FIR OR BETTER #2 SOUTHERN YELLOW PINE MICROLAM LVL 1.9E A. Fb = 2,600 PSIA. Fb = 975 PSI A. Fb = 1.000 PSIB. Fc = 1,350 PSI B. Fc = 2,510 PSI B. Fc = 1.400 PSI C. Fv = 150 PSI C. Fv = 175 PSI C. Fv = 285 PSI D. E = 1,500,000 PSI D. E = 1,700,000 PSI D. E = 1,900,000 PSI

A. PLATES IN CONTACT WITH CONCRETE SHALL BE TREATED #2 SOUTHERN YELLOW PINE B. CONTRACTOR MAY SUBSTITUTE AN ALTERNATE SPECIES ONLY WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. C. LUMBER SHALL BE SELECTED SUCH THAT NO PIECES WITH LARGE KNOTS, WARPS, SPLITS, OR DEFECTS ARE USED.

2. FRAMING, ROUGH CARPENTRY, AND MISCELLANEOUS CARPENTRY WORK SHALL BE GOVERNED BY THE INTERNATIONAL BUILDING CODE REQUIREMENTS. ALL SUCH WORK SHALL COMPLY WITH CONSTRUCTION, CONNECTION, AND GENERAL REQUIREMENTS OF CHAPTER 23 OF THE CODE. IT SHALL BE A REQUIREMENT OF THIS CONTRACT THAT THE GENERAL CONTRACTOR / PROJECT MANAGER PROVIDE A COPY OF THIS CHAPTER TO ALL PERTINENT PARTIES.

3. THE GENERAL CONTRACTOR / PROJECT MANAGER AND FRAMING SUB-CONTRACTOR ARE RESPONSIBLE FOR INSTALLING THE CORRECT NAIL SIZE AS SPECIFIED ON THE CONTRACT DOCUMENTS AND/OR ON APPROVED TRUSS SHOP DRAWINGS. COMMON NAIL SIZES ARE AS FOLLOWS AND SHOULD BE CONSIDERED AS MINIMUMS.

DESIGNATION 8D 10D	<u>DIAMETER</u> 0.131" 0.148"	LENGTH 3" 3"
12D	0.148"	3 1/4"
16D	0.162"	3 1/2"

4. THE GENERAL CONTRACTOR / PROJECT MANAGER AND FRAMING SUB-CONTRACTOR ARE RESPONSIBLE FOR VERIFYING THE APPROPRIATE NAIL SIZE WHEN USING NAIL GUNS. FAILURE TO USE CORRECT NAIL SIZES, AS STATED ABOVE, MAY RESULT IN THE REMOVAL OF ALL CONSTRUCTION TO DATE AND RECONSTRUCTING AT FRAMING CONTRACTOR'S EXPENSE

5. THE USE OF NAIL GUNS FOR JOIST HANGERS IS LIMITED PER MANUFACTURER'S RECOMMENDATIONS.

DRIVING NAILS INTO EXISTING HOLES IS NOT ACCEPTABLE UNLESS THE ORIGINAL NAIL SIZE IS 75% OF THE DIAMETER OF THE NEW NAIL 7. HOLES DRILLED IN EXTERIOR WALLS, SHEAR WALLS, AND INTERIOR LOAD BEARING WALLS FOR WIRING AND/OR PLUMBING SHALL BE CENTERED. NO OTHER HOLES OR NOTCHES ARE PERMITTED. ALLOWED HOLE SIZES ARE AS FOLLOWS:

STUD OR PLATE SIZE MAXIMUM HOLE DIAMETER

8. HOLES DRILLED IN NON-LOAD BEARING INTERIOR WALL STUDS FOR WIRING AND/OR PLUMBING SHALL BE CENTERED. NO OTHER HOLES OR NOTCHES ARE PERMITTED. ALLOWED HOLE SIZES ARE AS FOLLOWS:

STAGGERED 12". CINCH NAILS AS REQUIRED.

NOTCH SIZES AND LOCATIONS FOR REVIEW. 10. MULTIPLE LAMINATIONS (TRIPLE 2x MAXIMUM) SHALL BE NAILED TOGETHER WITH 2 ROWS OF 0.162x3 1/2" NAILS EACH FACE FOR THREE PLY AND ONE FACE FOR TWO PLY AT 24" O.C.

9. HOLES OR NOTCHES IN JOISTS AND RAFTERS ARE NOT ALLOWED UNLESS SPECIFICALLY

APPROVED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE PROPOSED HOLE OR

11. TYPICAL MINIMUM NAILING REQUIREMENTS ARE PER THE NAILING SCHEDULE ON THE CONTRACT DOCUMENTS.

12. SPECIFIED CONNECTORS ARE SIMPSON PRODUCTS PER 2019-2020 CATALOG AND ARE TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

13. ALL BEAMS BEARING PERPENDICULAR TO WALL FRAMING SHALL BE SUPPORTED BY MULTIPLE STUDS FOR THE FULL WIDTH OF THE BEAM. MULTIPLE STUDS SHALL CONTINUE TO FOUNDATION.

14. SILL PLATES AT ALL STRUCTURAL WALLS SHALL BE SECURED TO THE FOUNDATION WITH SIMPSON THDB62600HMG (5/8"Øx6") SCREW ANCHORS AT 4'-0" O.C. MAXIMUM SPACING UNLESS NOTED OTHERWISE. USE A MINIMUM OF TWO SCREW ANCHORS PER SECTION OF PLATE. SCREW ANCHORS SHALL BE PLACED AT A MAXIMUM OF 12" FROM END OF PLATE AND NO CLOSE! THAN 4" FROM END OF PLATE. REFER TO IBC CHAPTER 23. SCREW ANCHOR SPACING MAY DIFFER AT SHEAR WALLS. REFER TO SHEAR WALL SCHEDULE, PLANS, AND DETAILS FOR ADDITIONAL INFORMATION.

15. SILL PLATES AT NON-STRUCTURAL WALLS SHALL BE SECURED TO THE FOUNDATION WITH (1) 0.157"Ø POWDER ACTUATED FASTENER AT 32" O.C. MAXIMUM SPACING. USE A MINIMUM OF TWO P.A.F. ANCHORS PER SECTION OF PLATE. P.A.F. ANCHORS SHALL BE PLACED AT A MAXIMUM OF 12" FROM END OF PLATE AND NO CLOSER THAN 4" FROM END OF PLATE, REFER TO IBC CHAPTER

16. 2x FRAMED OVERBUILDS NOT OTHERWISE CALLED OUT ON PLANS SHALL BE 2x6 JOISTS AT 24" O.C. WITH MAXIMUM SPAN OF 8'-0". PROVIDE CRIPPLE WALLS AS REQUIRED. CRIPPLE WALLS SHALL BEAR DIRECTLY OVER ROOF FRAMING MEMBERS BELOW. DO NOT BEAR CRIPPLE WALLS ON SHEATHING ONLY.

17. CONCENTRATED LOADING SUCH AS CEILINGS, PIPE HANGERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES. ETC. WHICH ARE TO BE ATTACHED TO ELEVATED FLOOR OR ROOF STRUCTURES SHALL BE SECURED TO THE JOISTS, RAFTERS, TRUSSES, OR BEAMS, NOT TO THE FLOOR OR ROOF SHEATHING.

CONCRETE TESTING SERVICES:

1. TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:

A. FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CUBIC YARDS (4 CUBIC METERS), BUT LESS THAN 25 CUBIC YARDS (19 CUBIC METERS), PLUS ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS (38 CUBIC METERS) OR FRACTION THEREOF. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.

B. SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.

C. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ASTM C 173 VOLUMETRIC METHOD, FOR STRUCTURAL LIGHTWEIGHT CONCRETE: ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH

D. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES FAHRENHEIT (4.4 DEGREES CELSIUS) AND BELOW AND WHEN 80 DEGREES FAHRENHEIT (27 DEGREES CELSIUS) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE

E. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M; CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. FIELD-CURED SPECIMENS BELOW MAY BE REQUIRED TO VERIFY ADEQUACY OF CURING AND PROTECTION OF CONCRETE OR TO VERIFY STRENGTH FOR REMOVAL OF SHORING AND RESHORING IN MULTISTORY CONSTRUCTION.

F. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; TEST TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND TWO AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED. ANY CONCRETE SAMPLING BEYOND THE DAYS ABOVE SHALL BE DIRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S COST.

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#### COLD FORMED STEEL FRAMING:

DRAWINGS

 ALL COLD FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

2. STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, BLOCKING, LINTELS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.

3. STEEL FOR 10, 12, 14 AND 16 GA. STUDS AND JOISTS SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI STEEL FOR ALL 18, 20 AND 25 GA. STUDS AND JOISTS, ALL GAGES OF TRACK, ALL DIAGONAL TENSION STRAPS OR BRACES, AND BRIDGING SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED OR THOROUGHLY COATED WITH RUST INHIBITIVE PAINT

OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL E TOUCHED UP WITH PAINT. 5. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM RANK.

4. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS

UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND BEAM BEARING. 6. WALL STUD BRIDGING, AS RECOMMENDED BY THE STUD MANUFACTURER, SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAXIMUM INTERVALS. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT

7. SCREWS SHALL BE SELF TAPPING PAN HEAD, HEX HEAD, OR WAFER HEAD SHEET METAL SCREWS. A SCREW OF A LARGER DIAMETER SHALL REPLACE SCREWS, WHICH ARE REMOVED, WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLD. REPLACE ALL SCREWS WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8 INCH ON CENTER AND WITH A MINIMUM FREE EDGE OF 1/2". CLIP ANGLES AND FLAT CLIPS USED FOR ATTACHMENTS SHALL BE 20 GA. MINIMUM. UNLESS NOTED OTHERWISE. SIZE CLIP ANGLES AND FLAT CLIPS TO MAINTAIN MINIMUM SCREW SPACING AND EDGE DISTANCES NOTED ABOVE. ALL SCREWS #8 AND LARGER SHALL HAVE A MINIMUM HEAD SIZE OF 5/16 INCH.

IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE

DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE

8. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE, STRUCTURAL STEEL FRAMING WORK.

P 858.692.3835

RF-SUBMITTAL (ADD001)

SHEET NO:

ABBREVIATIONS: 1. B/ = BOTTOM OF 2. BRG = BEARING 3. CL = CENTER LINE 4. CMU = CONCRETE MASONRY UNIT 5. DBE = DECK BEARING ELEVATION 6. FL = FLEVATION 7. EOR = ENGINEER OF RECORD

9. FTG = FOOTING 10. FV = FIELD VERIFY 11. G.C. = GENERAL CONTRACTOR 12. H.A.S. = HEADED ANCHOR STUD 13. JBE = JOIST BEARING ELEVATION 14. LT GA = LIGHT GAGE

16. MFR = MANUFACTURER 17. O.C. = ON CENTER 18. P.A.F. = POWDER ACTUATED FASTENER 19. PL = PLATE 20. RTU = ROOF TOP UNIT

21. T/ = TOP OF 22. TYP = TYPICAL 23. U.N.O. = UNLESS NOTED OTHERWISE

8. TOP PLATE TO STUD... 9. STUD TO BOTTOM PLATE 10. DOUBLE STUDS 11. DOUBLE TOP PLATES

12. DOUBLE TOP PLATES, LAP SPLICE 13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 14. RIM JOIST TO TOP PLATE 15. TOP PLATES, LAPS AND INTERSECTIONS 16. CONTINUOUS HEADER, TWO PIECES... 17. CEILING JOISTS TO PLATE 18. CONTINUOUS HEADER TO STUD 19. CEILING JOISTS, LAP OVER PARTITIONS 8. fc = CONCRETE COMPRESSIVE STRENGTH 20. CEILING JOISTS TO PARALLEL RAFTERS

21. RAFTER TO PLATE

**CONNECTION TYPE:** 

2. BRIDGING TO JOIST

1. JOIST TO SILL OR GIRDER, TOENAIL...

5. 2" (52MM) SUBFLOOR TO GIRDER

6. BOTTOM PLATE TO JOIST OR BLOCKING

3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST

4. WIDER THAN 1"X6"(25MMx152MM) SUBFLOOR TO JOIST

22. 1" (25MM) BRACE TO EACH STUD AND PLATE 23. 1"x8" SHEATHING OR LESS TO EACH BEARING 24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING... 25. BUILT-UP CORNER STUDS 26. 2" PLANKS 27. COLLAR TIE TO RAFTER 15. MEP = MECHANICAL, ELECTRICAL, PLUMBING 28. JACK RAFTER TO HIP

29. ROOF RAFTER TO 2-BY RIDGE BEAM 30. JOIST TO BAND JOIST. 31. LEDGER STRIP 32. BUILT-UP GIRDER AND BEAMS

7. BOTTOM PLATE TO JOIST OR BLOCKING, AT SHEAR WALLS 3 - 16d @ 16" O.C. 2 - 16d END NAIL 4 - 8d TOENAIL OR 2 -16d END NAIL 16d @ 24" O.C. FACE NAIL 16d @ 16" O.C. TYP. FACE NAIL 3 - 8d TOENAIL 8d @ 6" O.C. TOENAIL 2 - 16d FACE NAIL 16d @ 16" O.C. ALONG EDGE 3 - 8d TOENAIL 4 - 8d TOENAIL 3 - 16d MIN. FACE NAIL (SEE TABLE 2308.10.4.1) 3 - 16d MIN. FACE NAIL (SEE TABLE 2308.10.4.1) 3 - 8d TOENAIL 2 - 8d FACE NAIL 3 - 8d FACE NAIL 3 - 8d FACE NAIL 16d @ 24" O.C.

AND 2 - 20d FACE NAILS AT ENDS AND AT

EACH SPLICE)

NAILING:

3 - 8d TOENAIL

2 - 8d FACE NAIL

3 - 8d FACE NAIL

2 - 8d TOENAIL EACH END

2 - 16d BLIND AND FACE NAIL

16d @ 16" O.C. TYP. FACE NAIL

16d AT EACH BEARING 3 - 10d FACE NAIL 3 - 10d TOENAIL OR 2 - 16d FACE NAIL 2 - 16d TOENAIL OR 2 - 16d FACE NAIL 3 - 16d FACE NAIL 3 - 16d FACE NAII (20d @ 32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES

- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- DEVELOPMENT LENGTHS IN TENSION ARE BASED ON THE FOLLOWING. NOTIFY ENGINEER IF ONE OF THE FOLLOWING CRITERIA IS NOT MET: A. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN THE BAR DIAMETER, CLEAR COVER NOT LESS THAN THE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM, OR
- B. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2 TIMES THE BAR DIAMETER AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER.

					LAI	P SPLICE L Fy = (	ENGTHS ( 60,000 PSI						
	TENSION (CLASS B SPLICE)												
BAR SIZE	OTHER BARS						TOP BARS						
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	3000 PSI-10.000 PSI CONCRETE
#3	23	20	17	16	15	15	29	25	23	21	19	19	12
#4	29	25	23	21	20	19	38	33	30	28	25	24	15
#5	37	32	29	26	24	23	47	41	37	34	32	29	19
#6	43	38	34	32	29	28	56	49	45	41	37	36	23
#7	63	55	50	45	42	39	82	71	64	59	54	51	27
#8	72	63	56	51	47	45	94	81	73	67	62	58	30
#9	81	71	63	58	54	50	106	91	82	75	69	65	34
#10	91	80	71	65	60	56	119	103	93	84	78	73	39
#11	102	88	78	72	67	63	132	114	102	93	86	81	43
#14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51
#18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68

- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- DEVELOPMENT LENGTHS IN TENSION ARE BASED ON THE FOLLOWING. NOTIFY ENGINEER IF ONE OF THE FOLLOWING CRITERIA IS NOT MET:
- A. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN THE BAR DIAMETER, CLEAR COVER NOT LESS THAN THE BAR DIAMETER, AND STIRRUPS OR
- TIES THROUGHOUT THE DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM, OR
- B. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2 TIMES THE BAR DIAMETER AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER.

		HO	OKED DOV	VEL DEVEL	OPMENT I. Fy = 60,00		N TENSION (INC	HES)		
BAR			EMBED	MENT			EXTEN	MINIMUM BEND		
SIZE	3000 PSI 4000 PSI 5000 PSI CONCRETE CONCRETE CONCRETE			6000 PSI CONCRETE	7000 PSI CONCRETE	8000 PSI CONCRETE	90° HOOK	180° HOOK	DIAMETER (IN.)	
#3	6	6	6	6	6	6	5	3	3	
#4	8	7	6	6	6	6	6	3	4	
#5	10	8	7	7	6	6	8	3	5	
#6	12	10	9	8	8	7	9	3	6	
#7	13	12	10	9	9	8	11	4	7	
#8	15	13	12	11	10	9	12	4	8	
#9	17	15	13	12	11	11	14	5	12	
#10	19	17	15	14	13	12	16	6	13	
#11	22	19	17	15	14	13	17	6	15	
NOTES: 1. DEVEL	DIAMETER OF BEND	DF EMBEDMI	ENT		JETER OF	EMBEDMENT				
		90° HOO	K			180° HOOK				

#### $\cdots$ SUSPENDED CEILING SYSTEMS CBC TABLE 1705A.12.5 CONTINUOUS PERIODIC TYPE SPECIAL SPECIAL INSPECTION INSPECTION 1. VERIFY ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, CEILINGS AND INTERIOR AND EXTERIOR VENEER IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F.

IBC TABLE 1705.5		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. HIGH-LOAD DIAPHRAGMS (NAIL SPACING LESS THAN 6" O.C. AT EDGES):		
A. VERIFY STRUCTURAL PANEL SHEATHING GRADE AND THICKNESSES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
C. VERIFY THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
2. METAL-PLATE-CONNECTED WOOD TRUSSES:		
A. VERIFY THE INSTALLATION OF THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	Х
B. VERIFY DURING CONSTRUCTION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	Х
3. ATTACHMENT OF BRICK SHELF ANGLE TO WOOD:		
A. VERIFY SIZE AND SPACING OF SCREWS.	Х	-
B. VERIFY CENTERLINE OF SCREWS INTO STUDS ARE AT CENTERLINE OF 1 WIDTH OF STUD.	Х	-
4. SHEAR WALL CONSTRUCTION		
A. VERIFY STRUCTURAL PANELS GRADE & THICKNESS. COMPLY W/ THE APPROVED CONSTRUCTION.	Х	-
B. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.		Х
C. VERIFY THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE APPROVED CONSTRUCTION DOCUMENTS.		X
D. VERIFY SILL PLATE ANCHORAGE CONNECTIONS @ EA. FLOOR COMPLY W/ APPROVED CONSTRUCTION DOCUMENTS.		Х
E. VERIFY HOLD- DOWN SIZE, POST & FASTENERS COMPLY W/ APPROVED CONSTRUCTION DOCUMENTS.		Х
F. VERIFY STRAP SIZE, POST & FASTENERS COMPLY W/ APPROVED CONSTRUCTION DOCUMENTS.		Х
5. HEADERS & JOIST FRAMING		
A. VERIFY STRUCTURAL HEADER & JOIST SIZES, GRADE, & SPACING COMPLY W/APPROVED CONSTRUCTION DOCUMENTS.		Х
B. VERIFY QUANTITY OF JACK & KING STUDS PER SCHEDULE COMPLY W/ APPROVED CONSTRUCTION DOCUMENTS.		Х
B. VERIFY HANGER CONNECTIONS COMPLY W/ APPROVED CONSTRUCTION DOCUMENTS.		Х

#### BASIS FOR DESIGN: 1. BUILDING CODE: CALIFORNIA BUILDING CODE 2022 RISK CATEGORY II DEAD LOADS A. TYPICAL ROOF .. ...10 PSF (ASSUMED) LIVE LOADS A. ROOF (NO REDUCTION)...... 4. SNOW LOAD A. GROUND SNOW, Pg = 3 PSF B. FLAT ROOF SNOW LOAD, Pf = 3 PSF C. SLOPED ROOF SNOW LOAD, Ps = 3 PSF D. EXPOSURE FACTOR, Ce = 1.0 E. IMPORTANCE FACTOR, Is = 1.0 F. THERMAL FACTOR, Ct = 1.0 G. RAIN ON SNOW = 5 PSF (FLAT ROOF) H. SNOW DRIFT (TO BE CONSIDERED IN ADDITION TO FLAT ROOF SNOW LOAD) = N/A SEISMIC LOAD A. IMPORTANCE FACTOR, le = 1.0 B. $S_S = 1.180$ C. $S_1 = 0.370$ D. SITE CLASS = D E. $S_{DS} = 0.910$ F. $S_{D1} = 0.610$ G. SEISMIC DESIGN CATEGORY = D H. BASIC SEISMIC FORCE RESISTING SYSTEM = N/A (NOT USED IN DESIGN) I. DESIGN BASE SHEAR = N/A J. RESPONSE MODIFICATION COEFFICIENT(S), R = N/A K. SEISMIC RESPONSE COEFFICIENT(S), Cs = N/A L. ANALYSIS PROCEDURE = NOT CONSIDERED (MODIFICATIONS DO NOT AFFECT EXISTING MEMBERS) WIND LOAD A. BASIC WIND SPEED (3-SECOND GUST) a. ULTIMATE DESIGN WIND SPEED = 96 MPH

b. SERVICE DESIGN WIND SPEED = 76 MPH

D. INTERNAL PRESSURE COEFFICIENT = ±0.18

E. WIND DESIGN PRESSURES (COMPONENTS & CLADDING):

1. CORNER = 7.4, -38.2 PSF 2. EDGE = 7.4, -28.9 PSF 3. INTERIOR = 7.4, -19.6 PSF

1. EDGE = 19.1, -24.1 PSF 2. INTERIOR = 19.1, -21.0 PSF

#### STATEMENT OF SPECIAL INSPECTIONS

B. RISK CATERGORY, Iw = 1.0

C. EXPOSURE = "C"

A. ROOF

B. WALL

- SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PRIMARY BUILDING FRAME / MAIN FORCE RESISTING SYSTEM PER THE LATEST EDITION OF THE IBC.
- REFER TO THE IBC FOR ADDITIONAL INFORMATION RELATED TO THESE TABLES.
- INSPECTIONS AND TESTING SHALL BE PROVIDED BY A QUALIFIED TESTING LABORATORY, RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER OF RECORD.
- REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECT, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTOR PRIOR TO THE FINAL INSPECTION.

SOILS		
IBC TABLE 1705.6		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	•	Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х

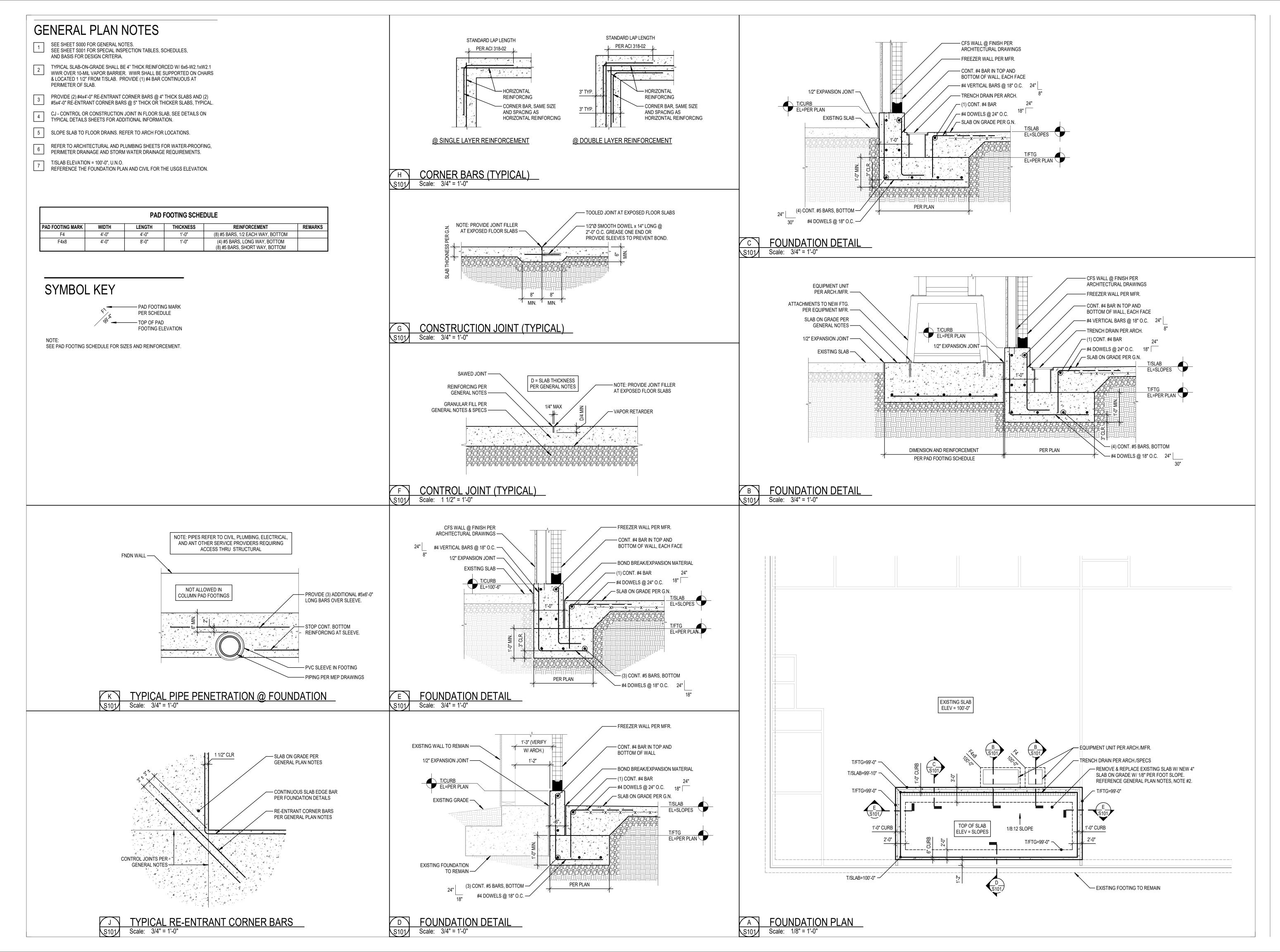
CONCRETE CONSTRUCTION		
IBC TABLE 1705.3		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	-	Х
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	Х
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	-	Х
C. INSPECT ALL OTHER WELDS.	Х	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	Х
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED	Х	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	Х
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	Х
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х





PROJECT NO: 23-0336 SHEET TITLE

SCHEDULES, SPECIAL INSPECTIONS, \_\_\_& B.F.D.\_\_



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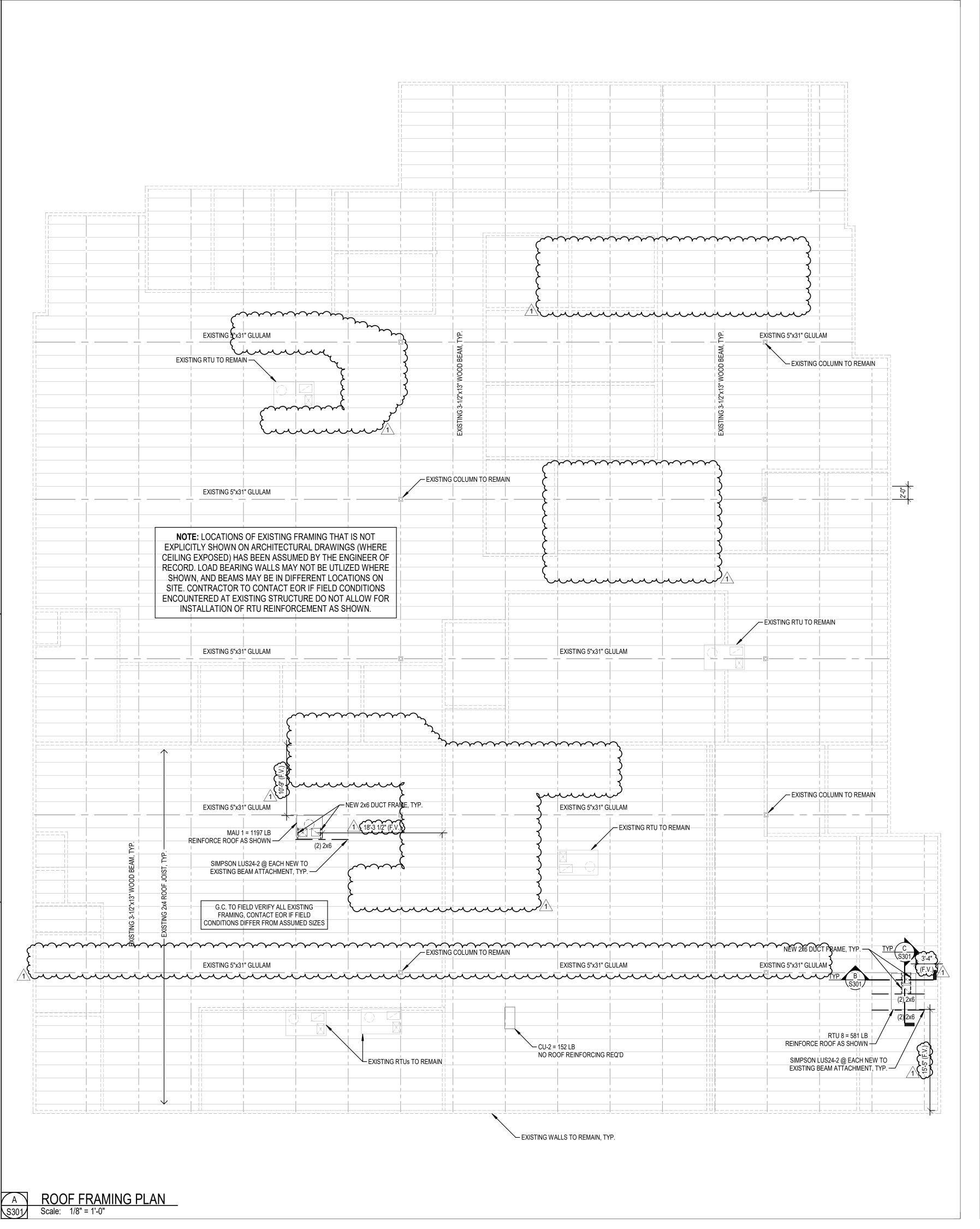
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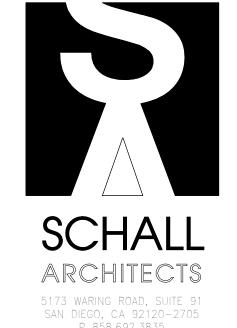
PROJECT NO:
23-0336

SHEET TITLE

FOUNDATION
PLAN &
TYPICAL
DETAILS
SHEET NO:

S101





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PROJECT NO: 23-0336

SHEET TITLE

ROOF

ROOF FRAMING PLAN

SHEET NO:

S301

### GREEN BUILDING CODE NOTES

- THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992 SHALL BE USED. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN SECTION: 5.504.1)
- AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SECTION: 5.504.3)
- IN MECHANICAL VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SECTION: 5.504.5.3). INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.
- EXCEPTION TO CAL GREEN SECTION: 5.504.5.3: 1- AN ASHRAE 10% TO 15-% EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2022 AT DESIGN AIRFLOW. 2- EXISTING MECHANICAL SYSTEM.
- WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITH IN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS. (CAL GREEN SECTION: 5.504.7)
- FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS OF VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. (CAL GREEN SECTION: 5.506.1)
- FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CALIFORNIA ENERGY CODE SECTION 120(C)(4). (CAL GREEN SECTIONS: 5.506.2)
- INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS (SECTION: 5.508.1)
- IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE. BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS. THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS, OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS.
- 10. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, OTHER RELATED REGULATIONS, AND CGBSC 5.410.4.5
- SYSTEMS REQUIRING TESTING AND ADJUSTING: XXX. CONDUCT START-UP PROCEDURES FOR EACH PIECE OF EQUIPMENT PER THE MANUFACTURERS THESE SERVICES IN ACCORDANCE WITH CBGSC 5.410.4.4.
- INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY (SEC 5.401.4.5.1).

# **DUCT INSULATION NOTES**

ALL DUCTWORK (INCLUDING FLEXTAILS AND FLEXIBLE DUCTWORK SHALL BE INSULATED CONSISTENT WITH 2022 CEC AND AS FOLLOWS:

-DUCTWORK EXPOSED WITHIN THE CONDITIONED SPACE (I.E. NO CEILING, EXPOSED TO STRUCTURE) - NO INSULATION REQUIRED

-DUCTWORK INSTALLED ABOVE AN UNINSULATED CEILING AND BELOW AN INSULATED ROOF OR FLOOR ABOVE (AND WITH NO VENT OPENINGS TO THE EXTERIOR) - R-4.2

-DUCTWORK INSTALLED EXPOSED TO WEATHER OR INSTALLED ABOVE AN INSULATED CEILING/BELOW AN UNINSULATED ROOF OR INSTALLED WHERE VENTS ALLOW OUTSIDE AIR TO REACH DUCT SURFACE - R-8.0.

# DIFFUSER AND REGISTER SCHEDULE

		ט ו ווע	SER AND	REGIO	STER SCHEDULE
TAG	MANUFACTURER & MODEL	SERVICE	CFM RANGE	SIZE (NECK)	REMARKS
А	TITUS PCS	CEILING SUPPLY AIR	0-100	6"Ø	USE -NT BORDER WITH FINELINE GRID CEILING SYSTEMS (TYPICAL FOR ALL)
А	TITUS PCS	CEILING SUPPLY AIR	100-240	8"Ø	
А	TITUS PCS	CEILING SUPPLY AIR	240 - 400	10"Ø	
А	TITUS PCS	CEILING SUPPLY AIR	400 - 550	12"Ø	
А	TITUS PCS	CEILING SUPPLY AIR	550 - 740	14"Ø	
А	TITUS PCS	CEILING SUPPLY AIR	740 - 950	16"Ø	
В	TITUS PAR	CEILING RETURN AIR	0-100	6"Ø	USE -NT BORDER WITH FINELINE GRID CEILING SYSTEMS (TYPICAL FOR ALL)
В	TITUS PAR	CEILING RETURN AIR	100 -210	8"Ø	
В	TITUS PAR	CEILING RETURN AIR	210 - 330	10"Ø	
В	TITUS PAR	CEILING RETURN AIR	330 - 450	12"Ø	
В	TITUS PAR	CEILING RETURN AIR	450 - 650	14"Ø	
В	TITUS PAR	CEILING RETURN AIR	650 - 840	16"Ø	
С	TITUS PAR	CEILING SUPPLY AIR	< 900	16"Ø	SERVER ROOM SUPPLY ONLY
D	TITUS FL-20-1 SLOT	LINEAR SUPPLY AIR	90 CFM/LF	12"Ø	BORDER TYPE 22
E	EXISTING TO REMAIN	CEILING AIR DISTRIBUTION	-	-	
R	RELOCATED EXISITNG	CEILING AIR DISTRIBUTION	-	-	

NOTE: DIFFUSERS SHALL BE SIZED AT A MAX NC OF 30. ANY DIFFUSERS LOCATED IN AREAS OF HIGH HUMIDITY SHALL BE OF ALUMINUM CONSTRUCTION. DIFFUSER FRAME SHALL MATCH CEILING GRID. SEE ARCHITECTURAL PLANS. CONFERENCE ROOM RETURN DIFFUSERS SHALL HAVE SOUND BOOTS.

FOR TESTING AREAS PROVIDE RETURNS WITH FILTER CHANGE THRU FACE.

# MECHANICAL PLAN CHECK NOTES

- ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 OF THE STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD (E.E.S).
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2022 C.M.C.
- ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4 AND 120.7 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF THE CMC.
- DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION
- REQUIREMENTS PER SECTION 110.6 AND 110.7 E.E.S ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5 & 120.1-120.4 TITLE 24 ENERGY STANDARDS
- INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 EES.
- ALL HVAC SYSTEMS SHALL MEET THE VENTILATION REQUIREMENTS PER SECTION 120.1 E.E.S. FOR AIR HANDLERS MOVING GREATER THAN 1800 CFM PROVIDE AUTOMATIC DAMPERS INTERLOCKED & CLOSED ON FAN SHUT DOWN. ON GRAVITY VENTILATION EITHER AUTOMATIC OR ACCESSIBLE, MANUALLY OPERATED DAMPERS SHALL BE INSTALLED WITH AIR OPENINGS TO THE OUTSIDE, OTHER THAN COMBUSTION AIR OPENINGS. AREA SEPARATION WALLS:
- A.1. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY. FIRE STOPPING SHALL BE 2022 C.B.C., SECTION 4304 (E).
- A.2. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING
- SYSTEMS EXCEEDING 2000 CFM PER SECTION 608.0 CMC. HVAC SYSTEMS SERVING A SPACE WITH OVER 2,000 CFM SHALL CONFORM TO
- CMC SECTION 608.1 SHUTOFF FOR SMOKE CONTROL. REFERENCE "AIR MOVING SYSTEM" DEFINITION IN UMC SECTION 203.
- 10. A WATER TIGHT PAN OF CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BENEATH HVAC UNITS PER SECTION 309.2 CMC
- 11. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
- ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.
- | 13. WATER HEATER (WH-1) IS A LISTED, NON-STORAGE, INSTANTANEOUS HEATER HAVING AN INSIDE DIAMETER OF NOT MORE THAN 3 INCHES. 14. CALIFORNIA MECHANICAL CODE 2022 (CMC 2022), CALIFORNIA PLUMBING CODE 2022 (CPC 2022) AND 2022 TITLE 24 ENERGY STANDARDS ARE THE CURRENT
- CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT. EXHAUST DUCTS UNDER POSITIVE PRESSURE SHALL NOT EXTEND INTO OR THROUGH DUCTS OR PLENUMS PER SECTIONS 504.1 & 602.1 CMC.
- 16. MATERIALS EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITI SECTION 602.2 CMC."

# MECHANICAL GENERAL NOTES

- ALL BRANCH DUCTS TO HAVE BALANCE DAMPERS WITH QUADRANT LOCKS ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- FACTORY-MADE FLEXIBLE AIR DUCTS AND CONENCTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC. MINIMUM BEND RADIUS SHALL BE TWICE DUCT DIAMETER
- 4. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH C.M.C. LATEST EDITION, SECTIONS 601 THROUGH 604 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS
- 5. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) LATEST EDITION TABLE 2-53B, THE STATE MECHANICAL CODE PART 4, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE AND THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) SECTION 605. SEE SPECIFICATIONS FOR MINIMUM THICKNESS AND TYPE. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC.
- 6. THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
- 7. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS. 8. GENERAL CONTRACTOR SHALL UNDERCUT DOORS SHOWN 1" TO PROVIDE TRANSFER AIR FLOW.
- 9. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION WITH REFLECTED CEILING PLAN, I.E. LIGHTS, SPEAKERS, TILES, AND SPRINKLER HEADS.
- 10. FIRE/SMOKE DAMPERS: REVIEW BOTH THE MECHANICAL AND ARCHITECTURAL PLANS FOR FIRE/SMOKE DAMPER REQUIREMENTS. FIRE/SMOKE DAMPERS SHALL BE INSTALLED AND BE READILY ACCESSIBLE FOR SERVICING IN THE LOCATIONS LISTED IN THE C.B.C., SECTION 713 AND SHALL BE IN ACCORDANCE WITH C.M.C., SECTION 606.
- 11. FIRE/SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

# SHEET INDEX

M001	MECHANICAL TITLE SHEET	
M002	MECHANICAL SCHEDULES	
M003	MECHANICAL DETAILS	
M004	MECHANICAL SPECIFICATIONS	
M005	MECHANICAL SPECIFICATIONS	
M006	MECHANICAL TITLE-24	
M007	MECHANICAL TITLE-24	
M008	MECHANICAL ZONING PLAN	
M211	MECHANICAL FLOOR PLAN	
M221	MECHANICAL ROOF PLAN	

	ME	ECHANICAL LEGEND	T
SYMBOL	ABBR.	DESCRIPTION	
$\boxtimes$	C.D.	CEILING DIFFUSER - SUPPLY AIR	
	R.G.	RETURN AIR GRILLE	
	E.G.	EXHAUST AIR GRILLE	
	S.A.	SUPPLY AIR DUCT	
	R.A.	RETURN AIR DUCT	
	E.A.	EXHAUST AIR DUCT	
<b>∠</b> ¶ ⊧		DUCT WITH SOUND INSULATION	
<u></u>	FSD	FIRE SMOKE DAMPER	
<del> </del>	M.V.D.		
† <u>†</u> †	IVI.V.D.	MANUAL VOLUME DAMPER	
† <u>                                    </u>	-	FLEXIBLE DUCT CONNECTION	
	-	CAPPED DUCT OR PIPE	
<b>*************************************</b>	-	FLEXIBLE DUCT WORK	
	-	EXISTING DUCT WORK	
	-	DUCT WORK TRANSITION	
<del>-</del> U/C	U.C.	UNDERCUT DOOR 1"	
$\bigcirc_{X}$	-	THERMOSTAT & EQUIP. MASK NUMBER	
<b>SD</b>	-	SMOKE DETECTOR	
	O.A.	OUTSIDE AIR	
	N.O. N.C.	NORMALLY OPEN NORMALLY CLOSED	
	C.A.	COMBUSTION AIR	
	A.F.F.	ABOVE FINISHED FLOOR	
	U.T.R.	UP THROUGH ROOF	
	W/ U.N.O.	WITH UNLESS NOTED OTHERWISE	
		PIPE TURNED UP	
<del></del>		PIPE TURNED DOWN	
— CWS —	C.W.S.	CONDENSER WATER SUPPLY	
— CWR —	C.W.R.	CONDENSER WATER RETURN	
——————————————————————————————————————	G.V. B.V.	GATE VALVE BALL VALVE	
	C.V.	CONTROL VALVE	
	P.R.V.	PRESSURE REDUCING VALVE	
丛	P.&T.R.V.	PRESSURE & TEMPERATURE RELIEF VALVE	
	CH.V.	CHECK VALVE	
$-\!$	RED.	REDUCER	
<del></del>		STRAINER	
—-   <del>\$</del>	-	UNION	
<u> </u>	-	AIR VENT	
<del></del> _		PRESSURE GAUGE THERMOMETER	
	_	PIPE TEE	
<u> </u>	-	PRESSURE & TEMPERATURE WELL	
•	P.O.C.	POINT OF CONNECTION	
	E	EXISTING	
	R	RELOCATED	
EQUIPN	MENT TYPE	FLOOR NUMBER	

\ 3-1 ≠ FLOOR NUMBER - EQUIPMENT NUMBER

# TITLE - 24 NOTES

NO CHANGES TO EXISTING ENVELOPE. PREVIOUS ENVELOPE COMPLIANCE.

# MECHANICAL SCOPE OF WORK

SECOND GENERATION TENANT IMPROVEMENT PROJECT - NEW DUCT WORK, (1) NEW EXHAUST FANS.(1) SPLIT & (7) NEW ROOFTOP HEAT PUMPS







SAN DIEGO, CA 92120-2705 P 858.692.3835



APRIL 12, 2023  $m{1}ackslash$  July 31, 2023 corrections

PROJECT NO: 2022170

SHEET TITLE **MECHANICAL** TITLE

SHEET

DEDICATED OUTSIDE AIR SYSTEM (HEAT PUMP) SUPPLEMENTAL LEAVING AIR TOTAL COOLING SENS COOLING (DEG F WB) CAPACITY (MBH) CAPACITY (MBH) ELECTRICAL OUTSIDE AIR LEAVING AIR HOT GAS REHEAT TEMPERATURE **RETURN AIR** SUPPLY AIR OUTSIDE AIR LEAVING AIR LEAVING AIR WEIGHT **ELEC HEAT** TAG MANUFACTURER MODEL IEER REMARKS CAPACITY (MBH) (DEG F DB) RISE (DEG F) (DEG F DB) (DEG F WB) CFM CFM (DEG F DB) (DEG F WB) LBS VOLTAGE PHASE MCA MOCP (KW) CAPTIVEAIRE CASRTU1-E.104-13-5T-DOAS 1180 1,200 65.9 460 0 83 70 58.5 57.0 40.0 19.5 53 70.0 62.4 14.4 15

1. INVERTER SCROLL COMPRESSOR, DIRECT DRIVE PLENUM BLOWER, EC MOTOR CONDENSING FANS, ELECTRONIC EXPANSION VALVE, FULLY MODULATING HOT GAS REHEAT, ELECTRIC HEAT IS SECONDARY AND ONLY FUNCTIONS BELOW 42 DEG F, COIL COATING ON CONDENSER AND EVAPORATOR, 2" MERV 8 PREFILTERS, 2" MERV 13 FINAL FILTERS, DOWN DISCHARGE, ROOF CURB. CONTROL SHALL BE INTERLOCKED WITH EF-25. DISCHARGE TEMPERATURE IS BELOW 65 DEG F, 65 % RH WHEN OUTSIDE TEMPERATURE IS ABOVE 70 DEG, WITH A 5 DEG F DEAD BAND.

2. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR UNIT SHUTDOWN.

	NEW AIR COOLED AIR CONDITIONING UNIT SCHEDULE																			
CONDENSING UNIT  AIR HANDLING UNIT																				
TAG	LOCATION	NOMINAL CAPACITY LOCATION (BTU/HR) @ ARI CONDITI			ELECTF		OFFD		MAKE	OPER.	T. 0	SUPPLY	OUTSIDE	EXT. S.P.	ELECTRICAL			MAKE	OPER.	REMARKS
		COOLING	HEATING	MCA	V/P	MAX. FUSE (AMP.)	SEER	HSPF	MAKE MODEL	WT (LBS)	TAG	AIR CFM	AIR CFM	(IN W.G.)	MCA	MAX. FUSE (AMP.)	V/P	MODEL	WT. (LBS)	TILIVIAITIO
CU $2$	ROOF	18,000	18,000	12.8	208/1	15	20.0	10.5	FUJITSU AOU18RLX	152	FC 2	600	15	0.12	1.22	15	208/1	FUJITSU ASU18	40	1
CU 3	ROOF	18,000	18,000	12.8	208/1	15	20.0	10.5	FUJITSU AOU18RLX	152	FC 3	600	0	0.12	1.22	15	208/1	FUJITSU ASU18RLF	40	1
						~~~	~~	\ \ \												

1. NEW UNIT. DUCTLESS FAN COIL AND PROVIDE CONDENSATE DRAIN PUMP WITH 20 FT HEAD CAPACITY.

(2. PROVIDE FAN COIL WITH OSA KNOCK OUT HOLE).

	<u> </u>	I				T		PUMP	UIVI I	1			Ī	T
TAG	MANUFACTURER	MODEL	CFM	OSA CFM	ESP	COOLING CAPACITY (MBH)	SEER	HEATING CAPACITY (MBH)	HSPF	V/P	ECTRICA MCA	MOCP	LBS	REMARKS
RTU 8	CARRIER	50FCQA04A2A5	1200	275	0.5	36.0	14	60.0	8.2	460/3	10	15	581	2 _ 1
RTU 10	CARRIER	50FCQA06A2A6	2000	271	0.5	60.0	14	60.0	8.2	460/3	13	20	698	2, 3, 4
RTU 12	CARRIER	50FCQA04A2A5	1200	90	0.5	36.0	14	36.0	8.2	460/3	10	15	581	2
(RTU)	(E) RHEEM	RJPL-A060	2000	E	E	60.0	Е	E	E	460/3	13	20	Е	1
(RTU)	CARRIER	50FCQM08A2A6	2800	645	0.5	89.0	14	85.0	8.2	460/3	19	20	969	2, 3, 4
RTU 16	(E) RHEEM	RJNL-A060	2000	E	E	60.0	Е	E	E	208/3	26	40	Е	1
RTU 17	(E) CARRIER	50TCQA05A	1600	Е	E	48.0	Е	E	E	460/3	11.2	15	Е	1
\( \frac{\family \text{RTU}}{18} \)	CARRIER	50FCQA05A2A5	1600	160	0.5	48.0	14	48.0	8.2	460/3	11	15	587	2
RTU 19	CARRIER	50FCQM12A2A6	4000	549	0.5	125.0	14	116.0	8.2	460/3	28	30	1119	2, 3 ,4
RTU 21	(E) CARRIER	50TCQA05A	1600	Е	E	48.0	E	E	E	208/3	24	30	E	1
ATU 22	(E) CARRIER	50TCQA05A	1600	E	Е	48.0	Е	E	E	208/3	24	30	Е	1

- 1. EXISTING UNIT TO REMAIN
- 2. REPLACE EXISTING HP NEW UNIT (SAME CAPACITY), PROVIDE NEW ROOF CURB, FILTER RACK, AND NEW THERMOSTAT. PROVIDE MERV-13 FILTERS.
- 3. PROVIDE ECONOMIZER WITH FAULT DETECTION DIAGNOSTIC, 2 STAGE COOLING WITH TWO SPEED INDOOR FAN MOTOR.
- 4. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR UNIT SHUTDOWN. PROVIDED BY MECHANICAL, POWERED BY ELECTRICIAN.

	NEW EXHAUST FAN SCHEDULE														
TAG	MANUFACTURER & MODEL NO.	AREA SERVICED	CFM	ESP (IN. WG)	POWER	V	PH	WT (LB.)	CFM/ SQ FT	REMARKS					
EF 25	TWIN CITY BSV-150-SWSI	136	1200	1.0	1/2HP,1800 RPM	115V	1	166	1.0	1					

<sup>1.</sup> ROOF UTILITY SET EXHAUST FAN, AMCA B SPARK RESISTANT CONSTRUCTION, WITH BACKDRAFT DAMPER. TO BE INTERLOCKED WITH EXHAUST HOOD AND MAKE UP AIR UNIT MAU-1.



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APRIL 12, 2023

JULY 31, 2023 CORRECTIONS

ATTICUES OF SERVE

PROJECT NO: 2022170

SHEET TITLE

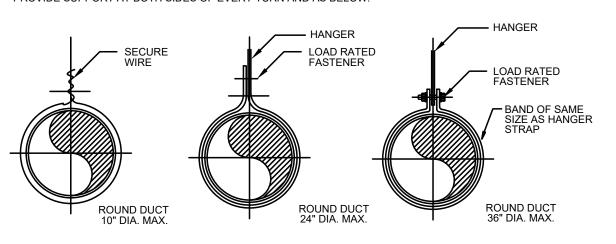
MECHANICAL SCHEDULES

SHEET NO:

M002

UPPER ATTACHMENT:
FOR ATTACHMENT TO 3" PAN DECK WITH 2000 TO 4000 PSI CONCRETE WITH A MIN 3-1/4" THICKNESS, USE THE FOLLOWING UPPER ATTACHMENT: ROUND DUCT UP TO 28"Ø, ATTACH USING HILTI X-U (WASHER) WITH MINIMUM 1.5" EMBEDMENT IN UPPER FLUTE. RECTANGULAR DUCT UP TO P=120", ATTACH USING HILTI X-U (WASHER) WITH MINIMUM 1.5" EMBEDMENT IN UPPER FLUTE. FOLLOW HILTI INSTALLATION INSTRUCTIONS FOR POWDER DRIVEN FASTENERS.

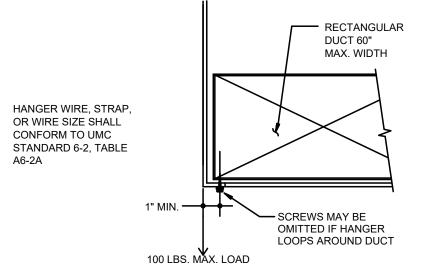
# NOTE: PROVIDE SUPPORT AT BOTH SIDES OF EVERY TURN AND AS BELOW.



ROUND DUCT HANGERS MIN SIZE

DUCT DIA. (IN)	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
10	12 FT	ONE 12 GA	1/4"	1" x 22 GA.
11 - 18	12 FT	TWO 12 GA OR ONE 8 GA	1/4"	1" x 22 GA.
19 - 24	12 FT	TWO 10 GA	1/4"	1" x 22 GA.
25 - 36	12 FT	TWO 8 GA	TWO 3/8"	1" x 20 GA.
37 - 50	12 FT	-	TWO 3/8"	TWO 1" X 20 GA
51 - 60	12 FT	-	TWO 3/8"	TWO 1" X 18 GA

FOR STANDARD WEIGHT AND GUAGE DUCT.

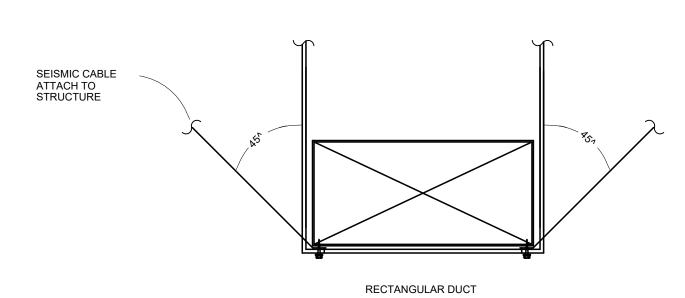


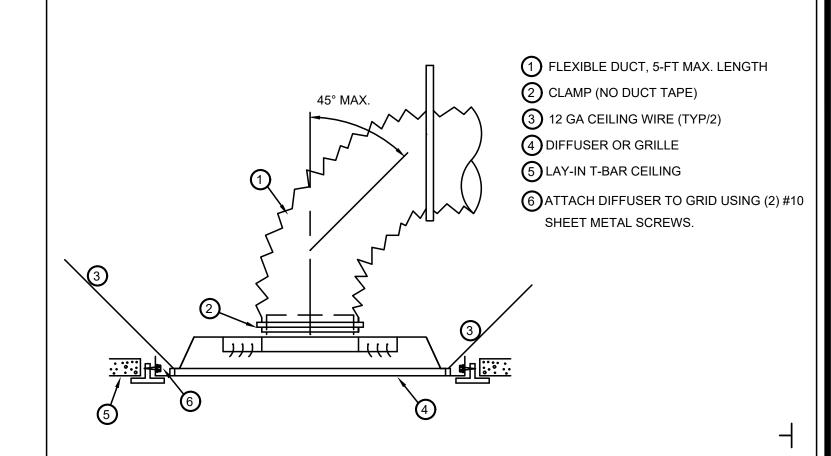
RECTANGULAR DUCT HANGERS MIN SIZE

MAXIMUM	PAIR AT 10 FT.	SPACING	PAIR AT 8 FT. S	PACING	PAIR AT 5 FT. S	PACING	PAIR AT 4 FT.	SPACING
HALF OF DUCT PERIMETER	STRAP	WIRE/ ROD	STRAP	WIRE/ ROD	STRAP	WIRE/ ROD	STRAP	WIRE/ ROD
P =30"	1" x 22 GA.	10 GA. (.135")	1" x 22 GA.	10 GA. (.135")	1" x 22 GA.	12 GA. (.106")	1" x 22 GA.	12 GA. (.106")
P =72"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"	1" x 22 GA.	1/4"	1" x 22 GA.	1/4"
<u>P</u> =96"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 20 GA.	3/8"	1" x 22 GA.	1/4"
<u>P</u> =120"	1\" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"	1" x 20 GA.	1/4"
<u>P</u> =168"	1\" x 16 GA.	1/2"	1\" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 18 GA.	3/8"
<u>P</u> =192"	NOT GIVEN	1/2"	1\" x 16 GA.	1/2"	1" x 16 GA.	3/8"	1" x 16 GA.	3/8"
	1				1	1	I	

WHEN STRAPS ARE LAP JOINED USE: 1" X 18, 20, 22 GA - TWO #10 OR ONE 1/4" BOLT 1" X 16 GA - TWO 1/4" DIA., 1-1/2" X 16 GA - TWO 3/8" DIA. PLACE FASTENERS IN SERIES. FOR STANDARD WEIGHT AND GA DUCT.

HANGER, RODS OR STRAP ATTACH TO STRUCTURE TYP ROUND DUCT





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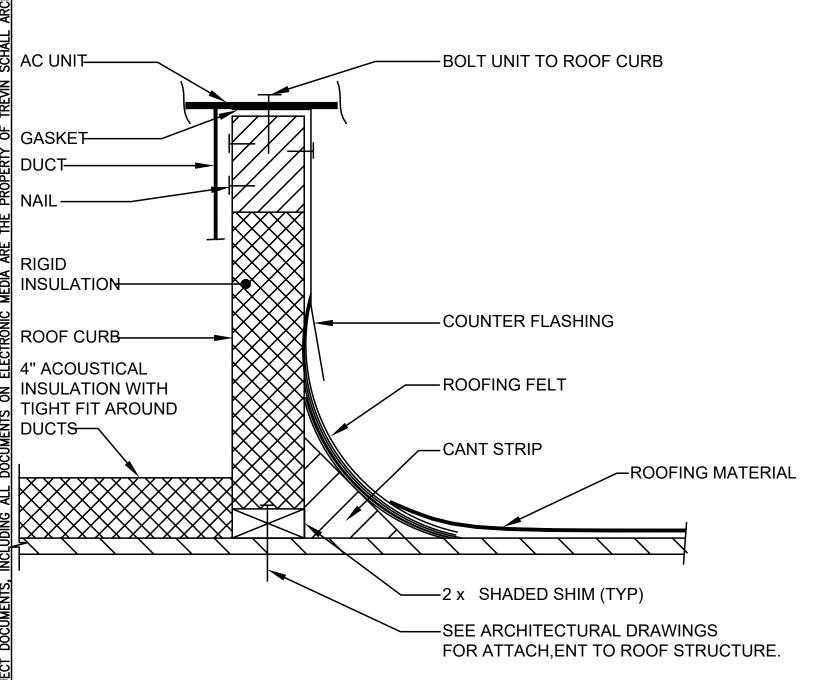




APRIL 12, 2023  $m{1}ackslash$  July 31, 2023 corrections

A/C UNIT MOUNTING DETAIL

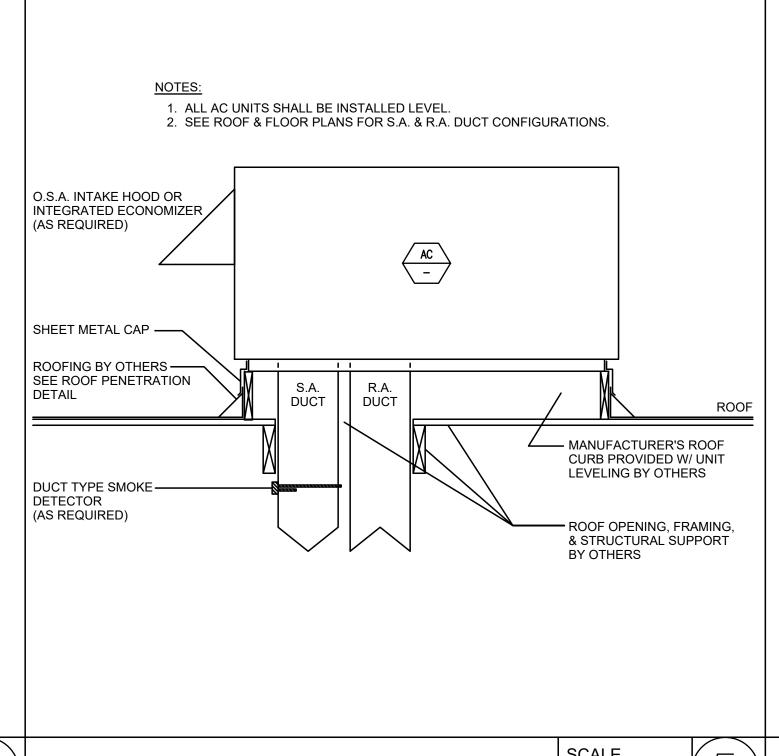
CEILING DIFFUSER DETAIL DUCT SUPPORT DETAIL



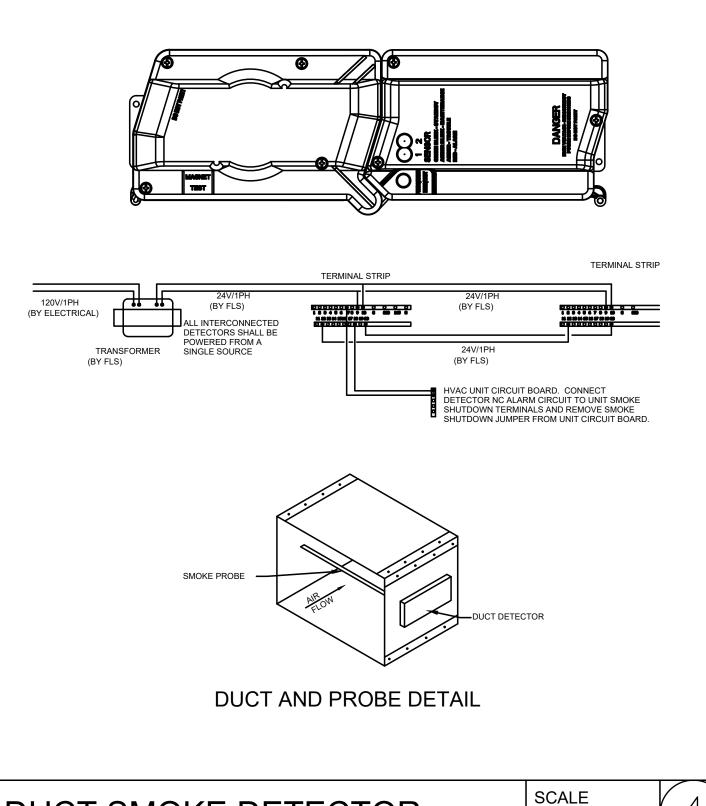
SCALE

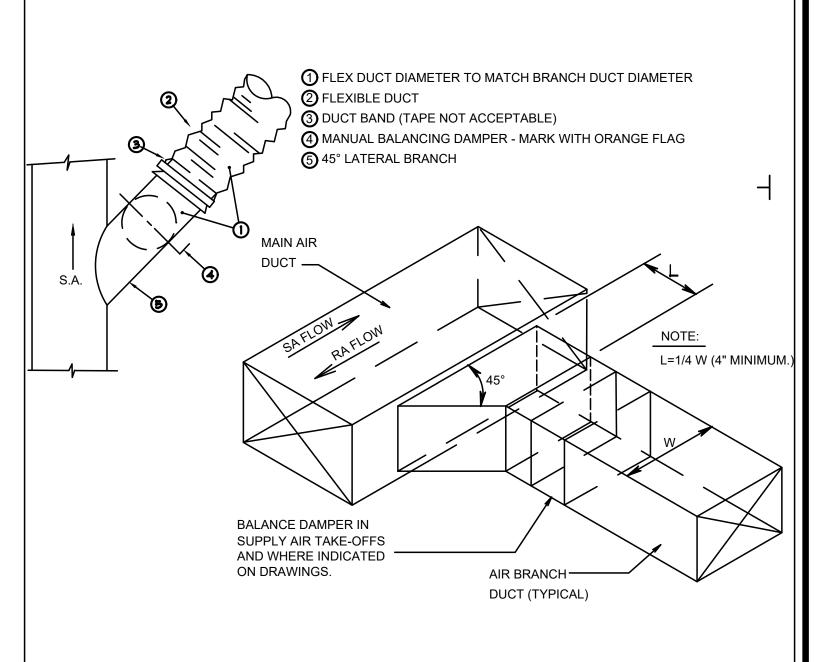
NONE

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NONE





SCALE DUCT SMOKE DETECTOR NONE

DUCT TAKEOFF DETAIL

SCALE NONE

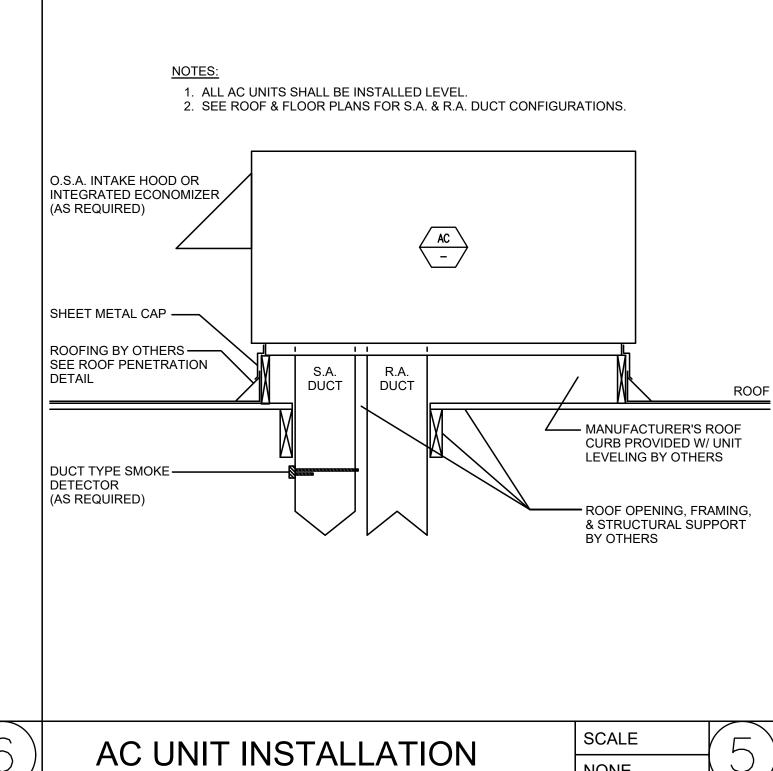
> PROJECT NO: 2022170 SHEET TITLE

**MECHANICAL DETAILS** 

SHEET NO:

M003

ENGINEERING



INC. www.plumengineering.com T 858-672-2100

GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS AND OTHER

#### B. SUMMARY OF WORK

- 1. THE WORK INCLUDED CONSISTS OF FURNISHING LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION A COMPLETE AND OPERATBLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SPECIFIED AND SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO: HVAC UNITS, EXHAUST FANS, DUCTLESS SPLIT-SYSTEMS, DUCTWORK, AIR DISTRIBUTION, CONTROLS AND ACCESSORIES, EXCEPT AS OTHERWISE NOTED.
- C. REGULATIONS, CODES, PERMITS AND INSPECTIONS

RELATED PORTIONS OF DIVISION 1 APPLY TO THIS SECTION

- COMPLY WITH NATIONAL, STATE, COUNTY, AND CITY CODEES, ORDINANCES, ETC., HAVING JURISDICTION. THIS INCLUDES RULES AND REQUIREMENTS OF UTILITY SERVING AGENCIES.
- 2. INCORPORATED CODES, ORDINANCES, ETC., INTO THE BASE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENTS OR TO OBTAIN APPROVAL OF WORK.
- 3. OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE. WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.
- 4. IN ADDITION, THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND PUBLISHED STANDARDS SHALL BE ADHERED TO:
- 2022 CALIFORNIA BUILDING CODE (CBC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC)
- NFPA STANDARDS
- ASHRAE HANDBOOKS
- SMACNA DUCT CONSTRUCTION STANDARDS
- 2022 CALIFORNIA PLUMBING CODE (CPC) 2022 CALIFORNIA ELECTRIC CODE (CEC)
- 2022 CALGREEN
- 2022 CALIFORNIA ENERGY CODE

#### D. DESIGN DRAWINGS

- DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. PROVIDE LABOR, MATERIAL, ETC., NECESSARY TO ACCOMPLISH THESE REQUIREMENTS. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED A PARK OF THE WORK INCLUDED. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE PERMITTED. DO NOT SCALE THE DESIGN DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- 2. IF A CONFLICT OCCURS BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE ARCHITECT AND/OR ENGINEER. AT THAT POINT, AND INTERPRETATION WILL BE MADE BY THE ARCHITECT AND/OR ENGINEER AND SAID DECISION SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
- E. QUALIFICATIONS OF CONTRACTOR AND WORKMEN
- CONTRACTOR SHALL BE PROPERLY LICENSED TO PERFORM THE WORK.
- 2. USE SUFFICINET JOUNRYMEN, CRAFTSMEN AND SUPERVISORS TO ENSURE PROMPT, PROPER AND SAFE EXECUTION.
- F. BASE BID
- BASE BID SHALL INCLUDE MATERIALS AND EQUIPMENT SPECIFIED OR SCHEDULED ON THE DRAWINGS. REQUESTS FOR SUBSTITUTION OF MATERIALS AND EQUIPMENT SHALL BE BY ADDITIVE OR DEDUCTIVE ALTERNATE BID ONLY. THE FOLLOWING DATA MUST BE CLEARLY WRITTEN AT THE BEGINNING OF THE ALTERNATE PROPOSAL:
- A. ADDITIVE OR DEDUCTIVE AMOUNT CLEARLY WRITTEN IN WORDS AND NUMERALS.
- INCREASED OR REDUCED CONSTRUCTION TIME IN DAYS.
- C. OTHER DEMONSTRABLE BENEFIT, FOR WHICH THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTEREST.
- 2. ONLY THOSE MATERIALS AND EQUIPMENT WHICH ARE SUBMITTED AS AN ALTERNATE BID, WHICH ARE ACCOMPANIED BY THE SUPPORTING DATA INDICATED BELOW WILL BE REVIEWED AND CONSIDERED.
- G. SUBSTITUTIONS
- MATERIALS AND EQUIPMENT THAT ARE A SUBSTITUTE FROM THE LISTED MANUFACTURER MAY BE CONSIDERED. PRIOR TO PROPOSING ANY SUBSTITUTE ITEM, CONTRACTOR SHALL SATISFY HIMSELF THAT THE ITEM PROPOSED IS, IN FACT, EQUAL TO THAT SPECIFIED, THAT SUCH ITEM WILL FIT INTO THE SPACE ALLOCATED, THAT SUCH ITEM AFFORDS COMPARABLE EASE FOR OPERATION, MAINTENANCE AND SERVE, THAT THE APPEARANCE, LONGEVITY, CAPACITY, SUITABILITY, AND ELECTRICAL CHARACTERISTICS ARE COMPARABLE, THAT BY REASON OF COST SAVINGS, REDUCED CONSTRUCTION TIME, OR SIMILAR DEMONSTRABLE BENEFIT. THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTERESTS.
- 2. THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT HIS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERITS OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME, MODEL NUMBER, OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY AND ECONOMY TO THAT SPECIFIED.
- 3. APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT. CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPOSED SUBSTITUTION, INCLUDING BUT NOT LIMITED TO STRUCTURAL, ELECTRICAL, PLUMBING, AND ACCESS REQUIREMENTS.
- 4. IF ENGINEER REJECTS CONTRACTOR'S SUBSTITUTE ITEM ON THE FIRST SUBMITTAL. CONTRACTOR MAY MAKE ONLY ONE ADDITION REQUEST FOR SUBSTITUTION IN THE SAME

- 5. ANY EQUIPMENT SUBSTITUTED WITHOUT THE ENGINEER'S WRITTEN APPROVAL WILL BE REMOVED AND REPLACED WITH THE SPECIFIED EQUIPMENT AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- H. SUBMITTALS

CATEGORY.

- EQUIPMENT AND MATERIALS:
- A. CONTRACTOR SHALL HAVE APPROVED SUBMITTALS PRIOR TO FABRICATION OR DELIVERY OF ANY MATERIAL AND/OR EQUIPMENT TO THE JOB SITE. SUBMIT A MINIMUM OF 8 (EIGHT) COPIES, COMPREHENSIVELY INDEXED SUBMITTALS IN A 3-RING BINDER, COMPLETELY DESCRIBING EACH MAJOR SYSTEM, MATERIAL AND EQUIPMENT PROPOSED TO BE USED. ANY PIECE OF EQUIPMENT PLACED ON THE JOB WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REMOVAL AT THE SOLE EXPENSE OF THE CONTRACTOR.
- B. SUBMITTALS ARE FOR INFORMATION AND COORDINATION ONLY. REVIEW OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF THE NON-COMPLIANCE. SUBMITTALS SHALL CLEARLY STATE WHERE EQUIPMENT DOES NOT AGREE WITH THE CONTRACT DOCUMENTS.
- C. SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. INDICATE EQUIPMENT LAYOUTS ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATIONS OF PIPING, DUCT, CONDUITS, AND OTHER CONNECTION SIZES AND LOCATIONS.
- SHOP DRAWINGS:

CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED 1/4"=1'-0" SCALE DRAWINGS THAT HAVE BEEN PROPERLY COORDINATED WITH OTHER TRADES. INDICATE EQUIPMENT LAYOUTS, ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATION OF PIPING, DUCTS, CONDUITS, AND OTHER ITEMS WHICH EFFECT THE SPACE AVAILABLE. SUBMIT ITEMS AT ONE TIME IN A NEAT AND ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT. PARTIAL LIST WILL NOT BE ACCEPTABLE. SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. SUBMITTALS SHALL BE INDEXED AND SECURELY BOUND IN A SUITABLE MANNER. SUBMIT THE FOLLOWING ITEMS FOR APPROVAL: 1) CLEANOUTS

2) PIPING AND FITTINGS 3) VALVES

AS BUILT DRAWINGS:

MAINTAIN ACCURATE RECORDS OF ANY CHANGES FROM THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. UPON COMPLETION OF THE PROJECT, DELIVER TO THE ENGINEER 1 (ONE) SET OF LEGIBLE REPRODUCIBLES AND 3 (THREE) BLUELINE SETS OF THESE RECORD DRAWINGS.

UNLESS SPECIFIED OTHERWISE BY ARCHITECT, ENGINEER, OWNER OR OWNER'S REPRESENTATIVE, UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A WRITTEN 1 (ONE) YEAR WARRANTY ON THE SYSTEMS, MATERIALS AND ALL WORK PERFORMED. THIS INCLUDES THE ENTIRE COST, INCLUDING MATERIALS AND/OR LABOR, OF CORRECTIVE WORK REQUIRED AND NECESSITATED BY DEFECTS IN MATERIALS AND/OR WORKMANSHIP. CONTRACTOR SHALL ALSO PRESENT THE OWNER WITH A COPY OF ALL MANUFACTURER'S WARRANTIES THAT EXCEED THE WARRANTY PERIOD, SUCH AS AC UNIT COMPRESSORS.

5. OPERATION AND MAINTENANCE INSTRUCTIONS:

UPON THE COMPLETION OF THE PROJECT, DELIVER TO THE OWNER THE REQUIRED NUMBER OF COPIES OF HARD BOUND 0 & W MANUALS. INCLUDE IN THE MANUAL INSTRUCTIONS PREPARED SPECIFICALLY FOR THE SYSTEMS PROVIDED. ALONG WITH DESCRIPTIONS. PARTS LIST, INSTRUCTIONS, AND WARRANTIES, START-UP REPORTS FOR ALL EQUIPMENT WILL BE DELIVERED WITH THE MATERIALS AND EQUIPMENT UTILIZED IN THE PROJECT IDENTIFY EACH ITEM BY THE DESIGNATION APPEARING ON THE DRAWINGS.

6. OWNER TRAINING:

AT A TIME DESIGNATED BY THE OWNER, PROVIDE A SUITABLE TECHNICIAN, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS WITH OWNER'S REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WITH THE OPERATIONS AND MAINTENANCE OF THE SYSTEMS. UP TO 8 (EIGHT) HOURS TOTAL TRAINING TIME SHALL BE REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO TRAINING THE OWNER SHALL HAVE TAKEN POSSESSION OF THE O & M MANUALS, AND SHALL HAVE HAD A REASONABLE AMOUNT OF TIME FOR THE PERSONNEL TO FAMILIARIZE THEMSELVES WITH THE CONTENTS OF THE MANUALS.

#### PART II - PRODUCTS

- A. GENERAL PRODUCTS
- SEISMIC RESTRAINTS:
- A. WHERE REQUIRED BY THE BUILDING OFFICIALS/BUILDING CODES, FURNISH AND INSTALL SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, AND EQUIPMENT. SEISMIC RESTRAINTS SHALL BE DESIGNED TO RESIST SEISMIC FORCES PRESCRIBED IN THE BUILDING CODES FOR THE PROJECT LOCATION.
- WHERE REQUIRED BY THE BUILDING OFFICIAL, PROVIDE STRUCTURAL CALCULATIONS SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER.
- C. REFERENCE THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR GUIDELINES.
- 2. FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. SEE LIST OF ACCEPTABLE MANUFACTURERS ELSEWHERE IN THESE SPECIFICATIONS. MAKE NO EQUIPMENT SUBSTITUTIONS THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICING SPACE. REFER TO "SUBSTITUTIONS" SECTION OF THE SPECIFICATION.
- 3. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, VIBRATION ISOLATORS, ETC. MOTOR STARTERS FOR PREWIRED EQUIPMENT AND OTHER PROTECTION AND CONTROL DEVICES ARE TO BE FURNISHED UNDER THE MECHANICAL CONTRACTOR'S SCORE OF WORK. STARTERS FOR NON-PREWIRED EQUIPMENT, I.E., FANS, PUMPS, ETC, ARE UNDER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK, UNLESS NOTED OTHERWISE.
- 4. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED, THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS AND ELSEWHERE IN THESE SPECIFICATIONS. LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF THE PRODUCTS OF THOSE MANUFACTURERS.
- B. AIR CONDITIONING UNITS

 FURNISH AND INSTALL HEATING/COOLING UNITS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH HERMETICALLY SEALED COMPRESSOR WITH HIGH AND LOW PRESSURE CUT-OFFS, COILS, HEATING SECTION, BLOWERS, NECESSARY REFRIGERANT PIPING INSULATED COMPRESSOR COMPARTMENT, AIR COOLED CONDENSER, CONDENSER BLOWER OR FAN, AUTOMATIC CONTROLS, CONTROL PANEL WITH STARTERS, RELAYS, ETC. FOR SINGLE POINT POWER CONNECTION, WITHIN A WEATHERPROOF, INSULATED DECORATIVE CASING. UNITS SHALL BE FURNISHED WITH ONE (1) CONSTRUCTION SET OF FILTERS, INSTALLED PRIOR TO START-UP. REPLACE FILTERS AT SUBSTANTIAL COMPLETION BEFORE TEST AND BALANCE ACTIVITIES COMMENCE. FURNISH ONE COMPLETE SET OF SPARE FILTERS TO OWNER. FURNISH ONE COMPLETE SET OF BELTS.

- 2. UNITS SHALL BE COMPLETELY FACTORY WIRED FOR TERMINAL CONNECTIONS OF THERMOSTAT WITH FAN-AUTO /MANUAL SWITCH AND A SYSTEM HEAT/OFF/COOL/AUTO SWITCH. UNITS SHALL BE INSTALLED IN STRUCT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, COMPLETE WITH ALL SCHEDULED AND NECESSARY ACCESSORIES FOR EFFICIENT AND PROPER OPERATION.
- C. EXHAUST FANS AND VENTS
- FURNISH AND INSTALL DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FANS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH ALUMINUM HOUSING, BACKWARD INCLINED WHEEL. ALUMINUM CURB CAP WITH PREPUNCHED MOUNTING HOLES. BIRDSCREEN, BALL BEARING MOTORS, SLEEVE BEARING MOTORS, MOTOR ISOLATED ON SHOCK MOUNTS, CORROSION RESISTANT FASTENERS, ETC.
- 2. FURNISH AND INSTALL BELT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FANS WITH CAPACITIES AS SCHEDULED. UNITS SHALL BE COMPLETE WITH ALUMINUM HOUSING, BACKWARD INCLINED ALUMINUM WHEEL, MOTOR AND DRIVES ISOLATED ON SHOCK MOUNTS, DRAIN TROUGH, ADJUSTABLE MOTOR PULLEY, ADJUSTABLE MOTOR PLATE, FAN SHAFT MOUNTED IN BALL BEARING PILLOW BLOCKS, BEARINGS THAT MEET OR EXCEED TEMPERATURE RATING OF FAN, STATIC RESISTANT BELTS, CURB CAP WITH PREPUNCHED MOUNTING HOLES, BALL BEARING MOTORS, CORROSION RESISTANT FASTENERS, ETC.
- 3. UNITS SHALL BE COMPLETELY FACTORY WIRED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, COMPLETE WITH ALL SCHEDULED AND NECESSARY ACCESSORIES FOR EFFICIENT AND PROPER OPERATION.
- D. DUCTWORK
- PROVIDE A COMPLETE SYSTEM OF DUCTWORK FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST VERSIONS OF THE ASHRAE FUNDAMENTALS HANDBOOK AND SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SYSTEM SHALL BE CONSTRUCTED AS REPRESENTED ON THESE DRAWINGS AND AS COORDINATED IN DETAIL ON THE APPROVED DUCTWORK SHOP DRAWINGS. IF ADDITIONAL CHANGES IN DUCT ARRANGEMENT OR IN DUCT SIZES ARE REQUIRED, THEY SHALL BE MADE ONLY AFTER WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
- 2. MAIN AND BRANCH DUCTS SHALL BE RECTANGULAR, ROUND, OR FLAT-OVAL, AND SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS NOTED OTHERWISE. DUCT SIZES SHOWN ON THE DRAWINGS ARE NET OPENINGS AND SHALL BE INCREASED TO ACCOMMODATE DUCT LINING WHERE APPLICABLE.
- 3. FLEXIBLE DUCT SHOWN AT CONNECTION TO AIR DISTRIBUTION DEVICES SHALL BE A FABRICATED ASSEMBLY WITH AN ACOUSTICALLY-RATED CORE CONSISTING OF AN INNER SLEEVE, 2-INCH THICK FIBERGLASS INSULATION, WITH AN R-6.0 MINIMUM AND AN OUTER VAPOR BARRIER COVERING EQUAL TO THERMAFLEX M-KE.
- 4. WHETHER SHOWN ON PLANS OR NOT. PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH SUPPLY DIFFUSER OR REGISTER, RETURN AND EXHAUST GRILLE AND ALSO AS REQUIRED FOR A PROPERLY BALANCED SYSTEM. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD CEILINGS.
- 5. VOLUME DAMPERS FOR RECTANGULAR DUCTS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL. BE OF THE OPPOSED BLADE TYPE AND BE FURNISHED WITH LOCKING AND INDICATING QUADRANTS. DAMPERS FOR ROUND DUCTS SHALL BE SINGLE-BLADE TYPE UP TO 30" DIA. USE CONTINUOUS ROD ON 2" W.G. CLASS DAMPERS FROM 12-28" DIA., AND RECTANGULAR DUCTS FROM 18"-48" WIDE.
- 6. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF ROUND SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW:
- CONICAL TEE
- CONICAL SADDLE TAP
- ELBOW (IF LAST FITTING) 45" TEE OR SADDLE TAP
- 7. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF

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A. COLLAR (CONICAL) B. COLLAR (STRAIGHT, ONLY WHEN SHOWN ON DRAWINGS)

METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW:

- DOVETAILED CUTOFFS ARE NOT ACCEPTABLE. DUCT TAPE OR OTHER PRESSURE SENSITIVE TAPES ARE NOT ACCEPTABLE.
- 9. TAPS IN SECTIONS OF ROUND FACTORY-MADE FLEXIBLE AIR DUCTS (WHEN ALLOWED) SHALL BE MADE BY INSERTING, IN THE FLEXIBLE DUCT SECTION, ANY OF THE SHEET METAL FITTINGS LISTED BELOW:
- A. 90 DEGREE CONICAL STRAIGHT TEE 45 DEGREE STRAIGHT LATERAL
- 45 DEGREE STRAIGHT LATERAL WITH 45 DEGREE ELBOW
- 45 DEGREE STRAIGHT LATERAL CROSS
- Y BRANCH WITH 45 DEGREE ELBOW

#### E. DUCT INSULATION

- THERMAL INSULATION:
- A. CONCEALED SUPPLY DUCTS AND RETURN DUCTS ABOVE CEILING OR IN FURRED SPACES SHALL BE THERMALLY INSULATED.
- B. THERMAL INSULATION SHALL BE FLEXIBLE BLANKET GLASS FIBER INSULATION WITH FACTORY APPLIED FLAME RETARDANT, FOIL-SCRIM-KRAFT VAPOR BARRIER (FSK), MAXIMUM K OF 0.30 AT 75 DEGREES F MEAN TEMPERATURE MINIMUM .75 POUND DENSITY. INSULATION
- C. INSULATION SHALL BE APPLIED OVER SURFACES WITH HAVE BEEN WIPED CLEAN AND DRY AND SHALL HAVE 3-INCH MINIMUM OVERLAP ON BOTH LONGITUDINAL AND TRANSVERSE
- D. SUPPLY AND RETURN DUCTS LOCATED OUTSIDE SHALL BE LINED WITH 2" ACOUSTICAL LINER AND SEALED WATER TIGHT, OR INSULATED EXTERNALLY WITH 2" RIGID BOARD AND ALUMINUM LAGGING SEALED WATER TIGHT.

#### F. AIR FILTERS

- REPLACEABLE (THROWAWAY) PANEL FILTERS:
- A. PROVIDE FACTORY-FABRICATED, VISCOUS-COATED, FLAT PANEL TYPE REPLACEABLE AIR FILTERS WITH HOLDING FRAMES AS INDICATED, IN SIZES INDICATED, WITH 2" THICK UL CLASS 2 THROWAWAY MEDIA MATERIAL, CONSTRUCT MEDIA OF INTERLACED GLASS FIBERS, SPRAY WITH NON-FLAMMABLE ADHESIVE, FRAME IN THROWAWAY FIBERBOARD CASINGS AND SANDWICH BETWEEN PERFORATED METAL GRILLES.
- B. CONSTRUCT DUCTWORK-HOLDING FRAMES OF 20-GA. GALVANIZED STEEL, CAPABLE OF HOLDING MEDIA AND MEDIA FRAME IN PLACE, AND GASKETED TO PREVENT UNFILTERED AIR BY-PASSING BETWEEN MEDIA FRAMES AND HOLDING MEMBERS.
- C. PROVIDE FILTERS WITH RATE FACE VELOCITY OF 500 FPM, INITIAL RESISTANCE OF OT GREATER THAN 0.30" W.G., FINAL RATED RESISTANCE OF 0.50" W.G., AND AVERAGE ARRESTANCE OF 80%.

#### G. LIST OF ACCEPTABLE MANUFACTURERS

- FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT IS ACCEPTABLE AS TO MANUFACTURE, SUBJECT TO CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT EQUIPMENT WILL MEET CAPACITIES, REQUIREMENTS, SPACE AND WEIGHT ALLOCATIONS.
- A. HVAC PACKAGED EQUIPMENT: YORK OR APPROVED EQUAL BY ARCHITECT/ENGINEER
- FANS: GREENHECK, COOK, ACME, PENN, PRICE
- AIR DEVICES: TITUS, KREUGER, METAL-AIRE, PRICE
- INSULATION: CERTAINTEED. OWENS-CORNING. MANVILLE. KNAUF UNIT HEATERS: CHROMOLOX, REZNOR, Q-MARK, MARKET
- DUCT SEALANT: DESIGN POLYMERICS. MCGILL AIRFLOW. CANVAS TAPE AND ARABOL
- SPRING ISOLATION RAILS: PROVENT
- SPLIT SYSTEM HEAT PUMP UNITS: MITSUBISHI, CARRIER, TRANE, SANYO
- AIR FILTERS: AFF, FARR OR FLANDERS

#### PART III - EXECUTION

#### A. GENERAL

- 1. INSTALL MATERIALS AND EQUIPMENT IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- 2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
- 3. PERFORM WORK IN ACCORDANCE WITH THE BEST TRADE PRACTICES. INSTALL MATERIALS AND EQUIPMENT SQUARELY WITH THE BUILDING LINES. PROVIDE RIGID PERMANENT BASES AND SUPPORTS FOR WORK.
- 4. CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC. SO THAT THERE WILL BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.
- 5. COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER, THEFT, ETC., UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING AND/OR DUCTWORK PENDING EXTENSION OR FINAL CONNECTION.
- B. DUCTWORK
- 1. CONSTRUCT DUCTWORK WITH MATERIAL, GAUGES, JOINTS, BRACING AND SUPPORTS IN ACCORDANCE WITH LATEST SMACNA STANDARDS.
- 2. DUCTWORK SHALL BE RIGIDLY CONSTRUCTED AND SUBSTANTIALLY AIR-TIGHT. SEAL ALL DUCTWORK WITH A WATER-BASED DUCT SEALANT (DESIGN POLYMERICS DP-1010 OR EQUAL) OR ARABOL AND CANVAS TAPE. DO NOT UTILIZE PRESSURE SENSITIVE TAPES. SEAL DUCTWORK IN ACCORDANCE WITH TABLE 4-1 "APPLICABLE LEAKAGE OF CLASSES" OF THE LATEST SMACNA HVAC LEAKAGE TEST MANUAL.
- 3. MAKE CONNECTIONS BETWEEN FLEXIBLE DUCTS AND RIGID TRUNK DUCTS WITH FACTOR FABRICATE FITTINGS WITH DAMPER. SECURE FLEX DUCT TO FITTING WITH CLAMPS OR PANDUIT STRAPS INSTALLED TO FACTORY RECOMMENDED TENSION. INSTALL CLAMPS ON LINER AND SECOND CLAMP OVER JACKET. JOB INSPECTION MAY REQUIRE REMOVAL AND REPLACEMENT OF A RANDOM SAMPLING OF CONNECTIONS.
- 4. ELBOWS SHALL HAVE A THROAT RADIUS EQUAL TO 1-1/2 TIMES THE DUCT WIDTH. SQUARE

ELBOWS SHALL HAVE TURNING VANES OR SPLITTER. TRANSITIONS SHALL NOT EXCEED 4 TO 1 ASPECT RATIO.

- C. AUTOMATIC TEMPERATURE CONTROLS AND AUTOMATIC SHUT-OFF
- ROOFTOP AC UNITS SHALL BE TURNED ON/OFF WITH PROGRAMMABLE 7-DAY THERMOSTATS. THERMOSTATS SHALL BE SET FOR CONTINUOUS FAN OPERATION.
- 2. EXHAUST FANS ARE CONTROLLED AS SPECIFIED IN THE EXHAUST FAN SCHEDULE.
- AIR CONDITIONING UNITS SHALL BE EQUIPPED WITH IONIZATION TYPE DUCT DETECTOR, UNLESS INDICATED OTHERWISE.
- 4. DUCT SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN SUPPLY AIR DUCT AHEAD OF ANY BRANCH TAKE-OFFS, AND INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION **INSTRUCTIONS**
- 5. WHERE REQUIRED BY BUILDING OFFICIALS, ACTIVATION OF ANY SMOKE DETECTOR SHALL CAUSE THE AIR-MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN. WHERE A SYSTEM CONSISTS OF MORE THAN ONE AIR CONDITIONER, ACTIVATION OF ANY OF THE SMOKE DETECTORS IN ANY OF THE AIR CONDITIONERS SERVING THE COMMON ARE SHALL CAUSE ALL AIR-MOVING EQUIPMENT SERVING THAT COMMON AREA TO SHUT DOWN.
- WIRING OF THE SMOKE DETECTORS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND ELECTRICAL SECTIONS OF THE SPECIFICATION.
- 7. FIRE ALARM CONTRACTOR SHALL CONNECT ALL FIRE/SMOKE DAMPERS TO THE FIRE CONTROL SYSTEM, AS REQUIRED BY LOCAL BUILDING AUTHORITY. THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL THE CEILING MOUNTED SMOKE DETECTOR STATUS LIGHTS.
- D. TESTING AND BALANCING
- 1. THE TESTS SHALL INCLUDE THOSE COMPONENTS NORMALLY INCLUDED AS PART OF THE AIR DISTRIBUTION AND TRANSMISSION SYSTEM.
- 2. A COMPLETE BALANCING REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION. THE BALANCING REPORT SHALL INCLUDE DESIGN QUANTITIES AND ACTUAL (MEASURED) QUANTITIES FOLLOWING BALANCING. BALANCING SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. T.A.B. CONTRACTOR SHALL BE A.A.B.C. OR N.E.E.B CERTIFIED, OR COMPANY APPROVED BY ENGINEER.
- 3. INCLUDE IN BID, AS PART OF THE WORK IN THIS CONTRACT, ANY ADJUSTMENTS TO OR REPLACEMENT OF PULLEYS, BELTS, MOTORS, DAMPERS, ETC., REQUIRED FOR CORRECT BALANCING OF SYSTEMS. CONTRACTOR OR EQUIPMENT SUPPLIERS TO FURNISH THE ABOVE LISTED ITEMS TO T.A.B. CONTRACTOR TO INSTALL.
- 4. TEST AND ADJUST AIR DEVICES TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN REQUIREMENTS.
- 5. T.A.B. CONTRACTOR SHALL ADJUST THE DEFLECTION OF ALL APPLICABLE SUPPLY AIR DISTRIBUTION FOR PROPER AIR FLOW DIRECTION AND CHARACTERISTICS AS RECOMMENDED BY THE MANUFACTURER AND/OR TO THE SATISFACTION OF THE ENGINEER AND OWNER.

SCHALL **ARCHITECTS** 5173 WARING ROAD, SUITE 9 SAN DIEGO, CA 92120-2705 P 858.692.3835

APRIL 12, 2023

 $\sqrt{1}$  July 31, 2023 corrections

PROJECT NO:

2022170 SHEET TITLE

**MECHANICAL SPECIFICATIONS** 

SHEET NO:

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T 858-672-2100

Registration Number:

Registration Number:

STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations. Project Name:
Project Address: ATLAS Report Page:
9085-B AERO DRIVE Date Prepared: (Page 1 of 30) 5/5/2023 A. GENERAL INFORMATION 01 Project Location (city) 04 Total Conditioned Floor Area SAN DIEGO 13778 02 Climate Zone 05 Total Unconditioned Floor Area 0 03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) ■ Convention Center ■ Office ■ All Other Occupancies

В. І	PROJE	CT SCOPE				
		Includes mechanical systems or components that a 0.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	re within ti	he scope of the permit application and are demonst	rating com	pliance using the prescriptive path outlined in
		01		02		03
		Air System(s)		Wet System Components		Dry System Components
	$\boxtimes$	Heating Air System		Water Economizer	⊠	Air Economizer
	$\boxtimes$	Cooling Air System		Pumps	⊠	Electric Resistance Heat
		Mechanical Controls		System Piping	⊠	Fan Systems
	×	Mechanical Controls (existing to remain, altered or new)		Cooling Towers	×	Ductwork (existing to remain, altered or new)
				Chillers	⊠	Ventilation
				Boilers		Zonal Systems/ Terminal Boxes

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	•	/ersion: 2022.0.000 Version: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18
STATE OF CALIFORNIA  Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 4 of 30)
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/2023

Generated Date/Time:

ry System Equipm	ent Sizing (includes air co	nditioners, cond	densers, heat	pumps, VRF	, furna	ces and uni	t heat	ers and DOAS sy	/stems)					
01	02		03			04	05	06	07	08	09		10	11
Authority Having J	urisdiction may ask for lo	ad calculations u	sed for compli	ance per 14	0.4(b)	and 170.2(c,	).			,				
Ory System Equipm	ent Efficiency (other than	n Package Termir	nal Air Conditi	oners (PTAC	C) and I	Package Ter	minal	Heat Pumps (P	HP), DX-	DOAS and D	Dual Fuel Hea	t Pur	nps)	
01	02		03	04		05		06		07	08			09
					Heati	ng Mode					Cooling Mo	ode		
Name or Item Tag	Size Category (Btu/h)		Rating Condition (°F)	Efficiency	Unit	Minimum Efficiency iit Required per Tables 110.2 / Title 20		Design Efficien	cy Effic	iency Unit	Minimun Efficienc Required p Tables 110 Title 20	y ber .2 /	Desigr	n Efficienc
CU-2	<65,000			HSPF	:	8.2		10.3		SEER	14.0			18.5
MAU-1	<65,000									SEER	14.0			14.3
HP-8	<65,000			HSPF	:	8		8.2		SEER	14.0			14.3
HP-10	<65,000			HSPF	:	8		8.2		SEER	14.0			14.3
HP-12	<65,000			HSPF	:	8		8.2		SEER	14.0			14.3
HP-14	>=65,000 and <13	35,000		СОР		3.4		6		EER IEER	11 14.1			12 12
HP-18	<65,000			HSPF	:	8		8.2		SEER	14.0			14.3
HP-19	>=65,000 and <13	35,000		СОР		3.4		6		EER IEER	11 14.1			12 12
lectric Resistance	Heating			· · · · · · · · · · · · · · · · · · ·		`			7.				`	
	01	02	03						04					
Name	Name or Item Tag		Outpu Capaci (kW)		Applicable Exception to 140.4(g) Allowing Electric Resistance Heating					ating	g			

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Version: 2022.0.000 Version: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18
state of California  Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 7 of 30)
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/2023

Generated Date/Time:

Exception3: Total capacity of electric-resistance heating systems serving the entire building is less than 10% of the total design output capacity of all heating equipment serving the entire building

System Name	HP-8	Quantit y	1	Fan System Status  New System Zoning System				Not Serving Dwelling Units	Fan System Airflow (cfm)	1,200	Site Elevation	477	Economizer	NA: Special O filtration	
01	02	03			04				05	06	07	08	09	10	11
											Allow	/ance		Design	
Fan Name or Item Tag	Fan Type	Qty	Component						Airflow through Component (%)	Water Gauge (w.g)	nt nt	Fan Allowance (watt/cfm)	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrica Input Power (kW)
			Base	Base Allowance for system serving spaces <=6 floors away				loors away	1,200		278				
SF	Supply	1	MERV 13-16 Filter upstream of thermal conditioning					litioning	1,200		167		Manufactu rer provided		0.45
				Hydronic/D	cooling c	oil or hea	at pump o	coil	1,200		167		provided		
RF	Return	1	Exhaust System Base Allowance						1,200		223		Manufactu rer provided		0.45
,									Fan System All	owance (kW) <sup>3</sup>				m Electrical ut (kW)	

STATE OF CALIFORNIA	
Mechanical Systems CALIF	FORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: ATLAS Report Page:	(Page 2 of 30)
Project Address: 9085-B AERO DRIVE Date Prepared:	5/5/2023

C. COMPLIA	NCE R	ESULTS													
		if the project o OMPLIES with	-		-		-			•			itable b	y the user. If this to	able says "DOES
01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(I), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Result
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
				Mandatory	Measu	res Complian	ce (See	Table Q for D	etails)			•	COMP	LIES	•

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

Registration Number:

Registration Number:

Documentation Software: EnergyPro

Documentation Software: EnergyPro

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Conditioning System Inf	formation				
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Hea
CU-2	1	Single zone	New/ Addition		
MAU-1	1	Single zone	New/ Addition		
HP-8	1	Single zone	New/ Addition		
HP-10	1	Single zone	New/ Addition		

Generated Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220101

STATE OF CALIFORNIA			
Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 5 of 30)
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/2023

G. PUM	IPS														
This sect	tion does no	ot apply to	o this pr	oject.											
LI EAN	SYSTEMS	Q. AID EC	MONO	IZEDC										,	
This tabl	le is used to	demonst	trate cor						(c), 140.4(e), 140 H.	.4(m), 170.2(c)3	, and 170.2 <sub>(</sub>	c)4A for fan	systems. Fo	an systems ser	ving only
System Name	CU-2	Quantit Y	1	Fan System Status	New	System Zoning	all other system s	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	600	Site Elevation	477	Economizer	NA: <=33 kBtu/h cooling
01	02	03		04					05	06	07	08	09	10	11
											Allow	/ance		Design	
Fan Name or Item Tag	Fan Type	Qty		Component					Airflow through Component (%)	Water Gauge (w.g)		Fan Allowance (watt/cfm)	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
			Base	Allowance for	system ser	rving spa	ces <=6 f	loors away	600		139				
SF	Supply	1	MI	ERV 13-16 Filte	er upstrear equipr		mal cond	litioning	600		83		Manufactu rer provided		0.06
				Hydronic/D	cooling c	oil or hea	at pump	coil	600		83		provided		
									Fan System All	owance (kW) <sup>3</sup>				m Electrical ut (kW)	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		on: 2022.0.000 ion: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18
STATE OF CALIFORNIA  Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS Repo	ort Page:	(Page 8 of 30)
Project Address:	9085-B AERO DRIVE Date	Prepared:	5/5/2023

Generated Date/Time:

System Name	HP-10	Quantit Y	1	Fan System Status	New	System Zoning	all other system s	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	477	Economizer	Differentia I Enthalpy														
01	02	03			04	ļ			05	06	07	08	09	10	11														
											Allow	/ance		Design															
Fan Name or Item Tag	Fan Type	Qty		Component						Water Gauge (w.g)	Compone nt Allowance	Fan Allowance (watt/cfm)	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)														
			Base	Allowance for	system sei	rving spa	ces <=6 f	loors away	2,000		464																		
SF	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	Supply 1	upply 1	pply 1	oly 1	ply 1	MI	ERV 13-16 Filte	r upstrear equipi		mal cond	litioning	2,000		278		Manufactu rer		0.61
				Hydronic/D	cooling c	oil or hea	r heat pump coil		2,000		278		provided																
				Econ	omizer Re	turn Dan	nper		2,000		92																		
				Exhaus	st System I	Base Allo	wance		2,000		372		Manufactu																
RF	Return	1											rer provided		0.61														
									Fan System All	owance (kW) <sup>3</sup>	1.4	48		m Electrical ut (kW)	1.22														

STATE OF CALIFORNIA		•	
Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-I
Project Name:	ATLAS	Report Page:	(Page 3 of 30
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/2023

01		0	2	03		04		C	05		06		
HP-12 HP-14			ntity	System Serving	S	ystem Status		Space	е Туре	Utili	Utilizing Recovered Heat		
HP-1	2	1	1	Single zone	N	ew/ Addition							
HP-1	4	1	1	Single zone	N	ew/ Addition							
HP-1	8	1	1	Single zone	N	ew/ Addition							
HP-1	9	1	1	Single zone	N	ew/ Addition							
Dry System Equi	pment Sizing	(includes air co	nditioners, con	densers, heat pumps, VR	F, furnaces and	unit heaters	and DOAS	systems)	<i>x</i>				
01		02		03	04	05	06	07	08	09	10	11	
							Equipm	ipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2					
	Fauinment	Category per			Smallest Size	He	ating Outp	ut <sup>2,3</sup>	Cooling (	Output <sup>2,3</sup>	Load Calc	ulations <sup>3,4</sup>	
Name or Item Tag	Tables 110.2,	140.4(a)2 and 2(c)3aii	Equipment Ty	pe per Tables 110.2 and Title 20	Available <sup>1</sup> 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)	
CU-2	Unitary H	leat Pumps	Air-cool	ed, split (3 phase)	Yes	15.75	21.6	0	17.83	14.93	-0.27	17.77	
MAU-1	Unitary AC,	/ Condensers	AC, air-co	ooled pkg (3 phase)	Yes	60	60	0	55.09	46.12	54.82	55.36	
HP-8	Unitary H	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	39.12	36	12.87	29.59	27	19.51	34.99	
HP-10	Unitary H	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	56.62	60	12.87	49.95	46.12	37.37	51.86	
HP-12	Unitary H	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	39.12	36	12.87	28.83	27	19.85	36.49	
HP-14	Unitary F	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	74.13	84	12.87	69.22	63	45.89	77.04	
HP-18	Unitary H	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	47.87	48	12.87	38.48	36	16	31.19	
HP-19	Unitary H	leat Pumps	Air-cool	ed, pkg (3 phase)	Yes	100.38	120	12.87	96.72	90	48.71	109.67	

<sup>1</sup> FOOTNOTES: Equ	ipment shall be the smallest	size, within the available options of the	desired equipmen	t line, neces	sary to mee	t the design	heating an	d cooling lo	ads of the b	uilding per
140.4(a) and 170.	2(c)1. Healthcare facilities a	re excepted.								

, ,	. ,	•	,	
<sup>2</sup> It is common pi	ractice to sho	w rated output	capacity on the	equipment schedule. Sensible cooling output comes from specification sheet tables.
3 If equipment is	s heating only	, leave coolina	output and load	blank. If equipment is cooling only, leave heating output and load blank.

-it is com	in practice to snow ratea output capacity on the equipment schedule. Sensible cooling output comes from specifi	cation sneet table
<sup>3</sup> If equip	nt is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and loc	ad blank.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

Registration Number:	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-8004-0523-0068
	Schema Version: rev 20220101	Report Generated: 2023-05-05 12:15:18

STATE OF CALIFORNIA		
Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	TLAS Report Page:	(Page 6 of 30)
Project Address: 9085-B AERO D	PRIVE Date Prepared:	5/5/2023

H. FAN	SYSTEMS	& AIR EC	оиом	IZERS											
System Name	MAU-1	Quantit y	1	Fan System Status	New	System Zoning	all other system s	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	477	Economizer	Differentia I Enthalpy
01	02	03			04				05	06	07	08	09	10	11
											Allov	vance	Design		
Fan Name or Item Tag	Fan Type	Qty			Compo	nent			Airflow through Component (%)	Water Gauge (w.g)	Compone nt Allowance	Fan Allowance (watt/cfm)		Motor Nameplate Horsepower	Design Electrical Input Power (kW)
			Base	Allowance for	system sei	ving spa	ces <=6 f	loors away	2,000		464				
		Base Allowance for system serving spaces <=6 floors awa MERV 13-16 Filter upstream of thermal conditioning equipment						itioning	2,000		278		Manufactu		
SF	Supply	1			Electric	heat			2,000		92	]	rer provided		0.89
	Hydronic/DX cooling coil or heat		at pump (	coil	2,000		278	1	provided						
				Ecor	omizer Re	turn Dan	nper		2,000		92				
									Fan System All	owance (kW) <sup>3</sup>				m Electrical ut (kW)	

Registration Number:	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

STATE OF CALIFORNIA  Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 9 of 30)
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/2023

H. FAN	SYSTEMS	& AIR EC	опом	IZERS											
System Name	HP-12	Quantit y	1	Fan System Status	New	System Zoning	all other system s	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,200	Site Elevation	477	Economizer	NA: Special OA filtration
01	02	03			04				05	06	07	08	09	10	11
											Allow	/ance		Design	
Fan Name or Item Tag	Fan Type	Qty		Component						Water Gauge (w.g)	Compone nt Allowance	Fan Allowance (watt/cfm)		Motor Nameplate Horsepower	Design Electrical Input Power (kW)
			Base	Allowance for	system sei	ving spa	ces <=6 f	oors away	1,200		278		N 4 = <del>-</del> - + +		
SF	Supply	1	M	RV 13-16 Filte	er upstrear equipr		mal cond	itioning	1,200		167		Manufactu rer provided		0.45
				Hydronic/D	X cooling c	oil or hea	at pump o	oil	1,200		167		provided		
				Exhau	st System E	Base Allo	wance		1,200		223		Manufactu		
RF	Return	1							•				rer provided		0.45
										lowance (kW) <sup>3</sup>				m Electrical ut (kW)	

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T 858-672-2100 5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835 www.schallarchitects.com



APRIL 12, 2023 1\ JULY 31, 2023 CORRECTIONS

PROJECT NO: 2022170 SHEET TITLE

MECHANICAL

SHEET NO:

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: EnergyPro Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: EnergyPro Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

Documentation Software: EnergyPro

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Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

Generated Date/Time:

STATE OF CALIFORNIA **Mechanical Systems** CERTIFICATE OF COMPLIANCE Project Name: ATLAS Report Page: 9085-B AERO DRIVE Date Prepared: Project Address: I. SYSTEM CONTROLS This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems. Conditioned Shut-Off **Demand Response** Floor Area 110.2(b) & (c)<sup>1</sup>, 120.2(a) Controls 110.12 120.2(b) & System Name Controls Zoning Being Served 160.3(a)2A or 141.0(b)2E & 120.2(e) & 120.2(g) & (ft<sup>2</sup>) 180.2(b)2 160.3(a)2D 160.3(a)2F NA: 7 day CU-2 Single zone <= 25,000 ft<sup>2</sup> **EMCS** 120.2(e)1 Auto Timer MAU-1 Single zone <= 25,000 ft<sup>2</sup> Setback Switch **Auto Timer** HP-8 Single zone <= 25,000 ft<sup>2</sup> Setback Auto Timer Single zone <= 25,000 ft<sup>2</sup> Switch Auto Timer HP-12 Single zone <= 25,000 ft<sup>2</sup> Setback Hour Timer Switch Auto Timer HP-14 Single zone <= 25,000 ft<sup>2</sup> Setback Switch Auto Timer Single zone <= 25,000 ft Setback Switch Auto Timer Setback HP-19 Single zone <= 25,000 ft<sup>2</sup> Switch Generated Date/Time: Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 STATE OF CALIFORNIA Mechanical Systems

Mechanica	Aechanical Systems California energy commiss											
CERTIFICATE OF	COMPLIANCE					NRCC-MCH						
Project Name:			(Page 16 of 3									
Project Address: 9085-B AERO DRIVE Date Prepared:												
J. VENTILATIO	ON AND INDOOR AIR QUALITY											
	04	05			06	07						
System Name	HP-10	System Design OA CFM Airflow <sup>1</sup>	419	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 <sup>2</sup>						
		All HOW		Transier Air Crivi		Duna dala al						

CALIFORNIA ENERGY COMMISSION

Window Interlocks per

140.4(n) & 170.2(c)4D

NA: Alteration Project

NA: HRR dwelling unit

STATE OF CALIFORNIA

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Software: EnergyPro

Compliance ID: EnergyPro-8004-0523-0068

Report Generated: 2023-05-05 12:15:18

Supply Air

Temp. Reset

140.4(f) &

170.2(c)4D

Alteration

Healthcare

only

Healthcare

Healthcare

Healthcare

Healthcare

only

Healthcare

Healthcare

only

only

only

only

only

160.3(a)2B

**EMCS** 

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NRCC-MCH-E

(Page 13 of 30)

5/5/2023

	04		05				06		07	
System Name	HP-10	System Des	_	419		Design Air CFM	0	160	120.1(c) 141.0(b)2 and 0.2(c)21 <sup>2</sup>	
								Provided		
08	09	10	11	12	13	14	15		16	
Control	Mechanical Ventilati	on Required per 1	20.1(c)3 <sup>3</sup> & 1	60.2(c)3		Exh. V	'ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Controls per 120.1(d)3,		
or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)50 160.2(c)5E 160.2(c)5D		
HP-10	Office space	436			65.4	0	0	DCV	NA: Not required p §120.1(d)3	
HP-10	Office space	436			65.4		U	Occ Sensor	NA: Not required space type	
HP-10	Conference/ meeting	Conference/ meeting 412		206	0	0	DCV	NA: Not required p §120.1(d)3		
HP-10		412			206		Ū	Occ Sensor	NA: Not required space type	
17 To	tal System Required Min OA CFI	M			271	18	Ventilation for this S	system Complies?	Yes	
	04		05				06		07	
System Name	HP-12	System Des	A COLUMN TO SERVICE TO	90		Design Air CFM	0		120.1(c) 141.0(b)2 and 0.2(c)21 <sup>2</sup>	
ř		Airn	OW-		Hansier	All Crivi		Pr	ovided	
08	09	10	11	12	13	14	15		16	
Conne Name	Mechanical Ventilati	on Required per 1	.20.1(c)3 <sup>3</sup> & 1	60.2(c)3		Exh. V	ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor C	ontrols per 120.1(d)3,	
Space Name or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per 120.1(d) 120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)5 160.2(c)5E 160.2(c)5D		

Registration Number:	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

state of California  Mechanical Systems			CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE			NRCC-MCH-
Project Name:	ATLAS	Report Page:	(Page 19 of 30
Project Address:	9085-B AERO DRIVE	Date Prepared:	5/5/202

J. VENTILATION AND INDOOR AIR QUALITY
<sup>6</sup> 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.
Examples of spaces which require lighting occupancy sensors include offices $250 \mathrm{ft}^2$ or smaller, multipurpose rooms less than 1,000 ft <sup>2</sup> , classrooms, conference rooms, restrooms, aisles
and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

Multifamily Dv	ultifamily Dwelling Unit Ventilation Systems										
	Check the box	cif the system is using co	ntinuous vent	ilation to me	et the venti	lation requ	irements per 160.2(b)2Aivb2				
19	20	21	22	23	24	25	26	2	7		
Space Name	Mechanical Ventilation Required per 120.1(b) & 160.2(b)2					ion per ign					
Space Name or Item Tag	Conditioned Floor Area (ft²)	# of Bedrooms	# of Dwelling Units	Required Min OA CFM <sup>1</sup>	Supply Air CFM	Exhaust CFM	Local Exhaust	Air Filtration per 12	20.1(c) & 160.2(b)1		
28	l	s this a balanced system	1		29		Meeting Outside Air Requiren	nents?			
1 FOOTNOTES:	COOTNOTES: Uniform Mechanical Code may have more stringent ventilation requirements: the most stringent code requirement takes precedence										

<sup>1</sup> FOOTNOTES: Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. <sup>2</sup> Kitchen range hood will be verified per NA7.18.1 to confirm model is rated by HVI or AHAM. <sup>3</sup> Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation

systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

<sup>4</sup> A balanced ventilation system provides ventilation airflow to each dwelling-unit at a rate equal to or greater than the required minimum rate, but not more than twenty percent.

This section does	not apply to th	s project.
DISTRIBUTIO	N /DUCTWOR	V and DIDING)
L. DISTRIBUTIO	N (DUCTWOR	K AND PIPING)
This table is used	to show compli	ance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.
01		Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

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STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E (Page 14 of 30) Project Name: ATLAS Report Page: 9085-B AERO DRIVE Date Prepared: Project Address: 5/5/2023

I. SYSTEM CONTROLS <sup>1</sup>FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet. Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces 02 O3 Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2. residential and Hotel/ Motel Multifamily Common Use Ventilation Systems Air Filtration per 120.1(c) 141.0(b)2 and System Design System Design OA CFM CU-2 160.2(c)21<sup>2</sup> Transfer Air CFM Provided 08 10 11 12 13 14 Exh. Vent per 120.1(c)4 & Mechanical Ventilation Required per 120.1(c)33 & 160.2(c)3 160.2(c)4 DCV or Sensor Controls per 120.1(d)3, Space Name Conditioned # of Shower # of 120.1(d)5, and 120.1(e)36 160.2(c)5D or Item Tag Min OA Min CFM Provided per Design Floor Area heads/ 160.2(c)5E 160.2(c)5D Occupancy Type<sup>4</sup> people<sup>5</sup> CFM CFM (ft<sup>2</sup>) toilets NA: Not required per DCV §120.1(d)3 FC-2 100 All others NA: Not required Occ Sensor space type Ventilation for this System Complies? 17 Total System Required Min OA CFM

Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-8004-0523-0068 Schema Version: rev 20220101 Report Generated: 2023-05-05 12:15:18

Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E (Page 17 of 30) Project Name: ATLAS Report Page: 9085-B AERO DRIVE Date Prepared: 5/5/2023 Project Address:

UD 42	Office	600						DCV	NA: Not required pe §120.1(d)3
HP-12	Office space	600			90	0	0	Occ Sensor	NA: Not required space type
17 Tota	l System Required Min OA CFM				90	18	Ventilation for this S	System Complies?	Yes
,	04		05				06		07
System Name	HP-14	System Desi Airfl	-	683	1.50	Design Air CFM	0	N.**	.20.1(c) 141.0(b)2 and .2(c)21 <sup>2</sup>
		All llow					Provided		
08	09	10	11	12	13	14	15		16
6 N	Mechanical Ventilation	Required per 120.1(c)3 <sup>3</sup> & 160.2(c)3			Exh. Vent per 120.1(c)4 & 160.2(c)4			DCV or Sensor Controls per 120.1(d)3,	
Space Name or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)5l 160.2(c)5E 160.2(c)5D	
110.44	Office space	24.07	37		478		0	DCV	NA: Not required po §120.1(d)3
HP-14		3187			4/8	0	0	Occ Sensor	NA: Not required space type
17 Tota	System Required Min OA CFM				478	18	Ventilation for this S	System Complies?	Yes
	04		05				06		07
System Name	HP-18	System Desi	The second second second	229		Design	0		20.1(c) 141.0(b)2 and .2(c)21 <sup>2</sup>
************		Airfle	ow*		iransier	Air CFM		Pr	ovided
08	09	10	11	12	13	14	15		16
	Mechanical Ventilation	Required per 1	20.1(c)3 <sup>3</sup> & 1	60.2(c)3	•	Exh. \	/ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Co	ontrols per 120.1(d)3,
or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	120.1(d)5, and 1	20.1(e)3 <sup>6</sup> 160.2(c)5D SE 160.2(c)5D

	Schema	Version: rev 20220101	Report Generated: 2023-05-05 12:15:18
state of California  Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 20 of 30)
Project Address: 908	5-B AERO DRIVE	Date Prepared:	5/5/2023

Generated Date/Time:

Report Version: 2022.0.000

NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?  No  No  No  No  No  No  No  No  No  N	Duct Leakage Test	ing							
or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?  Duct leakage testing per CMC Section 603.10.1 required for these systems?  11 No The scope of the project includes only duct systems serving healthcare facilities 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14 No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:  15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verificati and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  17 All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  18 All ductwork is an extension of an existing duct system  19 Ductwork serving individual dwelling unit  20 < 25 ft of new or replacement space conditioning ducts installed  21 R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per						No			
systems?  No The scope of the project includes only duct systems serving healthcare facilities  Ves Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  The space conditioning system serves less than 5,000 ft² of conditioned floor area.  No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:  The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verificati and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  20	The answers to the questions below apply to the following duct systems:		CU-2	or duct system to outside shall not exceed 6% per RA3.1.4 required for	No				
12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14 No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:  15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  17 All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  18 All ductwork is an extension of an existing duct system  19 Ductwork serving individual dwelling unit  20 < 25 ft of new or replacement space conditioning ducts installed  21 R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per						Yes			
The space conditioning system serves less than 5,000 ft² of conditioned floor area.  No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:  The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  20	11	No	The scope of the project includes only duct systems serving healthcare facilities						
14 No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:  15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  17 All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  18 All ductwork is an extension of an existing duct system  19 Ductwork serving individual dwelling unit  20 < 25 ft of new or replacement space conditioning ducts installed  21 R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per	12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.						
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  16 No  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  Compared to the questions below apply to the following duct system:  NR/ Common Use: Duct leakage testing shall not exceed 6% per	13	Yes	The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.						
The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  20 < 25 ft of new or replacement space conditioning ducts installed  R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per	14	No	The <u>combined</u> surface area of the ducts is more than 25% of the total surface area of the entire duct system:						
and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A  All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  Common Use: Duct leakage testing shall not exceed 6% per	15		The scope of the project includes exter	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.					
All ductwork is an extension of an existing duct system  Ductwork serving individual dwelling unit  Compared to the guestions below apply to the following duct systems:  NR/ Common Use: Duct leakage testing shall not exceed 6% per	16	No				ough field verification			
Ductwork serving individual dwelling unit  20 < 25 ft of new or replacement space conditioning ducts installed  21 R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per	17		All Ductwork and plenums with pressu	re class rating	s shall be constructed to Seal Class A				
20 < 25 ft of new or replacement space conditioning ducts installed 21 R-8 Dust Insulation R-value  22 NR/ Common Use: Duct leakage testing shall not exceed 6% per	18		All ductwork is an extension of an exist	ing duct syste	em				
21 R-8 Dust Insulation R-value  NR/ Common Use: Duct leakage testing shall not exceed 6% per  NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	19		Ductwork serving individual dwelling u	nit					
NR/ Common Use: Duct leakage testing shall not exceed 6% per	20		< 25 ft of new or replacement space co	nditioning du	cts installed				
ancword to the questions helew apply to the following dust systems: 1 MALLA 1	21	R-8	Dust Insulation R-value						
	The answers to the	e questions bel	ow apply to the following duct systems:	MAU-1		No			

Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18 Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

11835 Carmel Mountain Road

San Diego CA 92128-4609

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: (Page 15 of 30) ATLAS Report Page: 9085-B AERO DRIVE Date Prepared: Project Address: 5/5/2023

04 05			05		06			07	
System Name	System Name MAU-1		System Design OA CFM Airflow <sup>1</sup> 900		System Transfer	Design Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 <sup>2</sup>	
		Allin	7 1111000		Hansiei	All CI W		Pr	ovided
08	09	10	11	12	13	14	15		16
	Mechanical Ventilation Required per 120.1(c)3 <sup>3</sup> & 160.2(c)3					Exh. V	/ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Controls per 120.1(d)3,	
or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	noonlo		Required Min OA CFM	Required Provided per Design Min CFM CFM		120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)5D 160.2(c)5E 160.2(c)5D	
20114	Office space	2404			373.6	0	900	DCV	NA: Not required pe §120.1(d)3
MAU-1		2491					300	Occ Sensor	NA: Not required space type
17 Tota	al System Required Min OA CF	M			374	18	Ventilation for this S	ystem Complies?	Yes
	04		05				06		07
System Name	HP-8	System Desi	_	274	System Transfer	Design	0		.2(c)21 <sup>2</sup> and
		Airii	Airilow-			All CI W		Provided	
		10	11	12	13	14	15		16
08	09	10	11		13			DCV or Sensor Controls per 120.1(d)3,	
10000	09 Mechanical Ventilat		27.00.000	60.2(c)3	15		/ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Co	ontrols per 120.1(d)3,
08  Space Name or Item Tag			20.1(c)3 <sup>3</sup> & 1	60.2(c)3 # of people <sup>5</sup>	Required Min OA CFM			120.1(d)5, and 1	ontrols per 120.1(d)3, 20.1(e)3 <sup>6</sup> 160.2(c)5D SE 160.2(c)5D
Space Name or Item Tag	Mechanical Ventilat Occupancy Type <sup>4</sup>	ion Required per 1  Conditioned Floor Area  (ft²)	20.1(c)3 <sup>3</sup> & 1 # of Shower heads/	# of	Required Min OA CFM	Exh. V Required Min CFM	160.2(c)4  Provided per Design  CFM	120.1(d)5, and 1	20.1(e)3 <sup>6</sup> 160.2(c)5D
Space Name	Mechanical Ventilat	ion Required per 1  Conditioned Floor Area	20.1(c)3 <sup>3</sup> & 1 # of Shower heads/	# of	Required Min OA	Exh. V	160.2(c)4  Provided per Design	120.1(d)5, and 1 160.2(c)5	20.1(e)3 <sup>6</sup> 160.2(c)5D SE 160.2(c)5D NA: Not required pe

Registration Number:	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8004-0523-0068 Report Generated: 2023-05-05 12:15:18

	NR			
ATLAS Report	Page:	(Page 18 of 30		
9085-B AERO DRIVE Date Pr	repared:	5/5/2023		
9085-B AERO DRIVE Date Pr	repared:			
_	· ·	ATLAS Report Page:  9085-B AERO DRIVE Date Prepared:		

CALIFORNIA ENERGY COMMISSION

HP-18	Office space	1068		160.2		0	DCV	NA: Not required per §120.1(d)3	
					160.2	0	0	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				160	18	Ventilation for this S	system Complies?	Yes
	04 05					06		07	
System Name	HP-19	System Desi	_	549	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 <sup>2</sup>	
		Airflow <sup>1</sup>		ITALISIEL AII CFIVI			Provided		
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3 <sup>3</sup> & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3,	
	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)5D 160.2(c)5E 160.2(c)5D	
HP-19	Office emace	3660			549	0	0	DCV	NA: Not required per §120.1(d)3
	Office space	3660			549	0	0	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				549	18	Ventilation for this S	system Complies?	Yes

<sup>1</sup> FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system <sup>2</sup> Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to

<sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. <sup>4</sup> See Standards Tables 120.1-A and 120.1-B.

<sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT** 

STATE OF CALIFORNIA

Documentation Software: EnergyPro

Compliance ID: EnergyPro-8004-0523-0068

**Mechanical Systems** 

Registration Number: Generated Date/Time: Documentation Software: EnergyPro Compliance ID: EnergyPro-8004-0523-0068 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-05 12:15:18

Schema Version: rev 20220101

state of California Mechanical Systems			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	ATLAS	Report Page:	(Page 30 of 30)
Project Address:	9085_B AERO DRIVE	Date Prenared:	5/5/2023

I certify that this Certificate of Compliance documentation is accurate and comple	ete.				
Documentation Author Name: Brandon T. Plum, PE	Documentation Author Signature:				
Company: Plum Engineering, Inc.	Signature Date: 2023-05-05				
Address: 426 Vars Way	CEA/ HERS Certification Identification (if applicable): M32374				
City/State/Zip: Alpine CA 91901	Phone: 858-672-2100				
RESPONSIBLE PERSON'S DECLARATION STATEMENT  I certify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.  2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)  3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building powner at occupancy.					
Responsible Designer Name: Brandon T. Plum, PE	Responsible Designer Signature:				
Company: Plum Engineering, Inc.	Date Signed: 2023-05-05				

License: M32374

Generated Date/Time:

Report Version: 2022.0.000

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5173 WARING ROAD, SUITE 91

SAN DIEGO, CA 92120-2705

P 858.692.3835 www.schallarchitects.com

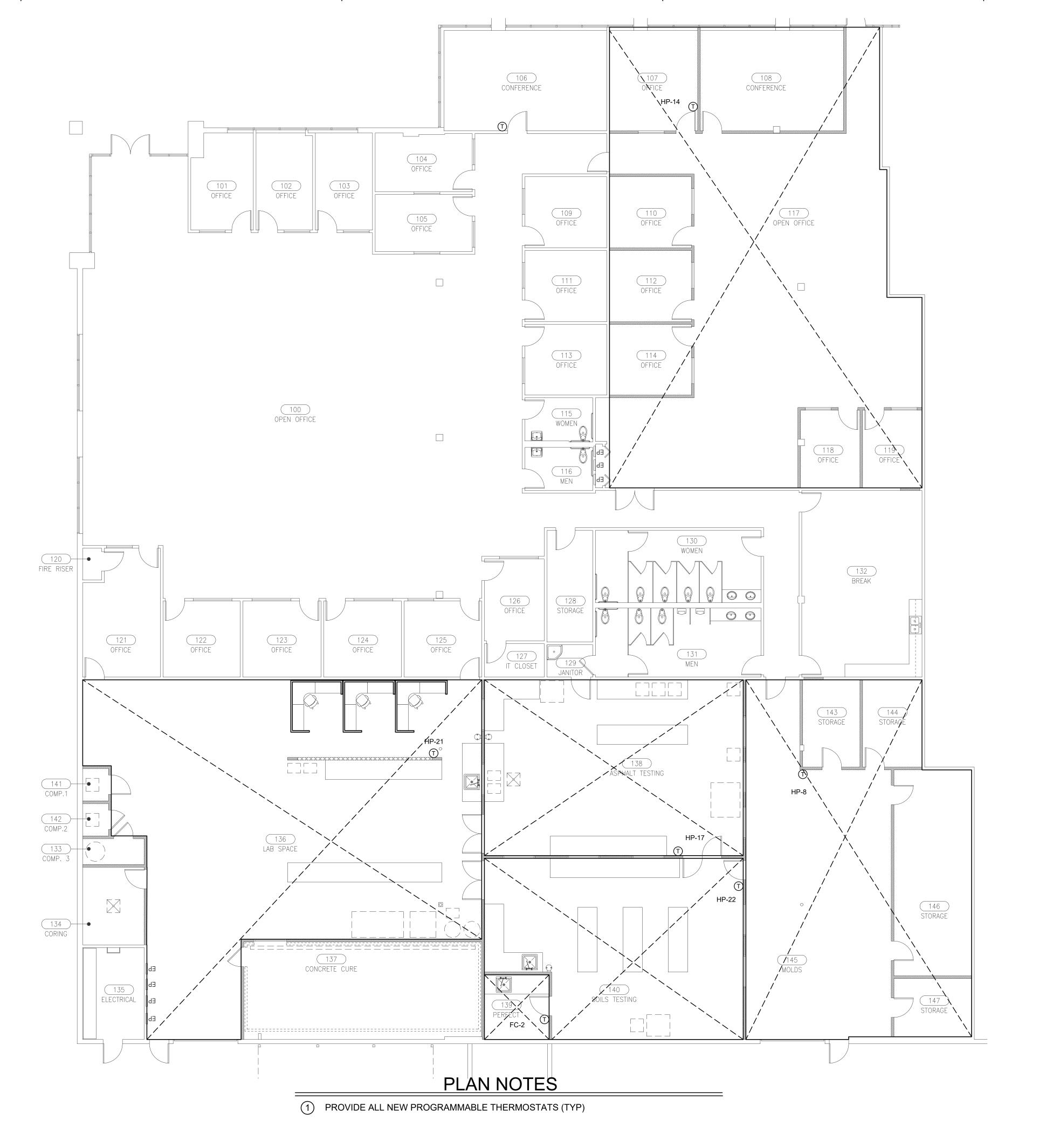


APRIL 12, 2023 1\JULY 31, 2023 CORRECTIONS

PROJECT NO: 2022170

SHEET TITLE

**MECHANICAL** 







APRIL 12, 2023 JULY 31, 2023 CORRECTIONS

PROJECT NO: 2022170

SHEET TITLE MECHANICAL ZONING PLAN

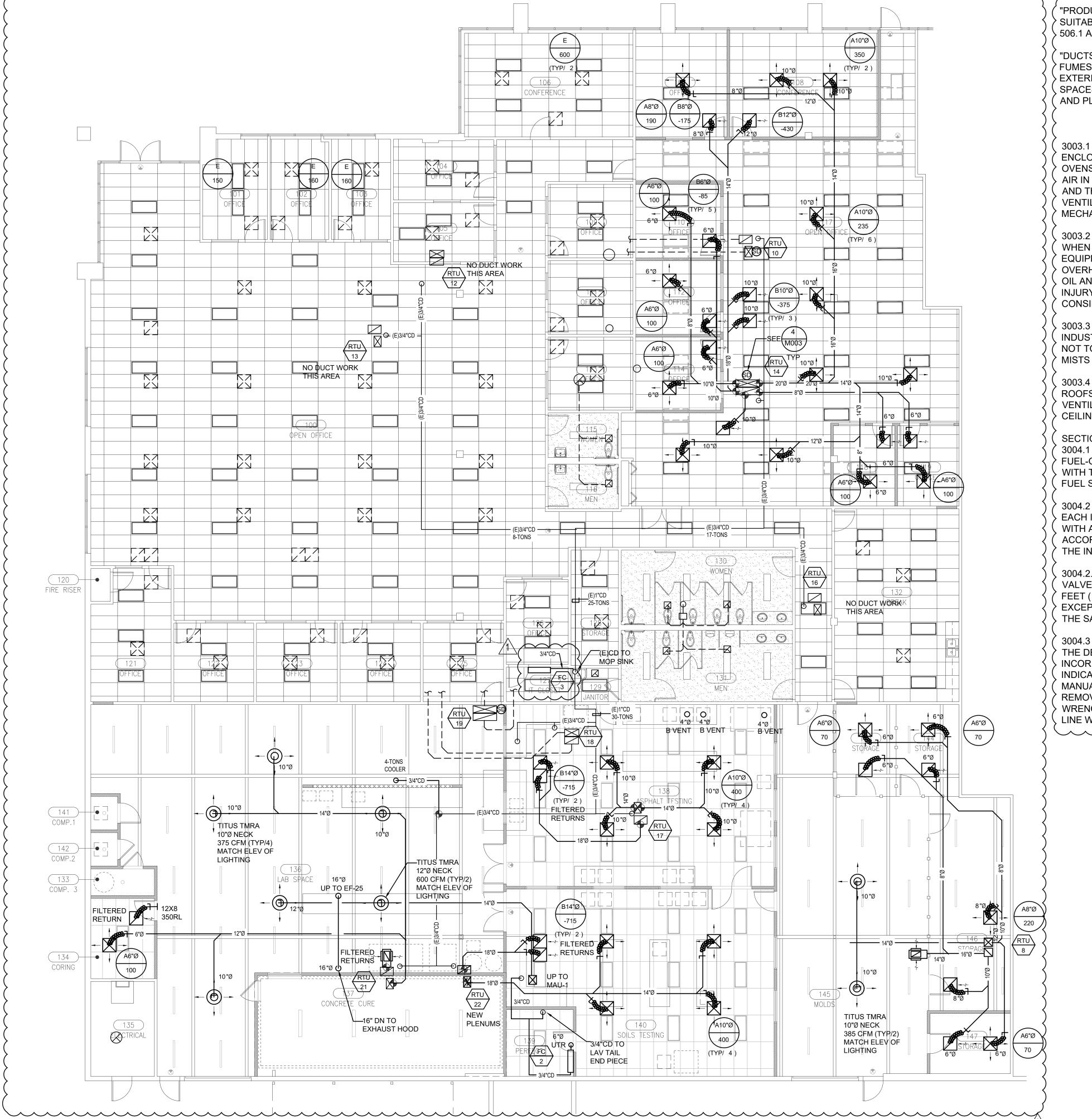
SHEET NO:

800M

1ST FLOOR - MECHANICAL ZONING PLAN

SCALE: 3/16"=1'-0"

PLUM
ENGINEERING
INC.
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"PRODUCT CONVEYING HOOD AND DUCT MATERIALS SHALL BE SUITABLE FOR THE INTENDED USE AS PER SECTIONS 506.1 AND 506.2 CMC."

"DUCTS CONVEYING EXPLOSIVES OR FLAMMABLE VAPORS, FUMES OR DUSTS SHALL EXTEND DIRECTLY TO THE EXTERIOR OF THE BUILDING WITHOUT ENTERING OTHER SPACES AND SHALL NO T EXTEND INTO O R THROUGH DUCTS AND PLENUMS (SECTION 505.1 CMC)."

3003.1 VENTILATION

ENCLOSED ROOMS OR BASEMENTS CONTAINING INDUSTRIAL OVENS OR FURNACES SHALL BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE, AND THE INTERNATIONAL FUEL GAS CODE, AND WITH VENTILATION AIR IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE.

3003.2 EXPOSURE

WHEN LOCATING OVENS, OVEN HEATERS AND RELATED EQUIPMENT, THE POSSIBILITY OF FIRE RESULTING FROM OVERHEATING OR FROM THE ESCAPE OF FUEL GAS OR FUEL OIL AND THE POSSIBILITY OF DAMAGE TO THE BUILDING AND\_I INJURY TO PERSONS RESULTING FROM EXPLOSION SHALL BE CONSIDERED.

3003.3 IGNITION SOURCE

INDUSTRIAL OVENS AND FURNACES SHALL BE LOCATED SO AS NOT TO POSE AN IGNITION HAZARD TO FLAMMABLE VAPORS OR MISTS OR COMBUSTIBLE DUSTS.

3003.4 TEMPERATURES

ROOFS AND FLOORS OF OVENS SHALL BE INSULATED AND VENTILATED TO PREVENT TEMPERATURES AT COMBUSTIBLE CEILINGS AND FLOORS FROM EXCEEDING 160°F (71°C).

SECTION 3004 FUEL PIPING

3004.1 FUEL-GAS PIPING

FUEL-GAS PIPING SERVING INDUSTRIAL OVENS SHALL COMPLY WITH THE INTERNATIONAL FUEL GAS CODE. PIPING FOR OTHER FUEL SOURCES SHALL COMPLY WITH THIS SECTION.

3004.2 SHUTOFF VALVES

EACH INDUSTRIAL OVEN OR FURNACE SHALL BE PROVIDED WITH AN APPROVED MANUAL FUEL SHUTOFF VALVE IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE OR THE INTERNATIONAL FUEL GAS CODE.

3004.2.1 FUEL SUPPLY LINES VALVES FOR FUEL SUPPLY LINES SHALL BE LOCATED WITHIN 6 FEET (1829 MM) OF THE APPLIANCE SERVED.  $^{\circ}$  EXCEPTION: WHERE APPROVED AND THE VALVE IS LOCATED IN  $\angle$ THE SAME GENERAL AREA AS THE APPLIANCE SERVED.

3004.3 VALVE POSITION

THE DESIGN OF MANUAL FUEL SHUTOFF VALVES SHALL INCORPORATE A PERMANENT FEATURE THAT VISUALLY LINE WHEN THE VALVE IS IN THE OPEN POSITION.

SCHALL **ARCHITECTS** 5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835

www.schallarchitects.com



APRIL 12, 2023

/1\JULY 31, 2023 CORRECTIONS

PROJECT NO: 2022170

SHEET TITLE **MECHANICAL FLOOR PLAN** 

SHEET NO:

1ST FLOOR - MECHANICAL FLOOR PLAN

SCALE: 3/16"=1'-0"

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SCHALL ARCHITECTS

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 $\sqrt{1}$  July 31, 2023 corrections

PROJECT NO: 2022170

SHEET TITLE

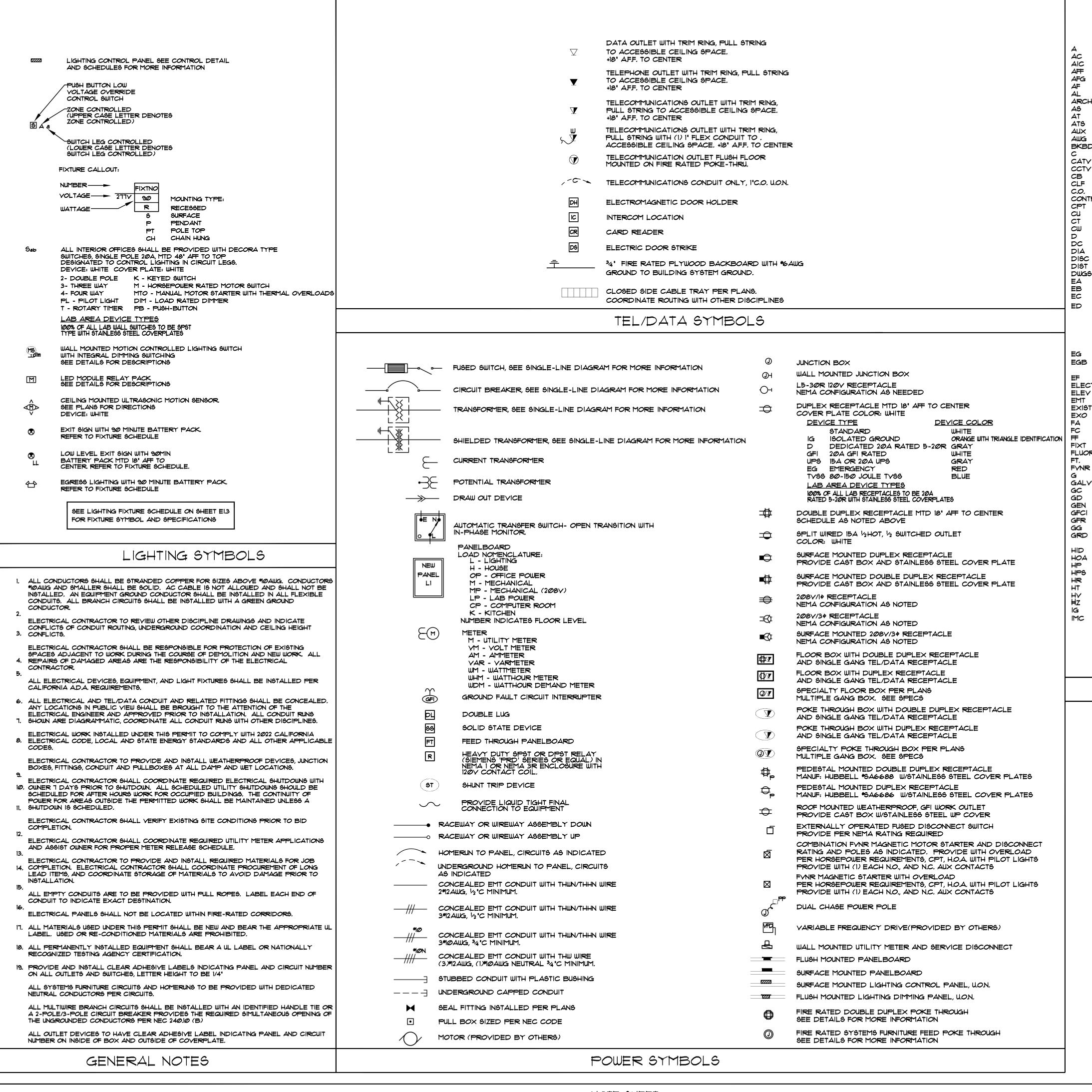
MECHANICAL ROOF PLAN

SHEET NO:

M221

丄

SCALE: 3/16"=1'-0"



5	AMPERES ALTERNATING CURRENT	INCAND	INCANDESCENT
Ć	AMBEBER INTERBUIRTING CARACITY	INV. J-BOX	INVERTER JUNCTION BOX
<b>=</b>	ABOVE FINISHED FLOOR	· ·	KNEE SPACE
G	ABOVE FINISHED GRADE	KYA	KILO-VOLTAMPERE
•			KILO-WATT
- RCH		KWH LBS	KILO-WATT-HOUR POUNDS
<b>;</b>			LINEAL FEET
	AMP TRIP	-	LIGHTING
s X			LOW YOLTAGE
KG.	AMEDICANI IIIDE CAUCE		MANUFACTURER
(BD			MAXIMUM MAIN CIRCUIT BREAKER
	CONDUIT WITH WIRE		MECHANICAL CONTRACTOR
7 <b>†</b> \	CABLE TELEVISION	MCC	MOTOR CONTROL CENTER
CTV 3			MOTOR CIRCUIT PROTECTION
.F	CHOOK IT I WITH IC THE		MECHANICAL MINIMUM
<b>)</b> .	CONDUIT ONLY WITH NYLON PULL CORD		METAL HALIDE
	CONTRACTOR		MAIN LUGS ONLY
<b>?</b> †			MOUNTING
•			MERCURY VAPOR
J			NEUTRAL NORMALLY CLOSED
			NATIONAL ELECTRIC CODE
2	DIRECT CURRENT	NIC	NOT IN CONTRACT
A SC			NIGHT LIGHT
ST			NOT TO SCALE
ugs		NO OC	NORMALLY OPEN ON CENTER
4	EACH		DUNER FURNISHED CONTRACTOR INSTALLED
3	90-MINUTE BATTERY CONNECTED TO UNIT	OFOI	OWNER FURNISHED OWNER INSTALLED
		P	PEDESTAL MOUNT
			PULL BOX
	INVERTER (IE DRIVER IS INTERNAL TO EINTHRE)	PC PCTC	PHOTOCELL CONTROL PHOTOCELL/TIMECLOCK CONTROL
	QUANTITY OF MICRO INVERTERS PER INVERTER	PF	POWER FACTOR
	PROVIDE ADDITIONAL VOLTAGE SENSING	PH	PHASE
	CIRCUIT FOR SWITCHED FIXTURES	PIV	POST INDICATING VALVE
;	EMERGENCY GENERATOR CONNECTION	PL	PILOT LIGHT POLYVINYL CHLORIDE
₽B	EMERGENCY GENERATOR AND 90-MINUTE	PWR	POWER
	BATTERY BACKUP		POWER POLE
ECT.			POTENTIAL TRANSFORMER
			FIXTURE WITH QUARTZ RESTRIKE
1T	ELECTRO-METALIC TUBING		QUANTITY RECEPTACLE
KIST	EXISTING		REFRIGERATOR
(0	EXTERNALLY OPERATED CIRCUIT DREAKER		RIGID GALVANIZED STEEL
<b>!</b>	FIRE ALARM FOOT CANDLE	SD	SMOKE DETECTOR
•	EURITURE EEER	SPEC	SPECIFICATION
<b>&lt;</b> T	FIXIURE	SW FI	SQUARE FEET OR SQUARE FOOT
uor			SWITCHBOARD
NR	FEET OR FOOT		SWITCHGEAR
		TEMP	TEMPERATURE OR TEMPORARY
\T\	GALVANIZED	TY	TELEVISION
	GENERAL CONTRACTOR		TELEPHONE TIME CLOCK
	GARBAGE DISPOSAL		TWIST LOCK
N Ci	CENERATOR  CEOIND EXILIT CHEMENT INTERMINETED	TRANSF	TRANSFORMER
R			TRANSIENT VOLTAGE SURGE SUPPRESSION
*		TYP	TYPICAL
<b>SD</b>	GROUND	UGPS	UNDERGROUND PULL SECTION UNDERGREIFERS LABORATORIES
_	HORIZONTAL	UNO	UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY
) ) <u>A</u>	HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC	ups	UNINTERRUPTIBLE POWER SUPPLY
) <u>A</u>		Y	VOLTS
9	HIGH PRESSURE SODIUM		VOLT-AMPERE VARIABLE FREQUENCY DRIVE
₹	HEIGHI		WATER HEATER
,			WEATHER PROOF DEVICE OR COVER
•		×	EXISTING
	ISOLATED GROUND BUS OR ILLIRE	XFMR	TRANSFORMER
S			EXISTING TO BE RELOCATED  NEW LOCATION OF RELOCATED FIXTURE
			OR DEVICE
		XR	EXISTING TO BE REMOVED
	<u> </u>	· -	TIONS

INCAND INCANDESCENT

AMPERES

#### ABBREVIATIONS

SHEET NO.	DESCRIPTION	SHEET SCALE
E001	NOTE SHEET	NONE
E002	LIGHTING DETAIL SHEET	NONE
EIØI	DEMO PLAN	1/8" = 1'-0"
E2Ø1	LIGHTING PLAN	1/8" = 1'-0"
E2Ø2	EGRESS PHOTOMETRIC PLAN	1/8" = 1'-0"
E3Ø1	POWER PLAN	1/8" = 1'-0"
E3Ø2	EQUIPMENT LIST	NONE
E4Ø1	MECHANICAL PLAN	1/8" = 1'-0"
E5Ø1	SINGLELINE AND PANEL SCHEDULES	NONE
E601	DETAIL SHEET	NONE
ETØI	TITLE 24	NONE



PROJECT NO: 2022170

SCHALL

ARCHITECTS

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MAY 6, 2023

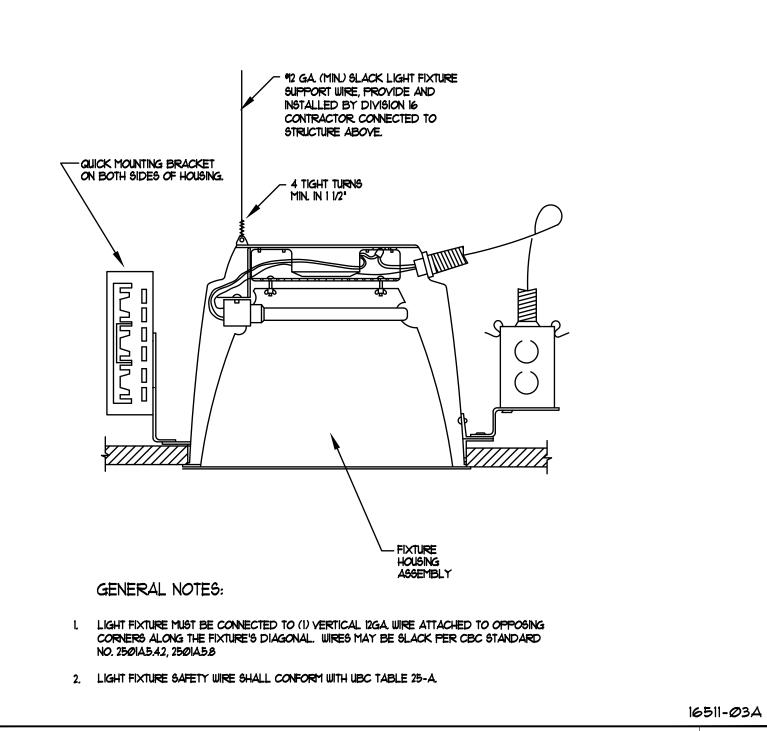
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202.

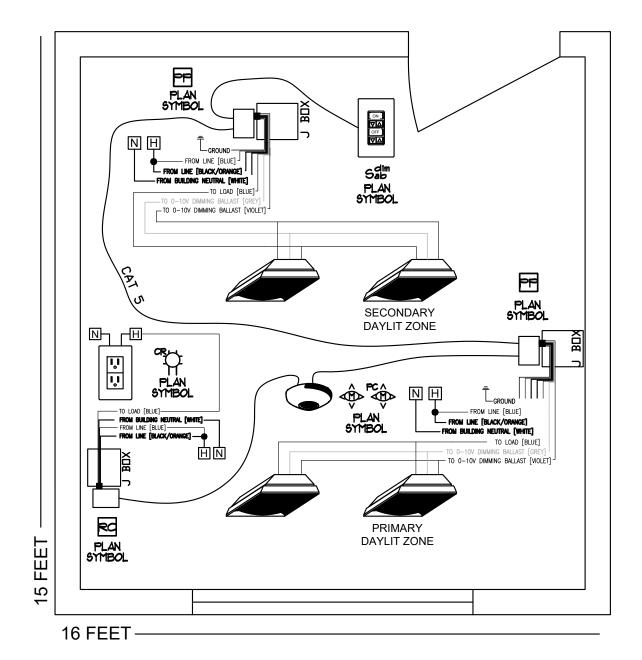
NOTE SHEET

SHEET NO:

**E**001



# RECESSED CAN LIGHT FIXTURE SUPPORT DETAIL



, SWITCH WITH	/
/ ON/OFF	/ DAYLIGHT HARVESTING
✓ RAISE/LOWER	DAYLIGHT HARVESTING *per section 130.1(D)
*per section 130.1(A)	•
**per   See viol 100/1(1)	,AUT⊡MATIC DEMAND
. DELAY MEDIUS VITU	DESDUNSE
/ RELAY M□DULE WITH	KESPLINSE 120115
√ ON/OFF	√ RESPONSE  *per section 130.1(E)
♥ DIMMING 0-10∨	
*per section 130.1(B)	/ PLUG LOAD CONTROL
per 202	✓ PLUG L□AD C□NTR□L *per section 130.5
/ DOCUBANCY SENSOR	Δbei 3ec ((0)) 130/3
✓ □CCUPANCY SENS□R  *per section 130.1(C)	\U/
▼ *per section 130.1(0)	

	PRODUCT#	DESCRIPTION
Sab	nPODM 2P DX WH	2 CHANNEL ON/OFF TOGGLE WITH DIMMING
MS dim	nWSX PDT LV DX	OCCUPANCY ON/OFF SENSOR WITH DIMMING
<b>PF</b>	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
RC	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
<b>₩</b>	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY (PDT): PHOTOCELL W/ DIMMING (NO WIRES)
	nBRG 8	nLIGHT BRIDGE
5	nGWY 2	nLIGHT GATEWAY INTERFACE CONTROLLER
	nADR L2ADR	nLIGHT INTERFACE

						3.	INSTALL ( RUNNER
-	TYPICAL LI	GHTING	WIRING DIAGR	RAM	5		

E INITIAL EGRESS COLOR MIN. LUMENS LUMENS TEMP CRI MOUNTING DESCRIPTION MANUFACTURER 2X4 RECESSED TROFFER WITH PRISMATIC #12 PATTERN, 0.125" THICK LENS. 22 2GTL-4-48L-A12125-GZ10-LP835 ARCHITECT TO CONFIRM LIGHT FIXTURE GAUGE COLD-ROLLED STEEL HOUSING WITH FLUSH DOOR IN WHITE FINISH. DAMP LISTED. RECESSED LITHONIA LED 4800L 3500k 80 MVOLT 35W 2X4 RECESSED TROFFER WITH PRISMATIC #12 PATTERN, 0.125" THICK LENS. 22 2GTL-4-48L-A12125-GZ10-LP835 GAUGE COLD-ROLLED STEEL HOUSING WITH FLUSH DOOR IN WHITE FINISH. E: EL14L RECESSED 4800L 1400L 3500k 80 MVOLT LITHONIA 35W E (SHADED): SAME AS FIXTURE ABOVE EXCEPT WITH 90 MINUTE EMERGENCY. POWER PROVIDED BY EITHER INVERTER, GENERATOR OR SELF TESTING T20 CERTIFIED BATTERY BACKUP. 4FT LED STRIPLIGHT. DAMP LISTED. ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-X ARCHITECT TO CONFIRM LIGHT FIXTURE PENDAN LITHONIA LED 3000L 3500k 80 MVOLT 25W MOUNT 4FT LED STRIPLIGHT. DAMP LISTED. ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-X E: +E10WLCP E (SHADED): SAME AS FIXTURE ABOVE EXCEPT WITH 90 MINUTE EMERGENCY POWER PROVIDED BY EITHER INVERTER, GENERATOR OR SELF TESTING T20 PENDANT 3000L 1400L 3500k 80 MVOLT LITHONIA 25W CERTIFIED BATTERY BACKUP. MOUNT ARCHITECT TO CONFIRM LIGHT FIXTURE 6IN DIAMETER, RECESSED DOWNLIGHT. GALVANIZED STEEL MOUNTING/PLASTER LDN6-35/15-L06-AR-LD-MVOLT-GZ10 FRAME. SPUN ALUMINUM REFLECTOR IN MATTE DIFFUSE FINISH WITH MATCHING TRIM. 55 DEGREE WIDE BEAM OPTICS. DAMP LISTED. F3 RECESSED LITHONIA LED 3500K 80 MVOLT 17.5W 0 1500L SURFACE MOUNTED VAPOR TIGHT LED STRIPLIGHT, WET LOCATION & VAPOR CSVT-148-4000LM-MVOLT-35-80CRL ARCHITECT TO CONFIRM LIGHT FIXTURE SURFACE LITHONIA LED 4000L 3500K 80 MVOLT 34W MOUNT SINGLE FACE, LED EDGE LIT EXIT SIGN. CLEAR/MIRROR FACE WITH GREEN MATCH EXISTING OR BUILDING STANDARD PROVIDE UNIVERSAL MOUNTING KIT FOR TOP, LETTERING. FACES AND CHEVRONS PER EGRESS PLANS. CONNECTED TO BUILDING END AND SIDE MOUNTING, COORDINATE ON-EMERGENCY POWER, UL924 RATED. NICKEL-CADMIUM BATTERY WHEN SITE. SIGNS OVER DOOR SHALL BE CENTERED.  $\otimes$ UNIVERSAL LED 4.5W TBD UNV

FIXTURE LIST

WALL FIXTURES MOINTED BELOW 6'-9'
HAXIMAT PROJECTION 4'

SWITCH QUILET
CONTROL

48 MAX
TO TOP

SHININ
TO BOTTOM
OUTLETS /
RECEPTACLES

ADA MOUNTING HEIGHT DETAIL

4

FIXTURE WEIGHING LESS THAN-56LBS. TO BE SUPPORTED WITH (2) SLACK 12GA. SAFETY WIRES AT DIAGONAL CORNERS -FIXTURE WEIGHING MORE THAN 56LBS. SUPPORT WITH (4)INDEPENDENT TAUT 12GA. WIRES ATTACHED TO STRUCTURE ABOVE. EACH WIRE MUST BE CAPABLE OF SUPPORTING (4)TIME THE WEIGHT OF THE FIXTURE. LIGHT FIXTURE PER FIXTURE LIST AND FLOOR PLANS V-SEISMIC RESTRAINT CLIP, MINIMUM (4) PER LIGHT FIXTURE. FASTEN RESTRAINT CLIP TO LIGHT FIXTURE WITH HEX WASHER HEAD SHEET METAL SCREW. MIN (2) PER CLIP GENERAL NOTES:

1. LIGHT FIXTURE MUST BE CONNECTED TO (1) VERTICAL 12GA. WIRE ATTACHED TO OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. WIRES MAY BE SLACK PER CBC STANDARD NO. 2501A5.42, 2501A5.8

LIGHTING DETAIL SHEET

LIGHT FIXTURE SAFETY WIRE SHALL CONFORM WITH UBC TABLE 25-A.
 INSTALL (4) METAL SCREWS, (2) ON EACH SIDE THROUGH FIXTURE INTO MAIN 'T' BAR

FIXTURE SEISMIC SUPPORT DETAIL

3 2022 TITLE 24 MANDATORY NOTES

AREA CONTROLS
ALL LUMINAIRES SHALL BE FUNCTIONALLY CONTROLLED WITH MANUAL ON AND OFF LIGHTING CONTROLS. EACH AREA ENCLOSED BY CEILING-HEIGHT PARTITIONS SHALL BE INDEPENDENTLY CONTROLLED.

MULTI-LEVEL LIGHTING CONTROLS

THE GENERAL LIGHTING OF ANY ENCLOSED AREA 100SF OR LARGER, WITH A CONNECTED LIGHTING LOAD THAT EXCEEDS 0.5 WATTS PER SQUARE FOOT SHALL PROVIDE MULTI-LEVEL LIGHTING CONTROLS.

DIMMABLE LUMINAIRES SHALL BE CONTROLLED BY A DIMMER CONTROL THAT IS CAPABLE OF CONTROLLING LIGHTING THROUGH ALL REQUIRED LIGHTING CONTROL STEPS AND THAT ALLOWS THE MANUAL ON AND OFF FUNCTIONALITY REQUIRED BY SECTION 130.1(A)

<u>SHUT-OFF CONTROLS</u> LUMINAIRES SHALL BE CONTROLLED WITH AN OCCUPANT SENSING CONTROL, AUTOMATIC TIME SWITCH CONTROL, OR OTHER CONTRL CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL OF THE LIGHTING WHEN THE SPACE IS UNOCCUPIED.

AUTOMATIC CONTROL DEVICES CERTIFIED
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND
INSTALLED AS DIRECTED BY THE MANUFACTURER.

OCCUPANT-SENSING LIGHTING CONTROLS
OFFICES EQUAL OR UNDER THAN 2506QFT

-SECONDARY SPACES
-INDOOR PARKING AREAS
INDOOR PARKING AREAS, INCLUDING PARKING GARAGES,
AND SECONDARY SPACES ARE NEW ADDITIONS

SECONDARY SPACES
UNDER THE 2016 CODE, OCCUPANT-SENSING CONTROLS MUST
AUTOMATICALLY REDUCE LIGHTING POWER BY 50% IN THESE
AREAS WHEN THEY ARE UNOCCUPIED:
-CORRIDORS AND STAIRWELLS

-CONFERENCE ROOMS OF ANY SIZE

-CLASSROOMS OF ANY SIZE

-MULTIPURPOSE ROOMS UNDER 1000SQFT

-WAREHOUSE AISLES AND OPEN AREAS

ACCESSIBLE FROM ONLY ONE END AND THOSE 20 FT IN LENGTH AND ACCESSIBLE FROM BOTH ENDS

INDIVIDUAL ROOMS IN AREAS LARGER THAN 100FT MUST:
-INCORPORATE MULTI-LEVEL LIGHTING CONTROLS OR
CONTINUOUS DIMMING, DEPENDING ON THE LAMP TYPE
-MEET THE UNIFORMITY REQUIREMENTS IN TABLE 130.1-A
-HAVE AT LEAST ONE OF THE FOIL ONLING TYPES OF CONTROLS

-LIBRARY BOOK STACK AISLES 10 FT IN LENGTH AND

-HAVE AT LEAST ONE OF THE FOLLOWING TYPES OF CONTROLS
FOR EACH LUMINAIRE:
-MANUAL CONTINUOUS DIMMING AND ON / OFF CONTROL
(SECTION 130.1(A))
-LUMEN MAINTENANCE (SECTION 100.1)
-TUNING (SECTION 100.1)
-AUTOMATIC DAYLIGHTING CONTROLS (SECTION 130.1(D))
-DEMAND RESPONSE CONTROLS (SECTION 130.1(E))

DAYLIT AREA CONTROL ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL BE CAPABLE OF DIMMING IN THAT DAYLIT AREA.

DEMAND RESPONSE
ALL NON-RESIDENTIAL BUILDINGS LARGER 10,000 SQFT
BE CAPABLE OF:
AUTOMATICALLY RESPONDING TO A D.R. SIGNAL, SO THAT:
TOTAL ENERGY USE FOR LIGHTING CAN AUTOMATICALLY
DROP TO A LEVEL AT LEAST 15% BELOW THE BUILDING'S
MAXIMUM TOTAL LIGHTING POWER
-LIGHTING IS REDUCED IN A MANNER CONSISTENT WITH
REQUIREMENTS FOR UNIFORM ILLUMINATION LEVELS (LISTED

DOOR LIGHTING

IN TABLE 130.1-A)

16511-03

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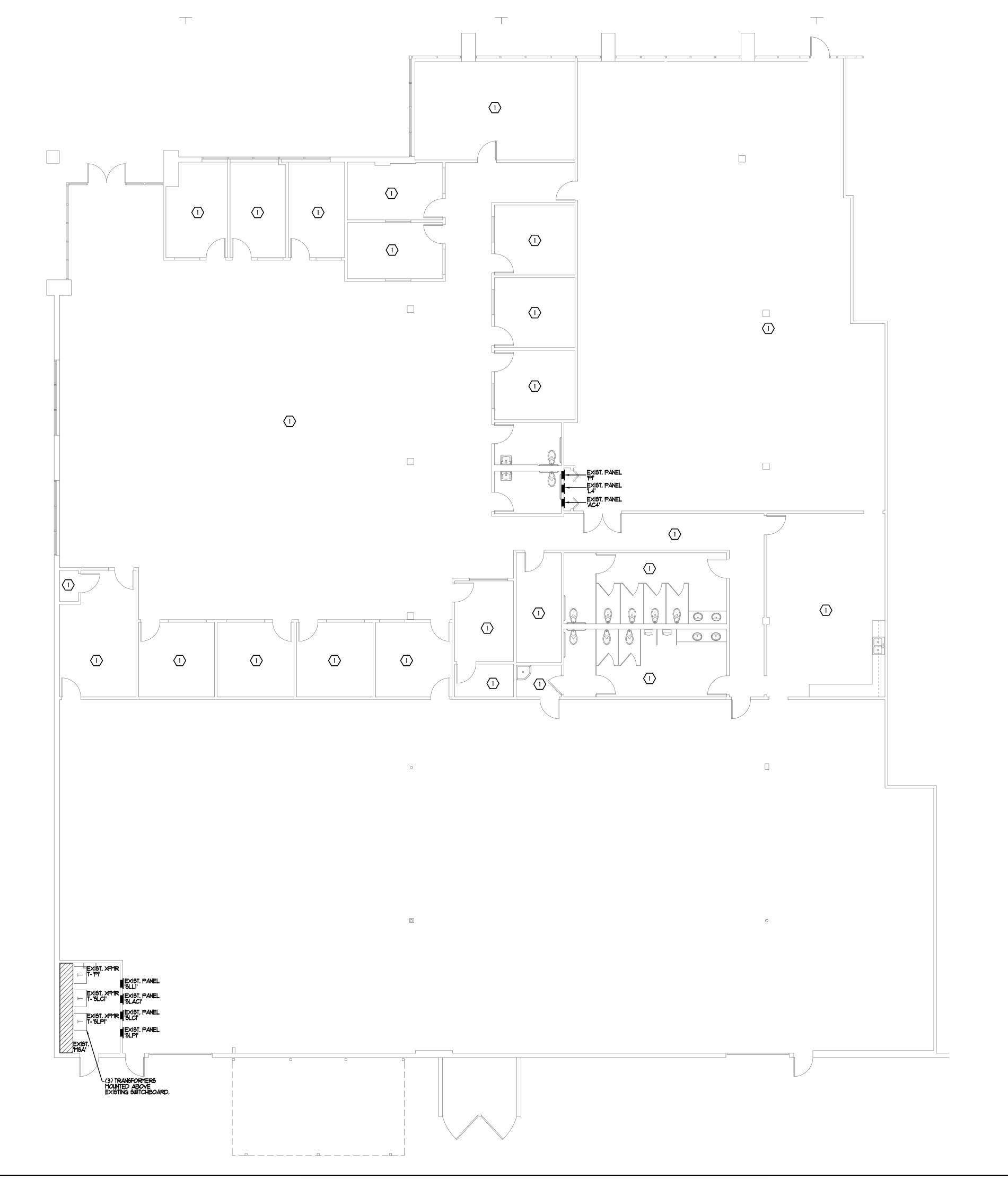
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PROJECT NO: 2022170

LIGHTING
DETAIL SHEET

SHEET NO:

E002





MAY 6, 2023

JULY 31, 2023 ADDENDUM 001

DEMOLITION NOTES:

 NOTES AND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT EXTENT OF DEMOLITION REQUIRED, CONTRACTOR SHALL VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS, EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINTATED WITH THE ARCHITECT AND GENERAL CONTRACTOR.

2. ALL CIRCUITS AFFECTED BY THE DEMOLITION WORK SHALL BE DE-ENERGIZED AT THEIR SOURCE PRIOR TO BEGINNING ANY DEMOLITION WORK.

- 3. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, OUTLETS AND OTHER ELECTRICAL DEVICES ALONG WITH ASSOCIATED WIRING, CONDUIT RACEWAYS, BOXES, AND SUPPORTS ON WALLS TO BE DEMOLISHED OR WHERE IN CONFLICT WITH NEW CONSTRUCTION. EXISTING ELECTRICAL DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, TELIDATA OUTLETS, LIGHTING SWITCHES RECEPTACLES, ETC.
- 4. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
- 5. PROVIDE BLANK COVERPLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES, ELECTRICAL SERVICES OR DEVICES ARE REMOVED FROM WALL SURFACES NOT SCHEDULED TO BE REPAIRED OR REFINISHED AND BLANK-OFF ALL UNUSED OPENINGS IN FLOOR CELL SYSTEM.
- 6. UNLESS OTHERWISE INDICATED, EXISTING SERVICES. SYSTEMS AND WIRING SERVING EXISTING AREAS OUTSIDE OF DEMOLITION AREA SHALL REMAIN OR BE RELOCATED AS REQUIRED TO MAINTAIN OPERATION OF EXISTING SYSTEMS AND AVOID CONFLICT WITH NEW CONSTRUCTION.
- 7. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING CABLES AND DEVICES TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING.
- 8. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS COTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 9. COORDINATE WITH OWNER WHICH FIXTURES, DEVICES AND EQUIMPENT, IF ANY, ARE TO BE REMOVED, KEPT INTACT AND RETURNED TO THE OWNER. IN GENERAL, ALL DEVICES, WIRING, RACEWAYS, BOXES, SUPPORTS AND OTHER APPURTENANCES WHICH ARE TO BE REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED.
- 10. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ACCOMMODATE BOTH REMOVAL OF EXISTING AND INSTALLATION OF NEW WORK.
- 11. FEEDERS AND BRANCH CIRCUITS TO BE REMOVED: CONDUIT AND SUPPORTS SHALL BE REMOVED TO PANEL OF ORIGIN OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS.
- 12. THE REMOVAL OF ALL FIRE ALARM, COMMUNICATION, DATA AND SECURITY EQUIPMENT AND ASSOCIATED CABLING SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. EXISTING BASE BUILDING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING BOTH DEMOLITION AND CONSTRUCTION STAGES OF THIS PROJECT.
- 13. ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.

SHEET NOTES:

(1) EXISTING ELECTRICAL IN THIS AREA TO REMAIN, UON.

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PROJECT NO: 2022170

SHEET TITLE

DEMO PLAN

SHEET NO:

E101

DEMO PLAN

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



MAY 6, 2023

\ JULY 31, 2023 ADDENDUM 001

#### GENERAL NOTES:

- ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR
- GROUP MULTIPLE SWITCHES WITHIN 1" MAX, USE HI-LOW VOLTAGE PARTITIONS AS
- LOCATION OF WALL MOUNTED LOCAL LIGHTING SWITCHES IS SUBJECT TO MODIFICATION AT OR NEAR DOORS. INSTALL SWITCHES ON SIDE OPPOSITE DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR ANY WORK REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
- EMERGENCY LIGHT TEST SWITCH TO BE INTEGRAL TO ALL EMERGENCY FIXTURES, OTHER WISE LOCATION OF EMERGENCY LIGHT TEST SWITCH TO BE APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER 30 DAYS PRIOR TO ROUGH IN.
- ELECTRICAL CONTRACTOR TO OBTAIN APPROVAL ON ALL LIGHT SWITCH LOCATIONS 30 DAYS PRIOR TO ROUGH IN.
- 6 ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS EXITING PLAN AND PROVIDE EXIT SIGNS PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS LIGHTING PLANS, EXIT SIGNS MOUNTED ABOVE 10'AFF REQUIRE TEAM APPROVAL PRIOR TO
- ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS REFLECTED CEILING PLAN AND PROVIDE BID PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS PLAN.
- ELECTRICAL CONTRACTOR TO NOTIFY ARCHITECT AND ELECTRICAL ENGINEER FOR ANY FIXTURE CONFLICTS THAT PROHIBIT CORRECT INSTALL WITH FRAMING OR CEILING T-BAR OR CEILING SYSTEMS. PROVIDE MINIMUM OF 30 DAYS NOTICE PRIOR TO ROUGH IN.
- ELECTRICAL CONTRACTOR TO VERIFY LIGHT FIXTURE AND T-GRID COMPATABILITY PRIOR TO ORDER PROVIDE MINIMUM OF 30 DAYS NOTICE TO ENGINEER AND ARCHITECT IN THE EVENT OF CONFLICT.

# EGRESS LIGHTING NOTES:

- 1. FACES AND CHEVRONS ON EMERGENCY EXIT SIGNS TO MATCH ARCHITECTURAL
- 2. FOR EMERGENCY LIGHTING SHOWN, PROVIDE EMERGENCY LIGHTING CONTROL UNIT (ELCU OR EQUAL) AND CONNECT BOTH LOCAL CONTROLLED NORMAL POWER AND CONSTANT HOT EMERGENCY CIRCUIT SO THAT FIXTURE MAY BE CONTROLLED DURING MANUAL OPERATION AND PROVIDE 100% OUTPUT EMERGENCY LIGHTING DURING POWER OUTAGE.
- 3 PROVIDE ALL COST FOR COMPLETE INSTALLATION OF FIVE ADDITIONAL EXIT SIGNS. LOCATION TO BE DETERMINED DURING FINAL INSPECTION BY FIRE MARSHAL. TURN OVER EXTRA STOCK TO OWNER.
- 4 THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY MEANS OF EGRESS IS OCCUPIED.
- 5 EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPEMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 900 MINUTES.

#### SHEET NOTES:

1) INTERCEPT EXISTING CIRCUIT AND LIGHTING CONTROLS.



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

M M MS

**₩** 

LIGHTING PLAN

PROJECT NO: 2022170 SHEET TITLE

LIGHTING **PLAN** 

SAN DIEGO, CALIFORNIA 92123

SCHALL

MAY 6, 2023

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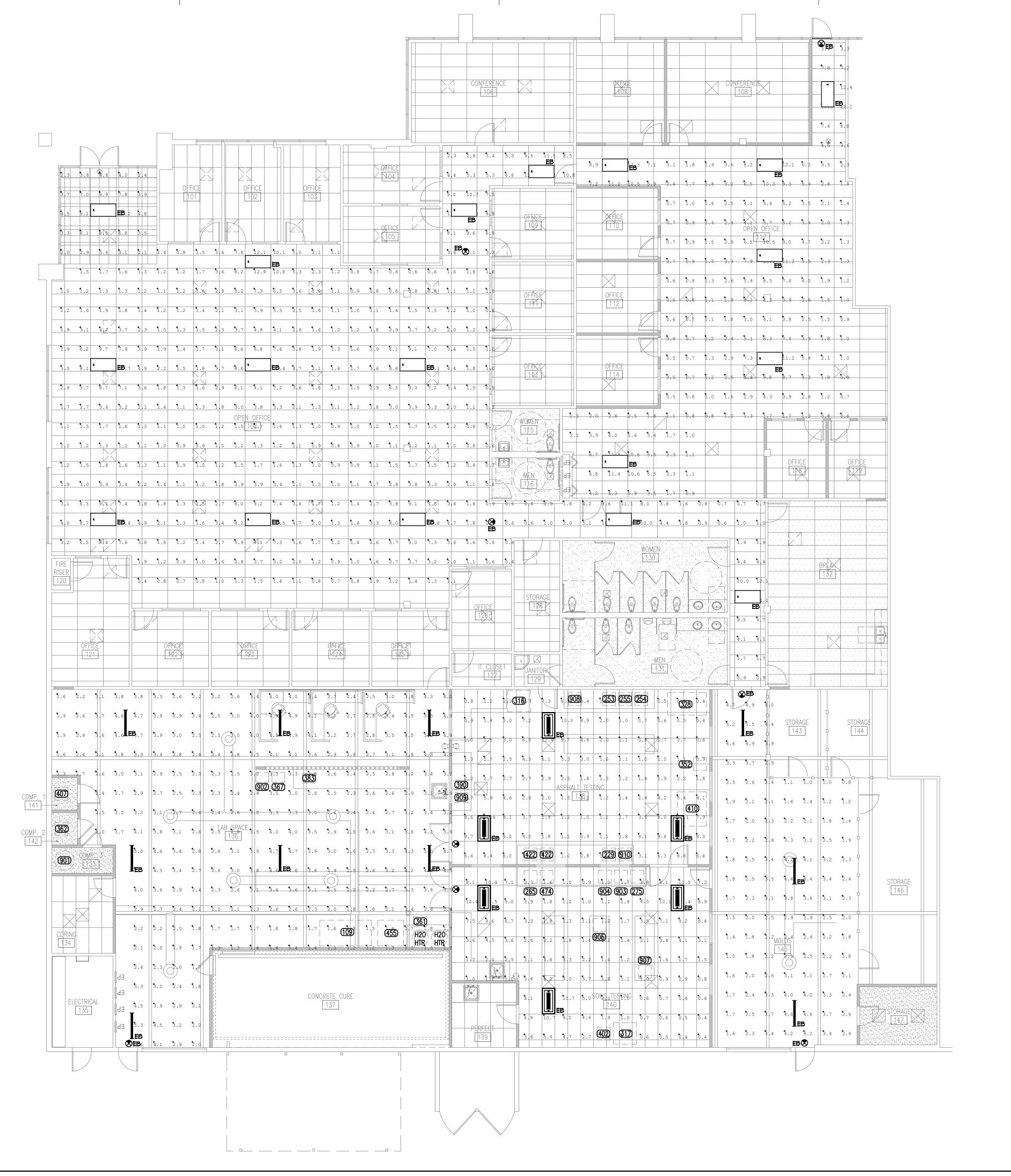
project no: 2022170

SHEET TITLE

EGRESS
PHOTOMETRIC
PLAN

SHEET NO:

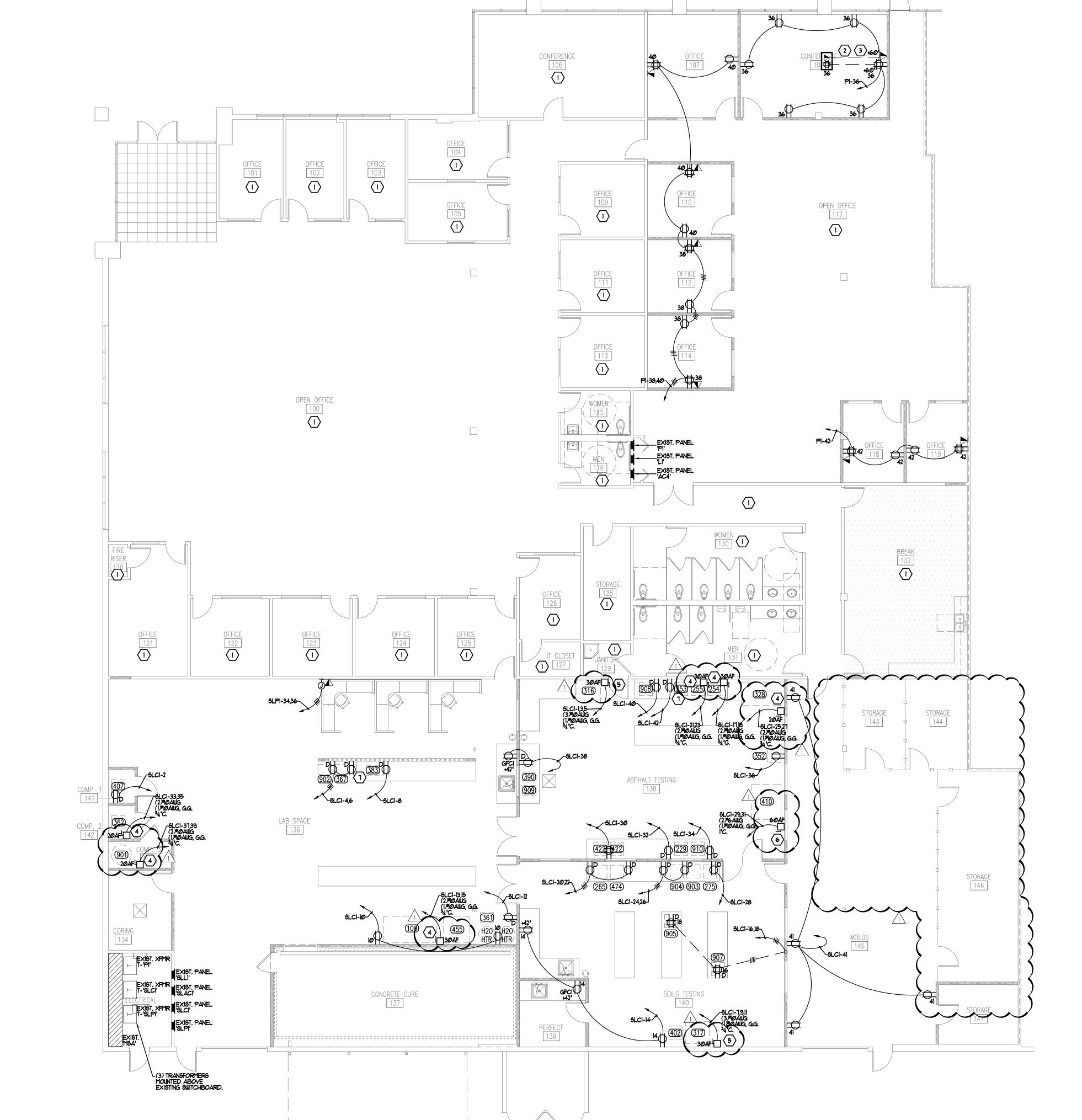
**E202** 



EGRESS PHOTOMETRIC PLAN

SCALE:

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### GENERAL NOTES:

- ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR
- PROVIDE 120Y CONNECTION TO DOOR HARDWARE/CONTROLLER AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH HARDWARE AND SECURITY VENDORS.
- ALL EXPOSED/SURFACE MOUNTED ELECTRICAL JUNCTION BOXES TO BE CAST TYPE.
- IF RELOCATING ANY ELECTRICAL PANELS, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AS NECESSARY.
- CONTRACTOR TO PROVIDE GFCI PROTECTION WHERE RECEPTACLES ARE INSTALLED WITHIN 6FT OF THE OUTSIDE EDGE OF ANY SINK, PROVIDE A GFCI CIRCUIT BREAKER AT PANEL BOARD FOR ALL CIRCUITS WHERE LAB SINKS ARE LOCATED AT BENCH TOP. IN ACCORDANCE WITH NEC 2108.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT INCLUDING DEVICES, CONDUIT RUNS, ETC. WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, AND ALL APPROPRIATE DISCIPLINES PRIOR TO INSTALLATION.
- REFER TO SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR FURTHER ELECTRICAL SYSTEM INFORMATION.
- REFER TO MECHANICAL AND PLUMBING PLANS FOR FINAL LOCATIONS OF
- REFER TO MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE FOR POWER CONNECTION REQUIREMENTS AND MAXIMUM OVERCURRENT PROTECTION
- ALL ELECTRICAL EQUIPMENT, DEVICES, AND BOXES SHALL BE IN WEATHERPROOF TYPE ENCLOSURE FOR OUTDOOR APPLICATIONS.
- ALL MULTIWIRE BRANCH CIRCUITS (INCLUDING SYSTEM FURNITURE) SHALL BE INSTALLED WITH DEDICATED NEUTRALS ROUTED IN HOMERUN TO THE PANEL FOR EACH CIRCUIT BEING UTILIZED OR HANDLE TIES IF ACCEPTABLE WITH LOCAL AHJ PER NEC 210.4(b).

### SHEET NOTES:

- (1) EXISTING ELECTRICAL IN THIS AREA TO REMAIN, UON.
- 2 CONFIRM ADDITIONAL REQUIREMENTS WITH TENANT AY VENDOR
- PROVIDE CLOCK STYLE OUTLETS IN THIS AREA. COORDINATE ADDITIONAL REQUIREMENTS WITH TENANT AY VENDOR.
- NEMA I 30A 2P RUSED DISCONNECT. COORDINATE FINAL RUSE SIZE WITH EQUIPMENT MANUFACTURER.
- NEMA 1 30A 3P RISED DISCONNECT. COORDINATE FINAL RISE SIZE WITH EQUIPMENT MANUFACTURER.
- NEMA I 60A 2P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH EQUIPMENT MANUFACTURER.
- 1 CONFIRM RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER.

PROJECT NO: 2022170 SHEET TITLE

**POWER PLAN** 

SHEET NO:

mpe consulting 10807 Thornmint Road, Ste 200 San Diego, CA 92127 p: 858.673.4445 www.mpeconsulting.com

POWER PLAN

1/8" = 1'-0"

Name	Model	Asset Identification Number	+	Display Picture	Serial Number	Electrical Requirements	Ventilation Requirements	Footing Requirements	Other Requirement
COX & Sons Kneading Compactor	CS 1000-B	₹ 316	San Diego Office	7 11	006-86	240v, 30A	No	No	43°L x 40°W x 78°h
COX & Sons Kneading Compactor	CS 1000-B	<b>₹</b> 317)	San Diego Office	H		240v. 30A	No	No	43°L x 40°W x 78°h
HUMBOLDT Pneumatic Direct Shear	HM-2560A.3F	265)	San Diego Office		1302335	120v, 20A	No	No :	Pneumatic
HUMBOLDT Conmatic IPC	HM-2470A.3F	(474)	San Diego Office		1210509	120v, 20A	No	No	Pneumatic
Quincy Lab Oven	40GC	275)	San Diego Office		G4- 003732	115V, 15A	No	No	
Test Mark Compaction Machine	CM-0060-DBR	<b>√</b> (402)	San Diego Office	28	25804	115V, 15A	No	Anchored to slab	
HUMBOLDT Master Loader	HM-3000.3F	(422)	San Diego Office		506289	115V, 15A	No	No.	
HUMBOLDT Master Loader	HM-3000.3F	(422)	San Diego Office	E I	1357389	115V, 15A	No	No	
Test Mark Compaction Machine	CM-400P-SD	<b>√</b> 109	San Diego Office	<b>P</b>	30305	115V, 15A	No	Anchored to slab	
FORNEY Rebar & Compression Machine	LT-900	455)	San Diego Office	4	65140	240V, 30A	No	Yes, 4Lx4Wx3D	97" fa I
Gilson Agitator	SS-18	229	San Diego Office	L	D-584	-115V,20A	No	Anchored to Bench/Table	

Supremeequip U.S.A. Rebar Bender	RB-32	<b>√</b> (361)	San Diego Office	PENDING	110V, 20A	No	No	
Quincy Lab Oven	21-350	<b>₹</b> 367)	San Diego Office	B23ERS-00225	120v, 20A	No	No	
NCAT Asphalt Content Furnace	F85930-30	<b>√</b> 254)	San Diego Office	1.27505E+12	240V, 30A	Yes	No	Exhaust vent Not to exceed 10', min mun 3" I.D. seamless stee tubing
NCAT Asphalt Content Furnace	F85930-30	<b>₹</b> 255	San Diego Office		240V, 30A	Yes	No :	Exhaust vent Not to exceed 10', minimum 3" I.D. seamless stee turbing.
Quincy Lab Oven	31-350S	<b>₹</b> 353	San Diego Office		115V, 20A	No	No	
Grieve Lab Oven	SA-350	<b>√</b> 328	San Diego Office	610194	230V, 20A	Yes	No	78°L x 41°w x 75°h,
Pine Gyratory Compactor	AFG2AS	<b>√</b> (352)	San Diego Office	8254	115V, 12A	No	No	
Gilson Testing Screen	TS-1	<b>√ 407</b>	San Diego Office	13881	120v. 20A	No	Anchored to slab	
TROXLER Hamburg Wheel Tracker	PMV Wheel Tracker	<b>√</b> 410	San Diego Office	67548	240V, 60A	No	Anchored to slab	Pneumatic, 64"L x 54"w x 85"h, requires water input and a drain.
LA Rattler	B0890-EX1910	<b>√</b> 362	San Diego Office	H-73-3994A-18	220V, 20A	No	Anchored to slab	
Air Compressor	Grainger SS3L3	<b>901</b>	San Diego Office	CBV805873	240V, 20A		Anchored to concrete	80 Gallon

Proctor Machine	Compactor M100-2	902	San Diego Office	1243	120v, 20A	No	Anchored to concrete	
Tri-Flex 2 Master Control Panel	25-0696/02	903	San Diego Office	H130701		No	No	
Fri-Fiex 2 Auxillary Control Panel	25-0699	904)	San Diego Office	H121202		No	No	
Scale	A\$3102	<b>905</b>	San Diego Office	8026171047	120v, 20A	No	No	
Scale	AX8201/E	<b>√</b> 906	San Diego Office	B842616678	120v, 20A	No	No	
Water Bath	97014-16	907)	San Diego Office	7	120v, 20A	No	No	
Scale	GP-20K	(485)	San Diego Office	14711937	120v. 20A	No	No	
Scale	Explorer E0F110	908	San Diego Office	F1731120192267	120v, 20A	No	No	
Specfic Gravity tank	SGA-122	<b>909</b>	San Diego Office	1		No	Needs a base/stand	connected to drain
Scale	EP12001	<b>√</b> 390	San Diego Office	112715026	120v, 20A	No	No	
Soils Microwave	EM925AJW-P1	910	San Diego Office	EB0236858101690611101	120v. 20A	No	No	
Scale	HW-60KGL	383	San Diege Office	M7307199	120v, 20A	No	No	





MAY	6,	2023	
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PROJECT NO: 2022170

SHEET TITLE

**EQUIPMENT** LIST



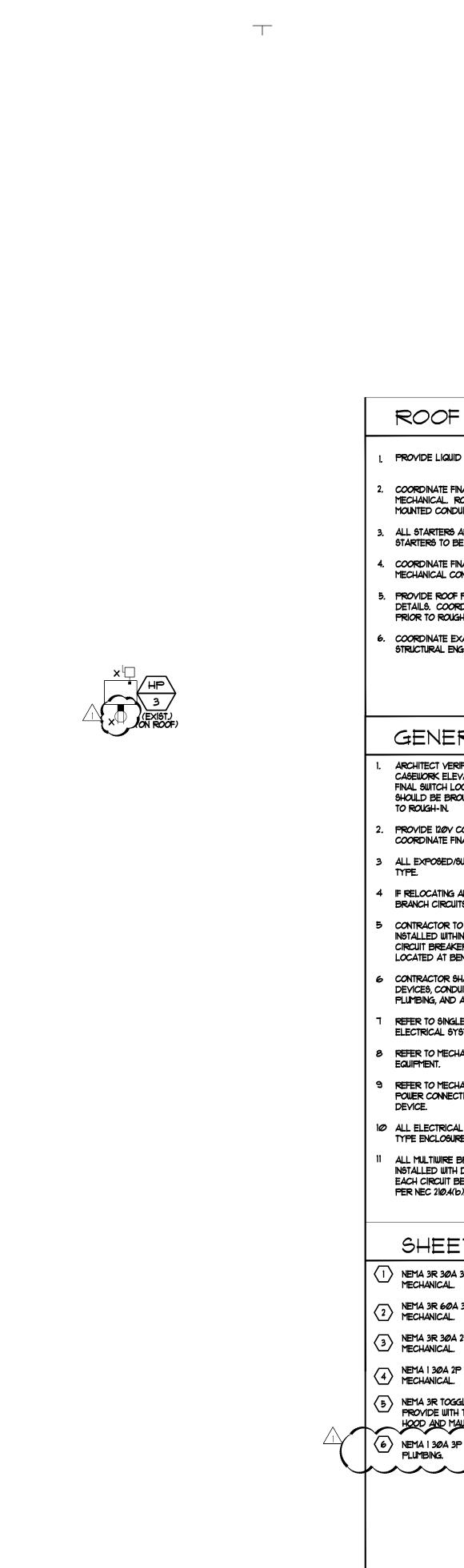
SCHALL

**ARCHITECTS** 

5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835

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STORAGE 144

STORAGE 146

SLAC1-8,1012

### ROOF NOTES:

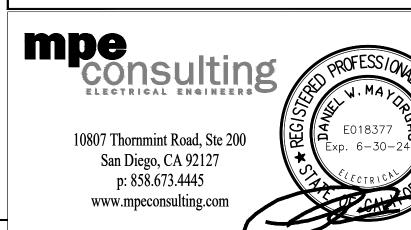
- PROVIDE LIQUID TIGHT FINAL CONNECTION TO MECHANICAL UNIT.
- COORDINATE FINAL LOCATION OF ALL ELECTRICAL FEED LOCATIONS WITH MECHANICAL. ROOF PENETRATIONS TO BE LOCALIZED TO FEED LOCATIONS. ROOF MOUNTED CONDUIT AND SLEEPER ARE NOT TO BE INSTALLED.
- ALL STARTERS ARE FULL VOLTAGE, NON-REVERSING UNLESS NOTED OTHERWISE. STARTERS TO BE PROVIDED WITH HOA, AND 24V CONTROL TRANSFORMER.
- . COORDINATE FINAL CONTROL POWER AND CONDUIT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE ROOF PENETRATION AND FLASHING PER ARCHITECTURAL ROOFING DETAILS. COORDINATE ALL ROOF PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- 6. COORDINATE EXACT WEIGHT OF ALL ELECTRICAL EQUIPMENT OVER 500LBS WITH STRUCTURAL ENGINEER.

### GENERAL NOTES:

- ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR
- PROVIDE 120V CONNECTION TO DOOR HARDWARE/CONTROLLER AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH HARDWARE AND SECURITY VENDORS.
- ALL EXPOSED/SURFACE MOUNTED ELECTRICAL JUNCTION BOXES TO BE CAST
- FRELOCATING ANY ELECTRICAL PANELS, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AS NECESSARY.
- CONTRACTOR TO PROVIDE GFCI PROTECTION WHERE RECEPTACLES ARE INSTALLED WITHIN 6FT OF THE OUTSIDE EDGE OF ANY SINK PROVIDE A GFCI CIRCUIT BREAKER AT PANEL BOARD FOR ALL CIRCUITS WHERE LAB SINKS ARE
- 6 CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT INCLUDING DEVICES, CONDUIT RUNS, ETC. WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, AND ALL APPROPRIATE DISCIPLINES PRIOR TO INSTALLATION.
- REFER TO SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR FURTHER ELECTRICAL SYSTEM INFORMATION.
- REFER TO MECHANICAL AND PLUMBING PLANS FOR FINAL LOCATIONS OF
- REFER TO MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE FOR POWER CONNECTION REQUIREMENTS AND MAXIMUM OVERCURRENT PROTECTION
- 10 ALL ELECTRICAL EQUIPMENT, DEVICES, AND BOXES SHALL BE IN WEATHERPROOF TYPE ENCLOSURE FOR OUTDOOR APPLICATIONS.
- ALL MULTIWIRE BRANCH CIRCUITS (INCLUDING SYSTEM FURNITURE) SHALL BE INSTALLED WITH DEDICATED NEUTRALS ROUTED IN HOMERUN TO THE PANEL FOR EACH DISCUSSION UTILIZED OR HANDLE TIES IF ACCEPTABLE WITH LOCAL AHJ

### SHEET NOTES:

- NEMA 3R 30A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH MECHANICAL.
- NEMA 3R 600A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH MECHANICAL.
- NEMA 3R 3ØA 2P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH MECHANICAL.
- NEMA I 30A 2P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH MECHANICAL.
- NEMA 3R TOGGLE FRACTIONAL HORSEPOWER RATED MANUAL MOTOR STARTER, PROVIDE WITH THERMAL OVERLOADS, TO BE INTERLOCKED WITH EXHAUST
- HOOD AND MALL-I. COORDINATE FINAL CONTROLS WITH MECHANICAL.
- 6 NEMA I 30A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE WITH



MECHANICAL PLAN

FC 2

EXIST. XFMR SLCI'

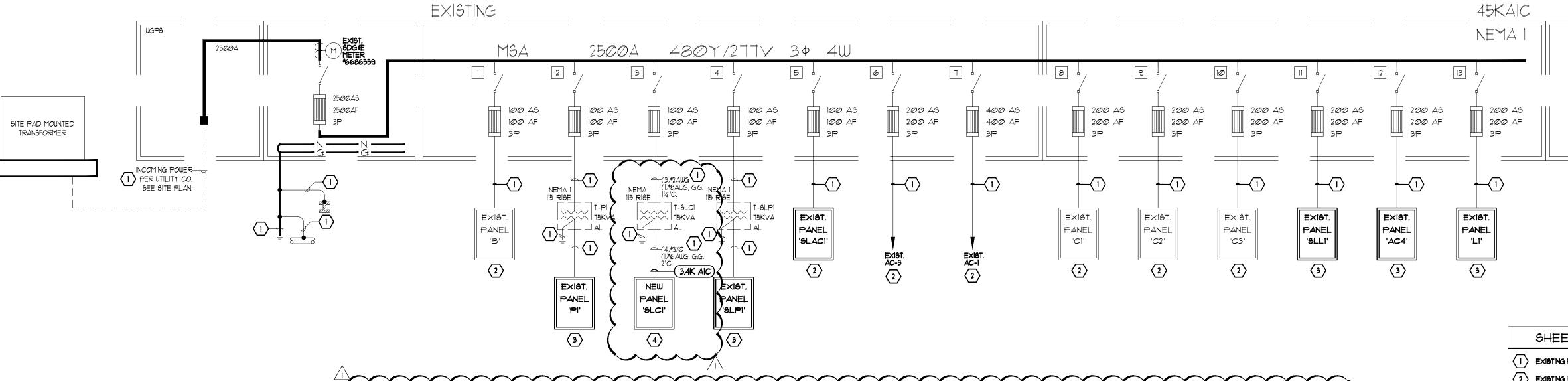
(SD) (ON ROOF)

1/8" = 1'-0"

PROJECT NO: 2022170

SHEET TITLE **MECHANICAL** 

**PLAN** 



### SHORT CIRCUIT CALCULATIONS THE FOLLOWING CALCULATIONS ARE BASED ON THE POINT BY METHOD WHERE: $\frac{|\text{SC}=|\text{SC}\times\text{M} \quad \text{M}=|\text{I}/(\text{I}+\text{F})}{C\times E} \qquad \frac{\text{F}=1.732\times L\times I}{C\times E} \qquad \text{XFMR: } |\text{P(SCA)}= \qquad \frac{|\text{P(SCA)}\times\text{Vp}\times\text{%Z}}{|\text{IOO}\text{POO}\times\text{KVA}} \qquad |\text{S(SCA)}= \qquad \frac{\text{Vp}\times\text{M}\times |\text{S(SCA)}|}{\text{V6}}$ Conduit Set(S) of Source I Conductor E (volts) Length 1 208 10 ISC Fault Point Panel Name (amps) Type WIRE SIZE CU C Value Conductor KVA XFMR Z 3496 13923 0.020910703 | 0.979517598 | 3425 | 0.03% Conduit Type WIRE SIZE CU KVA XFMR Z C Value Fault Point Panel Name 10 75 5.7 0.268654864 0.788236445 6044 PRIMARY XFMR T-SLC1 45000 5.7 22.41154218 0.042713974 3496 SECONDARY XFMR T-SLC1 35471 NM 13923

### SHEET NOTES:

- 1) EXISTING FEEDER TO REMAIN, NO NEW WORK
- 2 EXISTING ELECTRICAL LOAD TO REMAIN, NO NEW WORK
- EXISTING ELECTRICAL EQUIPMENT WITH REVISED LOAD, SEE UPDATED PANEL SCHEDULES.
- REPLACE EXISTING PANEL WITH NEW 225A, 66 CIRCUIT 120/208Y PANEL. SEE PANEL SCHEDULE.

### SINGLELINE NOTES

- 1. ALL FUSES SHALL BE CURRENT LIMITING CLASS RKI, TYPE LPS-RK-SP. (FAST ACTION 600V)
- 2. ALL CONDUCTORS FEEDING PANELBOARDS SHALL BE COPPER TYPE 'THUN' WITH EMT CONDUIT. BRANCH CIRCUIT AND FEEDER CABLES IN ALL SIZES SHALL HAVE 'THUN', 'THHN' OR 'THUN' INSULATION WITH EMT CONDUIT. AC CABLE IS NOT ALLOWED TO BE INSTALLED. AN EQUIPMENT GROUND CONDUCTOR SHALL BE IN ALL FLEXIBLE CONDUITS. 'XHHW' TO BE USED AT ALL EXTERIOR LOCATION PANEL
- 3. ALL EQUIPMENT SHOWN IS EXISTING UNLESS NOTED OTHERWISE.
- 4. ALL TERMINATION LUGS OF PANELS AND SWITCHBOARDS TO BE RATED TO ACCEPT 15 DEGREE CONDUCTORS.
- 5. THE CONTRACTOR SHALL PROVIDE A SERIES RATED SYSTEM TO ENSURE THAT ALL ELECTRICAL COMPONENTS OF THIS SYSTEM EXCEED THE MAXIMUM SHORT CIRCUIT WITHSTAND RATING AVAILABLE. PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL SWITCHBOARDS AND PANELBOARDS TO DENOTE THE USE OF SERIES RATED DEVICES
- 6. PROVIDE COMPLETE ARC FLASH ANALYSIS AND ARC FLASH LABELING WITH PROPER PPE VALUES AND EXACT APPROACH BOUNDARIES. STANDARD ARC FLASH WARNING LABELS WILL NOT BE ACCEPTED UNLESS CALCULATED SPECIFICALLY FOR THIS SYSTEM. STUDY AND LABELING WILL INCLUDE ALL SWITCHBOARDS, TRANSFORMERS, PANELS AND FUSE SWITCHES FOR EXISTING AND NEW SYSTEM.



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# B AERO DRIVE

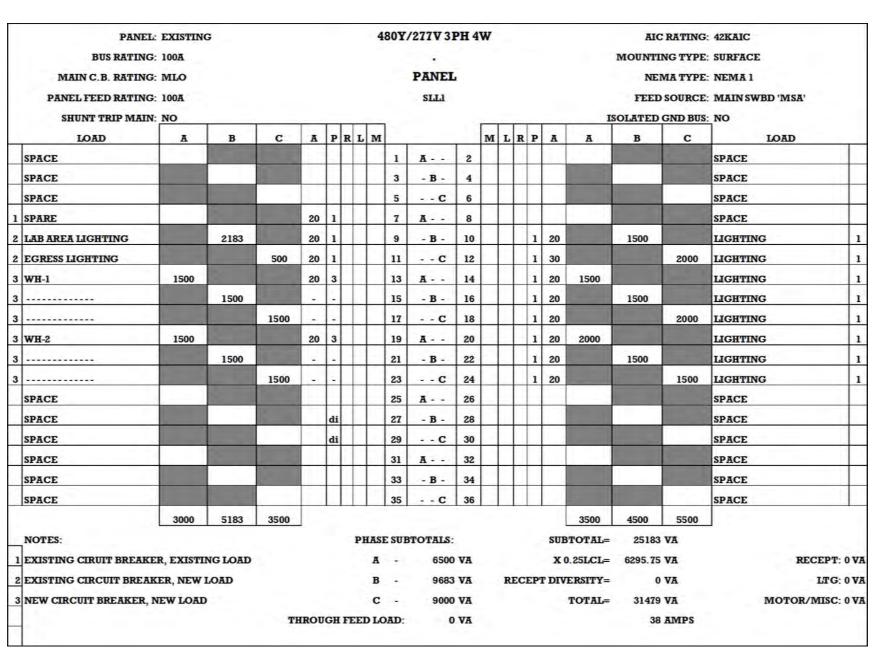
PROJECT NO: 2022170

SHEET TITLE

SINGLELINE

SHEET NO:

E501



PANEL: BUS RATING:	EXISTING	G						208	BY/	120 <b>V</b> 3 <b>F</b>	РН 4	W								: 10KAIC : SURFACE
MAIN C.B. RATING:										PANEL							-			: NEMA 1
PANEL FEED RATING:										P1										: MAIN SWBD. (XFMR 'T-F
SHUNT TRIP MAIN:										••							TSC	LATED (		
LOAD	A	В	c	A	P	R	L	м				м	L	R	P	A	A	В	С	LOAD
BREAK DED RECEPT	1000	No.		20	1	1	ī		1	A	2	-	Ĩ		1	20	600			SYSTEMS FURNITURE
BREAK DED RECEPT	1000	700		20	1				3	- B -	4				1	20		600		SYSTEMS FURNITURE
BREAK DED RECEPT		100	500	20	1				5	C	6				1	20			600	SYSTEMS FURNITURE
BREAK DED RECEPT	500			20	1				7	A	8				1	20	600			SYSTEMS FURNITURE
BREAK DED RECEPT	300	700		20	1				9	- B -	10				1	20	000	600		SYSTEMS FURNITURE
RECEPTS		100	540	20	1				11	C	12		П		1	20		000	600	SYSTEMS FURNITURE
EF-1, EF-2, EF-3, GFI REC	720	F	510	20	1				13	A	14				1	20	600	7	000	SYSTEMS FURNITURE
DEDICATED RECEPT	120	500		20	1				15	- B -	16				1	20	000	600		SYSTEMS FURNITURE
DEDICATED RECEPT		300	500	20	1				17	C	18		П		1	20		000	600	SYSTEMS FURNITURE
DEDICATED RECEPT	500		300	20	1				19	A	20		П		1	20	600		-	SYSTEMS FURNITURE
	DICATED RECEPT 500			20	1				21	- B -	22		П		1	20	000	600		SYSTEMS FURNITURE
DEDICATED RECEPT				20	1		Н		23	C	24				1	20		000	600	SYSTEMS FURNITURE
EF-1, RECEPT	400		300	20	1				25	A	26		П		1	20	600		000	SYSTEMS FURNITURE
RECEPTACLES	100	720		20	1				27	- B -	28		П		1	20	000	600		SYSTEMS FURNITURE
RECEPTACLES		120	540	20	1				29	C	30		П		1	20		000	600	SYSTEMS FURNITURE
RECEPTACLES	360		310	20	1				31	A	32				1	20	720			RECEPTACLES
RECEPTACLES	000	360		20	1				33	- B -	34				1	20	120	720		RECEPTACLES
RECEPTACLES		500	720	20	1				35	с	36				1	20		120	900	CONFERENCE ROOM
EF-5, RECEPT	400		120	20	1				37	A	38		П		1	20	540	7	300	OFFICE RECEPTS
GFI RECEPTS	100	360		20	1				39	- B -	40		П		1	20	010	540		OFFICE RECEPTS
RECEPTACLES		300	540	20	1				41	C	42		П		1	20		310	720	OFFICE RECEPTS
RECEPTACIES	3880	3840	3840	20	1				41		146				1	20	4260	4260	4620	OFFICE RECEPTS
NOTES:	3660	3040	3040	1			DE	INCE	CIID	TOTALS:						eme	STOTAL=	24700		1
EXISTING CIRUIT BREAKE	P FVICTI	NG LOAD					FL	A		8140							0.25LCL=	6175		RECEPT
EXISTING CIRCUIT BREAKI								-		8100				pr/	TPD		ERSITY=		VA	LTG
NEW CIRCUIT BREAKER, N								C		8460				ILE (	LP	I DIV	TOTAL=	30875		MOTOR/MISC

PANEL:	EXISTIN	G						208	Y/1	20 <b>V</b> 3P	H 4	W						AIC	RATING	: 10KAIC
BUS RATING:	225A																N	IOUNTI	NG TYPE	: SURFACE
MAIN C.B. RATING:	MLO								F	ANEL								NEN	ЛА ТҮРЕ	: NEMA 1
PANEL FEED RATING:	200A									SLP1								FEED	SOURCE	: MAIN SWBD. (XFMR 'T-SL
SHUNT TRIP MAIN:	NO					-	_	_			- 1		_		_	-	ISC	LATED	GND BUS	: NO
LOAD	A	В	С	A	P	R	L	М	-			M	L	R	P	A	A	В	С	LOAD
TEST EQUIPMENT	500			20	1		1		1	A	2				3	100				SUITE B (SPARE)
LUNCH ROOM		540		20	1		1		3	- B -	4			_	-	-				
POLE 14			600	20	1				5	C	6			_	-					
CUSTOMER SERVICE	720			20	1		$\perp$		7	A	8	Ш			3	30	2000			HOUSE PANEL
REFRIG ADMIN REEPT		700		20	1				9	-В-	10				-			2000		
LOBBY, MGR#1, MGR#2			720	20	1			1	11	C	12				-	2			2000	
124 CEILING RECEPT	200			20	1				13	A	14				1	20	600			POLE 3
CUSTOMER SERVICE		720		20	1			1	15	- B -	16				1	20		372		EF-25
FRONT HALL 102,103			720	20	1			1	17	C	18				1	20			600	RECEPTION ADMIN POLE
128,124 RECEPT	720			20	1			1	19	A	20				1	20	720			RECEPTION ADMIN
124 RECEPT		360		20	1			1	21	- B -	22				1	20		360		FAX ROOM 137
COORDINATOR, 125,126			720	20	1			1	23	C	24				1	20			540	RECEPTION ADMIN
MAIN WORK WEST	720			20	1			1	25	A	26				1	20	1000			PC ROOM PRINTER
128,129,COMP		720		20	1			2	27	- B -	28				1	20		540		CUSTOMER SERVICE
SPARE				100	2			2	29	C	30				1	20			540	CUSTOMER SERVICE
					4				31	A	32				1	20	200			124 CEILING RECEPT
SMOKE DETECTOR		400		30	1			1	33	- B -	34				1	20		600		SYSTEMS FURNITURE
CU-2			1131	20	2			1	35	C	36				1	20			600	SYSTEMS FURNITURE
	1131							1	37	A	38				1	20	900			ROOF RECEPT
FC-2		107		20	2				39	-В-	40				2	100				SPARE
			107						41	C	42				-					
	3991	3547	3998														5420	3872	4280	
NOTES:							PHA	ASE S	UBT	OTALS:						SUB	TOTAL=	25108	VA	
EXISTING CIRUIT BREAKE	R, EXISTI	NG LOAD						A	-	9411	VA					X 0	.25LCL=	6277	VA	RECEPT: 0
2 EXISTING CIRCUIT BREAK	XISTING CIRCUIT BREAKER, NEW LOAD							В		7419	VA			REC	EP	T DIV	ERSITY=	0	VA	LTG: 0
3 NEW CIRCUIT BREAKER, N	EW CIRCUIT BREAKER, NEW LOAD							С		8278	VA						TOTAL=	31385	VA	MOTOR/MISC: 0
				тн	ROUG	GH F	EED	LOA	D:	0	VA							88	AMPS	

SPACE   SPAC	PANEL	EXISTING	G				4	80Y	/277 <b>V</b> 31	PH 4V	V					AIC	RATING	: 14KAIC	
PANEL FEED RATING: 100A  SHUNT TRIP MAIN: NO  LOAD  A  B  C  A  P  R  L  N  M  L  R  R  R  R  R  R  R  R  R  R  R  R	BUS RATING	: 100A														MOUNTI	NG TYPE	: SURFACE	
SHUNT TRIP MAIN: NO  LOAD  A B C A P R L M L R P A A B C TOND  RTU-13	MAIN C.B. RATING	: MLO							PANEL	į.						NE	МА ТҮРЕ	: NEMA 1	
LOAD   A   B   C   A   P   R   L   M   M   L   R   P   A   A   B   C   TOAT	PANEL FEED RATING	: 100A							SLAC1							FEED	SOURCE	: MAIN SWBD 'MSA'	
2 SPARE	SHUNT TRIP MAIN	: NO													IS	OLATED	GND BUS	: NO	
SPACE   SPAC	LOAD	A	В	С	A	PR	L M				M	LR	P	A	A	В	С	TOAT	_
RTU-19	ARE				50	3		1	A	2			3	30	3060			RTU-13	I
### RTU-19   6592   30 3   7   A   8   3   20   2354   RTU-8   RTU					-	-		3	-В-	4						3060			
6592					-			5	C	6							3060		
SPACE   SPAC	U-19	6592			30	3		7	A	8			3	20	2354			RTU-8	
RTU-18			6592					9	- B -	10			-	2.		2354			
3		)		6592	1	-		11	C	12			-				2354		
3	U-18	2589			20	3		13	A	14								SPACE	T
SPACE   SPAC			2589					15	- B -	16							300	SPACE	
SPACE   SPAC				2589		_		17	C	18			П					SPACE	
SPACE   SPAC	AU-1	3988			20	3		19	A	20								SPACE	
SPACE       25 A - 26       -       SPACE         SPACE       27 - B - 28       SPACE         SPACE       29 - C 30       SPACE         SPACE       31 A - 32       SPACE         SPACE       33 - B - 34       SPACE         SPACE       35 - C 36       SPACE         SPACE       37 A - 38       SPACE         SPACE       39 - B - 40       SPACE         SPACE       39 - B - 40       SPACE         SPACE       SPACE       SPACE      <			3988		-	- )		21	- B -	22								SPACE	
SPACE       27				3988		- 1		23	C	24			П					SPACE	
SPACE         29 C 30         SPACE           SPACE         31 A - 32         SPACE           SPACE         33 - B - 34         SPACE           SPACE         35 - C 36         SPACE           SPACE         37 A - 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 - C 42         SPACE           NOTES:         PHASE SUBTOTALS:         SUBTOTAL= 55749 VA           RECE         18583 VA         X 0.25LCL= 5817 VA         RECE	ACE				人			25	A	26		Ι.						SPACE	
SPACE         29 C 30         SPACE           SPACE         31 A 32         SPACE           SPACE         33 - B - 34         SPACE           SPACE         35 C 36         SPACE           SPACE         37 A 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 C 42         SPACE           NOTES:         PHASE SUBTOTALS:         SUBTOTAL= 55749 VA           RECE         18583 VA         X 0.25LCL= 5817 VA         RECE	ACE							27	-В-	28								SPACE	
SPACE         31 A 32         SPACE           SPACE         33 - B - 34         SPACE           SPACE         35 C 36         SPACE           SPACE         37 A 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 C 42         SPACE           NOTES:         PHASE SUBTOTALS:         SUBTOTAL=         55749 VA           LEXISTING CIRUIT BREAKER, EXISTING LOAD         A - 18583 VA         X 0.25LCL=         5817 VA         RECE								29		30									
SPACE         35 - C 36         SPACE           SPACE         37 A - 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 - C 42         SPACE           SPACE         SPACE         SPACE								31	A	32			П					SPACE	
SPACE         37 A 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 C 42         SPACE           13169 13169 13169         5414 5414 5414           NOTES:         PHASE SUBTOTALS:         SUBTOTAL= 55749 VA           1 EXISTING CIRUIT BREAKER, EXISTING LOAD         A - 18583 VA         X 0.25LCL= 5817 VA         RECE	ACE			0 1				33	- B -	34			П					SPACE	
SPACE         37 A 38         SPACE           SPACE         39 - B - 40         SPACE           SPACE         41 C 42         SPACE           13169 13169 13169         5414 5414 5414           NOTES:         PHASE SUBTOTALS:         SUBTOTAL= 55749 VA           1 EXISTING CIRUIT BREAKER, EXISTING LOAD         A - 18583 VA         X 0.25LCL= 5817 VA         RECE	ACE							35	C	36			П					SPACE	$\neg$
SPACE         39 - B - 40         SPACE           SPACE         41 - C 42         SPACE           13169 13169 13169         5414 5414 5414         5414 5414           NOTES:         PHASE SUBTOTALS:         SUBTOTAL= 55749 VA           1 EXISTING CIRUIT BREAKER, EXISTING LOAD         A - 18583 VA         X 0.25LCL= 5817 VA         RECE								37		38			П						
SPACE								39		40			П					SPACE	
13169   13169   13169													$\Box$						1
NOTES: PHASE SUBTOTALS: SUBTOTAL= 55749 VA  EXISTING CIRUIT BREAKER, EXISTING LOAD A - 18583 VA X 0.25LCL= 5817 VA RECE		13169	13169	13169	1										5414	5414	5414		
EXISTING CIRUIT BREAKER, EXISTING LOAD A - 18583 VA X 0.25LCL= 5817 VA RECE	OTES:					- 1	PHAS	E SII F	TOTALS.					SIIB				_	
		ER. EXISTI	NG LOAD							VA								RECEPT	r: 0
											1	REC	EPT					LTC	
NEW CIRCUIT BREAKER, NEW LOAD C - 18583 VA TOTAL= 61566 VA MOTOR/MI																		MOTOR/MISO	
THROUGH FEED LOAD: 0 VA 75 AMPS	Sanova biwhiteh,	HOM		TO 12	IDOII	CH PE									- OIM				0

	PANEL	EXISTING	;					4	80Y	277V 3	PH 4	W					AIC	RATING	: 14KAIC	
	BUS RATING:	225A															MOUNTI	NG TYPE	SURFACE	
	MAIN C.B. RATING:	MLO								PANEI							NE	MA TYPE	: NEMA 1	
	PANEL FEED RATING:	200A								Ll							FEED	SOURCE	: MAIN SWBD 'MSA'	
	SHUNT TRIP MAIN:	NO														IS	OLATED	GND BUS	NO	
	LOAD	A	В	С	A	P	R L	м				м	LR	P	A	A	В	С	LOAD	
I	XITS SIGN, LIGHTING	920			20	1			1	A	2			Ш					SPACE	
E	XITS SIGN, LIGHTING		1045		20	1			3	- B -	4								SPACE	7
E	XITS SIGN, LIGHTING			1200	20	1			5	C	6								SPACE	
0	OFF, CONF LIGHTING	315			20	1			7	A	8			1	20	1400			LIGHTING	
S	PACE				20	3			9	- В -	10			1	20		1502		LIGHTING	1
S	PACE				-	-			11	C	12			1	30			6000	INSTAHOT SR-40	1
S	PACE					-			13	A	14			1	20	4000			INSTAHOT SR-20	
S	PACE								15	- B -	16			1	20		4000		INSTAHOT SR-20	
S	PACE								17	C	18			1	20			4000	INSTAHOT SR-20	
S	PACE								19	A	20			1	20	4000			INSTAHOT SR-20	
S	PACE								21	-В-	22			1	20		4000		INSTAHOT SR-20	
S	PACE								23	C	24			1	20			4000	INSTAHOT SR-20	
S	PACE								25	A	26								SPACE	
S	PACE								27	- В -	28								SPACE	
S	PACE								29	C	30						3		SPACE	
S	PACE								31	A	32	Ш				1			SPACE	-34
s	PACE								33	- B -	34								SPACE	
S	PACE								35	C	36								SPACE	
		1235	1045	1200												9400	9502	14000		
1	IOTES:						P	HASE	SUB	TOTALS					SUE	STOTAL=	36382	VA		
E	XISTING CIRUIT BREAKE	R, EXISTIN	IG LOAD					A		10635	VA				x	).25LCL=	9095.5	VA	RECEP	T: 0 V
2	XISTING CIRCUIT BREAK	ER, NEW I	OAD					В		10547	VA		REC	EPT	r DIV	ERSITY=	0	VA	LT	G: 0 V
3 1	EW CIRCUIT BREAKER, N	EW LOAD						C		15200	VA					TOTAL=	45478	VA	MOTOR/MIS	C: 0 V
				T	HROU	GH I	FEE	DLO	AD:		VA						55	AMPS		
1																				

SHUNT TRIP MAIN	: NO								1		1			-			I:	OLATED	GND BUS	: NO
LOAD	A	В	С	A	P	R	L	M	Ι.,			M	L	R	P	A	A	В	С	LOAD
(316) COMPACTOR	1548			30	3				1	A	2				1	20	500			(407) GILSON TEST SCREEN
		1548		-	1				3	- B -	4			_	1	20		500		(902) PROCTOR MACHINE
			1548	-	-				5	C	6				1	20			1000	(367) QUINCY LAB OVEN
(317) COMPACTOR	1548			30	3				7	A	8		11		1	20	200			(383) SCALE
		1548		-					9	- B -	10				1	20		500		(109) TEST MARK COMP
			1548		_				11	C	12				1	20			700	(361) REBAR BENDER
(455) COMPRESSION	1500			30	2				13	A	14		7.1		1	20	500			(402) TEST MARK COMP
		1500							15	- B -	16				1	20		500		(905) SCALE
(254) NCAT FURNACE			2392	30	2				17	C	18				1	20			500	(907) WATER BATH
	2392								19	A	20				1	20	500			(265) HUMBOLDT SHEAR
(255) NCAT FURNACE		2392		30	2				21	- B -	22				1	20		500		(474) HUMBOLDT IPC
			2392						23	C	24		1.		1	20			200	(904) TRIFLEX PANEL
(328) GRIEVE LAB OVEN	2080			30	2				25	A	26				1	20	200			(903) TRIFLEX MASTER
		2080							27	- B -	28				1	20		1000		(275) QUINCY LAB OVEN
(410) TROXLER TRACKER			3848	60	2				29	C	30				1	20	1		1000	(422) HUMBOLDT LOADER
	3848								31	A	32				1	20	500			(229) GILSON AGITATOR
(362) LA RATTLER		936		20	2				33	- B -	34				1	20		1000		(910) SOILS MICROWAVE
			936						35	C	36				1	20			1380	(352) PINE COMPACTOR
(901) AIR COMPRESSOR	1560			20	2				37	A	38				1	20	500			(390) SCALE
	1000	1560		il.					39	- B -	40				1	20				(908) SCALE
MOZDS RECEPTS	<b>\</b>	~	720	20	Т			_	41	C	42				1	20				(353) QUINCY LAB OVEN
CU-3	1131			20	2		[:1]		43	A	44		工		1	20				SPARE
intami.		1131							45	- B -	46	_			1	20				SPARE
FC-3			107	20	2				47	c	48				1	20			1 .	SPARE
	107								49	A	50		$\Box$		1	20				SPARE
SPARE		$\mathcal{I}$		20	1	$\overline{}$			51	- B -	52				1	20				SPARE
SPARE				20	1				53	C					1	20			1. 1.	SPARE
SPARE				20	1				55	A	56				1	20				SPARE
SPARE		11		20	1				57	- B -	58				1	20	1 3			SPARE
SPARE				0.00	1				59	C	U.J					7950				SPARE
SPARE	1			20	1				61	A					1	20				SPARE
SPARE				20	1				63	- B -	64				1	20				SPARE
SPARE				20	114				65	C	5.7				1	1500				SPARE
	15714	12695	13491						100		1001				-		2900	4000	4780	
NOTES:							PI	HASE	SIIF	TOTALS:						SII	BTOTAL=	53580		
										18614							0.25LCL=		VA	RECEPT: 0
										16695							VERSITY=		VA	LTG: 0 V

480Y/277V 3PH 4W

PANEL

15 - B - 16

23 - - C 24 -25 A - - 26 -

37 A - - 38

A - 20661 VA

C - 20661 VA

208Y/120V 3PH 4W

THROUGH FEED LOAD: 0 VA

PANEL: EXISTING

15161 15161 15161

BUS RATING: 225A

MAIN C.B. RATING: MLO

PANEL FEED RATING: 200A

SHUNT TRIP MAIN: NO

DO NOT USE

NOTES:

1 EXISTING CIRUIT BREAKER, EXISTING LOAD

PANEL: NEW

2 EXISTING CIRCUIT BREAKER, NEW LOAD

3 NEW CIRCUIT BREAKER, NEW LOAD

DO NOT USE

AIC RATING: 14KAIC

NEMA TYPE: NEMA 1

FEED SOURCE: MAIN SWBD 'MSA'

DO NOT USE

3000 EXISTING AC

RECEPT: 0 VA

MOTOR/MISC: 0 VA

LTG: 0 VA

MOUNTING TYPE: SURFACE

X 0.25LCL= 15495.75 VA

TOTAL= 77479 VA

94 AMPS

AIC RATING: 10KAIC

SLL1	SLACI	AC4
PI	LI	SLC1
SLPI		





MAY	6,	2023		

JULY 31, 2023 ADDENDUM 001

## 9085-B AERO DRIVE SAN DIEGO, CALIFORNIA 9212

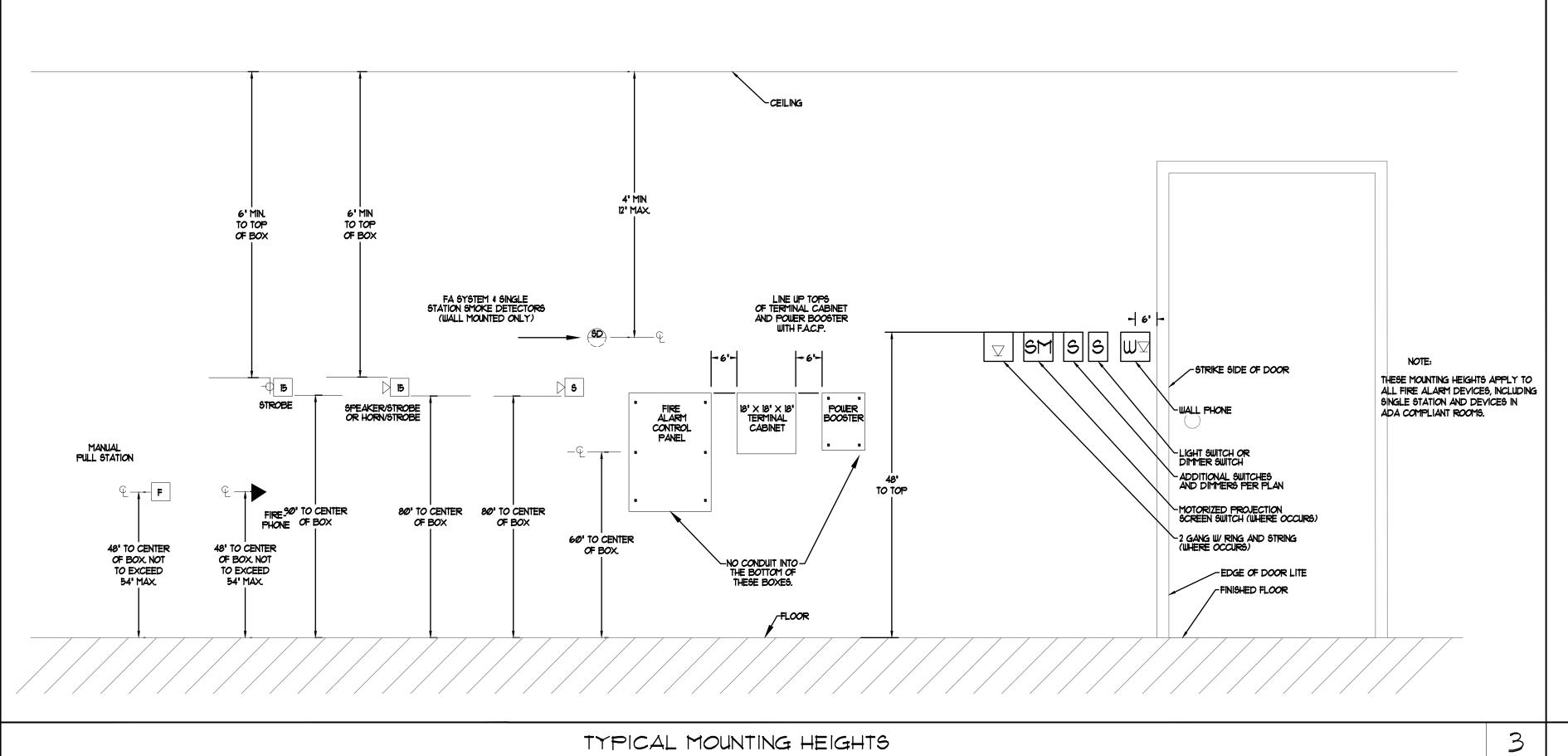
PROJECT NO: 2022170

SHEET TITLE

PANEL SCHEDULES

SHEET NO:

E502



BANN
TO FORTON

SAMAX

TO TOP

ADA MOUNTING HEIGHT DETAIL

CASH ANNELS FLORE

CASH ANNELS F

TYPICAL SWITCH AND RECEPTACLE W/ LOW YOLTAGE MOUNTING HEIGHT DETAIL

10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

SCHALL

**ARCHITECTS** 

5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835

www.schallarchitects.com

MAY 6, 2023

JULY 31, 2023 ADDENDUM 001

PROJECT NO:
2022170
SHEET TITLE

DETAIL SHEET

SHEET NO:

E601

DETAIL SHEET

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. GENERAL INFORMATION			*						11	
Project Location (city) Climate Zone	SAN DIEGO	- 1			Conditioned I			326	- U	
3 Occupancy Types Within Pr	an				ories (Habita					
Office • All Other Occupano	cies	/s		- W			13		- 10 N	
	systems that are within the scope	of the permit app	olication and	l are demonst	rating compl	iance using t	he prescriptiv	ve path outlin	ed in 140	0.6 / 170.2(e) or
41.0(b)2 / 180.2(b)4 for altero	Scope of Work	20 No 100 No			ed Spaces	15540		Uncondit	ioned Sp	¥
	01 onsists of (check all that apply):	2	Calcul	02 ation Method		03 Area (ft²)	Ca	04 Iculation Met	hod	05 Area (ft²)
<ul><li>New Lighting System</li><li>New Lighting System - Pa</li></ul>	arking Garage									
Altered Lighting System Tot:	al Area of Work (ft²)		Area Ca	tegory Metho 83	26	8326	Area	a Category M	ethod 0	0
ITE OF CALIFORNIA	ndards - 2022 Nonresidential Complia	nce	Report Ver	Date/Time: sion: 2022.0.00 rsion: rev 2022			c	ompliance ID:	EnergyPro-	itware: EnergyPro -6423-0723-0544 :3-07-31 14:51:11
ndoor Lighting ERTIFICATE OF COMPLIANCE								CALIFORN	IIA ENERG	GY COMMISSION NRCC-LTI-E
oject Name: oject Address:		9085-B A	0.000,000,000	eport Page: ate Prepared:						(Page 4 of 7) 7/31/2023
. INDOOR LIGHTING CONT	ROLS (Not including PAFs)	0.5			Option of the second					
rea Level Controls	05	06	07		08	09	10	11		12
	Complete Building or Area	Manual Area Controls	Multi-Leve	Shut-Of	f Controls	Primary/Sky lit	Secondary Daylighting		Field	ld Inspector
Area Description	Category Primary Function Area	130.1(a) / 160.5(b)4A	130.1(b) / 160.5(b)48	160	1(c) // 5(b)4C	Daylighting 130.1(d) / 160.5(b)4D	130.1(d) / 160.5(b)4D	140.6(a)1/	Pass	1
OFFICE	Office ( >250 square feet)	Readily Accessible	Dimmer	See Buil	ding Level	Included	Included	No		
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	See Buil	ding Level	Included	Included	No		
STORAGE	All Other Space Types	Readily Accessible	Dimmer	See Buil	ding Level	Included	Included	No		
LABE AREA	Laboratory Area, Scientific	Readily Accessible	Dimmer	See Buil	ding Level	Included	Included	No 13		
	ANCE: COMPLETE BUILDING O	D ADEA CATECO	DRY METH							
THE COLUMN ACTION OF THE PROPERTY OF THE PARTY OF THE PAR	Complete Building or Area Catego	ory Methods per 1	40.6(b) are		s table. Colur 04 Area (ft²)	Allowe	tes if addition 05 d Wattage Vatts)		06 Allowanc	wances per te / Adjustment PAF
ach area complying using the 40.6(c) or adjustments per 14 conditioned Spaces 01 Area Description	Complete Building or Area Catego 0.6(a) are being used .  Complete Building or A Function Office ( >250 c	rea Category Prim n Area square feet) e, Multipurpose a	ary Allo	03 wed Density (W/ft²) 0.6	04 Area (ft²) 704	Allowe (V	05 d Wattage Vatts) 22.4	Additional Area Cate	06 Allowanc	ee / Adjustment PAF No
ach area complying using the 40.6(c) or adjustments per 14 onditioned Spaces 01 Area Description	Complete Building or Area Catego 0.6(a) are being used . 02 Complete Building or A Function Office ( >250	rea Category Prim n Area square feet) e, Multipurpose a	ary Allo	03 wed Density (W/ft²)	04 Area (ft²)	Allowe (V	05 d Wattage Vatts)	Additional Area Cate No	06 Allowance gory	ce / Adjustment PAF
ach area complying using the 40.6(c) or adjustments per 14 onditioned Spaces  01  Area Description  OFFICE  CONFERENCE  Registration Number:  CA Building Energy Efficiency Star	Complete Building or Area Catego 0.6(a) are being used .  Complete Building or A Function Office ( >250 c	rea Category Prim n Area square feet) e, Multipurpose a Center	ary Allo  Generated  Report Ver	03 wed Density (W/ft²) 0.6 0.75	04 Area (ft²) 704 354	Allowe (V	05 d Wattage Vatts) 22.4 65.5	Additional Area Cate No No Documen ompliance ID: Report Gene	06 Allowance gory  attation Soft EnergyPro- rated: 202:	PAF No No No itware: EnergyPro -6423-0723-0544 3-07-31 14:51:11
ach area complying using the 40.6(c) or adjustments per 14 conditioned Spaces  01  Area Description  OFFICE  CONFERENCE  Registration Number:  CA Building Energy Efficiency Star	Complete Building or Area Catego 0.6(a) are being used .  Complete Building or A Function Office ( >250 convention, Conference Meeting	rea Category Prim n Area square feet) e, Multipurpose a Center	ary Allo  Generated  Report Ver Schema Ve	03 wed Density (W/ft²) 0.6 0.75 Date/Time:	04 Area (ft²) 704 354	Allowe (V	05 d Wattage Vatts) 22.4 65.5	Additional Area Cate No No Documen ompliance ID: Report Gene	06 Allowance gory  attation Soft EnergyPro- rated: 202:	PAF No No itware: EnergyPro
ach area complying using the 40.6(c) or adjustments per 14 onditioned Spaces  01  Area Description  OFFICE  CONFERENCE  Registration Number:  CA Building Energy Efficiency Star and Oor Lighting  ERTIFICATE OF COMPLIANCE	Complete Building or Area Catego 0.6(a) are being used .  Complete Building or A Function Office ( >250 convention, Conference Meeting	rea Category Prim n Area square feet) e, Multipurpose a Center	ary Allo  Generated  Report Ver Schema Ve	03 wed Density (W/ft²) 0.6 0.75 Date/Time: sion: 2022.0.00	04 Area (ft²) 704 354	Allowe (V	05 d Wattage Vatts) 22.4 65.5	Additional Area Cate No No Documen ompliance ID: Report Gene	06 Allowance gory  attation Soft EnergyPro- rated: 202:	PAF No No Stware: EnergyPro -6423-0723-0544 3-07-31 14:51:11  GY COMMISSION NRCC-LTI-E
ach area complying using the 40.6(c) or adjustments per 14 onditioned Spaces  01  Area Description  OFFICE  CONFERENCE  Registration Number:  CA Building Energy Efficiency Star and Oor Lighting  ERTIFICATE OF COMPLIANCE roject Name:  roject Address:	Complete Building or Area Categor 0.6(a) are being used .  Complete Building or A Function Office ( >250 : Convention, Conference Meeting and ards - 2022 Nonresidential Compliants Complete State of Convention, Conference Meeting and Complete State of Convention Compliants Complete State of Convention Conv	rea Category Prima n Area square feet) e, Multipurpose a Center	ary Allo  Generated  Report Ver Schema Ver  ATLAS RERO DRIVE D	03 wed Density (W/ft²) 0.6 0.75 Date/Time: sion: 2022.0.00 rrsion: rev 2022	04 Area (ft²) 704 354	Allowe (V	05 d Wattage Vatts) 22.4 65.5	Additional Area Cate No No Documen ompliance ID: Report Gene	06 Allowance gory  attation Soft EnergyPro- rated: 202:	ee / Adjustment PAF No No Stware: EnergyPro -6423-0723-0544 3-07-31 14:51:11  GY COMMISSION NRCC-LTI-E (Page 7 of 7)
ach area complying using the 40.6(c) or adjustments per 14 onditioned Spaces  01  Area Description  OFFICE  CONFERENCE  Registration Number:  CA Building Energy Efficiency Star and Oor Lighting  ERTIFICATE OF COMPLIANCE roject Name:  roject Address:	Complete Building or Area Catego 0.6(a) are being used .  Complete Building or A Function Office ( >250 c Convention, Conference Meeting	rea Category Prima n Area square feet) e, Multipurpose a Center	ary Allo  Generated Report Ver Schema Ver  ATLAS RERO DRIVE D	03 wed Density (W/ft²) 0.6 0.75 Date/Time: sion: 2022.0.00 rrsion: rev 2022	04 Area (ft²) 704 354	Allowe (V	05 d Wattage Vatts) 22.4 65.5	Additional Area Cate No No Documen ompliance ID: Report Gene	06 Allowance gory  attation Soft EnergyPro- rated: 202:	ee / Adjustment PAF No No Stware: EnergyPro -6423-0723-0544 3-07-31 14:51:11  GY COMMISSION NRCC-LTI-E (Page 7 of 7)
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Part		(Page 2 of 7)	Project Name:			ATI	AS Report Page			
Ministry		7/31/2023								Ĭ
Mary		- A								
Mary			E INDOOR LIGH	TING FIXTURE SCHEDU	I.F.	4/			77	
Mate			NAME OF THE OWNER OW		400	than dwelling unit/	hotel/ motel room	lighting. Multifamily dwellin	ng unit and hotel/n	notel room lighting
Part	Adjusted Lighting Power per 140 S(a) / 170 3(a)	Q (A)			ocument lighting in multif	amily common use a	reas providing shar	ed provisions for living, eati	ng, cooking or san	itation, those lumi
Mary	Allowed Lighting Power per 140.6(b) / 170.2(e) (watts) (Watts)									
Control   Cont	onditioned and Area Adjustments	09	01	02	Sm		06	Fueluded	57075	
March   Marc	unconditioned Area Category Tailored > Total PAF Lighting		SALIMITATION OF THE SALIMI		(Track) Fixture Apertu	ire &   Watts per	and the same of th	of Luminaires 140.6(a):	3 / Design W	atts
1	combined for Building $140.6(c)2/$ $140.6(c)2/$ $140.6(c)2/$ $140.6(c)2/$ $140.6(c)2/$ $140.6(c)2/$ $140.6(a)2/$ Building $140.6(a)2/$ $140.6(a)2/$ $140.6(a)2/$ $140.6(a)2/$			F1/F1E - 35W LED	Color Cr	nange*	Mfr. Spec	1-5-5-1-5-1-5-1-5		
Martine   Section   Sect	0.6(b)1/170.2(e) 170.2(e)4 170.2(e)4Av (+) (Watts) 170.2(e)1B Adjustments	140.6 / 170.2(e)					187 207 207 207			
The content of the										
	STEELE ST	COMPLIES	F4	F4 - 34W LED	NO NA	34				
Part		COMPLIES						70.2(e)2D is adjusted to be 7	75% /80% of their i	ated wattage. Tab
March   Marc	Rated Power Reduction Compliance (See Table Q for Details)							130.0(c) / 160.5(b). Wattage	used must be the	maximum rated fo
According   Part   Pa							on an anggaraf na anggara na anggara na sa			
Common Note	746764 (11 (12 (14 (14 (14 (14 (14 (14 (14 (14 (14 (14		C MODULARIA	CUTING EVETERAS						
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March   Control   March   Control   March   Control   March			Building Level Co	2500				02		03
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All Chart space higher   0.4   818   812   824   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826   826	2000 CONTROL C						Control of the Contro			
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BUILDING OWNER REPRESENTATIVE OR GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CERTIFICATE OF ACCEPTANCE LTG-1-A AND ALL RELATED ACCEPTANCE DOCUMENTS. THESE SHALL ACCEPTANCE DOCUMENTS, THESE SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION, CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.



5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835 www.schallarchitects.com

	MAY	6, 2	023		
7	JULY	31,	2023	ADDENDUM	00

PROJECT NO: 2022170

SHEET TITLE

TITLE 24

### **GREEN CODE NOTES**

- 1. PROVIDE LAVATORY FAUCETS WITH A MAXIMUM FLOW OF 0.4 GALLONS PER MINUTE (GPM). LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.20 GAL PER USE.
- PROVIDE SHOWER HEADS WITH A MAXIMUM FLOW OF 1.5 GALLONS PER MINUTE (GPM).
- PROVIDE KITCHEN FAUCETS WITH A MAXIMUM FLOW OF 1.5 GALLONS PER MINUTE (GPM).
- WATER CLOSETS SHALL BE 1.28 GALLONS PER FLUSH (GPF) MAX.
- 5. URINALS SHALL BE 0.125 GALLONS PER FLUSH (GPF) MAX.
- PLUMBING FIXTURES AND FITTINGS WILL BE WATER CONSERVING AND WILL COMPLY WITH THE 2022 CGBSC SEC 5.303.3.
- PER CGBSC SEC 5.303.6 PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC) AND TABLE 1701.1 OF THE CPC
- PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CAL GREEN SECTION 5.303.3.

SHEET INDEX					
P001	PLUMBING TITLE SHEET				
P002	PLUMBING SCHEDULES				
P003	PLUMBING DETAILS				
P004	PLUMBING SPECIFICATIONS				
P005	PLUMBING SPECIFICATIONS				
P006	PLUMBING SPECIFICATIONS				
P211	PLUMBING FLOOR PLAN				
P212	PLUMBING FLOOR PLAN				

### PLUMBING NOTES

- ALL WORK SHALL CONFORM TO THE 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA GREEN CODE, AND 2022 CALIFORNIA FIRE CODE.
- THE WORK SHOWN ON THESE PLANS IS DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS ALONG WITH THE PLANS OF OTHER TRADES PRIOR TO BID TO UNDERSTAND THE COMPLETE SCOPE OF WORK.
- EQUIPMENT LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK INCLUDING STRUCTURAL MEMBERS, POINTS OF CONNECTION (POC'S), INVERT ELEVATIONS, UTILITY LOCATIONS, AND VOLTAGES. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO START OF WORK OR ORDERING OF ANY EQUIPMENT.
- ALL EQUIPMENT AND MATERIAL INSTALLATIONS SHALL CONFORM TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND SHALL PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT AND FIXTURE INSTALLATION LOCATIONS AND HEIGHTS WITH ARCHITECTURAL DRAWINGS.
- ALL PLUMBING LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE WHEREVER POSSIBLE.
- ALL PLUMBING SYSTEMS SHALL BE SEISMICALLY BRACED PER CBC.
- VALVES AND PLUMBING EQUIPMENT REQUIRING SERVICE OR MAINTENANCE SHALL BE INSTALLED READILY ACCESSIBLE. WHERE NOT READILY ACCESSIBLE, AN ACCESS PANEL SHALL BE PROVIDED.
- 9. THE FIRST 8 LINEAR FEET OF ALL CONDENSATE DRAIN PIPING INSTALLED INDOORS SHALL BE INSULATED.
- 10. WASTE, VENT, STORM DRAIN, AND CONDENSATE DRAIN PIPING SHALL SLOPE AT  $\frac{1}{4}$ " PER FT MINIMUM, UNLESS NOTED OTHERWISE
- 11. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
- 12. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- ALL HOSE BIBBS SHALL HAVE PERMANENTLY MOUNTED VACUUM BREAKERS. 14. INSULATING MATERIALS INSTALLED SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (EES) SECTIONS 118, 123, &124.
- 15. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.2 GAL/CYCLE.
- 16. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. THE LABEL SHALL INDICATE ROUTINE MAINTENANCE REQUIRED OR SHALL REFERENCE BY NUMBER WHICH OPERATING MANUALS EXPLAIN THE MAINTENANCE REQUIREMENTS IN GREATER DETAIL
- 17. ALL EQUIPMENT SHALL COMPLY WITH THE STATE OF CALIFORNIA CEC. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.
- 18. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
- 19. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103 OF THE SAN DIEGO MUNICIPAL CODE).
- 20. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THRU THE WALLS AND FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY. FIRE STOPPING SHALL BE PER CBC SECTION 706.9. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- 21. WATER HEATERS SHALL COMPLY WITH 2022 CPC SECTION 608.3 FOR THERMAL EXPANSION REQUIREMENTS. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE. A MINIMUM OF DISTANCE OF 4" MUST BE MAINTAINED ABOVE THE CONTROLS WITH THE LOWER SEISMIC STRAP OF THE WATER HEATER.
- 22. STATE & HEALTH SAFETY CODE SEC 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) OR "PEX" PIPING FOR INTERIOR WATER SUPPLY
- 23. ALL FLOOR SINKS SHALL BE USED FOR AIR CONDITIONING CONDENSATE, P&T RELIEF VALVES, AND EQUIPMENT DRAINS ONLY. NO OTHER USES SHALL BE ALLOWED UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 24. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD RIM ELEVATION OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEING CONNECTED TO ANY OTHER VENT.
- 25. EACH FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM. 26. INSTALLATION OF SOIL AND DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS
- WILL COMPLY WITH SECTION 317.0 CPC. 27. EACH FIXTURE TRAP SHALL HAVE A PROTECTING VENT SO LOCATED THAT THE DEVELOPED LENGTH OF THE TRAP ARM FROM THE TRAP WEIR TO THE INNER EDGE OF THE VENT SHALL BE WITHIN THE DISTANCE GIVEN IN TABLE 1002.2
- 28. EACH PLUMBING FIXTURE THAT CONNECTS TO THE SANITARY SEWER SYSTEM SHALL BE PROPERLY TRAPPED AND VENTED IN ACCORDANCE WITH THE 2022

CPC, BUT IN NO CASE LESS THAN TWO TIMES THE DIAMETER OF THE TRAP

- CALIFORNIA PLUMBING CODE. 29. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL
- DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 CPC. 30. VENTING FOR ISLAND SINKS SHALL COMPLY WITH SEC 909.0 CPC.

SYMBOL	ABBR.	DESCRIPTION
	W./S.	NEW WASTE OR SOIL PIPING BELOW GRADE
	W./S.	NEW WASTE OR SOIL PIPING ABOVE GRADE.
	V	VENT PIPING
	W./S.	EXISTING WASTE OR SOIL PIPING BELOW GRADE.
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
—— CD——	COND.	CONDENSATE DRAIN PIPING
—161—	S.O.V.	SHUT-OFF VALVE
— √	PV	PLUG VALVE
<u> </u>	CV	CHECK VALVE
——————————————————————————————————————	PRV	PRESSURE REDUCING VALVE
<b>—</b>		DIRECTION OF FLOW
——Ø	FCO	FLOOR CLEANOUT
—	wco	WALL CLEANOUT
•	POC	POINT OF CONNECTION
<b></b>	VTR	VENT THRU ROOF
<del> </del>	B.V.	BALANCING VALVE
	WHA	WATER HAMMER ARRESTOR
TP	TP	TRAP PRIMER LINE

### PIPE MATERIALS SCHEDULE

SANITARY WASTE & VENT LINES:

(ABOVE AND BELOW GRADE)

VENT PIPING:

DOMESTIC COLD & HOT WATER: (ABOVE GRADE)

BE LABELED EVERY 5 FT.

DWV - ABS. BELOW GRADE WASTE SHALL

SAME AS SANITARY WASTE.

TYPE "L" HARD DRAWN COPPER PIPE AND FITTINGS WITH LEAD FREE SOLDER JOINTS. INSULATE HOT WATER PIPING WITH FIBERGLASS INSULATION HAVING A MAXIMUM CONDUCTIVITY OF 0.29 (BTU\*IN/HR\*SQFT\*DEGF) PIPES UP TO 1" DIAMETER, USE 1" THICK INSULATION

PIPES 1-1/4" TO 1-1/2" USE 1-1/2" THICK INSULATION).

DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.11 CPC.

### **GENERAL NOTE**

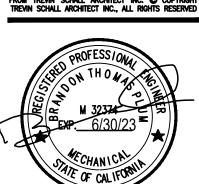
ALL PLUMBING FIXTURES, EQUIPMENT, AND TRIM SHALL BE OF LEAD FREE CONSTRUCTION COMPLYING WITH AB-1953 STANDARDS.

### PLUMBING SCOPE OF WORK

SECOND GENERATION TENANT IMPROVEMENT PROJECT - REINSTALL FIXTURES IN RESTROOMS AND PROVIDE (3) NEW SINKS







APRIL 12, 2023

 $m{1}ackslash$  July 31, 2023 corrections

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PROJECT NO: 2022170

SHEET TITLE

**PLUMBING** TITLE SHEET

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	FIXTURE CONNECTION SCHEDULE								
MARK	DESCRIPTION	MINIMUM PIPE CONNECTION		<del></del>		MANUFACTURER / MODEL NUMBER	REMARKS		
		C.W.	H.W.	WASTE	VENT				
<u>WC-1</u>	WATER CLOSET	3/4"	-	4"	2"	EXISTING REMOVE AND REINSTALL FOR NEW FLOORING			
<u>L-1</u>	LAVATORY- TOP MOUNT	1/2"	1/2"	2"	2"	EXISTING REMOVE AND REINSTALL FOR NEW FLOORING	EACH FAUCET SHALL NOT EXCEED A WATER FLOW OF 0.2 GPU		
<u>S-1</u>	SINK- BREAK ROOM COUNTER MOUNT	1/2"	1/2"	2"	2"	ELKAY DLR191910 SINGLE BOWL LAUNDRY SINK W/ CHICAGO 786-245 ABCP DECK MOUNT FAUCET AND PERMANENT VACUUM BREAKER	EACH FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.5 GPM		
<u>FD-1</u>	FLOOR DRAIN	-	-	2"	2"	SQUARE, BRUSHED STAINLESS STEEL AND TRAP PRIMER CONNECTION.			
<u>FS-1</u>	FLOOR SINK	ı	-	2"	2"	ZURN 8"X8" FLOOR SINK WITH 6" DEPTH, 3/4" GRATE, TRAP PRIMER CONNECTION.			
<u>EEW-1</u>	EMERGENCY EYE WASH	-	-	-	-	WALL MOUNTED SELF CONTAINED STATION.			

	PLUMBING EQUIPMENT SCHEDULE							
MARK	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	REMARKS				
WH 1	WATER HEATER ELECTRIC	LAB 136	RHEEM ELD-80, 4.5KW, 460/3/60, 80 GALLON, WITH RE-CIRCULATION PUMP.	RŎUŤE 3/4" P&T ŤO FLOOR SINK				
WH 2	WATER HEATER ELECTRIC	LAB 136	RHEEM ELD-80, 4.5KW, 460/3/60, 80 GALLON, WITH RE-CIRCULATION PUMP. FOR USE WITH TENANT RADIANT HEATING SYSTEM.	ROUTE 3/4" P&T TO FLOOR SINK				





APRIL	12,	2023

JULY 31, 2023 CORRECTIONS

### AT LLAS 9085-B AERO DRIVE SAN DIEGO, CALIFORNIA 9212

PROJECT NO: 2022170

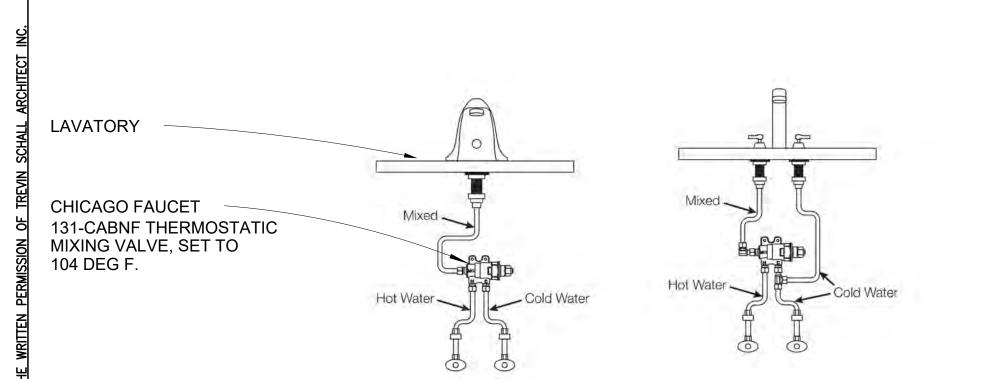
SHEET TITLE

PLUMBING SCHEDULES

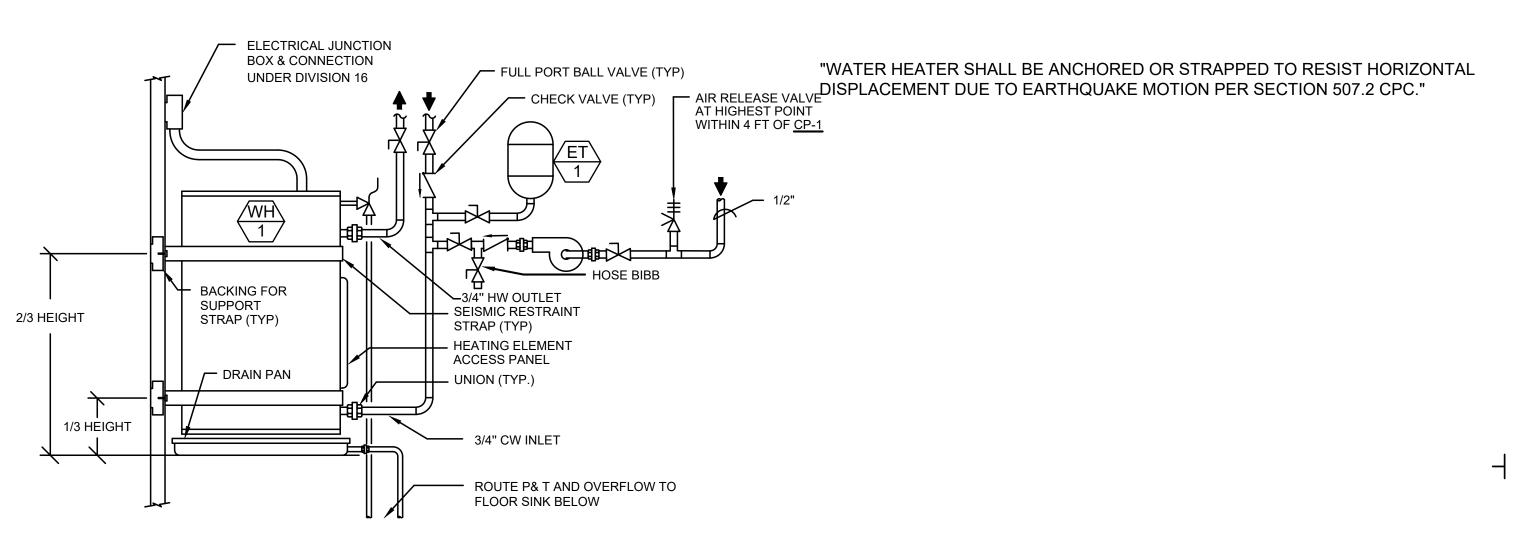
SHEET NO:

P002

PLUM
ENGINEERING
INC.
www.plumengineering.com
T 858-672-2100



MIXING VALVE SHALL BE LEAD FREE AND COMPLY WITH ASSE 1070



PROVIDE AN EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE PER SECTION 608.3 OF 2016 CPC.

WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER 507.2 CPC.

### THERMOSTATIC MIXING VALVE DETAIL

### WATER HEATER DETAIL (WITH CIRC PUMP)

SCALE

NONE

1/2" CW TRAP PRIMER SUPPLY (COPPER) COLD WATER HEADER OR MAIN BRANCH BALL VALVE —— AUTOMATIC TRAP PRIMER-"PRECISION PLUMBING PRODUCTS" PRIME-RITE OR EQUAL ACCESS PANEL — — DISTRIBUTION UNIT SECURE TO STRUCTURE 1/2" CW TO FLOOR DRAIN OR SINK

BT THE STATE FIRE MARSHALL.	
PENETRATING ITEM METALLIC PIPE OR CONDUIT NOM 6 IN. DIAM (OR SMALLER) CAST IRON OR COPPER  FLOOR ASSEMBLY  MIN 1/4" FILL OF 3M CP25WB+ OVER MIN 2-1/4 IN 4 PCF MINERAL WOOL BATT	PENETRATING ITEM METALLIC PIPE OR CONDUIT NOM 2 IN. DIAM (OR SMALLER) (INSULATED)  FLOOR ASSEMBLY  MIN 1 IN VOID FILL WITH 3M CP25WB+  MIN 1 IN THICKNESS MINERAL WOOL BATT
<u>U.L. SYSTEM No. CAJ1338</u> F-RATINGS-2 HR T RATINGS-0 AND 2 HR	<u>U.L. SYSTEM No. CAJ5001</u> F-RATINGS-1-1/2, 2, & 3 HR T-RATINGS-0, 1/2, 3/4 & 1 HR
PENETRATING ITEM  METALLIC PIPE OR CONDUIT  NOM 4 IN. DIAM (OR SMALLER)  CAST IRON OR COPPER  FILL VOID OR CAVITY  3M CP 25 WP+  MIN 1 IN ONTO WALL &  MIN 1/2 IN ONTO PIPE	PENETRATING ITEM METALLIC PIPE OR CONDUIT NOM 2 IN. DIAM (OR SMALLER) (INSULATED)  FILL VOID OR CAVITY 3M CP 25 WP+ & ON LEADING EDGE OF WRAP STRIP
U.L. SYSTEM No. WL1450	U.L. SYSTEM No. WL5009

F-RATINGS-2 HR T RATINGS-1/2 HR

PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS, FLOORS OR CEILING ASSEMBLIES REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY AS PRESCRIBED IN CBC SECTION 713 AND AS APPROVED

COMPONENT	ASTM REFERENCE
THROUGH-PENETRATIONS, MEMBRANE PENETRATIONS FIRESTOPS, FIRE-RESISTANT JOINTSYSTEMS AND PERIMETER FIRE BARRIER SYSTEMS	E 814
	-

TRAP PRIMER DETAIL

NONE

THRU PENETRATION DETAIL - METAL PIPE

F-RATINGS-1 & 2 HR T RATINGS-0 HR

NONE

ENGINEERING INC. www.plumengineering.com T 858-672-2100 SCHALL **ARCHITECTS** 5173 WARING ROAD, SUITE 91 SAN DIEGO, CA 92120-2705 P 858.692.3835





APRIL 12, 2023

 $\sqrt{\mathbf{1}}$  July 31, 2023 corrections

PROJECT NO: 2022170 SHEET TITLE

**PLUMBING DETAILS** 

### PLUMBING

### PART 1 GENERAL

### 1.01 WORK INCUDED

A. FURNISH ALL LABOR, MATERIALS, SERVICES, TESTING, TRANSPORTATION AND EQUIPMENT NECESSARY FOR THE PROPER AND SATISFACTORY INSTALLATION OF THE PLUMBING AND PIPING AS INDICTED ON DRAWINGS AND SPECIFIED HEREIN. WORK MATERIALS AND EQUIPMENT NOT INDICATED OR SPECIFIED WHICH IS NECESSARY FOR THE COMPLETE AND PROPER OPERATION OF THE WORK OF THIS SECTION IN ACCORDANCE WITH THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS SHALL BE PROVIDED AND INCORPORATED AT NO ADDITIONAL COST TO THE OWNER.

### 1.02 QUALITY ASSURANCE

- A. CODE REQUIREMENTS: ALL WORK COVERED BY THIS SECTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE STATE DIVISION OF INDUSTRIAL SAFETY, CALIFORNIA PLUMBING CODE, CITY BUILDING DEPARTMENT, CALIFORNIA FIRE CODE, CALIFORNIA GREEN CODE AND THE REQUIREMENTS OF ANY OTHER LEGALLY CONSTITUTED BODY HAVING JURISDICTION THEREOF.
- B. NOTHING IN THE SPECIFICATIONS OR DRAWINGS SHALL BE CONSTRUED TO PERMIT DEVIATION FROM THE REQUIREMENTS OF GOVERNING CODES UNLESS APPROVED FOR SAID DEVIATION HAS BEEN OBTAINED FROM THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION AND FROM THE OWNER'S REPRESENTATIVE.

### 1.03 DRAWINGS

- A. BECAUSE OF THE SMALL-SCALE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING INSTALLATION OF HIS WORK, FURNISHING THE NECESSARY PIPING, FITTINGS, VALVES, TRAPS, AND OTHER DEVICES WHICH MAY BE REQUIRED TO COMPLETE THE INSTALLATION.
- B. THE DESIGN DOCUMENTS ARE DIAGRAMMATIC, HOWEVER THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF PIPING FIXTURES AND EQUIPMENT TO VERIFY ADEQUATE SPACE AVAILABLE FOR INSTALLATION OF THE WORK SHOWN. IN THE EVENT A FIELD CONDITION ARISES WHICH MAKES IT IMPOSSIBLE TO INSTALL THE WORK AS INDICATED, SUBMIT, IN WRITING, THE PROPOSED DEPARTURES TO THE ARCHITECT FOR HIS APPROVAL. ONLY WHEN ARCHITECT'S APPROVAL IS GIVEN, IN WRITING, SHALL CONTRACTOR PROCEED WITH INSTALLATION OF THE WORK.
- C. SPECIAL NOTE: SHOULD THE CONTRACTOR MAKE CHANGES IN THE INSTALLATION DIFFERING FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS AND NOT NECESSITATED DUE TO FIELD CONDITIONS AS INDICATED HEREINABOVE, THE CONTRACTOR SHALL BE REQUIRED TO RE-INSTALL THE WORK TO COMPLY WITH WHAT HAS BEEN INDICATED ON THE CONTRACT DRAWINGS. SHOULD IT BE IMPOSSIBLE TO RE-INSTALL THE WORK AND THE INSTALLATION IS IN ACCORDANCE WITH ALL GOVERNING AUTHORITIES, THE ARCHITECT MAY PERMIT THE INSTALLATION TO REMAIN HOWEVER, ALL COSTS INCURRED TO REVISE THE CONTRACT DRAWINGS BY THE ENGINEER FOR RE-SUBMITTAL TO THE BUILDING DEPARTMENT INDICATING THE AS-INSTALLED CONDITION SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- D. IN CASE OF A DIFFERENCE IN THE SPECIFICATIONS OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE CONTRACTOR SHALL FIGURE THE MOST EXPENSIVE ALTERNATE AND AFTER AWARD OF CONTRACT, SHALL SECURE DIRECTION FROM THE ARCHITECT.

### 1.04 PERMITS, INSPECTIONS AND LICENSES

A. ALL PERMITS, INSPECTIONS AND LICENSES REQUIRED BY THE LEGALLY CONSTITUTED AUTHORITIES FOR INSTALLATION OF THE WORK ACCORDING TO THE PLANS AND SPECIFICATIONS SHALL BE OBTAINED AND PAID AS A PART OF THE WORK OF THIS SECTION.

### 1.05 UTILITIES

- A. SEE DRAWINGS FOR POINTS OF CONNECTION.
- B. CERTAIN UTILITIES ARE TO BE CONNECTED TO AND EXTENDED. BEFORE LAYING OF ANY PIPE OR DIGGING OF ANY TRENCHES, CONTRACTOR SHALL DETERMINE BY ACTUAL EXCAVATION AND MEASUREMENT EXACT LOCATION AND DEPTH OF LINES TO WHICH HE IS TO CONNECT. IN EVENT DEPTH OF LINES IS NOT SUFFICIENT TO PERMIT CONNECTION IN MANNER INDICATED, CONTRACTOR SHALL OBTAIN DIRECTION FROM THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THIS WORK.
- C. WATER SERVICE (DOMESTIC): CONTRACTOR SHALL PROVIDE NECESSARY TAP-IN CONNECTIONS IN WATER MAIN FOR STERILIZING OF DOMESTIC WATER SYSTEM.

### 1.06 EXAMINATION OF PREMISE

A. BEFORE BIDDING ON THIS WORK, CONTRACTORS SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISE AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE REQUIREMENTS OF THE CONTRACT. BY THE ACT OF SUBMITTING A PROPOSAL FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION, AND THAT HE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE SITE.

### 1.07 PROTECTION

- A. ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES CONTRACTOR SHALL MAKE GOOD ALL DAMAGE CAUSED EITHER DIRECTLY OR INDIRECTLY BY HIS OWN WORKMEN. CONTRACTOR SHALL ALSO PROTECT HIS OWN WORK FROM DAMAGE. HE SHALL CLOSE ALL PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION. HE SHALL PROTECT ALL HIS EQUIPMENT AND MATERIALS AGAINST DIRT, WATER, CHEMICAL AND MECHANICAL INJURY. UPON COMPLETION, ALL WORK SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A NEW CONDITION.
- B. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO EQUIPMENT AND MATERIALS UNTIL HE HAS RECEIVED WRITTEN NOTICE FROM THE ARCHITECT OR ENGINEER THAT HIS WORK HAS BEEN ACCEPTED.

### 1.08 LOCATIONS

- A. THE LOCATIONS OF APPARATUS, PIPING AND EQUIPMENT INDICATED ON THE DRAWINGS ARE APPROXIMATE. PIPING AND EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID ALL OBSTRUCTION, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGES CLEARED. THE LOCATIONS OF AND MOUNTING HEIGHTS OF ALL FIXTURES SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS AND ROOM ELEVATIONS.
- B. CLEARANCES AND OPENINGS: CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS AND PERMIT FOR A NEAT AND ORDERLY APPEARANCE OF THE ENTIRE INSTALLATION. THE CONTRACTOR SHALL, IN ADVANCE OF THE WORK, FURNISH INSTRUCTIONS TO THE GENERAL CONTRACTOR AS TO HIS REQUIREMENTS FOR EQUIPMENT AND MATERIAL INSTALLATION OF ANY KIND, WHETHER OR NOT SPECIFICALLY

MENTIONED ON DRAWINGS OR IN THE SPECIFICATIONS, AND SHALL INCLUDE RECESSES, CHASES IN WALLS, AND ALL REQUIRED OPENINGS IN THE STRUCTURE. SHOULD FURNISHING THIS INFORMATION BE NEGLECTED, DELAYED OR INCORRECT AND ADDITIONAL CUTTINGS ARE FOUND TO BE REQUIRED, THE COST OF THE SAME SHALL BE CHARGED TO THIS CONTRACTOR.

1.09 SUBMITTAL DATA

- A. FURNISH, ALL AT ONE TIME, PRIOR TO ANY INSTALLATION, WITHIN THE TIME NOTED BELOW, SIX (6) COPIES OF VALID SUBMITTAL DATA ON ALL FIXTURES, MATERIAL, EQUIPMENT AND DEVICES. EACH SUBMITTAL ITEM SHALL BE INDEXED AND REFERENCED TO THESE SPECIFICATIONS AND TO PUT IDENTIFICATION NUMBERS ON FIXTURES AND EQUIPMENT SCHEDULES.
- B. MANUFACTURERS SUBMITTAL LITERATURE AND SHOP DRAWINGS ARE REQUIRED ON ALL ITEMS TO ENSURE THE LATEST AND MOST COMPLETE MANUFACTURER'S DATA IS AVAILABLE FOR REVIEW. REQUIREMENTS OF THE SUBMITTALS AND ENGINEER'S SUBMITTAL NOTES ARE A PART OF THE WORK OF THIS DIVISION EXCEPT THAT ENGINEER'S NOTES MAY NOT BE USED AS A MEANS OF INCREASING THE SCOPE OF WORK OF THIS DIVISION.
- C. SUBMITTALS WILL BE CHECKED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT BUT THE REVIEW DOES NOT GUARANTEE QUANTITIES SHOWN AND DOES NOT SUPERSEDE REQUIREMENTS OF THIS DIVISION TO PROPERLY INSTALL WORK.
- D. A LIST OF NAMES IS NOT A VALID SUBMITTAL. TO BE VALID, ALL SUBMITTALS MUST:
- 1. BE DELIVERED TO THE ARCHITECT'S OFFICE WITHIN THIRTY-FIVE (35) DAYS OF AWARD OF THE CONTRACT. CORRECTIONS OR CHANGES IN SUBMITTALS RETURNED AS INADEQUATE OR INCOMPLETE SHALL BE ACCOMPLISHED WITHIN THIS TIME LIMIT.
- 2. INCLUDE ALL PERTINENT CONSTRUCTION, INSTALLATION, PERFORMANCE AND TECHNICAL DATA.
- 3. HAVE ALL COPIES MARKED TO INDICATE CLEARLY THE INDIVIDUAL ITEMS BEING SUBMITTED.
- 4. HAVE EACH ITEM CROSS-REFERENCED TO THE CORRESPONDING SPECIFIED ITEM AND BE MARKED TO SHOW HOW DIFFERENCE WILL BE ACCOMMODATED.
- 5. CONTAIN CALCULATIONS AND OTHER DETAILED DATA JUSTIFYING HOW THE ITEM WAS SELECTED FOR PROPOSAL. DATA MUST BE COMPLETED ENOUGH TO PERMIT DETAILED COMPARISON OF EVERY SIGNIFICANT CHARACTERISTIC FOR WHICH THE SPECIFIED ITEM WAS ANALYZED DURING DESIGN.
- 6. INCLUDE, FOR EVERY ITEM WHICH DIFFERS IN SIZE, CONFIGURATION, CONNECTIONS, SERVICE, ACCESSIBILITY OR ANY OTHER SIGNIFICANT WAY, A DRAWING TO THE SAME (OR LARGER) SCALE AS TO THE PERTINENT PORTIONS OF THE CONTRACT DRAWINGS. IN THIS DRAWING SHOW A COMPLETE LAYOUT OF THE SYSTEM EXCEPT THAT WHICH IS IDENTICAL TO THE CONTRACT DRAWINGS UNLESS THE UNCHANGED PORTIONS MUST BE SHOWN TO INDICATE SUCH THING AS CLEARANCES. THIS DRAWING, TOGETHER WITH THE CONTRACT DESIGN DRAWINGS MUST SHOW THE COMPLETE SYSTEM AS REVISED TO ACCOMMODATE THE PROPOSED ALTERNATE
- 7. IN ADDITION TO THE MATERIAL AND EQUIPMENT SUBMITTALS, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE WATER SERVICE AND THE GAS SERVICE COMPLETE WITH ALL APPURTENANCES AND INDICATE EXACT LOCATION BY DIMENSION TO GRADING PLAN, SUBMIT FOR APPROVAL PRIOR TO INSTALLATION.

### 1.10 UNINSPECTED WORK

A. CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF HIS WORK TO BE COVERED UP BEFORE IT HAS BEEN DULY INSPECTED, TESTED AND APPROVED BY THE OWNER, ARCHITECT OR ANY OTHER AUTHORIZED INSPECTORS HAVING LEGAL JURISDICTION OVER HIS WORK. SHOULD HE FAIL TO OBSERVE THE ABOVE, HE SHALL UNCOVER THE WORK AND, AFTER IT HAS BEEN INSPECTED, TESTED AND APPROVED, RECOVER IT AT HIS OWN EXPENSE.

### 1.11 SUBSTITUTIONS (ALSO SEE GENERAL CONDITIONS)

- A. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THAT ALTERNATE ITEMS AND PROCEDURES WILL MEET THE JOB REQUIREMENTS AND IS RESPONSIBLE FOR COST OF REDESIGN AND OF MODIFICATIONS TO THIS AND OTHER PARTS OF WORK CAUSED BY ALTERNATE ITEMS FURNISHED UNDER WORK IN THIS SECTION. IN VIEW OF THESE RESPONSIBILITIES, IT IS THE PURPOSE OF THE SPECIFICATIONS TO ESTABLISH PROCEDURE WHICH ENSURE THAT THE CONTRACTOR HAS CONSIDERED AND IS RESPONSIBLE FOR ALL THE RAMIFICATIONS OF PROPOSED ALTERNATES BEFORE SUBMITTING THEM FOR REVIEW. SUBMITTALS WHICH DO NOT COMPLY WITH THE REQUIREMENTS OF THESE SPECIFICATIONS OR WHICH INDICATE PROPOSED ALTERNATES WERE SELECTED WITHOUT PROPER REGARD TO THE REQUIREMENTS OF THE JOB, WILL NOT BE APPROVED. NO MORE THAN ONE PROPOSED ALTERNATE WILL BE CONSIDERED FOR EACH ITEM.
- B. ALTERNATE ITEMS INSTALLED WITHOUT ENGINEER'S APPROVAL WILL BE REPLACED WITH SPECIFIED ITEMS AT CONTRACTOR'S EXPENSE.
- C. PROVIDE OR PERFORM TESTS REQUIRED BY ENGINEER FOR PURPOSE OF JUDGING ACCEPTABILITY OF PROPOSED SUBSTITUTIONS.
- D. THIS CONTRACTOR IS RESPONSIBLE TO PROVIDE SUFFICIENT INFORMATION TO ALLOW THE ENGINEER TO ANALYZE ANY PROPOSED ALTERNATE. IF INADEQUATE INFORMATION IS PROVIDED, THE PROPOSAL WILL NOT BE APPROVED AND RE-SUBMITTAL WILL NOT BE ALLOWED.
- E. THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE SHALL BE THE SOLE JUDGE AS TO THE QUALITY AND SUITABILITY OF PROPOSED ALTERNATE EQUIPMENT, FIXTURES OR MATERIALS AND DECISIONS OF THE ARCHITECT OR THAT OF HIS REPRESENTATIVE SHALL BE FINAL AND CONCLUSIVE.

### 1.12 RECORD DRAWINGS (ALSO SEE GENERAL CONDITIONS)

A. CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE "AS-BUILT" RECORD SET OF BLUELINE PRINTS WHICH SHALL SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND THE EXACT "AS-BUILT" LOCATIONS AND SIZES OF THE WORK PROVIDED UNDER THE SECTION OF SPECIFICATIONS. THIS ET SHALL INCLUDE LOCATIONS, DIMENSIONS, DEPTH OF BURIED PIPING, CLEANOUTS, SHUT-OFF VALVES, SEWER INVERT LOCATIONS, PLUGGED WYES, TEES, ETC. ON COMPLETION OF THE WORK, THE CONTRACTOR SHALL INCORPORATE ALL AS-BUILT INFORMATION ON A SET OF REPRODUCIBLE TRACINGS PROVIDED BY THE ARCHITECT AND THIS SET OF REPRODUCIBLES SHALL BE DELIVERED TO THE ARCHITECT.

### 1.13 GUARANTEES (ALSO SEE GENERAL CONDITIONS)

- A. CONTRACTOR SHALL GUARANTEE THE ENTIRE PLUMBING AND PIPING SYSTEMS UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE. IF, DURING THIS PERIOD, ANY MATERIALS, EQUIPMENT, OR ANY PART OF THE SYSTEMS FAIL TO FUNCTION PROPERLY, THE CONTRACTOR SHALL MAKE GOOD THE DEFECTS PROMPTLY AND WITHOUT ANY EXPENSE TO THE OWNER.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY LEAKS IN PIPELINES OR EQUIPMENT FURNISHED AND INSTALLED UNDER THIS SECTION FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE OF HIS WORK.
- C. ALL EQUIPMENT AND FIXTURES SHALL CARRY MANUFACTURER'S WARRANTY AGAINST DEFECTIVE PARTS OR POOR WORKMANSHIP AND SHALL NOT BE LESS THAN ONE (1) YEAR. SEE

SPECIFIC EQUIPMENT SPECIFICATIONS FOR EXTENDED WARRANTY REQUIREMENTS.

2.01 PIPE MATERIALS AND EQUIPMENT (SEE SCHEDULES ON DRAWINGS)

- A. GENERAL: ALL MATERIALS, AS SPECIFIED OR REQUIRED IN THE WORK, SHALL BE NEW, FREE FROM DEFECTS AND IMPERFECTIONS. ALL EXPOSED PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED YELLOW BRASS EXCEPT EXPOSED PIPES IN SHOP OR UTILITY AREAS. UNIONS OR FLANGES SHALL BE FURNISHED AND INSTALLED AT EACH THREADED CONNECTION. THE UNIONS OR FLANGES SHALL BE LOCATED SO THAT THE PIPING CAN BE EASILY DISCONNECTED FOR REMOVAL OF THE EQUIPMENT, TANK, OR VALVE, AND SHALL BE OF THE TYPE SPECIFIED IN THE FOLLOWING SCHEDULE. ALL PARTS OF THE DOMESTIC WATER SYSTEM SHALL BE MADE WITH APPROVED LEAD-FREE COMPONENTS THAT COMPLY WITH AB1953 AND IF ANY COMPONENT SPECIFIED DOES NOT COMPLY THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN AN APPROVED ALTERNATE. ALL CAST IRON PIPE AND FITTINGS SHALL BE CISPI MARKED AND NSF LISTED. ALL NO-HUB COUPLINGS SHALL MEET CISPI 310 REQUIREMENTS AND BE NSF CERTIFIED.
- A. UNIONS
- BLACK STEEL PIPE: 250 POUND SCREWED BLACK MALLEABLE IRON, GROUND JOINT, BRASS TO IRON SEAT.
- 2) GALVANIZED STEEL PIPE: 250 POUND SCREWED GALVANIZED MALLEABLE IRON, GROUND JOINT, BRASS TO IRON SEAT.
- 3) COPPER OR BRASS TUBING: 150 POUND CAST BRONZE OR COPPER, GROUND JOINT NONFERROUS SEAT WITH ENDS, BY WALSEA, NIBCO OR MUELL.
- B. VALVES:
- GENERAL
- A. PIPING SYSTEMS SHALL BE SUPPLIED WITH VALVES ARRANGED SO AS TO GIVE COMPLETE AND REGULATING CONTROL OF EACH BUILDING AND PIPING SYSTEMS THROUGHOUT THE BUILDING, AND LOCATED SO ALL PARTS ARE EASILY ACCESSIBLE AND MAINTAINED.
- B. END CONNECTION: 2" AND SMALLER SHALL BE SOLDERED OR THREADED. 2-1/2 INCHES AND LARGER CAN BE FLANGED.
- C. SIZES: SAME SIZE AS UPSTREAM PIPE, UNLESS OTHERWISE INDICATED.
- D. ALL WATER VALVES SHALL BE LEAD FREE.
- E. ALL VALVES SHALL BE BALL VALVES UNLESS OTHERWISE INDICATED ON THE PLANS.
- 2. APPROVED MANUFACTURERS:
- A. APOLLO, NIBCO OR HAMMOND.
- 3. BALL VALVES:
- A. NIBCO NO. S-685-80-LF, 2" AND SMALLER: RATED FOR 150 PSI SATURATED STEAM PRESSURE, 600 PSI WOG PRESSURE (LEAD FREE).
- 4. CHECK VALVES: (SWING CHECK)
- A. NIBCO NO. S-413-T, ½" TO 4": RATED FOR 200 PSI SATURATED STEAM PRESSURE, 600 PSI WOG PRESSURE (LEAD FREE).
- 5. VALVES FOR GAS SERVICE
- A. HAMMOND "BUTTERBALL" VALVE, 2-INCH AND SMALLER: RATED AT 175 PSI WOG; UL LISTED, BRONZE BODY, STAINLESS STEEL DISC, VITON SEAL AND THREADED ENDS. VALVE SHALL BE A. G. A CERTIFIED.
- B. MILWAUKEE #BB2-100 PLUG VALVES, 2-1/2 INCH AND LARGER: MSS SP-78; RATED AT 175 PSI WOG; LUBRICATED PLUG TYPE, WITH BRONZE BODY, SINGLE GLAND, WRENCH OPERATED, AND FLANGED ENDS.
- 6. COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVES: SHALL BE MCDONALD, WATTS, OR APPROVED EQUAL, BRONZE BODY, TEST LEVER, THERMOSTAT, COMPLYING WITH ANSI Z21.22 LISTING REQUIREMENTS FOR TEMPERATURE DISCHARGE CAPACITY. RELIEF VALVES SHALL BE FACTORY SET.
- C. TRAPS, STRAINERS AND TAILPIECES: EVERY SANITARY FIXTURE, UNLESS OTHERWISE SPECIFIED, SHALL BE PROVIDED WITH A SEVENTEEN (17) GAUGE TAILPIECE CHROMIUM TAILPIECE, A LOS ANGELES PATTERN CHROME PLATED CAST-BRASS TRAP, AND WALL FLANGES. PROVIDE CHROMIUM PLATED BRASS CASING BETWEEN THE TRAP AND WALL FLANGES WITH EACH FIXTURE.





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PROJECT NO: 2022170

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PLUMBING SPECIFICATIONS

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P004

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≥ CAST IRON PIPE

5. 3. FLOOR CLEANOUTS: ZURN NO. Z-N-1400-NH, BRONZE PLUG AND NON-SKID NICKEL BRONZE TOP.

- 를 E. ACCESS PANELS: ZURN, J.R. SMITH OR JOSAM. WALL ACCESS PANELS SHALL BE MINIMUM 12" X 12" FOR CONCEALED VALVES AND OTHER EQUIPMENT UNLESS OTHERWISE SPECIFIED OR INDICATED. CEILING ACCESS PANELS SHALL BE 18" X 18" MINIMUM.
- WALL PANELS: ZURN NO Z-1462 NICKEL BRONZE, VANDAL PROOF FOR ALL WALLS. CEILING PANELS: POTTORFF MODEL WB OR PW, PRIME COATED STEEL, TYPE AS REQUIRED FOR PLASTER, OR DRY WALL CEILINGS.
- ROOF FLASHING: STONEMAN NO. 1100-5, ONE (1) PIECE, FOUR (4) POUND, SERIES WITH REINFORCING STEEL BOOT COUNTER FLASHED WITH CAST IRON FLASHING SLEEVE AND EQUIPPED WITH VANDAL-PROOF HOOD FOR ALL VENT PIPING. SEAL JOINT BETWEEN FLASHING AND PIPE WITH WATERPROOFING COMPOUND. COORDINATE ALL ROOF WORK WITH LANDLORDS ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY INCLUDING WORK PERFORMED, MATERIALS, ETC.
- G. ESCUTCHEONS: SHALL BE CHROME PLATED CAST BRASS WITH SET SCREW LOCKING S DEVICE.
- H. DIELECTRIC UNION ISOLATORS: WHERE INCOMPATIBLE MATERIALS MEET IN CONTACT, ISOLATE FROM EACH OTHER WITH MATERIAL BET SUITED FOR THE CHARACTERISTICS OF MATERIALS TO BE ISOLATED. DIELECTRIC UNION ISOLATOR FOR CONNECTION PIPING OR NON-COMPATIBLE MATERIALS SHALL BE OF STANDARD COMMERCIAL DESIGN WITH THREADED 닞 CONNECTIONS.
- PIPE SUPPORTS: UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE AS
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MISCELLANEOUS IRON WORK INCLUDING ANGLES, CHANNELS, ETC., REQUIRED TO APPROPRIATELY SUPPORT THE VARIOUS PIPING SYSTEMS. HANGER SPACING AND LOCATION SHALL CONFORM TO CALIFORNIA PLUMBING CODE REQUIREMENTS.
- ALL HORIZONTAL RUNS OF PIPING WITHIN THE BUILDING TO BE SUPPORTED FROM THE arkappa structural framing with steel rods and split ring hangers, b-line, grinnell ₹ COMPANY, TOLCO, OR APPROVED EQUAL. STEEL RODS SHALL BE SECURED TO OVERHEAD FRAMING WITH SIDE BEAM CONNECTORS. WHERE NECESSARY, INSTALL ANGLE IRON BETWEEN FRAMING TO ACCOMMODATE HANGER RODS. WHERE SEVERAL PIPES ARE RUNNING TOGETHER, UNISTRUT, B-LINE OR POWERSTRUT CHANNELS WITH CLAMPS MAY BE USED IN LIEU OF INDIVIDUAL PIPE HANGERS. AND SUPPORTED FROM STRUCTURE AS HEREIN SPECIFIED SUBMIT TEST DATA FOR TYPE OF HANGER SUPPORTS TO BE PROVIDED. FOR SUPPORT CONDITIONS OTHER THAN SPECIFIED HEREIN, THE CONTRACTOR SHALL SUBMIT METHOD OF SUPPORT FOR APPROVAL PRIOR TO ANY INSTALLATION
- HORIZONTAL PIPING HANGERS AND SUPPORTS:
- A. GENERAL: PROVIDE FACTORY FABRICATED HORIZONTAL HANGERS AND SUPPORTS IN ACCORDANCE WITH MSS SP-69 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION.
- **VERTICAL -PIPING CLAMPS:**
- GENERAL: PROVIDE FACTORY FABRICATED VERTICAL-PIPING CLAMPS IN ACCORDANCE WITH MSS SP-69 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION.
- TWO-BOLT RISER CLAMPS: (MSS TYPE 8) B-LINE B3373
- HANGER-ROD ATTACHMENTS:
- A. GENERAL: PROVIDE FACTORY FABRICATED HANGER-ROD ATTACHMENTS B-LINE. TOLCO OR APPROVED EQUAL, SELECTED BY INSTALLER TO SUIT HORIZONTAL-PIPING HANGERS AND BUILDING ATTACHMENTS, IN ACCORDANCE WITH MSS SP-58 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. SELECT SIZE OF HANGER-ROD ATTACHMENT TO SUIT HANGER RODS SIDE BEAM EYE SOCKET, TOLCO FIG. #57 FOR ROD SIZES 3/8" DIA. AND TOLCO FIG. #25-30-251 FOR ROD SIZES 1/2:" DIA.
- £ 6. BUILDING ATTACHMENTS:
- A. GENERAL: PROVIDE FACTORY FABRICATED BUILDING ATTACHMENTS, SELECTED BY INSTALLER TO SUIT BUILDING STRUCTURAL FRAMING CONDITIONS, IN ACCORDANCE WITH MSS SP-69 AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. SELECT SIZE OF BUILDING ATTACHMENTS TO SUIT HANGER RODS.
- HANGER RODS AND SPACING SHALL CONFORM TO THE FOLLOWING TABLE:

•	PIPE SIZES	SPACING	RODS
	2 INCH AND SMALLER	6 FEET	3/8 INCH
	2-1/2 INCH TO 3 INCH	8 FEET	1/2 INCH
	4 INCH AND LARGER	8 FEET	5/8 INCH

- HANGERS AND SUPPORTS SHALL BE ADEQUATE TO MAINTAIN ALIGNMENT AND PREVENT SAGGING AND SHALL BE PLACED WITHIN 18 INCHES OF JOINT. SUPPORT SHALL BE PROVIDED ₹ AT EACH HORIZONTAL BRANCH CONNECTION.
- 9. AT CONTRACTOR'S OPTION, "ACOUSTO-PLUMB SYSTEM" MAY BE PROVIDED AS A SUPPORT SYSTEM WHEN SECURING PIPING DIRECT BY THE WALL FRAMING.
- 10. PROVIDE LATERAL BRACING AS MANUFACTURED BY B-LINE OR APPROVED EQUAL FOR ALL PIPING TO PREVENT SWAYING OR MOVEMENT IN ACCORDANCE WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF PIPING SYSTEMS". PIPING SMALLER THAN INDICATED IN THE GUIDELINES SHALL BE PROVIDED WITH BRACING AS SPECIFIED FOR THE SMALLEST SIZE INDICATED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE PROPERLY BRACED AND WILL NOT MOVE DUE TO THE ACTION OF QUICK CLOSING OF VALVES.

- 11. MISCELLANEOUS SUPPORTS, WALL BRACKETS, ETC.: PROVIDE WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICES OF THE TRADE. SUBMIT SHOP DRAWINGS FOR ALL FABRICATED SUPPORTS.
- 12. ISOLATORS: ALL PIPING WHICH IS NOT ISOLATED FROM CONTACT WITH THE BUILDING BY ITS INSULATION SHALL BE ISOLATED AND INSTALLED WITH A MANUFACTURED TYPE ISOLATOR. ISOLATORS SHALL BE B-LINE VIBRA CLAMP AND CUSHION, SUPER STRUT, STONEMAN, "TRISOLATOR", OR APPROVED EQUAL. PIPING SHALL BE INSTALLED AND SUPPORTED IN A MANNER TO PROVIDE FOR EXPANSION WITHOUT STRAINS. GUIDES SHALL BE PROPERLY INSTALLED TO ENSURE THIS. ALL PIPE SUPPORTS ATTACHED TO METAL STUDS SHALL BE ISOLATED FROM THE STRUCTURE WITH FELT PADS.

### J. INSULATION:

- HOT WATER PIPE INSULATION: ALL HOT WATER SUPPLY AND RETURN PIPING, EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES, FLANGES AND UNIONS SHALL BE INSULATED WITH "ASTM C547, CLASS I, "MANVILLE", "MICRO-LOCK" 850-APT, OWENS-CORNING FIBERGLASS CORP., ASJ/SL-11 OR APPROVED EQUAL, 1" THICK FOR SIZES UP TO 2" AND 1-1/2" THICK FOR SIZES 2" OR LARGER. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 1201.1.1.8.
- CONDENSATE PIPE INSULATION: ALL CONDENSATE PIPING ABOVE THE CEILING SHALL BE INSULATED WITH "ARMSTRONG" ARMOFLEX" INSULATING TAPE.
- ALL FIXTURES FOR USE BY THE HANDICAPPED SHALL HAVE AN OFF-SET GRID DRAIN PERMITTING THE TRAP TO BE INSTALLED FLUSH WITH THE WALL. IN ADDITION, PROVIDE PROWRAP INSULATION KIT FOR EXPOSED HOT WATER PIPE, TAILPIECE, AND TRAP AS MANUFACTURED BY MCGUIRE AND SECURED PER MANUFACTURERS RECOMMENDATIONS
- K. EQUIPMENT AND FIXTURES:
- SEE SCHEDULE ON DRAWINGS.
- FIXTURES:
- A. PLUMBING FIXTURES SHALL BE AS SPECIFIED BY OWNER AND AS NOTED ON THE DRAWINGS.
- B. FURNISH COMPLETE WITH NECESSARY TRIM, INCLUDING STOPS. ALL TRIM AND EXPOSED FITTINGS SHALL BE CHROME PLATED BRASS INCLUDING HANDLES, SUPPLY TAILPIECES, TRAPS AND ESCUTCHEONS.
- C. CONNECTIONS TO FIXTURES SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS EXCEPT AS EXCEEDED HEREIN OR ON THE DRAWINGS AND IN NO CASE LESS THAN THE SUPPLY STOP SIZE.
- D. ALL PLUMBING FIXTURE FAUCETS SUBMITTED FOR REVIEW SHALL HAVE IDENTIFICATION LABEL OR CERTIFICATION SHOWING COMPLIANCE WITH CALIFORNIA TITLE 24, PART 5, ARTICLE I. "ENERGY CONSERVATION STANDARDS". ARTICLE I. T20-1406: ARTICLE 2. T20-1525 AND ARTICLE 4, 1604 AND 1606, MINIMUM WASTE SIZES SHALL BE FOUR INCH (4") FOR WATER CLOSETS AND TWO INCH (2") FOR LAVATORIES.
- E. STEEL PLATE SUPPORTS SHALL BE PROVIDED FOR ALL WALL HUNG FIXTURES. SUPPORTS SHALL BE 3/8-INCH-THICK X 6-INCH-WIDE STEEL PLATES RECESSED AND LAG SCREWED TO WOOD STUDS OR WELDED TO STEEL STUDS AND TAPPED FOR FIXTURE BOLTS. LENGTH AND NUMBER OF PLATES AS REQUIRED TO SATISFACTORILY SUPPORT THE FIXTURES INSTALLED.
- L. WATER HEATERS (SEE EQUIPMENT SCHEDULE ON DRAWINGS):

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

- A. LOCATIONS AND ACCESSIBILITY: INSTALL EQUIPMENT FOR EASE OF MAINTENANCE AND REPAIR. IF CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE MADE BY THE CONTRACTOR, THEY SHALL BE MADE WITHOUT ADDITIONAL CHARGES.
- OPENINGS: FURNISH INFORMATION TO THE OTHER TRADES ON SIZE AND LOCATION WHICH ARE REQUIRED IN WALLS. SLABS. ROOF, FOR PIPING AND EQUIPMENT AT THE PROPER
- C. CLOSING-IN UNINSPECTED WORK: DO NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT. ANY WORK ENCLOSED OR COVERED PRIOR TO SUCH INSPECTION AND TEST SHALL BE UNCOVERED AND, AFTER IT HAS BEEN INSPECTED, TESTED AND APPROVED, MAKE ALL REPAIRS WITH SUCH MATERIALS AS MAY BE NECESSARY TO RESTORE ALL WORK, INCLUDING THAT OF OTHER TRADES, TO ITS ORIGINAL AND PROPER CONDITION.
- BEFORE LAYING OF ANY PIPE OR DIGGING OF ANY TRENCHES, CONTRACTOR SHALL DETERMINE BY ACTUAL EXCAVATION AND MEASUREMENT EXACT LOCATIONS AND DEPTH OF EXISTING UTILITY AND SERVICE LINES TO WHICH HE IS GOING TO CONNECT. IN EVENT DEPTH OF EXISTING SEWER MAIN IS NOT SUFFICIENT TO PERMIT INSTALLATION OF PIPING AS DETAILED ON DRAWINGS OR TO MAKE CONNECT IN MANNER INDICATED, CONTRACTOR SHALL CONFER WITH THE ARCHITECT, OWNER'S REPRESENTATIVE AND ENGINEER FOR DIRECTION.
- E. EXCAVATION, TRENCHING AND BACKFILL: DO ALL NECESSARY TRENCH EXCAVATION, SHORING, BACKFILLING AND COMPACTION REQUIRED FOR THE PROPER LAYING OF THE PIPE LINES.
- BACKFILL SHALL BE CLEAN SOIL FREE FROM ROCKS AND DEBRIS. COMPACT TO NINE PERCENT (90%0 OF SURROUNDING SOIL. ALL PIPING SHALL BE INSTALLED IN A MINIMUM 6" SAND BED AND COVERED WITH 6" OF SAND PRIOR TO BACKFILL. CONTINUE BACKFILL WITH MATERIALS FREE OF ROCKS AND DEBRIS, PROPERLY MOISTENED AND MECHANICALLY TAPERED AND COMPACTED TO 90% OF SURROUNDING SOIL.
- 2. PIPING SHALL HAVE EIGHTEEN (18) OF COVER MINIMUM UNLESS OTHERWISE NOTED ON THE DRAWINGS OR AS REQUIRED TO CONNECT INTO UNDERGROUND UTILITIES PROVIDED UNDER ANOTHER SECTION OF THESE SPECIFICATIONS. THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS INTO UNDERGROUND UTILITIES.
- 3. BOTTOM OF TRENCHES: CUT TO GRADE AND EXCAVATE BELL HOLES TO ENSURE THE PIPES BEARING FOR THEIR ENTIRE LENGTH UPON THE OUTSIDE PERIPHERY OF THE LOWER THIRD OF THE PIPE.

4. WATER PIPING SHALL NOT BE RUN IN THE SAME TRENCH WITH SEWER OR DRAINAGE

NO PIPING SHALL RUN IN. THROUGH OR ABOVE ANY ELECTRICAL EQUIPMENT ROOMS OR SPACES AT ANY TIME.

PIPING UNLESS SEPARATED AS REQUIRED BY THE CPC.

- HORIZONAL SOIL AND WASTE PIPING SHALL BE INSTALLED TO A UNIFORM GRADE OF NOT LESS THAN ONE-FOURTH INCH (1/4") PER FOOT, UNLESS OTHERWISE INDICATED ON PLANS.
- F. PIPING INSTALLATION:
- ALL PIPING SHALL BE CONCEALED IN FINISHED PORTION OF THE BUILDING EXCEPT WHERE OTHERWISE INDICATED OR DIRECTED AT THE TIME THE WORK IS DONE. ALL PIPING SHALL BE INSTALLED TO CLEAR ALL FRAMING MEMBERS AND BEAMS, EVEN IF DRAWINGS DO NOT INDICATE SAME. CONTRACTOR SHALL CONSTANTLY CHECK THE WORK OF OTHER TRADES SO AS TO PREVENT ANY INTERFERENCE WITH THE INSTALLATION OF THIS WORK
- 2. ALL PIPING INTO STEM WALLS AND FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMOFLEX" INSULATION. THE CONTRACTOR SHALL ALSO PROVIDE BLOCKED OUT AREAS IN STEM WALL AND FOOTING AS REQUIRED FOR THE INSTALLATION OF THE PIPING ALL PIPING SHALL AVOID THE LOWER 8" OF THE FOOTING AND THE CONTRACTOR SHALL COORDINATE AND PROVIDE DROPPED FOOTINGS AS REQUIRED FOR THE INSTALLATION OF THE PIPING.
- UNIONS SHALL BE INSTALLED ON ONE SIDE OF ALL SCREWED SHUT-OFF VALVES, AT BOTH SIDES OF SCREWED AUTOMATIC VALVES AND ON ALL BY-PASSES, AT ALL EQUIPMENT CONNECTIONS AND ELSEWHERE AS INDICATED OR REQUIRED FOR EASE OF INSTALLATION AND DISMANTLING.
- 4. CONNECTIONS BETWEEN COPPER TUBING AND EQUIPMENT SHALL BE WITH MUELLER BRASS COMPANY, OR APPROVED EQUAL, BRASS STREAM LINE COPPER TO P.P.S. GROUND JOINT UNIONS.
- 5. HOT AND COLD WATER SUPPLIES TO LAVATORIES AND SINKS SHALL BE PROVIDED WITH NINETY (90) DROP-EAR COPPER TO PIPE THREAD ELBOWS. BOLT SECURELY TO BACKING PLATES LOCATED BETWEEN WALL STUDS TO PROVIDE A RIGID ANCHOR FOR EXPOSED SUPPLY PIPES AND STOPS.
- CORROSION PROTECTION: (IF REQUIRED)
- A. ALL BELOW GROUND METALLIC FITTINGS, VALVES, FLANGES, BOLTS, SHALL BE PROTECTED AGAINST CORROSION AS FOLLOWS:
- AS A MINIMUM ALL METALLIC COMPONENTS AS DESCRIBED ABOVE SHALL RECEIVE A HEAVY COATING OF "HENRY'S" OIL BASE ROOF MASTIC.
- 2. AFTER MASTIC COATING IS COMPLETED AND INSPECTED, WRAP ENTIRE METALLIC COMPONENT WITH A MINIMUM OF 10 MIL. POLYETHYLENE TO BE SECURED TO PIPING. THE OVERLAP SEAM SHALL BE LOCATED TO AVOID BACKFILL MATERIAL FROM ENTERING THE ENCAPSULATED AREA. THE ENDS AND SEAM OF THE POLYETHYLENE MATERIAL SHALL BE SECURED TO THE PIPING AND SEATED WITH 3M SCOTCH/WRAP N. 50, 10 MIL., 2" WIDE, PRINTED, PIPE WRAP SEALING TAPE.
- 3. THE MASTIC COATING SHALL BE INSPECTED AND APPROVED PRIOR TO THE FINISH APPLICATION OF THE POLYETHYLENE MATERIAL, WHICH SHALL BE INSPECTED.
- G. SLEEVES: SHALL BE PLASTIC OR GALVANIZED STEEL WHERE PIPES PASS THROUGH CONCRETE WALL OR FLOOR SLABS PER LANDLORD'S CRITERIA
- ISOLATE PIPES THROUGH GROUND FLOOR SLABS WITH KRAFT PAPER, PLASTIC TAPE OR SIMILAR MATERIALS UNLESS CONDUIT IS SPECIFIED OR INDICATED
- 2. SLEEVES FOR PIPES THROUGH EXTERIOR WALLS SHALL BE STANDARD WEIGHT GALVANIZED PIPE. PACK SPACE BETWEEN PIPE AND SLEEVES WITH CERAMIC FIBER ROPE SO AS TO BE ABSOLUTELY WATERTIGHT.
- SLEEVES ARE REQUIRED IN OR THROUGH FIRE RATED WALLS AND FLOORS AND SHALL BE MADE WITH U.L. APPROVED FIRE RESISTANCE SYSTEMS. SEE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF RATED WALLS AND FLOORS PRIOR TO BID
- H. CONTRACTION AND EXPANSION: INSTALL ALL WORK IN SUCH A MANNER THAT ITS CONTRACTION AND EXPANSION WILL NOT DO ANY DAMAGE TO THE PIPES, THE CONNECTED EQUIPMENT, OR THE BUILDING. INSTALL OFFSETS, SWING JOINTS, EXPANSION JOINTS, SEISMIC JOINTS, ANCHORS, ETC. AS REQUIRED TO PREVENT EXCESSIVE STRAINS IN THE PIPE WORK. ALL SUPPORTS SHALL BE INSTALLED TO PERMIT THE MATERIALS TO CONTRACT AND EXPAND FREELY WITHOUT PUTTING ANY STRAIN OR STRESS ON ANY PART OF THE SYSTEM. PROVIDE ANCHORS AS NECESSARY.
- PIPE JOINTS AND CONNECTIONS:
- COPPER TUBING AND BRASS PIPE WITH THREADLESS FITTINGS:
- SOLDER JOINTS FOR COPPER SHALL BE MADE WITH LEAD FREE SOLDER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR THE SERVICE INTENDED
- B. USE THREADED ADAPTERS ON COPPER TUBING WHERE THREADED CONNECTIONS ARE REQUIRED.
- ALL CLOSET BENDS SHALL BE ADEQUATELY BLOCKED AND SECURED. TRAP ARMS AND SIMILAR CONNECTIONS INSTALLED BELOW THE FLOOR LEVEL OR UNDER CONCRETE SLABS SHALL BE ADEQUATELY SUPPORTED AND ANCHORED TO PREVENT MOTION IN ANY DIRECTION. ALL PIPING INSTALLED ABOVE GRADE WITHIN BUILDINGS SHALL BE SECURED TO STRUCTURAL FRAMING WITH UNISTRUT OR PIPE CLAMPS TO PROVIDE A RIGID INSTALLATION PIPING UTILIZING GASKETS AS A SEAL SHALL BE GIVEN PRIME CONSIDERATION TO PROVIDING ADEQUATE STABILITY THROUGH PROPER SUPPORTS AND ANCHORS BECAUSE OF ITS FLEXIBLE NATURE.
- K. FLEXIBLE PIPING OF ANY KIND WILL NOT BE PERMITTED EXCEPT WHEN INDICATED ON DRAWINGS.
- EACH PIPE PENETRATION OF THE ROOF SHALL BE SEPARATED FROM OTHER PIPING AND ANY ROOF EQUIPMENT BY A MINIMUM OF 18" TO INSURE A PROPER PIPE FLASHING INSTALLATION.
- M. FLOOR, WALL AND CEILING PLATES: WHERE PIPES PIERCE FINISHED SURFACES, C.P. BRASS SPLIT FLANGES WITH SET SCREW LOCK SHALL BE PROVIDED.
- N. ROOF FLASHINGS: EXTEND PIPE A MINIMUM OF SEVEN INCHES (7") ABOVE FINISHED ROOF LINE, EXCEPT WHERE A VANDAL PROOF HOOD IS REQUIRED IN WHICH CASE PIPE SHALL EXTEND TO A HEIGHT REQUIRED TO RECEIVE THE HOOD AND ALSO WHERE SPECIFICALLY REQUIRED TO EXCEED THIS DIMENSION BY THE LOCAL AUTHORITY DUE TO SNOW CONDITIONS.
- O. INSTALLATION OF PLUMBING FIXTURES:

SCHALL

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APRIL 12, 2023

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2. SET FIXTURES, SUPPLIES, TRAP AND TRAP OUTLET SQUARE WITH THE WALL, IN LINE WITH FIXTURE OUTLETS WITHOUT ANY OFFSETS. ANGLES. OR BENDS.

GROUT JOINT BETWEEN THE FIXTURES AND THE WALLS OR FLOORS WITH POLYSULFIDE ≧ OR SILICONE SEALANT TO BE SMOOTH, EVEN AND WATERTIGHT.

4. WATERTIGHT JOINTS FOR DRAINAGE CONNECTIONS TO ALL FIXTURES SHALL BE MADE IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

### D. LANDLORD OR MALL CRITERIA:

₹ 1. THE ENTIRE INSTALLATION SHALL COMPLY WITH LANDLORD CRITERIA PACKAGE. CONTRACTOR SHALL OBTAIN A COPY OF THE REQUIREMENTS PRIOR TO BID.

### Q. COMPLETION OF INSTALLATION:

CLEANING AND FLUSHING: CLEAN ALL EQUIPMENT AND MATERIALS THOROUGHLY. LEAVE SURFACE TO BE PAINTED SMOOTH AND CLEAN, READY FOR PAINTING.

2. FLUSH EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM THOROUGHLY WITH CLEAN WATER AT THE HIGHEST VELOCITIES ATTAINABLE.

岁 3. CLEAN ALL PIPING, VALVES, TRAPS, WATER HEATERS, FIXTURES AND OTHER DEVICES THOROUGHLY AND FLUSH OR BLOW OUT UNTIL FREE OF SCALE, OIL SILT, SAND, SEDIMENT. PIPE DOPE AND FOREIGN MATTER OF ANY KIND.

### R. PIPE MARKING AND IDENTIFICATION:

ALL PLUMBING PIPING SYSTEMS SHALL BE MARKED CONSISTING OF THE CONTENTS NAME AND A DIRECTION OF FLOW ARROW. MARKING SHALL BE PROVIDED AT ALL VALVES, AT ALL WALL, FLOOR OR CEILING PENETRATIONS, AT EACH CHANGE OF DIRECTION, AND AT A MINIMUM OF EVERY TWENTY FEET THROUGHOUT THE PIPING RUN WITH PROPER C.G.A. COLOR CODED LABELS AND FLOW ARROWS.

### S. POINTS OF CONNECTION:

ALL PLUMBING PIPING POINTS OF CONNECTION SHALL BE MADE WITH VALVES TO ISOLATE THE NEW PIPING FROM THE OLD AND FOR STERILIZATION AS REQUIRED. ALL FREEING OF PIPING (IF REQUIRED) SHALL BE INCLUDED AS REQUIRED TO COMPLETE THE WORK.

### 3.02 STERILIZATION OF DOMESTIC WATER LINES

- A. STERILIZE WATER LINES BY FILLING WITH A SOLUTION CONTAINING FIFTY (50) PARTS OF CHLORINE PER MILLION PARTS WATER AND HOLDING THE SOLUTION THEREIN FOR AT LEAST TWENTY-FOUR (24) HOURS WITH A WATER HEAD OF AT LEAST FIVE FEET (5') ABOVE THE HIGHEST POINT IN THE SYSTEM. UNLESS OTHERWISE DIRECTED, THOROUGHLY FLUSH EACH LINE PRIOR TO STERILIZATION. INTRODUCTION OF STERILIZING SOLUTION OR MATERIALS INTO THE LINES SHALL BE SUCH AS TO PROVIDE THOROUGH AND UNIFORM DISTRIBUTION THROUGHOUT THE SYSTEM.
- B. OPERATE ALL VALVES DURING THE RETENTION PERIOD. FOLLOWING RETENTION PERIOD, THE HEAVY CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER.
- ₹ C. CONTINUE FLUSHING UNTIL THE RESIDUAL CHLORINE AT THE END OF 24 HOURS IS AS REQUIRED BY C.P.C.
- D. ALL WORK AND CERTIFICATION OF PERFORMANCE MUST BE DONE BY AN APPROVED LABORATORY UTILIZING QUALIFIED APPLICATIONS AND PERSONNEL

### 3.03 TESTING

A. NO PIPING WORK SHALL BE CONCEALED OR COVERED UNTIL PIPING HAS BEEN TESTED. INSPECTED AND APPROVED BY THE INSPECTOR. ALL PIPING FOR PLUMBING SYSTEMS SHALL  $lac{1}{2}$  BE COMPLETELY INSTALLED AND TESTED AS REQUIRED BY THE CALIFORNIA PLUMBING CODE. TEST PRESSURES AND TIMES INDICATED ARE A MINIMUM ONLY. ALL TESTS SHALL BE AS REQUIRED BY THE GOVERNING AUTHORITY AS WELL.

### SCHEDULE OF TEST PRESSURES:

SYSTEM TESTED	GAUGE D	DURATION TEST	
WATER	100 POUNDS	4 HOURS	WATER
WATER/VENT/STORM	10 FEET OF HEAD4 HOUR	RS WATER	
GAS	100 POUNDS	4 HOURS	AIR

### 3.04 OPERATION INSTRUCTION

A. PRIOR TO OCCUPANCY OR PRIOR TO THE DATE OF FINAL INSPECTION, WHICHEVER MAY OCCUR FIRST, THE CONTRACTOR SHALL PREPARE TWO (2) SETS OF TYPEWRITTEN INSTRUCTIONS FOR THE OPERATION OF ALL EQUIPMENT, VALVES, ETC. SPECIFIED AND FURNISHED AS A PART OF THE WORK UNDER THIS SECTION, AND SHALL ASSIGN A COMPETENT PERSON, THOROUGHLY FAMILIAR WITH THE JOB, TO DEMONSTRATE AND INSTRUCT A REPRESENTATIVE OF THE OWNER IN THE OPERATION OF THE EQUIPMENT. THE TIME OF SAID DEMONSTRATION AND INSTRUCTIONS SHALL BE ARRANGED WITH THE OWNER'S REPRESENTATIVE APPROXIMATELY ONE (1) WEEK IN ADVANCE. VERBAL INSTRUCTIONS SHALL INCLUDE SHUT-OFF LOCATION OF GAS AND WATER. THE CONTRACTOR SHALL ASSEMBLE ALL OPERATION AND MAINTENANCE DATA SUPPLIED BY THE MANUFACTURERS OF THE VARIOUS PIECES OF EQUIPMENT, ALL KEYS AND SPECIAL WRENCHES REQUIRED TO OPERATE AND SERVICE THE EQUIPMENT (INCLUDING KEYS FOR YARD BOXES, GAS STOPS AND FIXTURE ▼ STOPS), AND ALL EQUIPMENT WARRANTIES AND DELIVER SAME TO THE REPRESENTATIVE OF THE OWNER ON DATE OF SAID INSTRUCTIONS.

**END OF SECTION** 

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APRIL 12, 2023  $\sqrt[4]$  July 31, 2023 corrections

PROJECT NO: 2022170

SHEET TITLE **PLUMBING** SPECIFICATIONS

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MEGO CALIFORNIA 92123

PROJECT NO: 2022170

PLUMBING
FLOOR
PLAN

SHEET NO:

P211





APRIL 12, 2023 /1\JULY 31, 2023 CORRECTIONS

PROJECT NO: 2022170 SHEET TITLE

PLUMBING FLOOR PLAN

SHEET NO:

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