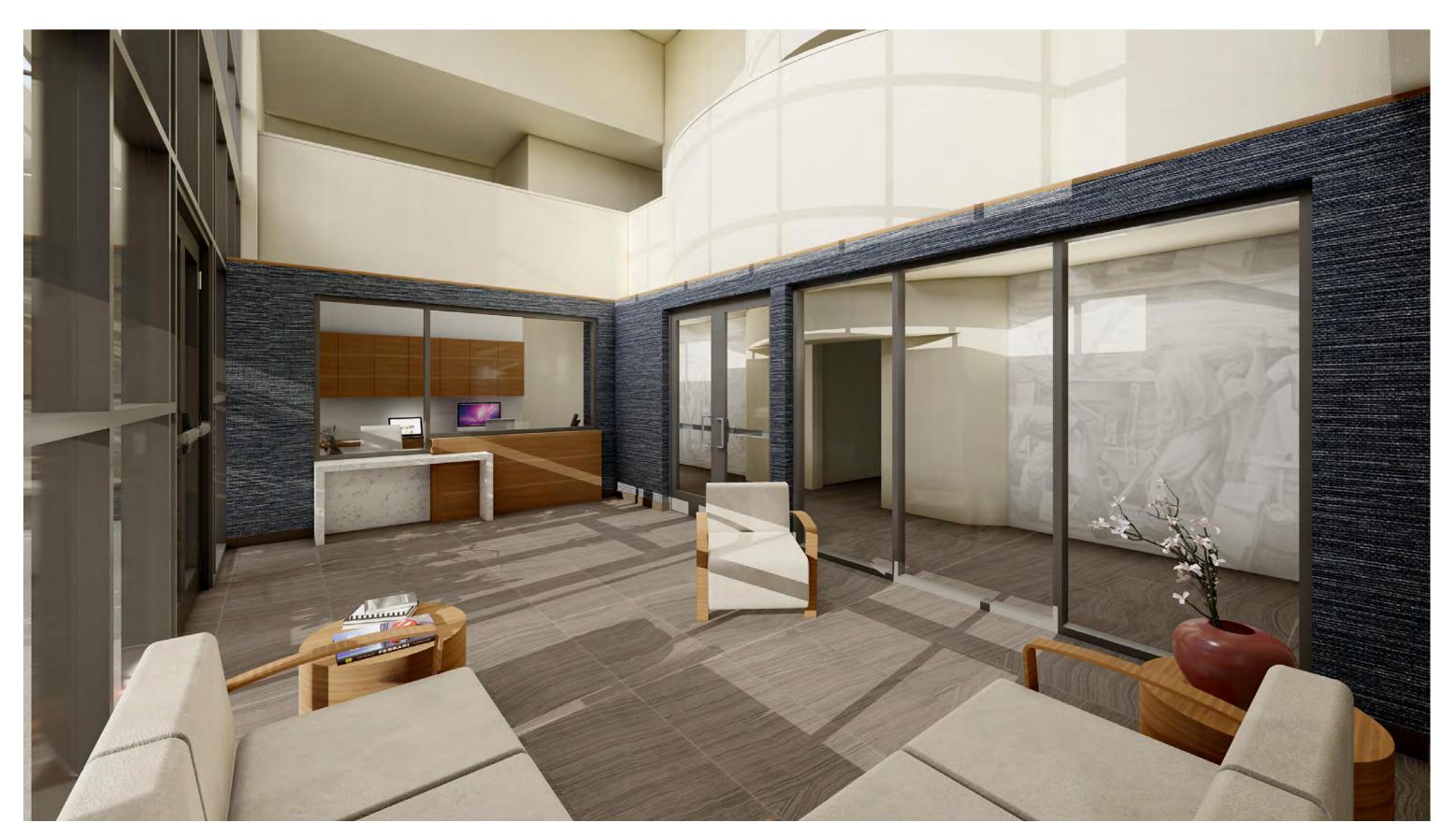
PROJECT NO.

SANTA ANA WATERSHED PROJECT AUTHORITY





LOBBY REMODEL AND ADA UPGRADES

Jack Panichapan, AIA PRINCIPAL-IN-CHARGE

LOBBY REMODEL AND ADA UPGRADES



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[MO. C.2 MO. C.2
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00-GENERAL		cture ining erior 2626
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A-1.1	EXITING PLAN	
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02-ELECTRICA	L	Gillis+Panichapan Architects, Inc.
E-0.1	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS	All Rights Reserved
E-0.2	ELECTRICAL SPECIFICATIONS	This document and the structure depicted are the copyrighted property of, and may
E-0.3 E-0.4	SINGLE LINE DIAGRAM AND PANEL SCHEDULES	reproduced in any form without express written permission of, Gillis+Panici
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05-STRUCTURE		
.SN-1		DATE: 2
S1.0 S2.0	CLUBHOUSE FRAMING PLAN CLUBHOUSE FRAMING PLAN	DATE DATE AR. VIET
52.0		
06-CIVIL(FOR	REFERENCE ONLY)	
SHEET-1	ENTRANCE IMPROVEMENT PLAN	CHECKED BY:
SHEET-2	ADA DETAILS	 🛱 - - - - - - - -
SHEET-3	TOPOGRAPHIC MAP	45 CHE
		DESIGN DEV ADDENDUM JOB NO.: 39



LOCATION MAP (NOT TO SCALE)

Sawpa Santa ana watershed project COVER SHEET CITY OF RIVERSIDE REVIEWED BY DATE: <u>COMMENT</u>

CV-1

AUTHORITY

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	GENERAL NOTES	WATERP
1.	THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF SAWPA AND ARE NOT TO BE USED FOR OTHER PROJECTS WITHOUT THE PERMISSION OF THE ARCHITECT.	1. THERE IS A HEIGHTENED CONCERN IN THE CONSTR
2.	THESE NOTES APPLY TO ALL DRAWINGS, UNLESS NOTED OTHERWISE. ANY OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR GENERAL NOTES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER/CLIENT'S REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.	BUILDINGS AND THE RESULTING MOLD THAT DEVEL ATTEMPT TO SPECIFICALLY DETAIL THE PROJECT TO INTO THE BUILDING. HOWEVER, ALL OF THESE AVEL BUILDING MAY NOT HAVE BEEN OBSERVED DURING
3.	ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE SHOWN. THEY DO NOT INDICATE METHOD OF CONSTRUCTION. CONTRACTOR IS TO SUPERVISE AND DIRECT THE WORK UNDER HIS CONTRACT AND SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE OWNER/CLIENT AND / OR HIS CONSULTANTS ARE NOT TO INCLUDE INSPECTIONS OF REQUIRED FOR SAME, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY SUPPORT SERVICES PERFORMED BY THE OWNER/CLIENT'S REPRESENTATIVE AND / OR HIS CONSULTANTS DURING CONSTRUCTION ARE TO BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE OWNER/CLIENT'S REPRESENTATIVE AND / OR HIS CONSULTANTS, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO, DURING OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING GENERAL CONFORMANCE WITH DESIGN CONCEPT AND CONTRACT DRAWINGS AND SPECIFICATIONS AND THEREFORE, THEY DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.	BUILDNG, THE OWNER/CLIENT'S REPRESENTATIVE A CONDITIONS THAT MAY OCCUR WITH RESPECT TO BUILDING SUFFERS A BREACH, AND MOLD DEVELOP COSTLY. WE ASK THAT THE CONSTRUCTION TEAM E THAT, THE BUILDING THAT WE TURN OVER AS A TE CONTRACTOR, WILL BE THE LAST HANDS ON THE PI YOU, YOUR CONSTRUCTABILITY IDEAS TO KEEP THI 1. POST ROOM CAPACITY SIGN AS PROVIDED BY THE I
4.	CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS TO BE REMOVED, RELOCATED OR REMAIN INTACT AND HOW THE NEW CONSTRUCTION RELATES TO THE SITE CONDITION.	PURPOSED ROOM HAVING AN OCCUPANT LOAD OF 12. PORTABLE FIRE EXTINGUISHERS TO BE PROVIDED 1
5.	THE CONTRACTOR SHALL EXAMINE THE JOB SITE. CONFIRM ALL UTILITY LOCATIONS, SIZES, PRESSURES, ETC AND PROTECT, RELOCATE, CONNECT OR REMOVE ALL NECESSARY FOR TOTAL PROJECT COMPLETION. VERIFY ALL DIMENSIONS AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE. NOTIFY THE OWNER/CLIENT'S REPRESENTATIVE OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING WORK.	 ALL PORTIONS OF THE BUILDING ON EACH FLOOR A 3. INTERIOR FINISHES TO COMPLY WITH CHAPTERS 7 AND ALL OTHER APPLICABLE CODES AND REGULATION
6.	ALL CONTRACTORS AND SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTENTS OF ALL THE DRAWING AND ALL SPECIFICATION SECTIONS, REGARDLESS OF THEIR LICENSE CLASSIFICATION. NO REQUEST FOR CHANGE ORDER WILL BE CONSIDERED BASE UPON INFORMATION FOUND IN ONE AREA OF THE PLANS OR SPECIFICATIONS, AND NOT THE OTHER. INFORMATION FOUND IN ONE PART OF THE PLANS SHALL BE DEEMED TO BE IN ALL SECTIONS.	 "PENETRATIONS OF FIRE RESISTIVE WALLS, FLOOR SECTION 713". CONTRACTOR SHALL MAINTAIN THE RATING OF ALL EXPENSE, WHENEVER ANY PENETRATION ARE MADE
7.	ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.	NUMBER DEPICTING WALL TYPE COMPOSITION AND FIREPROOFING METHOD FOR APPROVAL PRIOR TO
8.	THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISH STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE OWNER/CLIENT'S REPRESENTATIVE OR OWNER/CLIENT'S STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE UNLESS NOTED.	 EVERY EXIT DOOR SHALL BE OPENABLE FROM THE SPECIAL LOCKING DEVICES SHALL BE OF AN APPRO PANIC HARDWARE SHALL BE PROVIDED ON EXIT DO CAPACITY OF 50 OR MORE PERSONS. ANY DECORATIONS (DRAPES, CURTAINS, SHADES, E MANNER, TO COMPLY WITH FIRE MARSHALL BUILDI
9.	DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL. DIMENSIONS SHOWN ARE TO THE FACE OF WALL FRAMING (CMU, STUD) UNLESS OTHERWISE NOTED.	9. ALL EXIT SIGNS OR ILLUSTRATED ON PLANS ARE TO WALL MOUNTED. THE EMERGENCY SYSTEM PROVID LIGHTING AND CAC, AND UBC CHAPTER 10. SIGNS
10.	ALL DIMENSIONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, THE OWNER/CLIENT'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION.	FIRE SAFETY
11.	THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BUILDING BACKING SLEEVES, FRAMING FOR LIGHT FIXTURES, ELECTRICAL LIGHTS, A/C EQUIPMENT, DRAPERY, CEILING TRACKS, PLUMBING EQUIPMENT, COUNTERS, HANDRAILS, AND ALL OTHER ITEMS REQUIRING BACKING SUPPORT.	ALTERATIONS AND DEMOLITION FOR REMODEL PROJECT 1. IMPAIRMENTS TO ANY FIRE PROTECTION SYSTEM
12.	ANYONE SUPPLYING LABOR AND MATERIALS TO THE PROJECT IS TO CAREFULLY EXAMINE ALL SUBSURFACES TO RECEIVE WORK. ANY CONDITIONS DETRIMENTAL TO WORK TO BE REPORTED IN WRITING TO OWNER/CLIENT'S REPRESENTATIVE & PROJECT ARCHITECT PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF SUBSURFACES.	SECTION 1408.6 2. COVER OR REMOVE SMOKE DETECTORS DURING MAY BE SUBSTITUTED FOR SMOKE DETECTORS D 3. MAINTAIN REQUIRED EXITS. WHEN TEMPORARY BEDRIDDEN PATIENTS SHALL HAVE THEIR REQUI
13.	REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR DEPRESSED SLABS, CURBS, FINISHES, TEXTURES, CLIPS, GROUNDS, ETC., NOT SHOWN ON STRUCTURAL DRAWINGS.	 TEMPORARY EXITS SHALL BE REVIEWED BY FIRE MAINTAIN FIRE-RESISTANCE RATING OF FIRE- R AN OPERATIVE CONDITION. 2022 CFC, SECTION
14.	PROVIDE OPENINGS AND SUPPORTS FOR MECHANICAL EQUIPMENT, DUCTS, PIPING, VENTS, ETC, AS REQUIRED. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS AND EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUSPENDED EQUIPMENT AND MATERIALS TO BE INSTALLED WITH APPROVED LATERAL BRACING. VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE CONSTRUCTION OF ANY BASES OR PADS TO SUPPORT SUCH EQUIPMENT. VERIFY ALL PLUMBING AND EQUIPMENT SIZES BEFORE BEGINNING CONSTRUCTION OF CABINETS.	 PLASTIC FILM WHEN USED FOR DUST PROTECTIC SUBCHAPTER 1, ARTICLE 3, SECTION 3.08 HOT WORK OPERATIONS INCLUDING CUTTING, V 26. 2022 CFC, SECTION 1404.6.
15.	NOTIFY OWNER/CLIENT'S REPRESENTATIVE 24 HOURS PRIOR TO PLACING CONCRETE.	
16.	NOTED FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE FLOOR SLAB. WHERE FLOORS ARE SLOPED FOR DRAINAGE, THE HIGH POINT OF FINISH FLOOR IS (+ OR -) 0'- 0" UNLESS NOTED OTHERWISE, AND IS AT THE PERIMETER OF THE ROOM. STANDARD SLOPE IS 1/4" PER FOOT (MINIMUM = 3/16" PER FOOT; MAXIMUM = 5/16" PER FOOT). SUB-SLABS DEPRESSED FOR TILE FLOOR FINISH TO BE SLOPED TO DRAIN AND MAINTAIN SLAB THICKNESS INDICATED ON THE STRUCTURAL DRAWINGS.	
17.	SOILS AND FOUNDATIONS INFORMATION BORING LOCATIONS, TEST RESULTS ARE INCLUDED IN THE PROJECT GEOTECHNICAL INVESTIGATION REPORT.	FIF
18.	NOTIFY THE OWNER/CLIENT'S REPRESENTATIVE IF ANY CONDITIONS EXIST WHICH WILL PREVENT THE COMPLETION OF WORK IN A PROFESSIONAL AND SATISFACTORY MANNER AS WELL AS ANY AND ALL ADDITIONAL WORK TO BE PERFORMED BEFORE STARTING WORK ALL NOTIFICATIONS SHALL BE IN WRITING.	 EXIT DOORS SHALL SWING IN THE DIRECTION OF OCCUPANT LOAD OF 50 OR MORE. EXIT DOORS SHALL BE OPERABLE FROM THE INSI (2022 CBC 1010.9).
19.	ALL CONTRACTORS AND SUB-CONTRACTORS SHALL OBTAIN A CITY BUSINESS LICENSE. APPLICANTS (DEVELOPER/CONTRACTOR) SHALL REQUEST A STANDARD SUB-CONTRACTOR FORM FROM BLDG. DIV. PRIOR TO BLDG PERMIT ISSUANCE. THEY SHALL COMPLETE AND SUBMIT THE FORM TO THE BUSINESS LICENSE DIV. BEFORE RELEASING THE CERTIFICATE OF OCCUPANCY.	 EXCEPTION: THIS REQUIREMENT SHALL NOT APPI VISIBLE, DURABLE SIGN ON OR ADJACENT TO THI OCCUPIED". THE LETTERS SHALL BE NOT LESS TH MUST BE A TYPE THAT WILL BE READILY DISTING PANIC HARDWARE, WHEN INSTALLED, SHALL COM ACTIVATING MEMBER SHALL BE MOUNTED AT A H THE FLOOR. THE UNLATCHING FORCE SHALL NOT THE MEANS OF EGRESS, INCLUDING THE EXIT DIST
	CODE (GENERAL)	 SERVED BY THE MEANS OF EGRESS IS OCCUPIED. FOOT CANDLE (11 LUX) AT THE WALKING SURFAC 6. EXIT ILLUMINATION SHALL COMPLY WITH 2022 C
1.	IT IS THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE OWNER/CLIENT'S REPRESENTATIVE AND PROJECT ARCHITECT ANY DISCREPANCIES OR CONFLICTS BETWEEN THE CODE REQUIREMENTS AND THE DRAWINGS BEFORE PROCEEDING WITH WORK.	 EXIT SIGNS SHALL BE INSTALLED AT REQUIRED E THE DIRECTION OF EGRESS WHEN THE EXIT SERV EXCEPTION: MAIN EXTERIOR EXIT DOORS WHICH SIGNED WHEN APPROVED BY THE BUILDING OFFI WHEN NECESSARY, THE FINAL LOCATION AND QU
2.	CONTRACTOR SHALL COMPLY FULLY WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, ALL LAWS AND ORDINANCES PERTINENT TO ALL WORK OF THIS PROJECT. IN CASE OF ANY CONFLICT WHEREIN THE METHOD OR STANDARDS OF INSTALLATION OR THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES SHALL GOVERN.	 9. WHEN NECESSART, THE FINAL LOCATION AND QC PRIOR TO CONSTRUCTION OF ANY WORK. 10. THE COLOR AND DESIGN OF LETTERING, ARROWS THEIR BACKGROUND (3/4" X 6" LETTERS MIN.). 11. ALL RATED CORRIDOR DOORS SHALL HAVE A THR 12. INTERIOR WALL AND CEILING FINISHES SHALL BE
3.	ALL WORK SHALL COMPLY WITH TITLE 24 OF THE CODE OF REGULATIONS AND THE CALIFORNIA BUILDING CODE LATEST EDITION (INDICATED ON THESE SHEETS WITH CBC AMENDMENTS, AND ALL OTHER LOCAL OR STATE AGENCIES HAVING JURISDICTION OVER THIS PROJECT).	DEVELOPED INDEX 0-450. 13. ALL DRAPES, HANGING CURTAINS, AND OTHER DE RETARDANT CONDITION.
	ACCESSIBILITY NOTES	 FIRE DAMPERS OR DOORS SHALL BE PROVIDED W CBC SECTION 716. EXTEND/MODIFY FIRE/LIFE SAFETY SYSTEMS AS F
1.	AT ABRUPT CHANGES IN LEVELS NOT EXCEEDING 1/2", BEVEL WITH A SLOPE NO GREATER THAN 1:2 EXCEPT AT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL PER CBC SECTION 1133B.7.4 AND FIGURE 11B-25, 11B-26A, 11B-32 AND	 EXTEND FIRE SPRINKLERS SYSTEMS AS REQUIRED FIRE SPRINKLER/OR LIFE SAFETY PLANS MUST BE
2.	CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL PER CBC SECTION 1133B.7.4 AND FIGURE 11B-25, 11B-26A, 11B-32 AND 11B-29. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE EXCEEDING 1/2" SHALL COMPLY WITH THE REQUIREMENTS FOR	PERMIT ISSUANCE. 18. FIRE SPRINKLER SYSTEM PLAN MUST BE REVISED INSTALLATION OR MODIFICATION OF SPRINKLER
3.	CURB RAMPS PER CBC SECTION 1127B.5. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 UNIT VERTICAL TO 20 UNITS HORIZONTAL IT	19. A PORTABLE FIRE EXTINGUISHER WITH A MINIMU FROM ANY POINT WITHIN THE AREA DEFINED AS
4. 5.	SHALL COMPLY WITH THE PROVISIONS OF CBC SECTION 1133B.5 AND 1133B.7.3 AS A PEDESTRIAN RAMP. WALK AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT PER CBC SECTION 1133B.7.1.3 WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60" BY 60" AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK AND NOT LESS THAN 48" WIDE BY 44" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK PER CBC SECTION 1133B.7.5.	20. ALL EMERGENCY LIGHTING SOURCES SHALL EMIT 21. PROVIDE EMERGENCY NOTIFICATION SYSTEM FO
6.	WALKS SHALL EXTEND A MINIMUM OF 24" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK PER CBC SECTION 1133B.7.5.	

RPROOFING COMMENTS		ABBREVIATION	NS		PROJ
STRUCTION INDUSTRY ABOUT THE INTRUSION OF WATER INTO VELOPS SUBSEQUENTLY. THE OWNER/CLIENT HAS MADE A DILIGENT	@ AB AC ADJ	AT ANCHOR BOLT ASPHALTIC CONCRETE ACOUST ACOUSTICAL ADJUSTABLE	HT HVAC HP ID	HEIGHT HEATING VENTILATION AIR CONDITION HIGH POINT INSIDE DIAMETER	1. LOB 2. ACC 3. MIN
T TO STOP THIS WATER FROM ENTERING THROUGH PENETRATIONS VENUES WHICH ALLOW THE INTRUSION OF WATER INTO THE NG DESIGN. DURING THE COURSE OF YOUR CONSTRUCTION OF THE	AFF AL ANOD AP	ABOVE FINISH FLOOR ALUMINUM ANODIZED ACCESS PANEL	INCL INT LP L	INCLUDING INTERIOR LOW POINT LONG (LENGTH)	
/E ASKS TO BE ADVISED IMMEDIATELY OF ANY QUESTIONABLE TO THE PERCEIVED WATER-TIGHTNESS OF THE STRUCTURE. ONCE A .OPS, A BUILDING CAN BECOME UNTENABLE, AND CORRECTIONS M BE DILIGENT IN THEIR CONSTRUCTION EFFORTS TO HELP INSURE	ARCH BD BEL BET	ARCHITECT (URAL) BOARD BELOW BETWEEN	LAM LAV LBL LH	LAMINATED LAVATORY LABEL LEFT HAND	
TEAM, WILL BE AS WATERTIGHT AS WE CAN MAKE IT. YOU, THE E PROJECT, AND WE ARE CERTAINLY AVAILABLE TO DISCUSS WITH THIS PROJECT WATERTIGHT.	BLDG BLK(G) B BRG BS	BUILDING BLOCKING BOTTOM BEARING BOTH SIDES	LW MAS MAX MB MECH	LIGHTWEIGHT MASONRY MAXIMUM MACHINE BOLT MECHANICAL	PROJE
LIFE SAFETY	BUL BUR CB CEM	BULLETIN BUILT UP ROOFING CATCH BASIN CEMENT	MED MET MFR MISC	MEDUIM METAL MANUFACTURER MISCELLANEOUS	OCCUF
HE LOCAL FIRE DEPARTMENT IN EACH CLASSROOM, ASSEMBLY ROOM OR SIMILAR DF 50 OR MORE.	CFCI CI CJ	CONTRACTOR FURBISHED CONTRACTOR INSTALLED CAST IRON CEILING JOIST	MO MTL NAT (N)	MASONRY OPENING MATERALS NATURAL NEW	GROUN SECON
ED IN CABINETS LOCATED WITHIN SEVENTY-FIVE (75) FOOT TRAVEL DISTANCE TO OR AND AS SHOWN ON PLANS.	CL CLG CLR COL CONC	CENTERLINE CEILING CLEARANCE COLUMN CONCRETE	NIC N O.C. OD OFCI	NOT IN CONTRACT NORTH ON CENTER(S) OUTSIDE DIAMETER OWNER FURBISHED	TOTAL TOTAL SPRIN
S 7 AND 8, AND GLASS AND GLAZING TO COMPLY WITH CHAPTER 24 OF THE CBC ATIONS GOVERNING THE PLACE OF THE BUILDING.	CONST CONST CONT CONTR D	CONSTRUCTION CONTINOUS OR CONTINUE CONTRACTOR DEEP (DEPTH)	OFOI	CONTRACTOR INSTALLED OWNER FURBISHED OWNER INSTALLED OPENING	NUMB
OR -CEILINGS AND ROOF-CEILING SHALL BE PROTECTED AS REQUIRED IN CBC ALL PENETRATING WALLS AND SHALL APPLY FIRESTOP AND FIREPROOFING, AT HIS	DF DIAG DIAM DIM	DRINKING FOUNTAIN DIAGONAL DIAMETER DIMENSION	OPP OH PLAS PSF	OPPOSITE OVERHANG PLASTER, PLASTIC POUNDS PER SQUARE FOOT	
ADEETC. FIRESTOP AND FIREPROOFING MATERIAL SHALL BEAR U.L. LISTING AND FIRE RATED MATERIAL LIMITATIONS. SUBMIT PROPOSED FIRESTOP FO APPLICATION IN THE FIELD.	DN DR DS DTL	DOWN DOOR DOWNSPOUT DETAIL	PSI PVC R RAD	POUNDS PER SQUARE INCH POLYVINYL RISER RADIUS	DEFERI
HE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ROVED TYPE.	DWG E EA EL	DRAWING EAST EACH ELEVATION	RD REF REFL REINF	ROOF DRAIN REFERENCE REFLECTED REINFORCED	
DOORS SERVING ROOMS, CORRIDORS OR STAIRWAYS HANDLING AN OCCUPANT	ELECT EMER EQ WEX	ELECTRIC(AL) EMERGENCY EQUAL ELECTRICAL WATER COOLER	REQD REV RH RM	REQUIRED REVISION RIGHT HAND ROOM	
S, ETC.) USE SHALL BE NON-COMBUSTIBLE OR FLAME-PROOF IN AN APPROVED LDING CODE REQUIREMENTS. TO BE ILLUMINATED PER CURRENT ELECTRICAL CODE AND SHALL BE CEILING OR	EX (E) EXP EXT	EXHAUST EXISTING EXPOSED EXTERIOR	RO S SC SEC	Rough opening South Solid Core Section	
VIDES FOR A LIGHTING VALUE OF ONE-FOOT-CANDLE AT FLOOR LEVEL EXIT NS SHALL HAVE 6" LETTERS ON CONTRASTING BACKGROUND.	FD FE(C) FFE FHC	FLOOR DRAWN FIRE EXTINGUISHER CABINET FINISH FLOOR ELEVATION FIRE HOSE CABINET	SF SL SIM SPEC	SQUARE FOOT (FEET) SKY LIGHT SIMILAR SPECIFICATIONS	11615
Y DURING CONSTRUCTION	FIN FJ FLR FOC	FINISH(ED) FLOOR JOIST FLORRINGS FACE OF CONCRETE	SQ SYM T TE	SQUARE SYMMETRICAL TREAD, TOP TELEPHONE	
<u>ECTS</u> : TEM SHALL BE IN ACCORDANCE WITH 2022 CFC, SECTION 901. 2022 CFC,	FOF FOM FOS FTG	FACE OF FINISH FACE OF MASONRY FACE OF STUDS FOOTING	(T) T&G TOP TOS	TEMPERED TONGUE & GROOVE TOP OF PARAPET TOP OF SLAB	
NG ALTERATION WHEN REQUIRED BY THE FIRE MARSHAL. HEAT DETECTORS IS DURING ALTERATIONS. NFPA 72-2016, SECTION 17.7.1.11 ARY CONSTRUCTION BARRIERS ARE PROVIDED, EXIT CORRIDORS SERVING	GA GI GL GLB GYP	GAUGE GALVANIZED IRON GLASS, GLAZING GLUE LAMINATED BEAM GYPSUM	TS TW TYP U.N.O UR	TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE URINAL	
QUIRED WIDTH REDUCED TO NOT LESS THAN 6 FEET. 2022 CFC, SECTION 1411.2 RE MARSHAL. 2022 CFC, SECTION 1411.2 - RESISTANCE-RATED CONSTRUCTION AND MAINTAIN OPENING PROTECTIVES IN ON 703.1 AND 703.2.	GWB H HB HC	Gypsum White Board High (Height) Hose Bibb Hollow Core	VERT VG VIN W	VERTICAL VERTICAL GRAIN VINYL WEST, WIDTH, WIDE	
TION SHALL BE FLAME RESISTANT. TITLE 19, DIVISION 1, CHAPTER 1, G, WELDING AND GRINDING SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER	HDR HDW HM HOR	HEADER HARDWARE HOLLOW METAL HORIZONTAL	WC WP WR	WATER CLOSET WATER PROOFING WATER REPELLENT	•
		SYMBOLS	LEGEND		
			WA	WALL TYPE MARK	
	04 X				1
-IRE PREVENTION	0	ELEVATION NUMBER	DO	OR TYPE MARK	

OF EXIT TRAVEL WHEN SERVING ANY HAZARDOUS AREA OR WHEN SERVING AN

SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT

PLY TO EXTERIOR EXIT DOORS IN A GROUP "B" OCCUPANCY IF THERE IS A HE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. THE LOCKING DEVICE IGUISHABLE AS LOCKED.

MPLY WITH ALL APPLICABLE BUILDING CODE REQUIREMENTS. THE HEIGHT OF NOT LESS THAN 30 INCHES NOR MORE THAN 44 INCHES ABOVE OT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF EXIT TRAVEL. ISCHARGE SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE D. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1

CE LEVEL (2022 CBC 1008.1, 1008.2, AND 1008.3). CBC SECTION 1008 AND 1013. EXIT DOORWAYS AND WHERE OTHERWISE NECESSARY TO CLEARLY INDICATE

RVES AN OCCUPANT LOAD OF 50 OR MORE. H OBVIOUSLY AND CLEARLY ARE IDENTIFIABLE AS EXITS NEED NOT BE FICIAL.

QUANTITY OF EXIT SIGNS SHALL BE DETERMINED BY THE FIRE DEPARTMENT

VS AND OTHER SYMBOLS ON EXIT SIGN SHALL BE IN HIGH CONTRAST WITH

IRESHOLD WITH A SMOKE AND DRAFT SEAL AT HEAD AND JAMBS. BE NON-COMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF 0 TO 25; SMOKE-

DECORATIVE MATERIALS SHALL BE TREATED AND MAINTAINED IN A FLAME

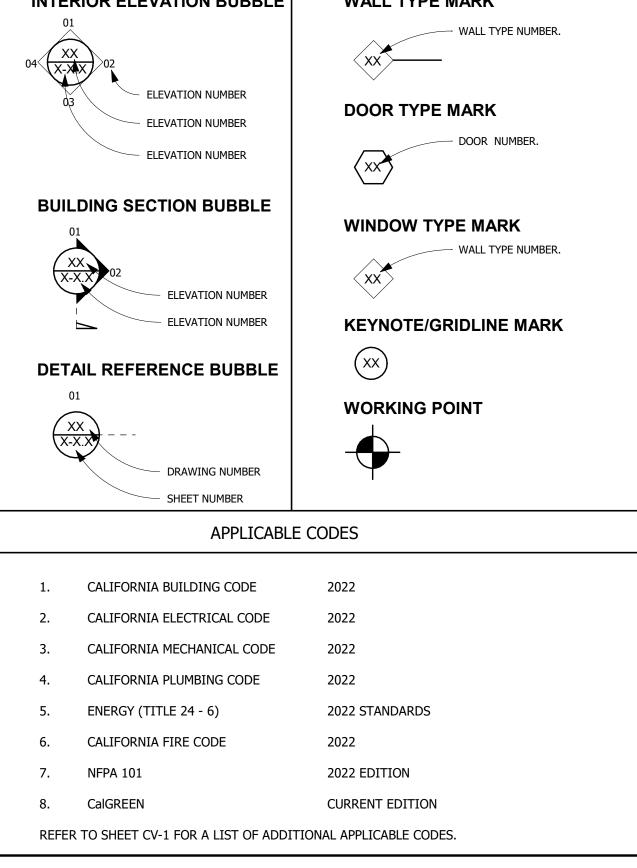
WHERE AIR DUCTS PENETRATE FIRE RATED WALLS OR CEILINGS AS PER 2022 REQUIRED.

E SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO BUILDING

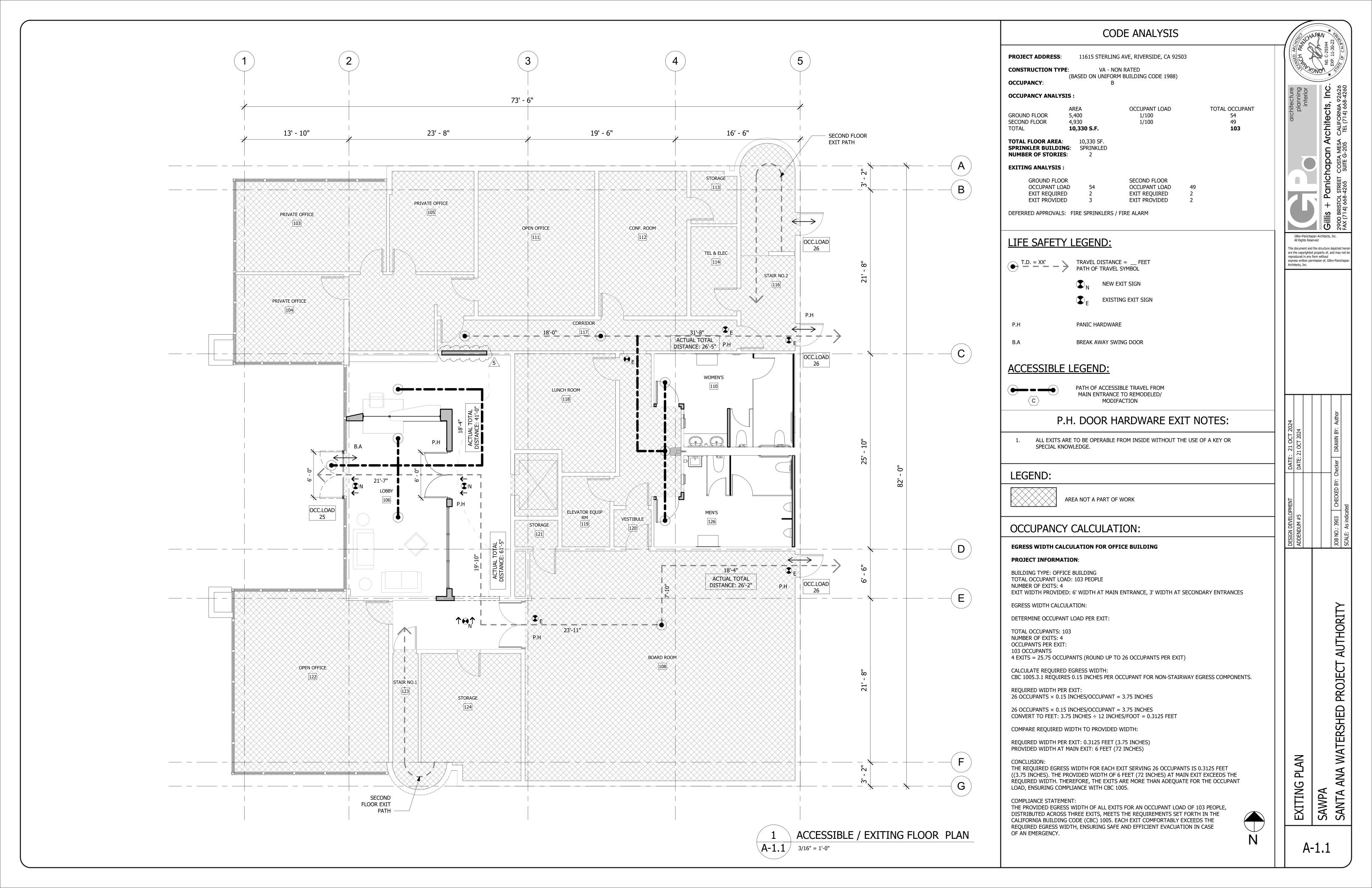
D AND APPROVED BY THE CITIES FIRE DEPARTMENT PRIOR TO THE R SYSTEMS. 1/UM 2A10BC RATING SHALL BE PROVIDED EVERY 75' OF TRAVEL DISTANCE

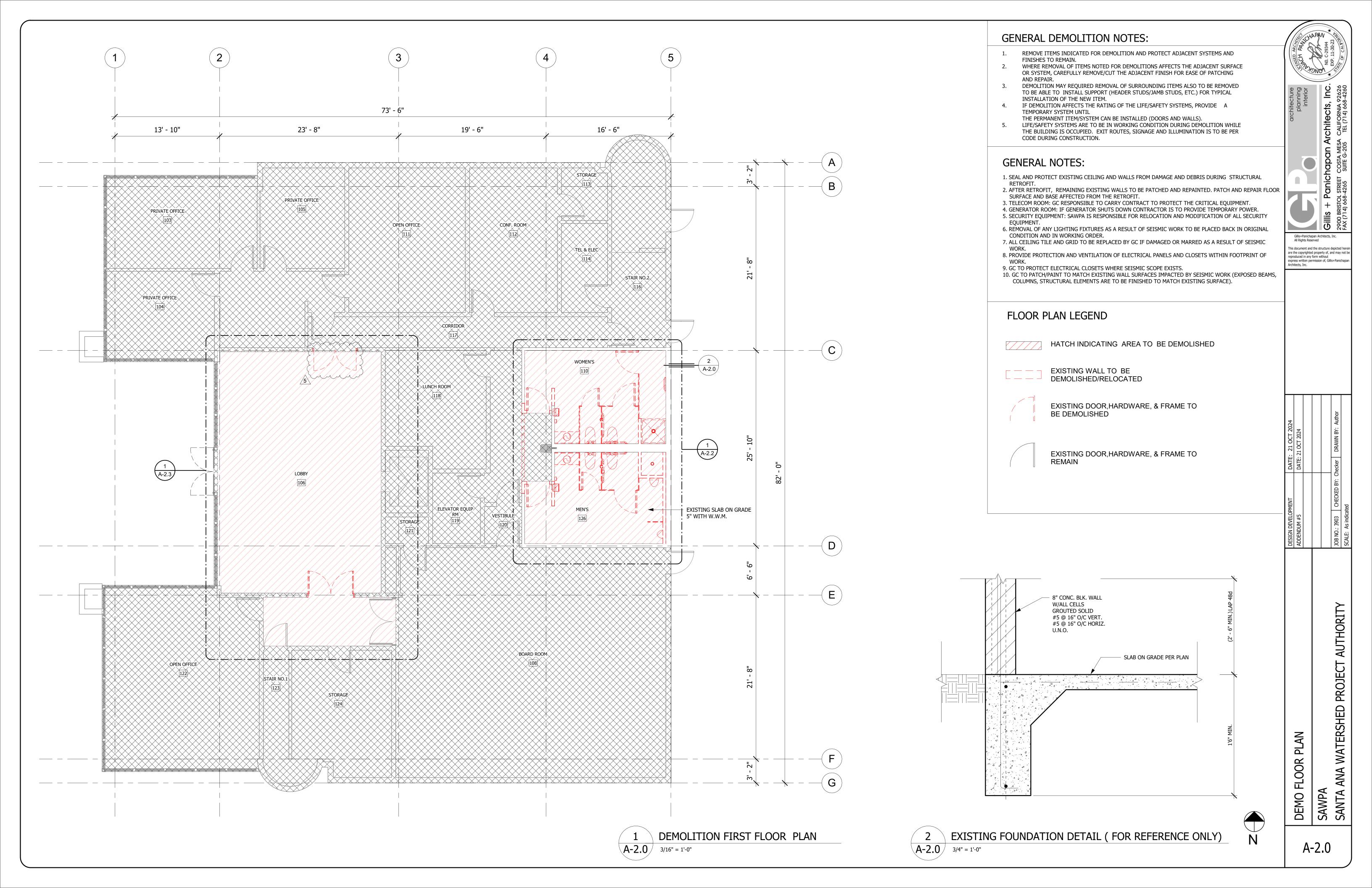
AS SCOPE OF WORK PER THESE PLANS PROVIDE FIRE EXTINGUISHERS AS TOR. IT A MINIMUM VALUE OF ONE FOOT CANDLE MEASURED AT FLOOR LEVEL.

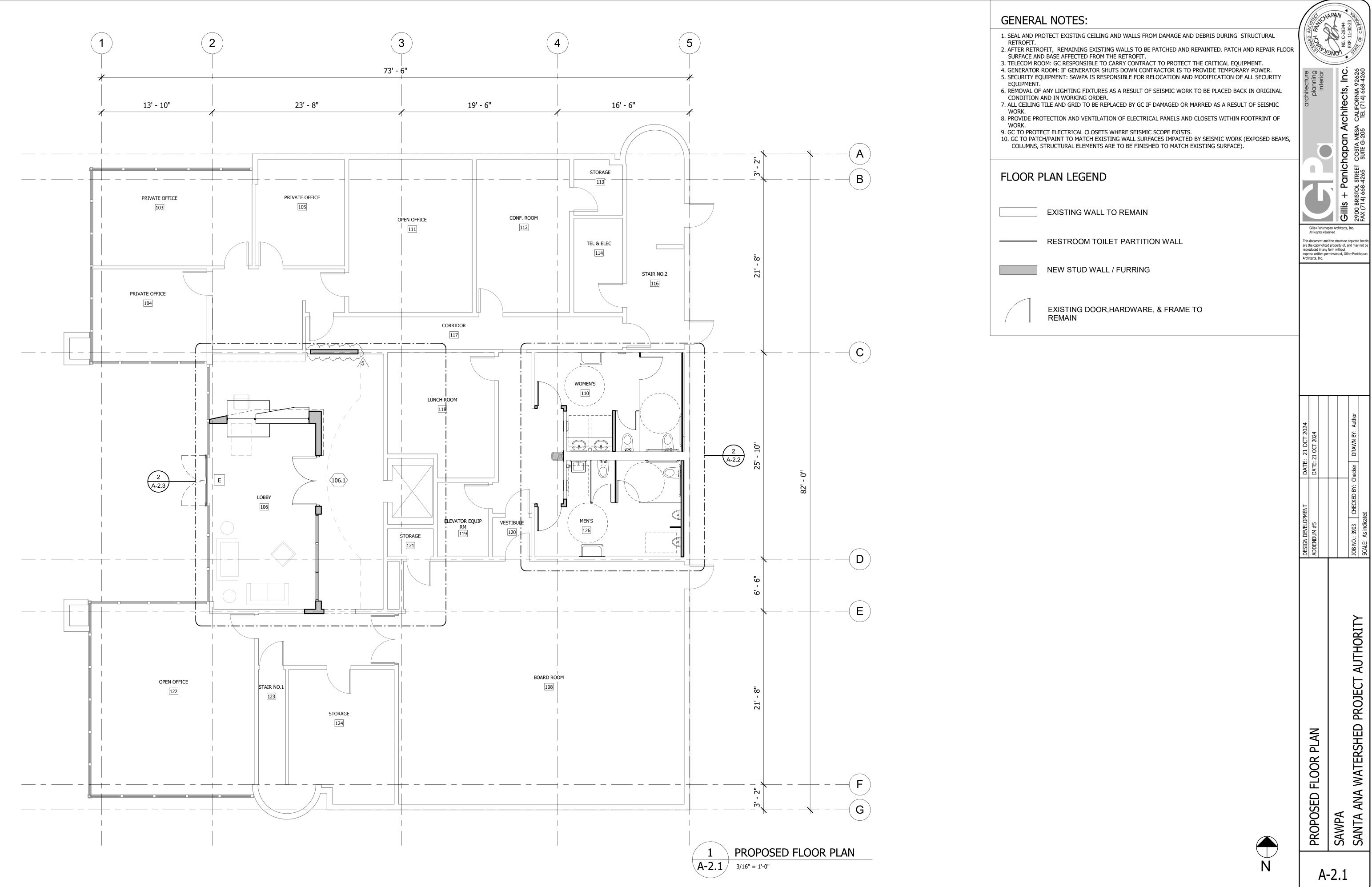
IT A MINIMUM VALUE OF ONE FOOT CANDLE MEASURED AT FLOOR LEVEL. OR THE HEARING AND VISUAL IMPAIRED PER A.D.A. REQUIREMENTS.



PROJECT DESCRIPTION		PANTACHITAC	APAN * Alle
 LOBBY REMODEL (SECURITY LOBBY) ACCESSIBLE UPGRADES (LOBBY, EXTERIOR PAVING RESURFACE, SIGNAGE, TOILET ROOM) MINOR MECHANICAL, PLUMBING AND ELECTRICAL 		FUNCH PAN	NO. C-29344
CODE ANALYSIS		hitecture planning interior	, Inc . 92626 8-4260
PROJECT ADDRESS: 11615 STERLING AVE, RIVERSIDE, CA 92503 CONSTRUCTION TYPE: VA - NON RATED (BASED ON UNIFORM BUILDING CODE 1988) OCCUPANCY: B		architecture planning interior	Panichapan Architects, Inc 1. STREET COSTA MESA CALIFORNIA 92626 8-4265 SUITE G-205 TEL (714) 668-4260
OCCUPANCY ANALYSIS : AREA OCCUPANT LOAD TOTAL OCCUPANT		T	hapan Al costa Mesa suite G-205
GROUND FLOOR 5,400 1/100 54 SECOND FLOOR 4,930 1/100 49 TOTAL 10,330 S.F. 103			Danicho L street C
TOTAL FLOOR AREA:10,330 SF.SPRINKLER BUILDING:SPRINKLEDNUMBER OF STORIES:2			Gillis + Panic 2900 BRISTOL STREET FAX (714) 668-4265
EXITING ANALYSIS : GROUND FLOOR SECOND FLOOR OCCUPANT LOAD 54 OCCUPANT LOAD 49 EXIT REQUIRED 2 EXIT REQUIRED 2 EXIT PROVIDED 3 EXIT PROVIDED 2 DEFERRED APPROVALS: FIRE SPRINKLERS / FIRE ALARM	-	All Rights Res This document and are the copyrighte reproduced in any	pan Architects, Inc. erved d the structure depicted herein d property of, and may not be
PROJECT ADDRESS			
11615 STERLING AVE, RIVERSIDE, CA 92503			
DESIGN/BUILD COORDINATION	ŀ		HINTAN
CONTRACTOR SHALL SUBMIT DESIGN/BUILD WORK FOR REVIEW. DESIGN/BUILD WORK MAY REQUIRE SEPARATE APPROVAL BY LOCAL GOVERNING JURISDICTION. CONTRACTOR SHALL PROMPTLY SUBMIT AND OBTAIN REQUIRED APPROVALS FOR THIS WORK.		21 OCT 2024 1 OCT 2024	DRAWN BY: AR. CHINTAN
• EXTERIOR ACCESSIBILITY IMPROVEMENTS TO BE UNDER SEPARATE PERMIT REFERENCE #GP-2024-07972 WITH CIVIL ENGINEERING DRAWINGS.		DATE: 21	CHECKED BY: AR. VIET
CONSTRUCTION COORDINATION/SCHEDULING		evelopment M #5	3903 CHI
1. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO AND FROM THE SITE WITH THE SAWPA REPRESENTATIVE.		DESIGN DEV ADDENDUM	JOB NO.: 39 SCALE: As i
DEFERRED SUBMITTALS			
 CONTRACTOR TO SUBMIT ANY ALTERATIONS AND/OR CHANGES TO: 1. DESIGN/BUILD FIRE ALARM 2. DESIGN/BUILD FIRE SPRINKLER MODIFICATIONS 3. PROVIDE AND INSTALL ALL NEW FIRE SPRINKLER HEADS 4. USE QUICK RESPONSE CONCEALED HEADS, AND PROVIDE BRACKET AND SEISMIC BRACING PER NFPA ALL MODIFICATIONS SHALL BE SUBMITTED CONCURRENTLY WITH OWNER AND DESIGN TEAM FOR REVIEW AND APPROVAL IN ADDITION TO FIRE MARSHAL REVIEW AND APPROVAL.			ED PROJECT AUTHORITY
ADDITIVE ALTERNATES		TITLE SHEET	SAWPA SANTA ANA WATERSHED
			Г-1







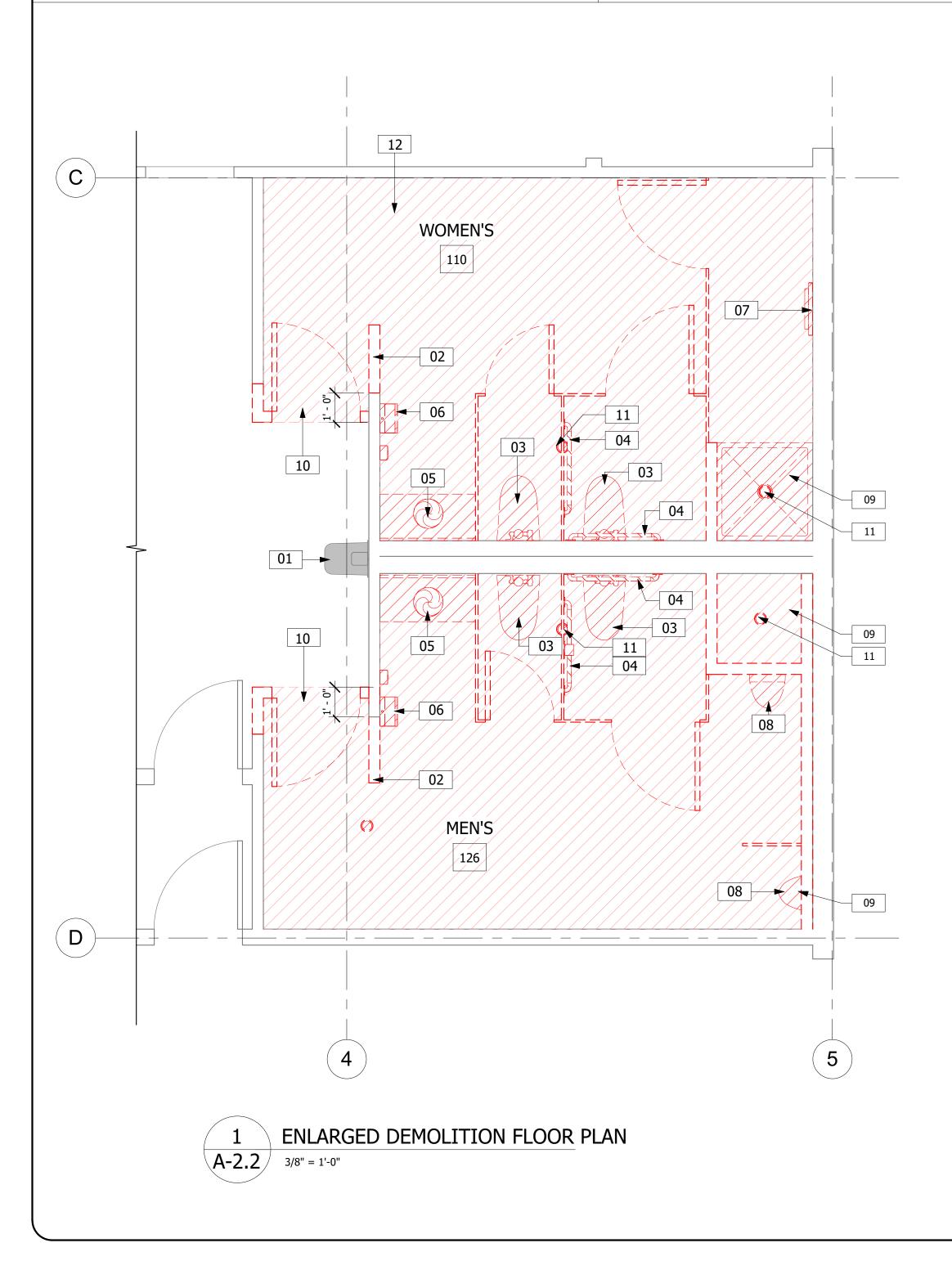
		DESIGN DEVELOPMENT	DATE:	DATE: 21 OCT 2024	
	PROPOSED FLOOR PLAN	ADDENDUM #5	DATE: 21	DATE: 21 OCT 2024	
A۰					
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.1	SAWPA				
		JOB NO.: 3903 CHECKED BY: Checker DRAWN BY: Author	Y: Checker	DRAWN BY: Author	
		SCALE: As indicated			

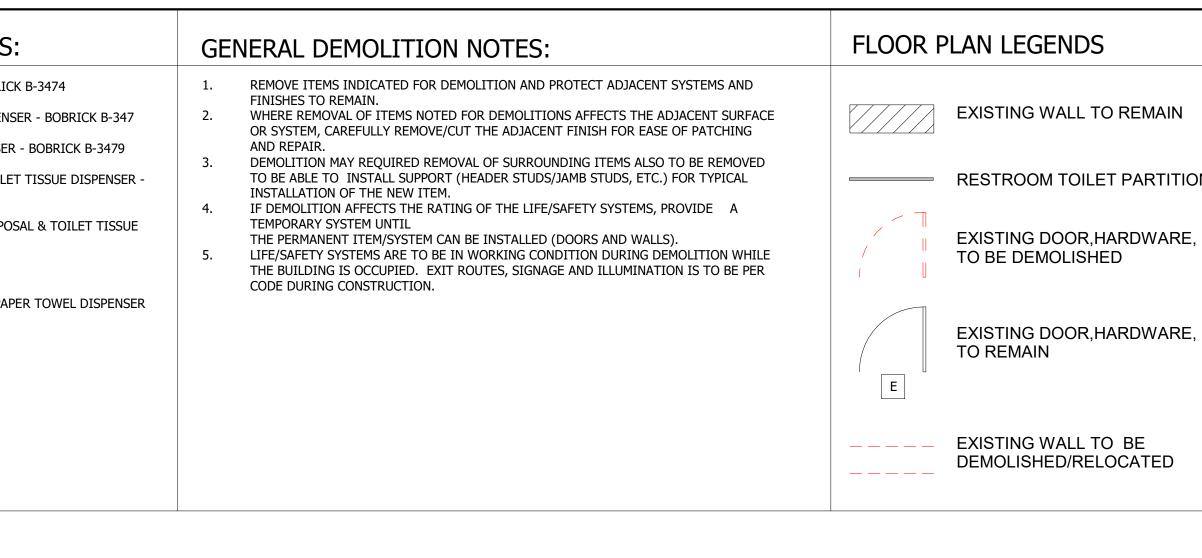
GENERAL NOTES:

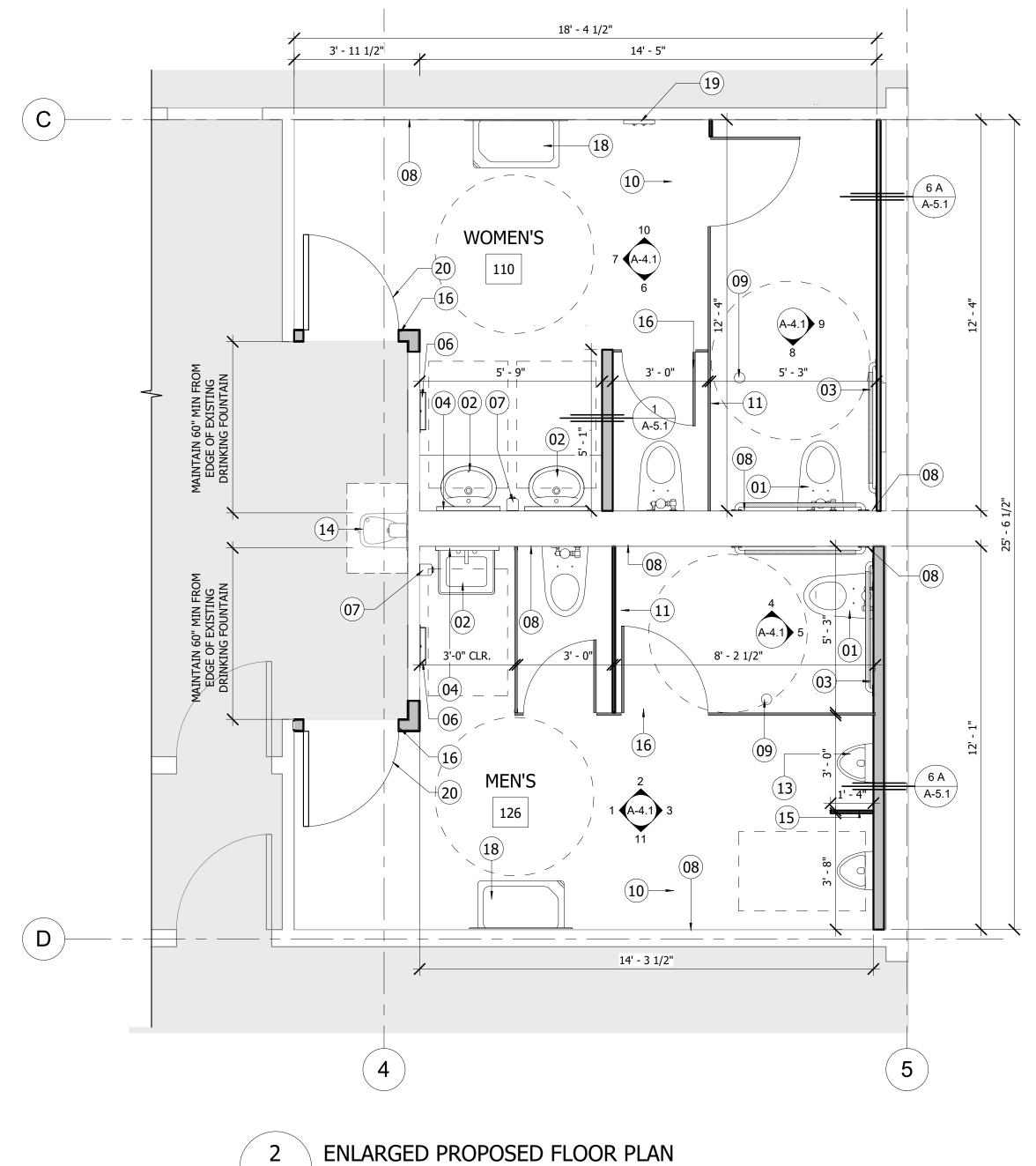
- 1. SEAL AND PROTECT EXISTING CEILING AND WALLS FROM DAMAGE AND DEBRIS DURING WORK.
- 2. AFTER RETROFIT, REMAINING EXISTING WALLS TO BE PATCHED AND REPAINTED. PATCH AND REPAIR FLOOR SURFACE AND BASE AFFECTED FROM WORK.
- ALL CEILING TILE AND GRID TO BE REPLACED BY GC IF DAMAGED OR MARRED AS A RESULT OF WORK.
 PROVIDE PROTECTION AND VENTILATION OF ELECTRICAL PANELS AND CLOSETS WITHIN FOOTPRINT OF WORK.
- 5. GC TO PROTECT ELECTRICAL CLOSETS WHERE WORK EXISTS.
- 6. GC TO PATCH/PAINT TO MATCH EXISTING WALL SURFACES IMPACTED BY WORK (EXPOSED BEAMS, COLUMNS, STRUCTURAL ELEMENTS ARE TO BE FINISHED TO MATCH EXISTING SURFACE).

TOILET AND WASHROOM ACCESSORIES:

- 01 RECESSED TOILET SEAT COVER & TOILET TISSUE DISPENSER -BOBRICK B-3474
- 02 PARTITION MOUNTED TOILET SEAT COVER & TOILET TISSUE DISPENSER BOBRICK B-347
- 03 SURFACE MOUNTED TOILET SEAT COVER & TOILET TISSUE DISPENSER BOBRICK B-3479
- 04RECESSED TOILET SEAT COVER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER -
BOBRICK B-3574
- 05PARTITION MOUNTED TOILET SEAT COVER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE
DISPENSER BOBRICK B-357
- 06 MIRROR BOBRICK B-290
- 07 PAPER TOWEL/WASTE RECEPTACLE BOBRICK B-3944 W/ B-29744 PAPER TOWEL DISPENSER
- 08 GRAB BAR BOBRICK B-6806

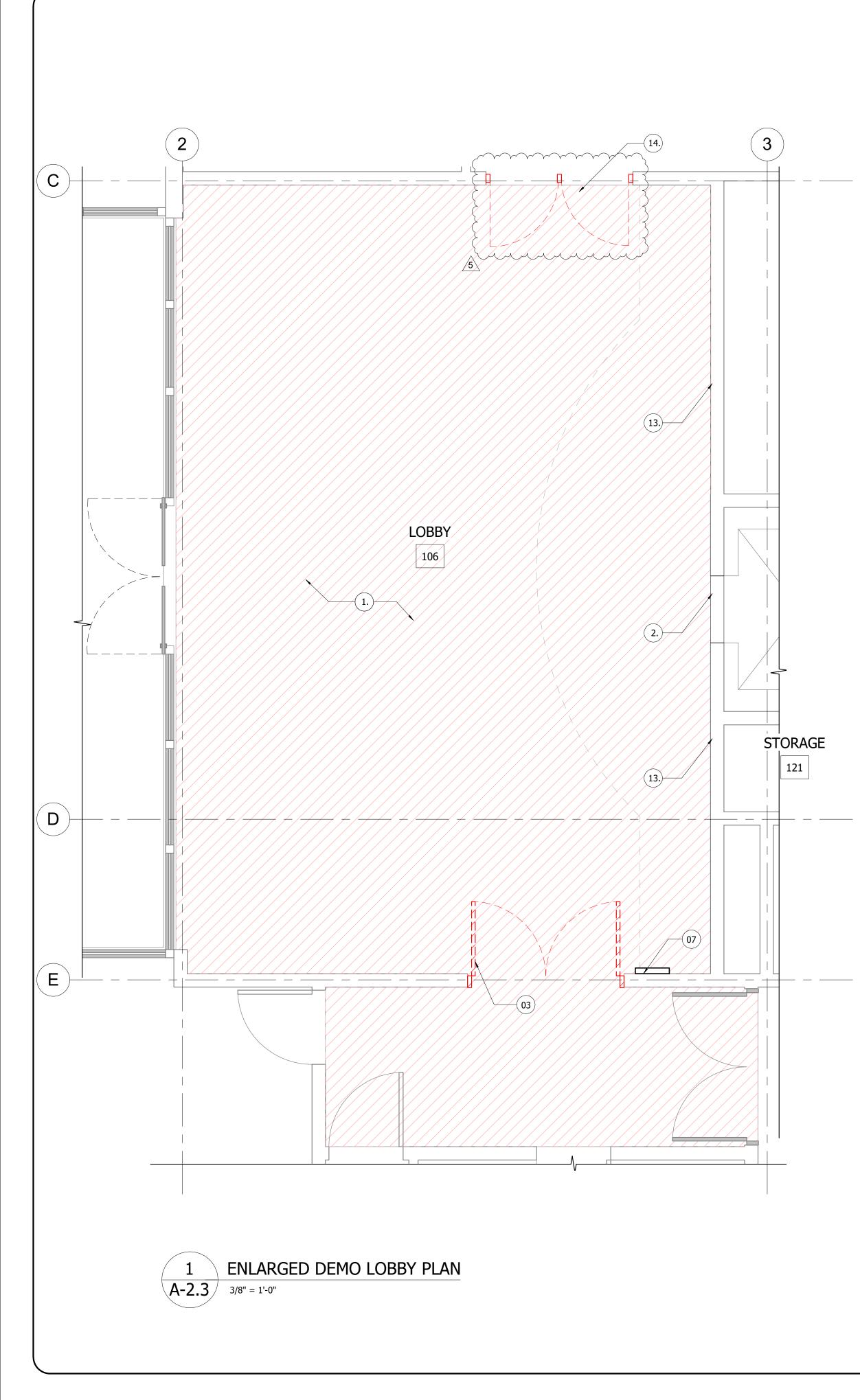


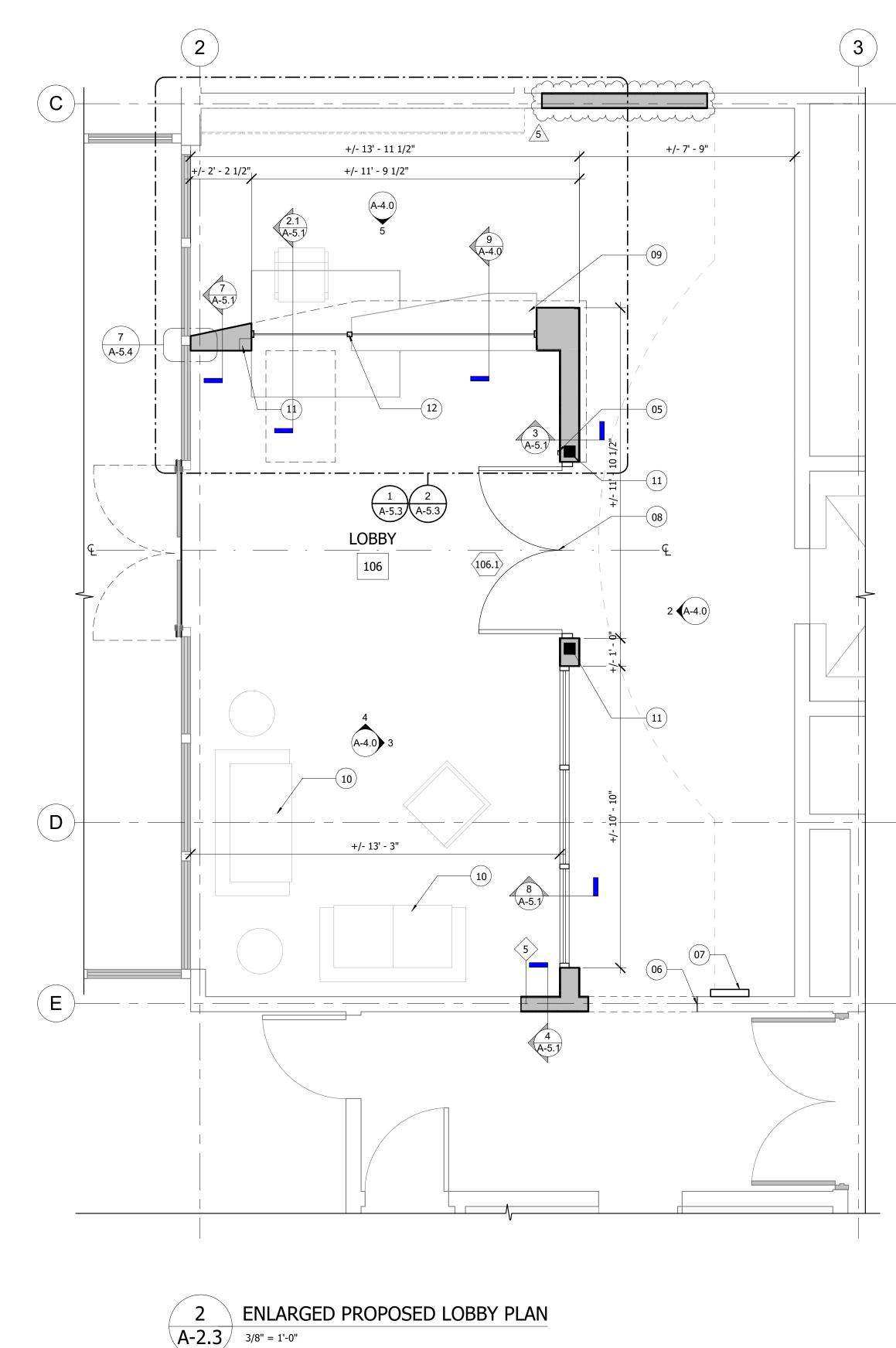


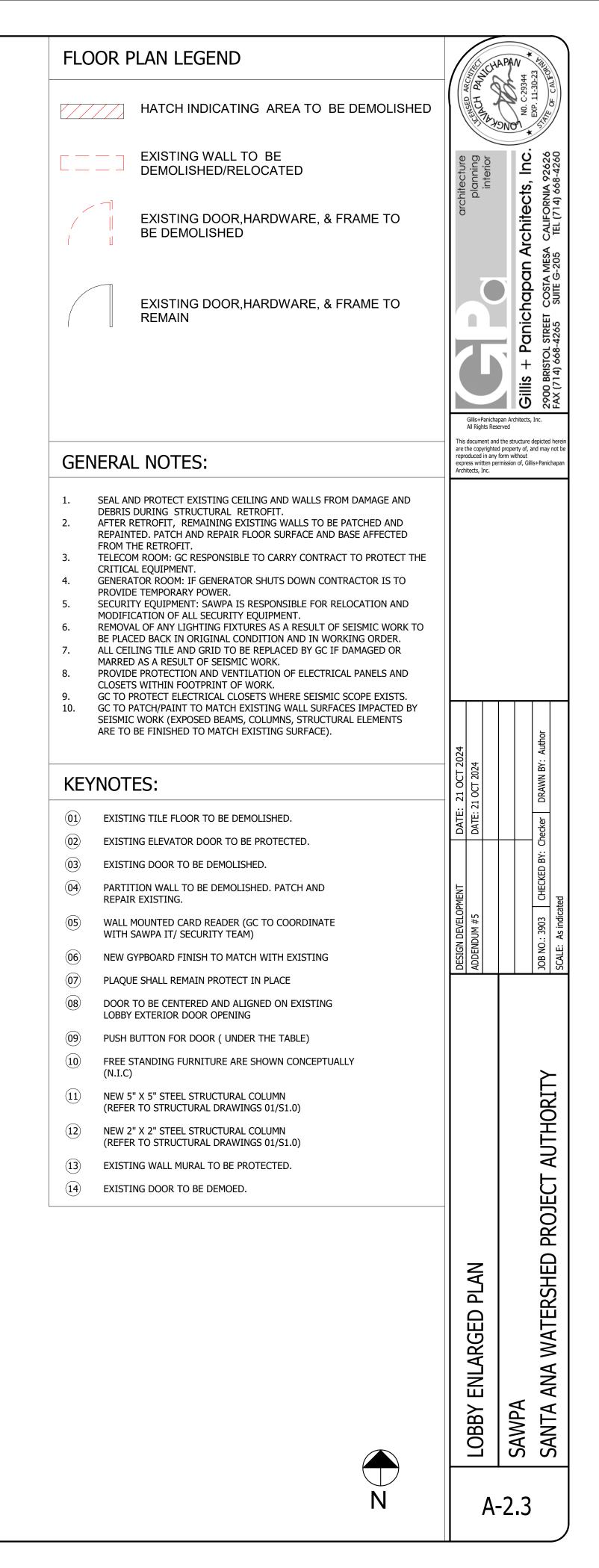


A-2.2 3/8" = 1'-0"

	DEMO KEYNOTES:	H PANITA	APAN * AILER
	LEGEND : XX	ED ARC	NO. C-29344 AVE
	01 EXISTING DRINKING FOUNTAIN TO STAY IN SAME PLACE AND TO BE ADJUSTED BY HEIGHT BY 1/2" TO PROVIDE ACCESSIBILITY COMPLIANCE .	LEUGED A	SNO S
	02 DEMO THE WALL.		
N WALL	03 DEMO THE TOILET.	architecture planning interior	Chitects, Inc CALFORNIA 92626 TEL (714) 668-4260
	04 DEMO THE GRAB BAR.	chite pla ir	CTS CTS 4) 66
& FRAME	05 DEMO THE VANITY AND LAVATORY.	ar	hite ALIFO
	06 DEMO THE DRYER.		TCI V⊂I
	07 DEMO THE DIAPER CHANGING TABLE.		hapan Ar costa Mesa suite G-205
FRAME	08 DEMO URINAL.	C	
	09 REMOVE AND REPLACE EXISTING CONCRETE SLAB ON GRADE FOR NEW WASTE LINES (TYPICAL).		
	10 DEMO AND RELOCATE THE RESTROOM DOORS TO MAINTAIN A MINIMUM 44" OF CLEARANCE IN FRONT OF THE EXISTING DRINKING FOUNTAIN		Gillis + Panic 2900 BRISTOL STREET FAX (714) 668-4265
	11 EXISTING FLOOR DRAIN		Gillis 2900 BR
	12 PATCH AND REPAIR ENTIRE GYP. BD CEILING, MODIFY OR PROVIDE NEW CLG SUPPORT FRAMING AS REQUIRED NEW RECESSED LIGHT FIXTURES.	All Rights Res This document and are the copyrighte	apan Architects, Inc. served d the structure depicted here d property of, and may not l
	PROPOSED RESTROOM KEYNOTES:	reproduced in any express written pe Architects, Inc.	rorm without
	LEGEND	1	
	01 NEW FLOOR MOUNT WATER CLOSET, SEE PLUMBING		
	02 NEW SINK, SEE PLUMBING		
	03 NEW GRAB BAR		
	04 NEW MIRROR		
	05 NEW TOILET PAPER/SEAT COVER DISPENSER		
	06 NEW PAPER TOWEL DISPENSER/WASTE RECEPTACLE		
	07 NEW SOAP DISPENSER		
	08 NEW TILE WAINSCOT (SOME WALLS FULL HIGHT REFER TO ELEVATION)		
	09 NEW FLOOR DRAIN, SEE PLUMBING		CHINTAN
	10 NEW FLOOR FINISH	21 OCT 2024 1 OCT 2024	BY:
	(11) TOILET PARTITIONS	: 21 OCT 2 21 OCT 2024	DRAWN
	(12) METAL COVED BASE.		
	(13) NEW URINAL, SEE PLUMBING.	DATE: DATE: 2	KIC I
	(14) EXISTING DRINKING FOUNTAIN TO STAY IN SAME PLACE AND TO BE		BY: V
	ADJUSTED BY HEIGHT BY 1/2" TO PROVIDE ACCESSIBILITY COMPLIANCE .		CHECKED
	(15) URINAL SCREEN	DPMENT	CHE
	(16) NEW GYPBOARD FINISH TO MATCH WITH EXISTING.		
	17 UNDER COUNTER PANEL (ADA)	Design Develo Addendum #5	
	18 DIAPER CHANGING TABLE	DESI	JOB NC
	(19) SANITARY NAPKIN DISPENSOR VENDOR		
	20 RESTROOM RELOCATED DOOR.		
			→
			WATERSHED PROJECT AUTHORITY
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		RESTROOM PLANS	単
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NOTES

- A. MAXIMUM EFFORT TO OPERATE DOORS APPLIED AT RIGHT ANGLES TO HINGED DOORS OR AT CENTER PLANE, PER T-24 SECTION 1004.5.1 WILL BE:
- a) \leq 5 LB. AT EXTERIOR DOORS (PER CBC SECTION 1133B.2.5) b) \leq 5 LB. AT INTERIOR DOORS
- c) \leq 15 LB. WHERE FIRE DOORS ARE REQUIRED.
- C. ALL DOOR HARDWARE SHALL BE LEVER TYPE, PUSH-PULL ACTIVATING BARS OR PANIC HARDWARE (PER CBC 1133B.2.5.2)

B. ALL DOORS SHALL COMPLY WITH CBC TITLE 24, SECTION 1008

- D. BOTTOM OF DOOR TO BE SMOOTH AND UNINTERRUPTED, TO ALLOW DOOR TO BE OPENED BY WHEELCHAIR FOOTREST, PER CBC SECTION 1133B.2.6
- E. PROVIDE SIGN AT MAIN EXIT DOORS INDICATING: "THIS DOOR MUST REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" PER CBC 1008.1.9.3. ALL OTHER DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- G. ALL HOLLOW METAL DOORS STILES AND TOP RAILS SHALL BE 5 MINIMUM. (U.N.O.)
- H. ALL ALUMINUM DOORS STILES AND TOP RAILS SHALL BE 5" U.N.O. ALL GLASS TYPES AND THICKNESS SHALL COMPLY WITH CBC TABLE 2403.2.1

I. SEE SPECIFICATIONS AND DOOR SCHEDULE FOR DOOR HARDWARE.

DOOR SIGNAGE LEGEND: (SEE 13/A-5-401)

D1-TOILET ROOM SIGNAGE "MEN" D2-TOILET ROOM SIGNAGE "WOMEN"

D3-TOILET ROOM SIGNAGE "UNISEX"

WALL SIGNAGE LEGEND: (SEE 13/A-5-401, AND 02/A-6-106)

- W1-VERIFY ROOM NAME WITH OWNER W2 TOILET ROOM SIGNAGE "MEN"
- W3 TOILET ROOM SIGNAGE "WOMEN"
- W4-TOILET ROOM SIGNAGE "UNISEX" W5-ACCESSIBLE ENTRANCE SIGN

ALL EXTERIOR DOORS SHALL COMPLY WITH CBC SECTION 708A, AND SECTION 708A.3, ITEM 1 OR ITEM 41

DOOR ABBREVIONS :

- AL ALUMIN
- ANODIZ AN FF
- FACTORY FINISH HM HOLLOW
- MT METAL PLASTIC LAMINATE
- PL PT PAINT
- PAIR PR
- SC SOLID C TG TEMPERED GLAZING
- WD WOOD

HARDWARE TYPES:

ALL FUNCTIONS TO BE VERIFIED BY OWNER PRIOR TO DESIGN. ALL DOORS TO HAVE FREE EXIT LEVER OR PANIC DEVICE

HT-A: ENTRY DOOR WITH PANIC DEVICE (ELECTRONIC/CARD READER)

HT-B: EXTERIOR DOOR, STORAGE LOCK (KEYED)

HT-C: OFFICE DOOR: LOCK (KEYED)

HT-D: TOILET (PRIVATE): PRIVACY LOCK WITH INDICATOR

HT-E: TOILET (PUBLIC): PUSH/PULL DEVICE

HT-F: STORAGE: LOCK (KEYED)

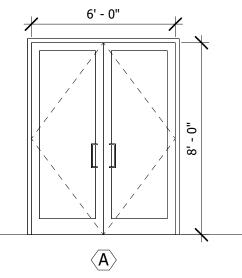
HT-G: EXTERIOR/EXIT: KEYED LOCK DOGGED DOWN PANIC DEVICE.

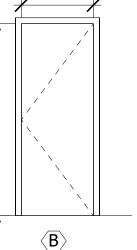
HT-H: INTERIOR PASSAGE WITH LATCH

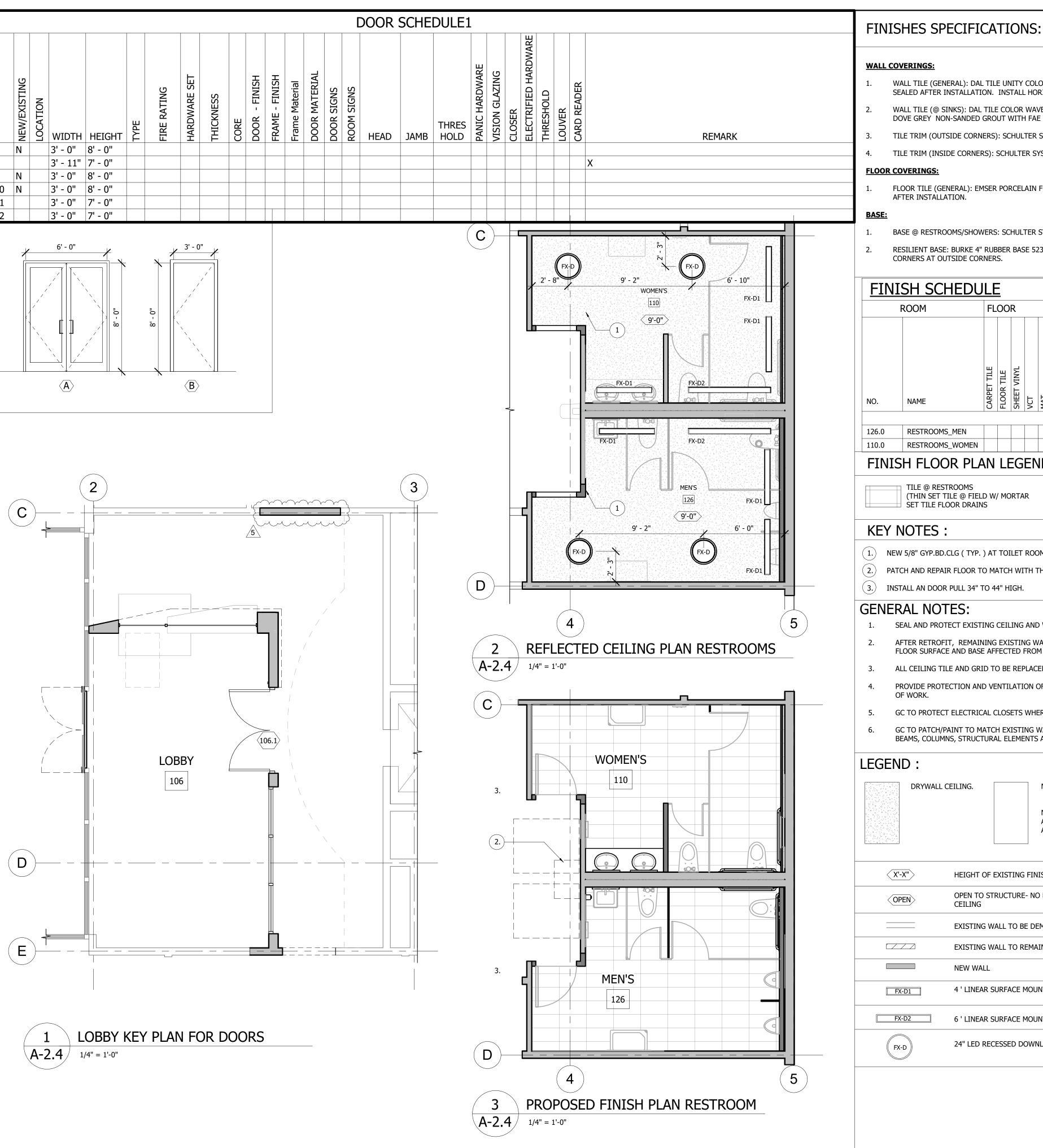
HT-I: INTERIOR/EXIT: KEYED LOCK WITH DOGGED DOWN PANIC DEVICE.

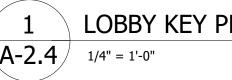
- EXIT DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.(CBC 1008.1.8)
- THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION. (CBC 11B-404.2.4.4)
- MAXIMUM DOOR EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. (CBC 11B-404.2.9)
- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11A OR CHAPTER 11B SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. (CBC 1010.1.8.1)
- HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR. (CBC 11B-404.2.7 AND 11B-309.4) THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING
- SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (CBC 11B-404.2.10)

DOOR TAG	NEW/EXISTING	LOCATION	WIDTH	HEIGHT	ТҮРЕ	FIRE RATING	HARDWARE SET	THICKNESS	CORE	DOOR - FINISH	FRAME - FINISH	Frame Material	DOOR MATERIAL	DOOR SIGNS	
106.1	Ν		3' - 0"	8' - 0"											
106.7			3' - 11"	7' - 0"											
106.9	Ν		3' - 0"	8' - 0"											
106.10	Ν		3' - 0"	8' - 0"											
106.11			3' - 0"	7' - 0"											
106.12			3' - 0"	7' - 0"											







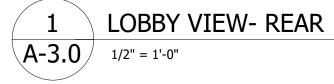


DNS:	S SHOHAPA	⁴⁴ 1-23 ∧	IN NOW
	PATHOCH P	NO. C-293 EXP. 11-30	TATE OF CA
TY COLOR BODY, AVORIO P400 POLISHED, 12" X 24" SIZE W/ 1/8" MAX. CBP #10 ANTIQUE WHITE GROUT, ALL HORIZONTALLY.			?/
DR WAVE CLASSIC SOLIDS GLASS MOSAIC WALL TILE, OAK MOSS CW16, 1" X 1" SIZE W/ 1/8" MAX. CBP #370 TH FAE GRT RELEASE, SEALED AFTER INSTALLATION.	nitecture olanning interior	s, Inc	A 92626
ULTER SYSTEMS METAL TRIM PROFILE QUADEC-AE, SATIN ALUMINUM, PROVIDE MATCHING TRIM PIECES.	archi	ect	
TER SYSTEMS METAL COVE PROFILE DILEX-AHK-AE, SATIN ALUMINUM, PROVIDE MATCHING TRIM PIECES.		Architects	
ELAIN FLOOR TILE, MOTION, COLOR: DRIFT, 12" X 24" SIZE W/ 1/8" MAX. ANTIQUE WHITE GROUT, SEALED	O	chapan	T COSTA MESA
ULTER SYSTEMS METAL COVE PROFILE DILEX-AHK-AE, SATIN ALUMINUM, PROVIDE MATCHING TRIM PIECES.		anic	STREET
ASE 523 BLACK-BROWN. PROVIDE STRAIGHT AT CARPET, COVE AT RESILIENT. PROVIDE PRE-MOLDED	1	is + P(BRISTOL

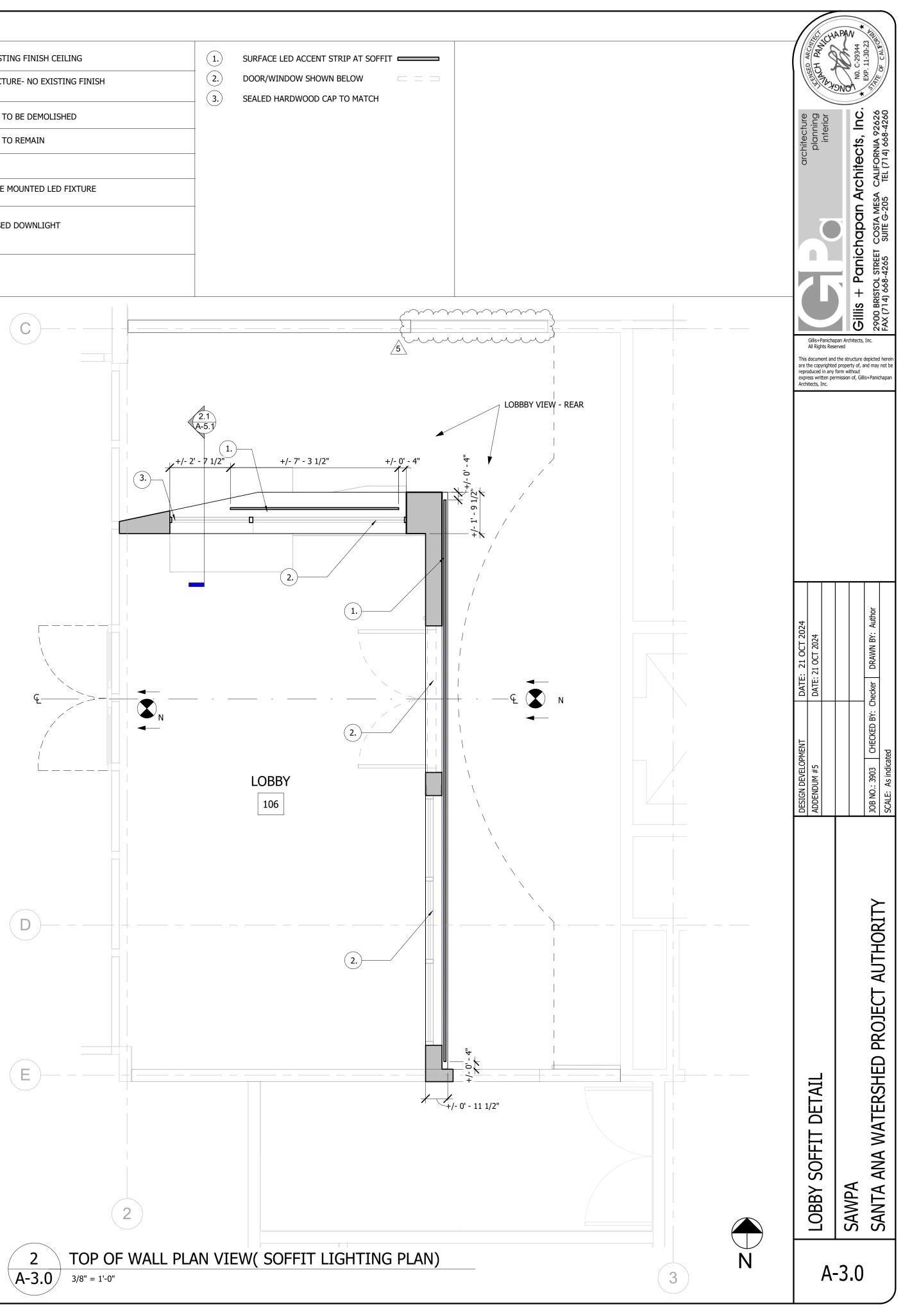
								Gill	FAX (
BASE	WCT	WALL	CE	ILING	LEGEND	This	All Rights Rese	pan Architects, Inc. erved the structure depicte	ed herein
VCT NCT SEALED CONCRETE RESILIENT WALL BASE METAL COVE	FRP CERAMIC WALL TILE	GYP. BOARD TILE	ACCOUSTICAL TILE	GYPSUM BOARD OPEN/PAINTED	GENERAL NOTE: 1. ALL WALL AND CEILING SURFACES TO BE PAINTED EXCEPT WHEN NOTED. (REFER TO SPECIFICATIONS FOR EXCEPTIONS) 2. INDICATES APPLICABLE FINISH, SEE REMARKS FOR ADDITIONAL COMMENTS	are f repr expr	he copyrighted oduced in any f	I property of, and ma	y not be
T ROOM /ITH THE EXISTING FLOOR H. G AND WALLS FROM DAMAGE A	ND DEBRIS DU	RING WORK.				DATE: 21 OCT 2024	DATE: 21 OCT 2024	BY: Checker DRAWN BY: Author	-
ING WALLS TO BE PATCHED AND FROM WORK. EPLACED BY GC IF DAMAGED OF TION OF ELECTRICAL PANELS AN S WHERE WORK EXISTS.	R MARRED AS A	RESULT OF WO	ORK.			DESIGN DEVELOPMENT	ADDENDUM #5	JOB NO.: 3903 CHECKED B'	SCALE: As indicated
ING WALL SURFACES IMPACTED IENTS ARE TO BE FINISHED TO NO CEILING INDICATION NO ANTICIPATED ARCHITECTURAL REPAIR AREA G FINISH CEILING RE- NO EXISTING FINISH BE DEMOLISHED REMAIN E MOUNTED LED FIXTURE MOUNTED LED FIXTURE DOWNLIGHT	MATCH EXISTI						RCP & FINISH FLOOR PLAN & DOOR SCHEDULE		
					IN		A-	2.4	

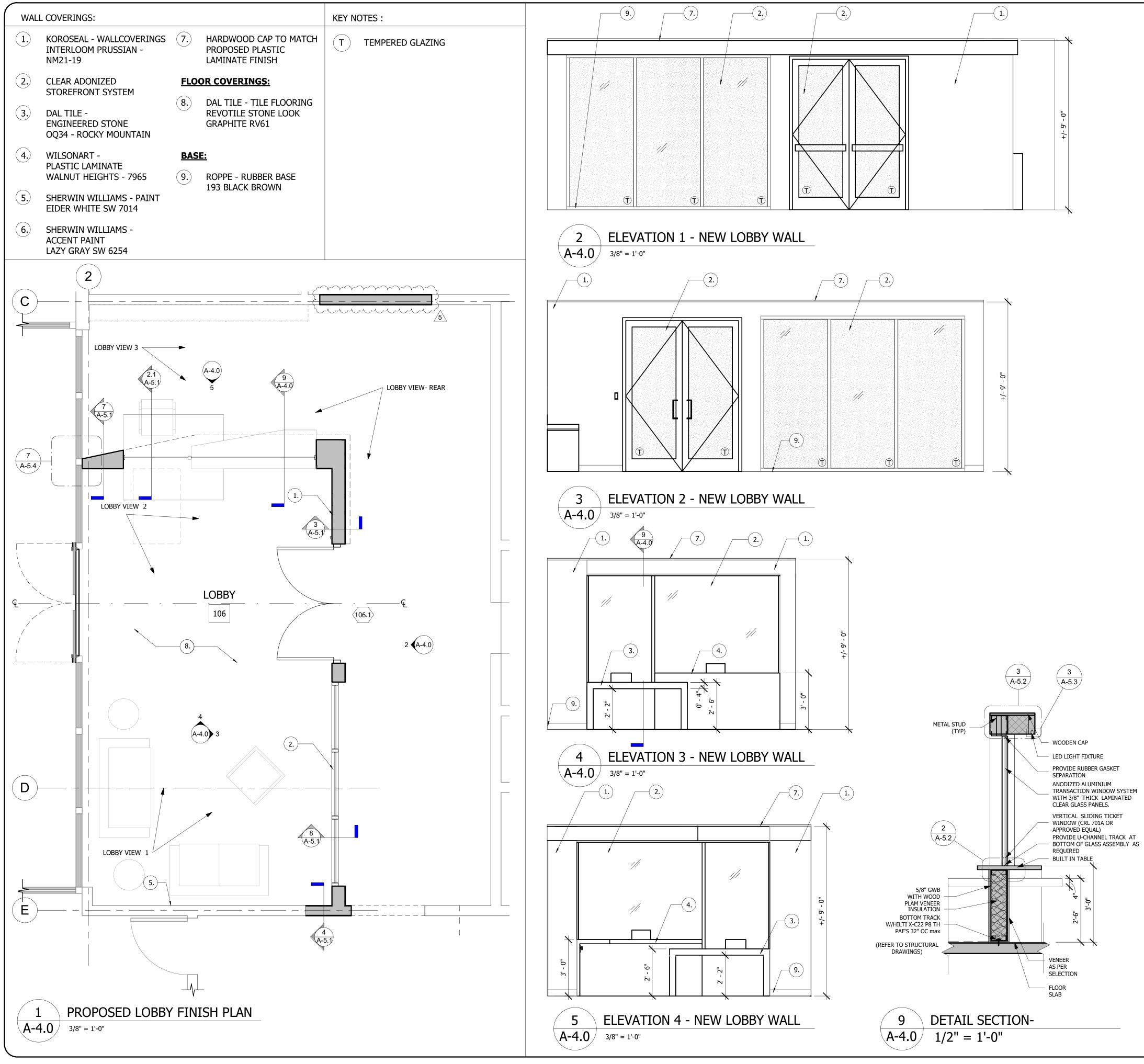
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1. 2. 3.	SEAL AND PROTECT EXISTING CEILING AND WALLS FROM DAMAGE AND DEBRIS DURING WORK. AFTER RETROFIT, REMAINING EXISTING WALLS TO BE PATCHED AND REPAINTED. PATCH AND REPAIR FLOOR SURFACE AND BASE AFFECTED FROM WORK. ALL CEILING TILE AND GRID TO BE REPLACED BY GC IF DAMAGED OR MARRED AS A RESULT OF WORK.	DRYWALL CEILING.	NO CEIL NO ANT ARCHITE AREA
4.	PROVIDE PROTECTION AND VENTILATION OF ELECTRICAL PANELS AND CLOSETS WITHIN FOOTPRINT OF WORK.		
5.	GC TO PROTECT ELECTRICAL CLOSETS WHERE WORK EXISTS.		
6.	GC TO PATCH/PAINT TO MATCH EXISTING WALL SURFACES IMPACTED BY WORK (EXPOSED BEAMS, COLUMNS, STRUCTURAL ELEMENTS ARE TO BE FINISHED TO MATCH EXISTING SURFACE).		





EILING INDICATION:	X'-X "	HEIGHT OF EXISTING FINISH CEILING	1.	SURFACE LED ACCENT STRIP AT SO
NTICIPATED HITECTURAL REPAIR IN THIS	OPEN	OPEN TO STRUCTURE- NO EXISTING FINISH CEILING	2.	DOOR/WINDOW SHOWN BELOW SEALED HARDWOOD CAP TO MATCH
A Contract of the second se		EXISTING WALL TO BE DEMOLISHED		
		EXISTING WALL TO REMAIN	-	
		NEW WALL	_	
		LINEAR SURFACE MOUNTED LED FIXTURE	_	
		24" LED RECESSED DOWNLIGHT		

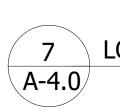




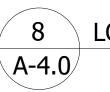








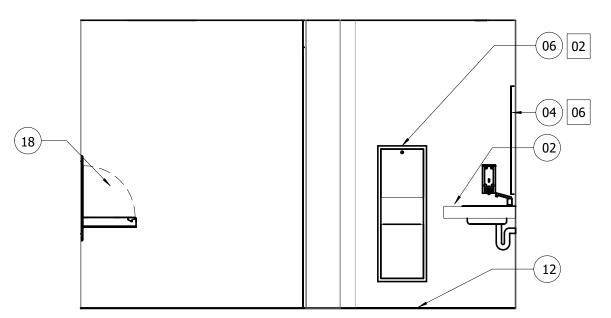


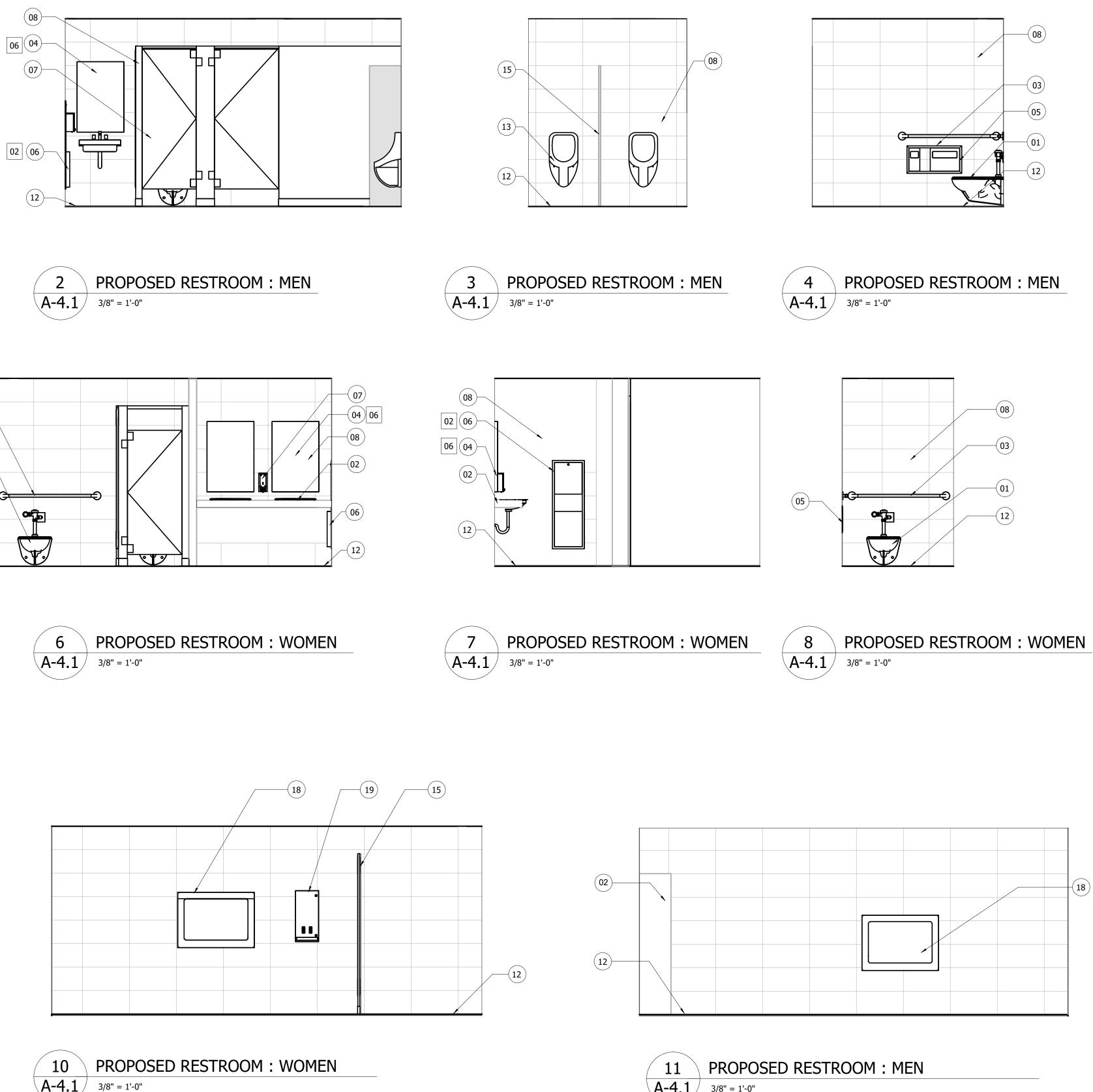


LOBBY VIEW-2

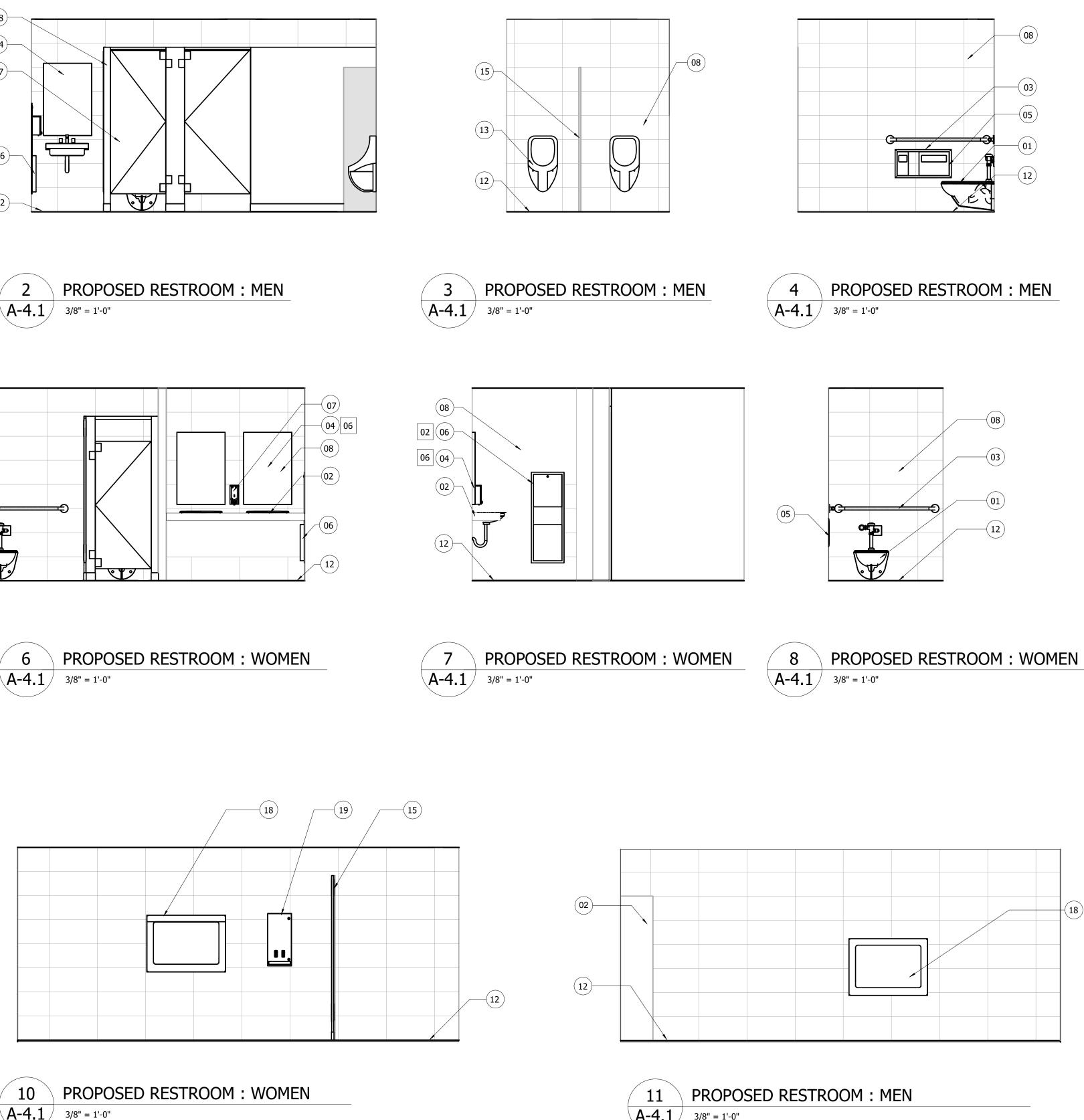
LOBBY VIEW -1

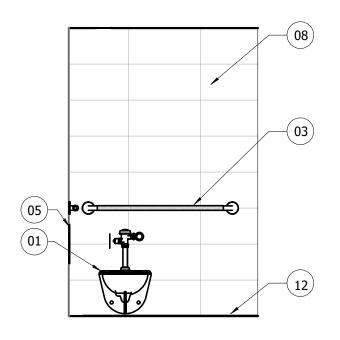
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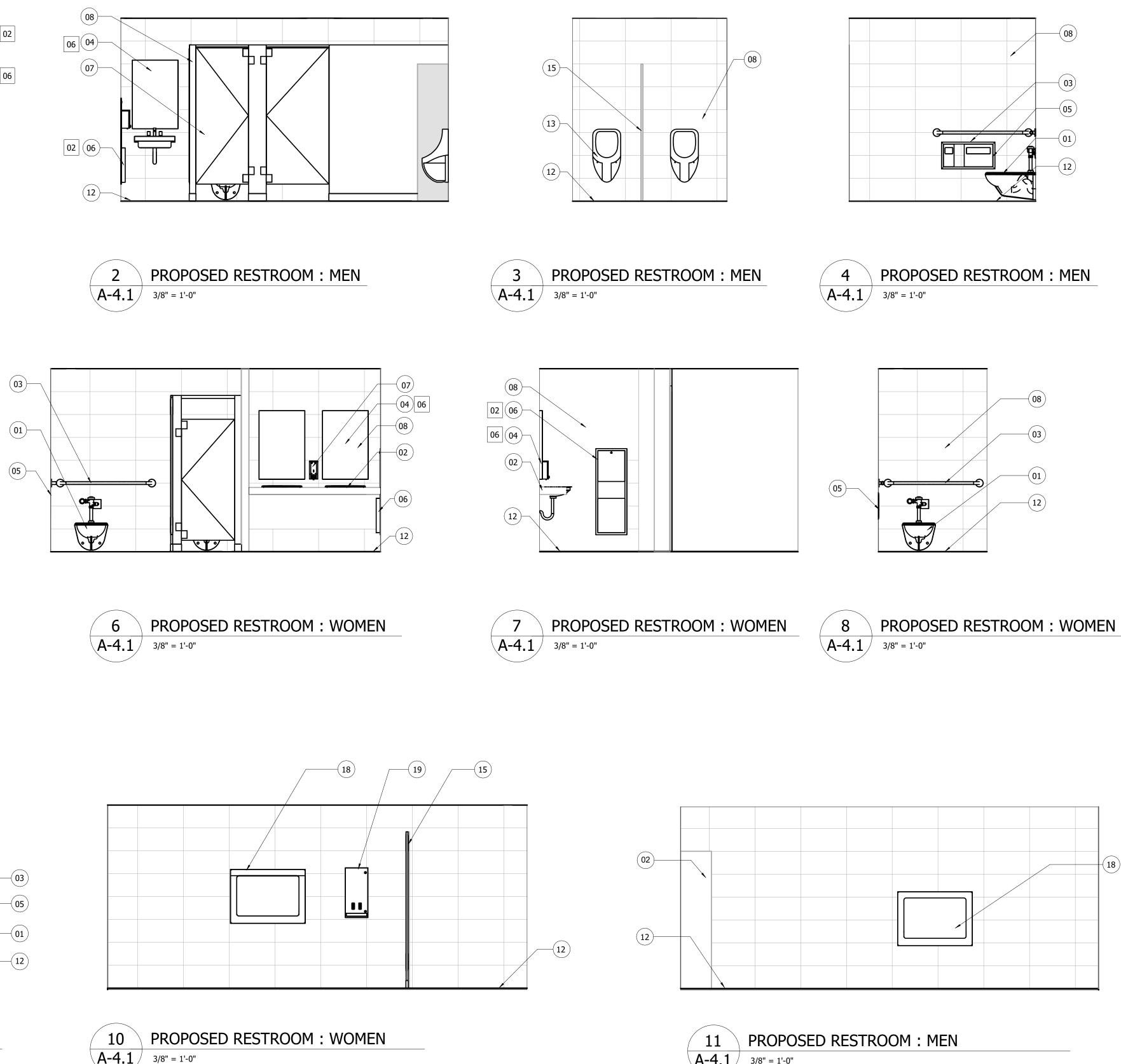




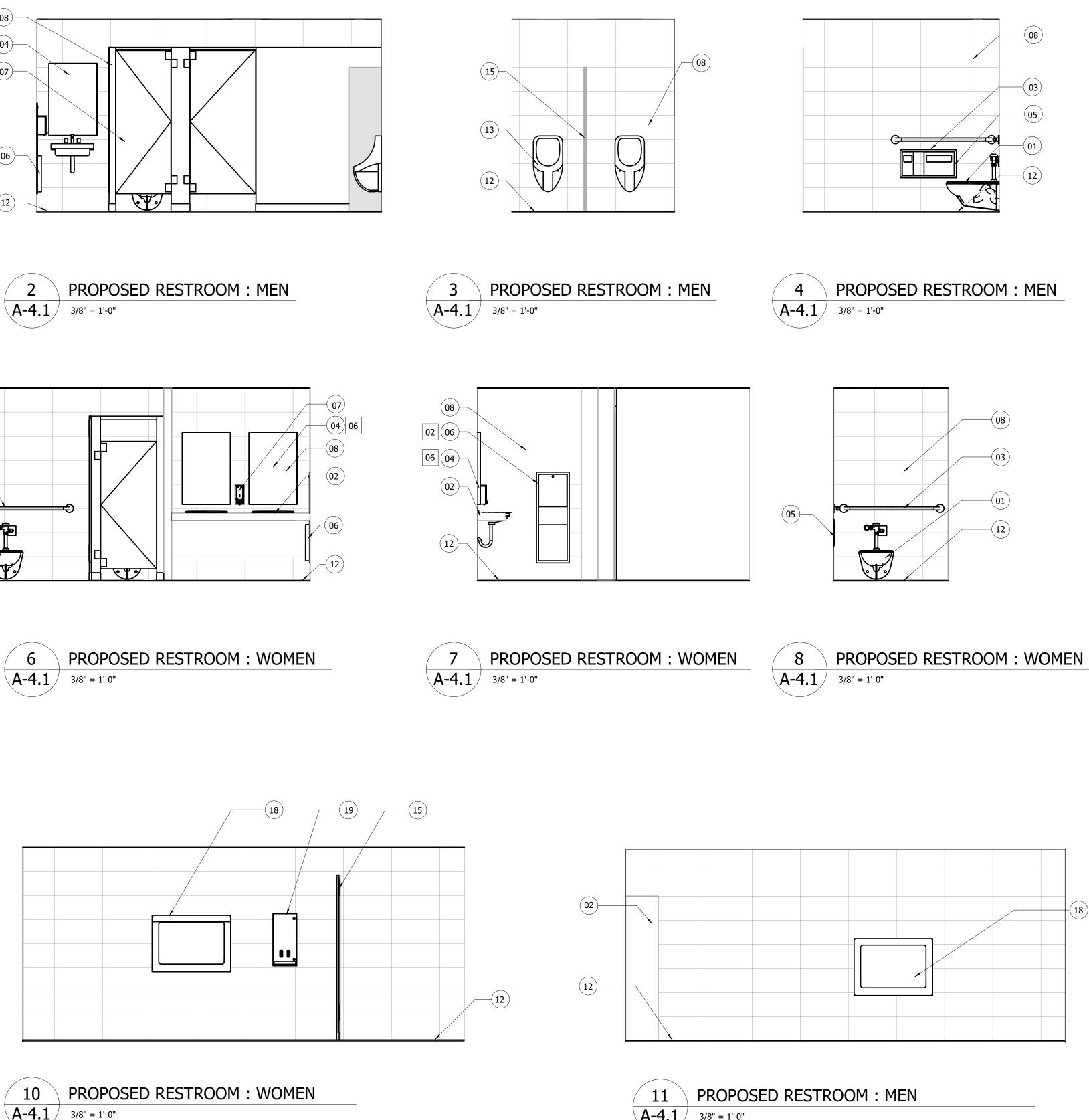


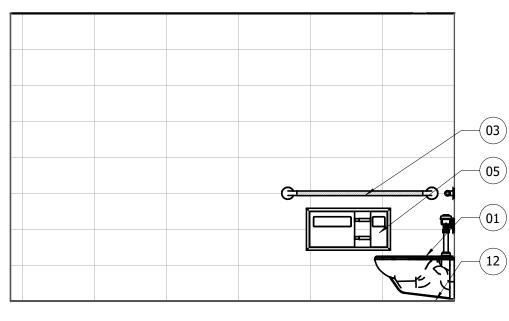


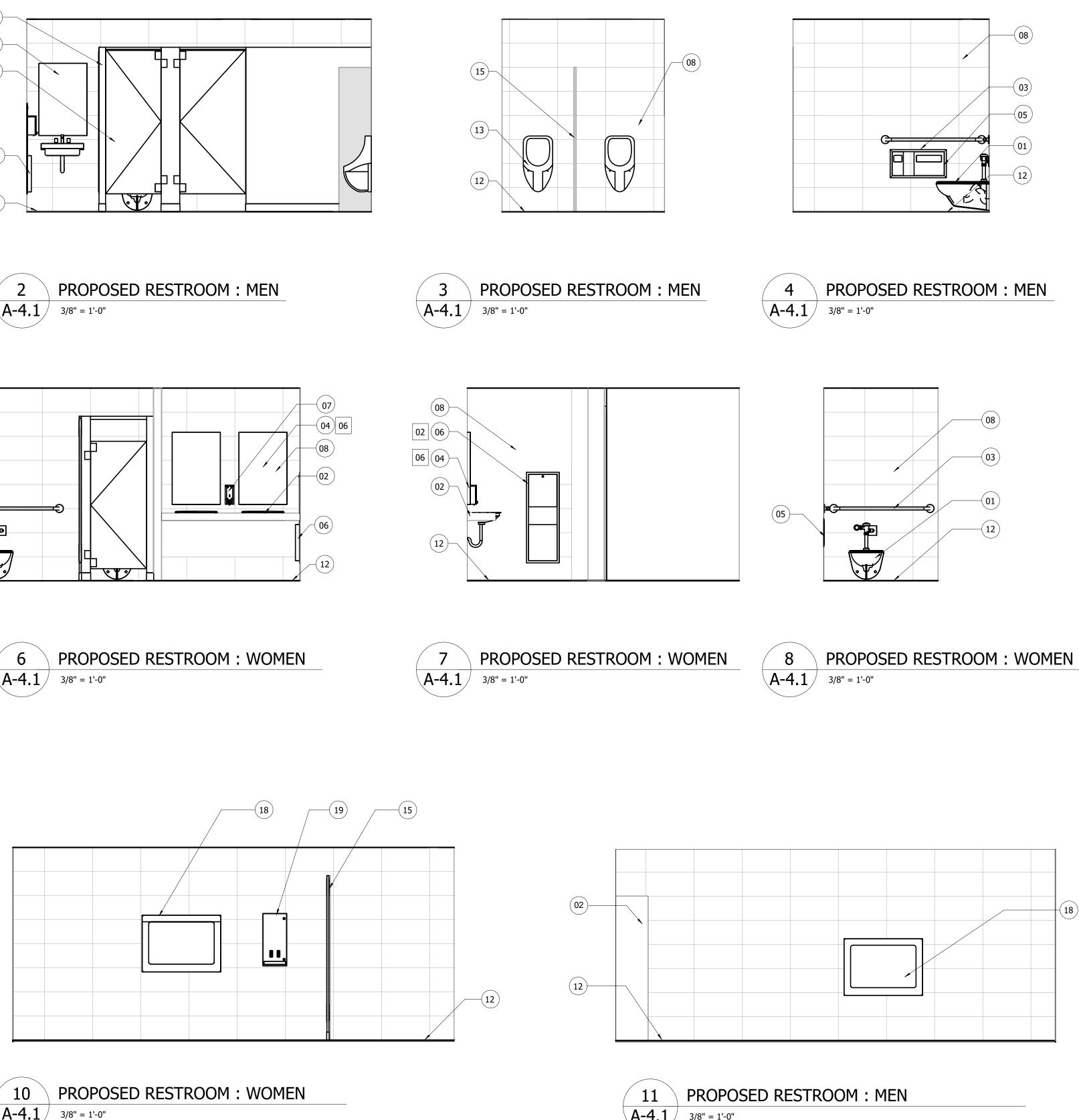




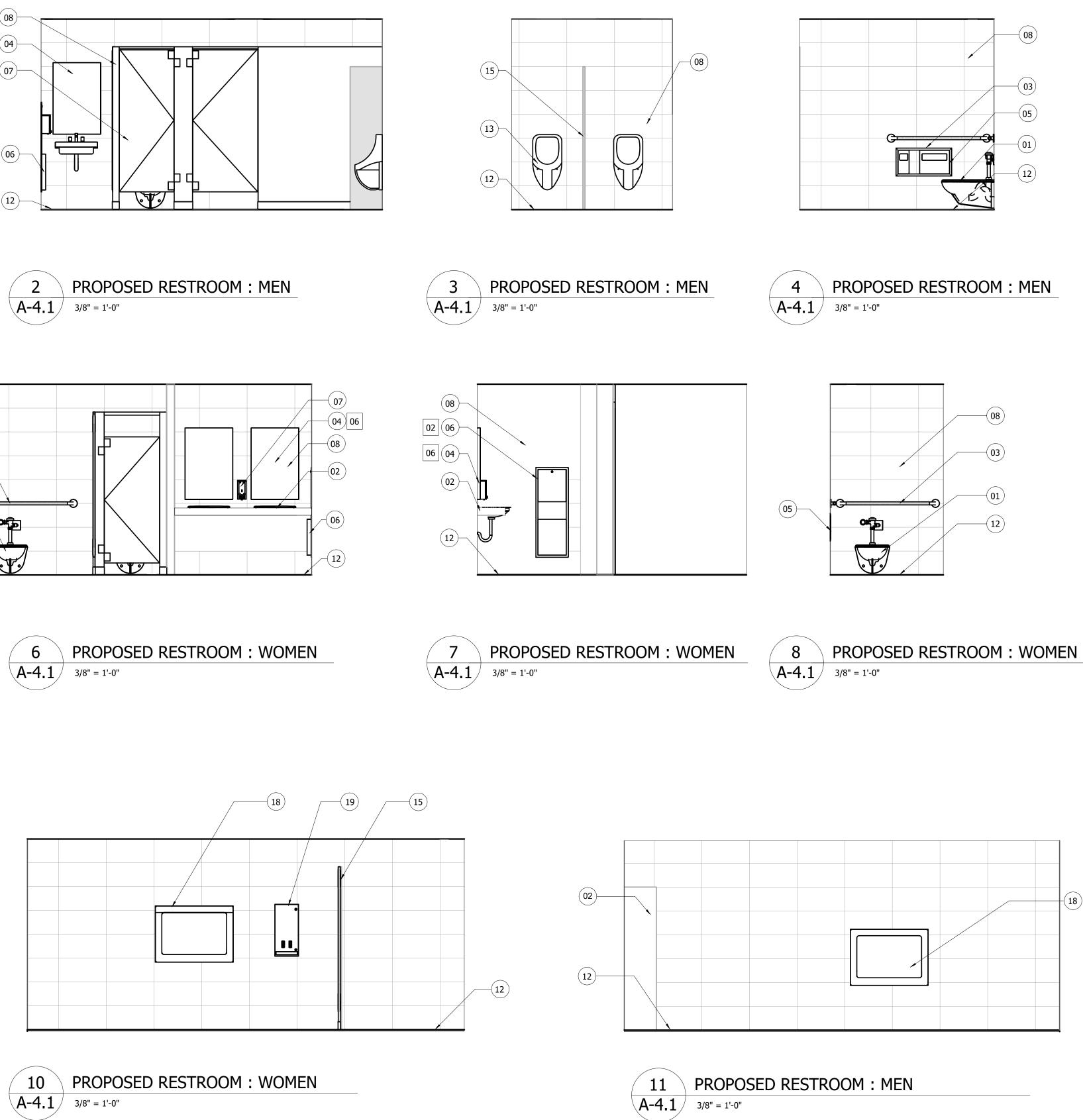










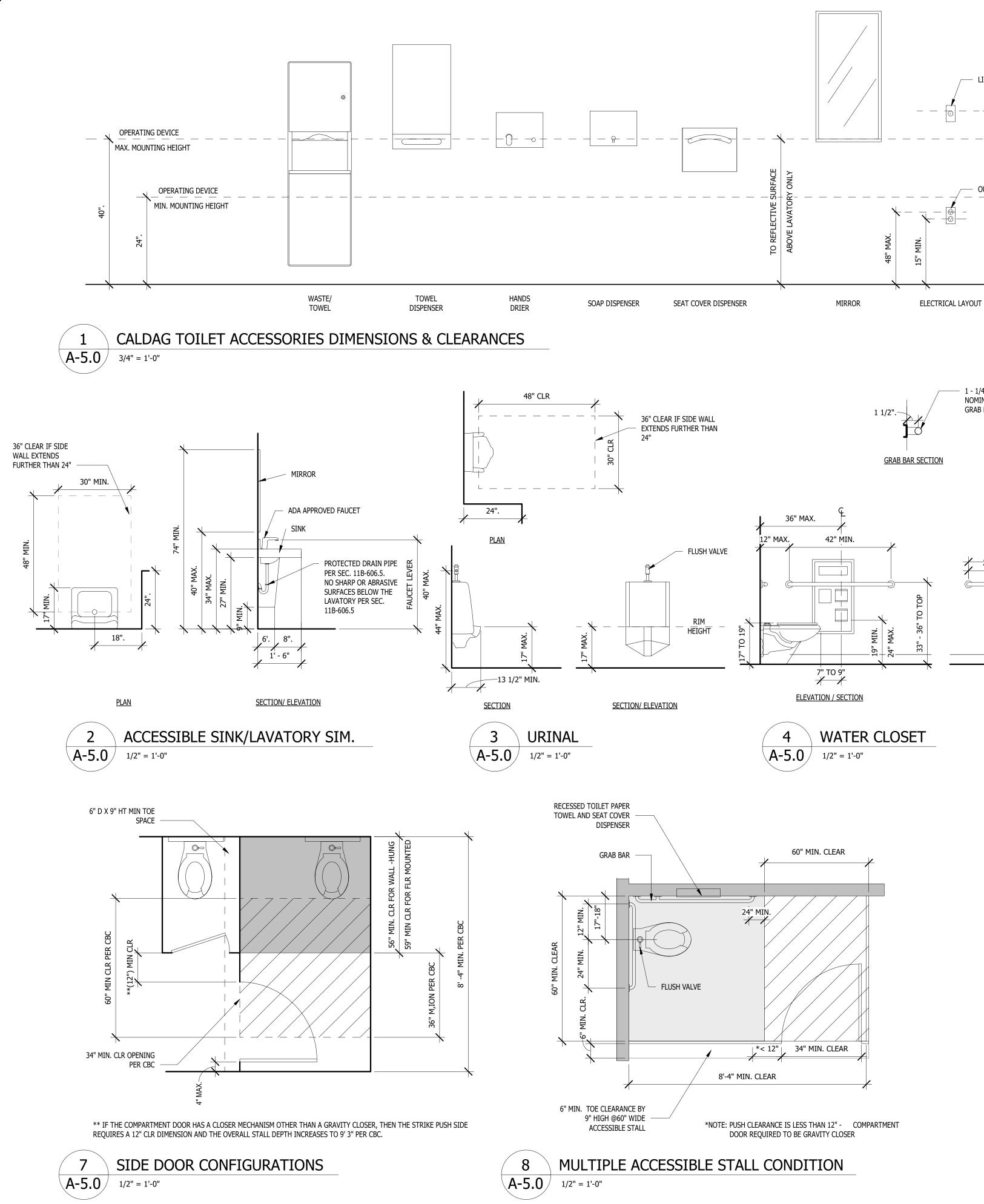


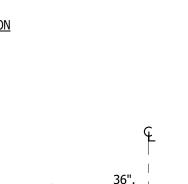
	PANJ	* 44 PAR
	CH PA	NO. C-29344 EXP. 11-30-23
(01) NEW FLOOR MOUNT WATER CLOSET, SEE PLUMBING	PIPE CHIEFE	MO. C.2 MO. C.2 MO. C.2
(02) NEW SINK, SEE PLUMBING		<u> </u>
(03) NEW GRAB BAR (04) NEW MIRROR	hitecture planning interior	chitects, Inc.
05 NEW TOILET PAPER/SEAT COVER DISPENSER	architecture planning interior	ects
(06) NEW PAPER TOWEL DISPENSER/WASTE RECEPTACLE	ō	chite
07) NEW SOAP DISPENSER		
08 NEW TILE WAINSCOT (SOME WALLS FULL HIGHT REFER TO ELEVATION)		g
(09) NEW FLOOR DRAIN, SEE PLUMBING		hapan A
10 NEW FLOOR FINISH		nic
11 TOILET PARTITIONS, REFER TO MOODBOARD SET		PO
(12) METAL COVED BASE.		Gillis + Panic
 (13) NEW URINAL, SEE PLUMBING. (14) NEW POTTLE FULLER, REFER TO MOODPOARD SET. 		Gillis
 (14) NEW BOTTLE FILLER, REFER TO MOODBOARD SET (15) URINAL SCREEN 	All Rights F	
15URINAL SCREEN16NEW GYPBOARD FINISH TO MATCH WITH EXISTING.	are the copyrigh reproduced in a	and the structure depic nted property of, and m ny form without permission of, Gillis+Pa
 (17) UNDER COUNTER PANEL (ADA) 	Architects, Inc.	
(18) DIAPER CHANGING TABLE		
19 SANITARY NAPKIN DISPENSOR VENDOR		
TOILET AND WASHROOM ACCESSORIES:		
RECESSED TOILET SEAT COVER & TOILET TISSUE DISPENSER -BOBRICK		
DISPENSER - BOBRICK B-347		
DISPENSER - BOBRICK B-3479		
04 RECESSED TOILET SEAT COVER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER - BOBRICK B-3091/B-3092		
05 PARTITION MOUNTED TOILET SEAT COVER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER - BOBRICK B-357	OCT 2024	
06 MIRROR - BOBRICK B-290	21 OCT	
07 PAPER TOWEL/WASTE RECEPTACLE - BOBRICK B-3944 W/ B-29744 PAPER TOWEL DISPENSER (ELECTONIC)	DATE: DATE: 2	
08 GRAB BAR - BOBRICK B-6806		
09 SOAP DISPENSER -	LN LN	СНЕСКЕЛ
	FELOPMENT #5	
	DESIGN DEVELC ADDENDUM #5	
	DESIC	
WOMEN'S 10		
110 7 (A-4.1)		
6 (A-4.1) 9		
A-4.1 5		
	NS NS	
MEN'S	LEVATIONS	
	A	
	R	
	ERIOR	'PA
	INTERIOR EL	SAWPA

A-4.1

 12
 KEYPLAN

 A-4.1
 1/4" = 1'-0"





24" MIN. 12" MIN

ELEVATION / SECTION

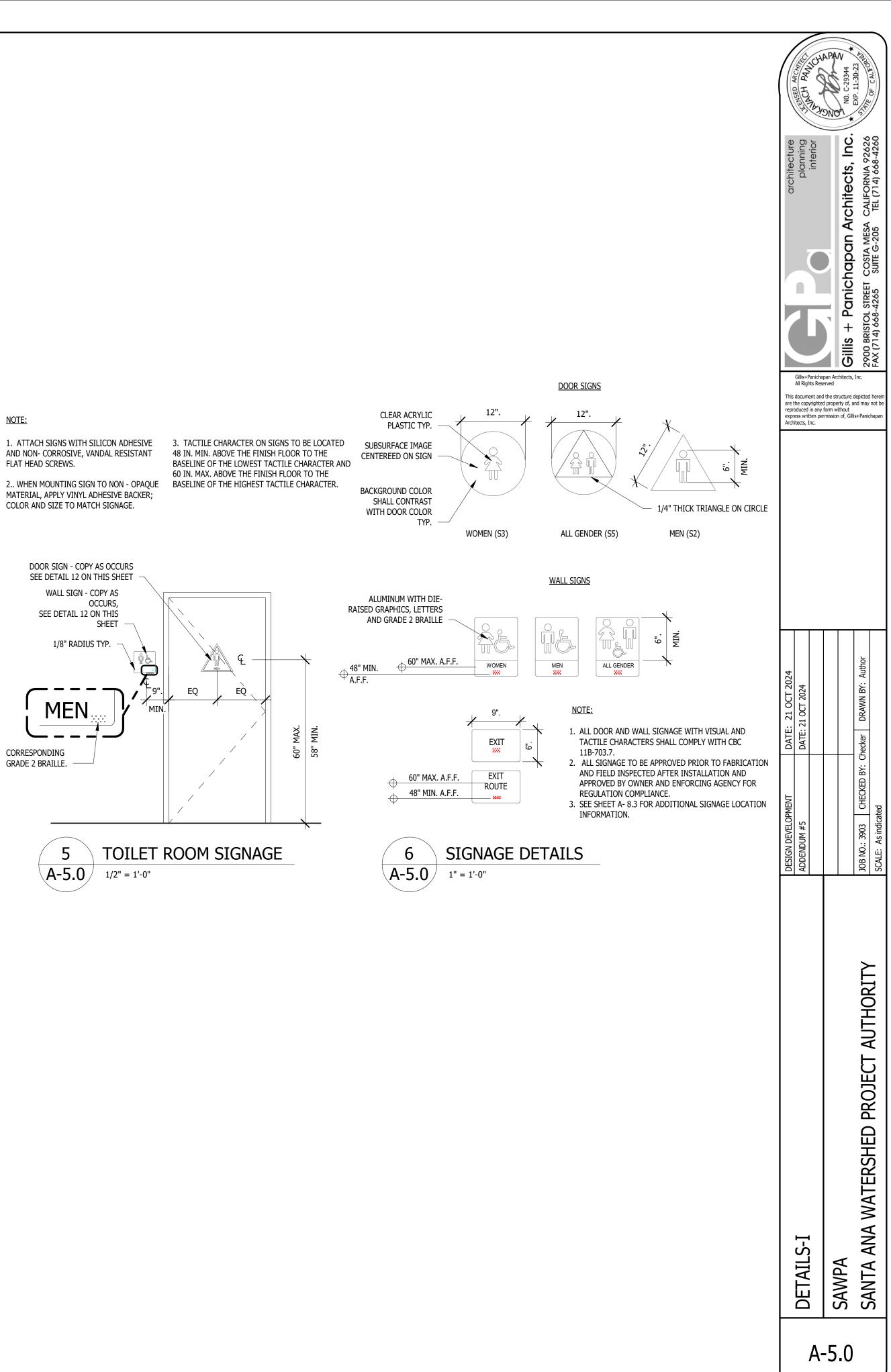
1 - 1/4" TO 1 - 1/2" NOMINAL DIAMETER

GRAB BAR

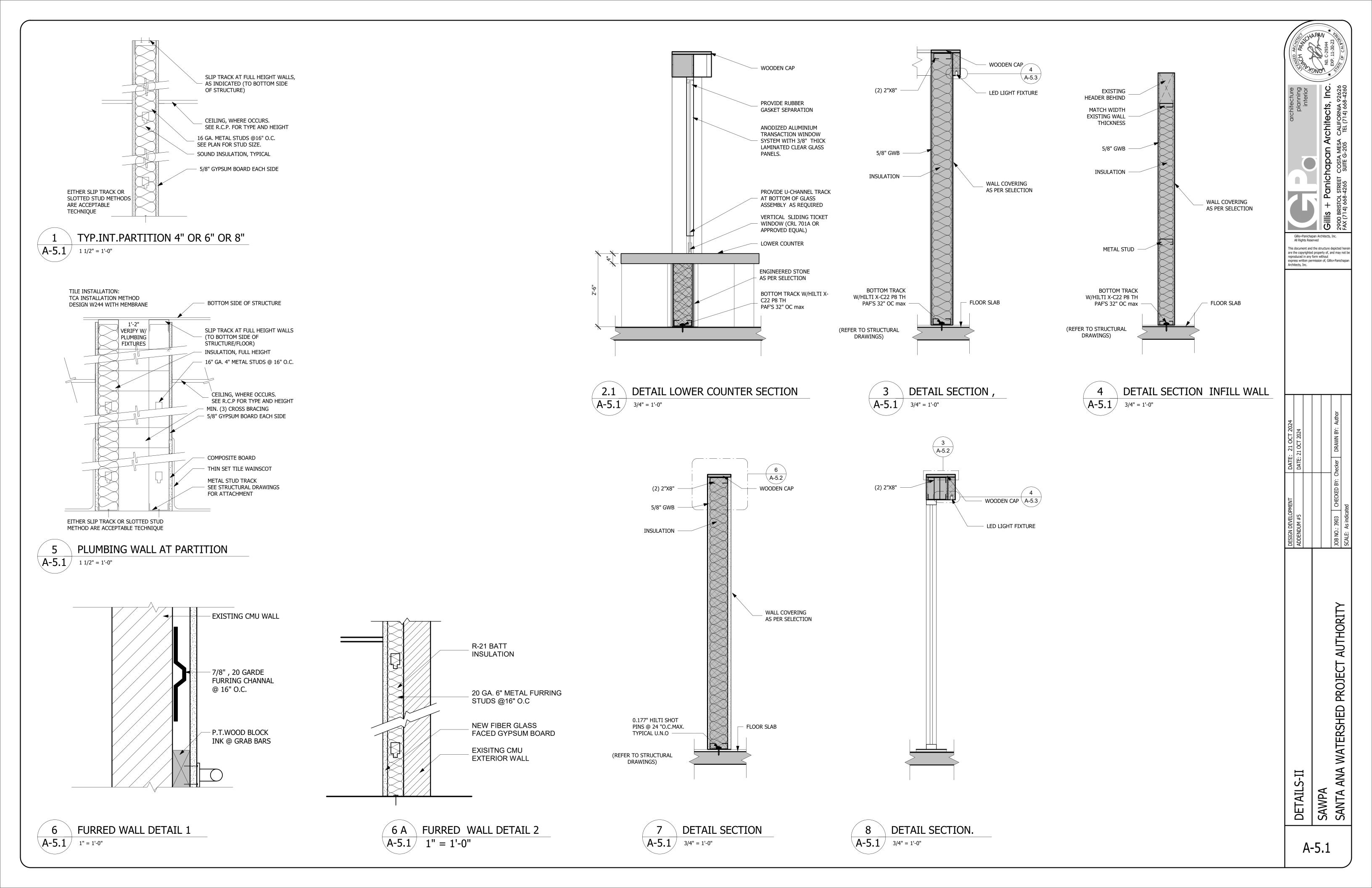
LIGHT SWITCH

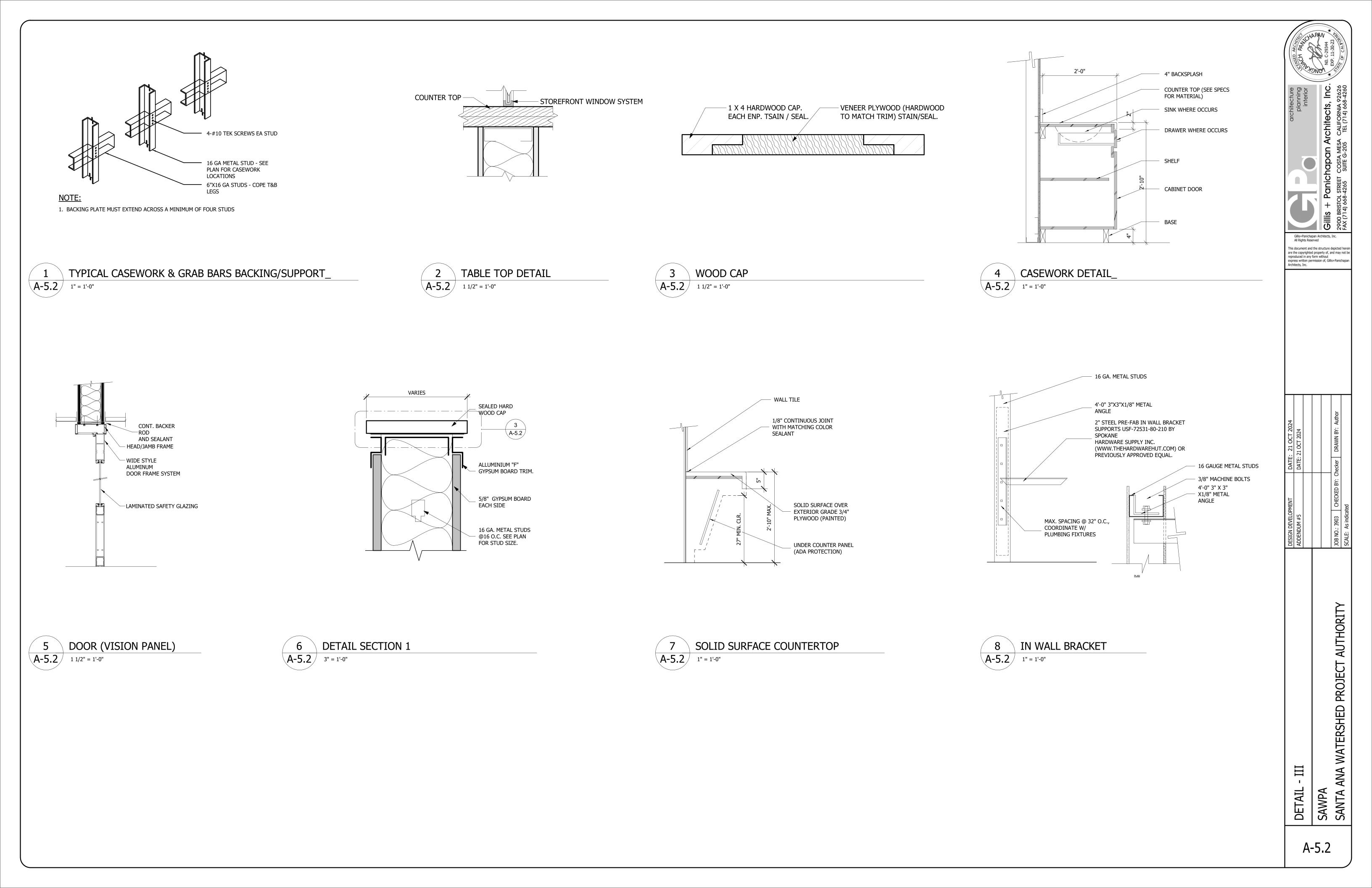
OUTLET

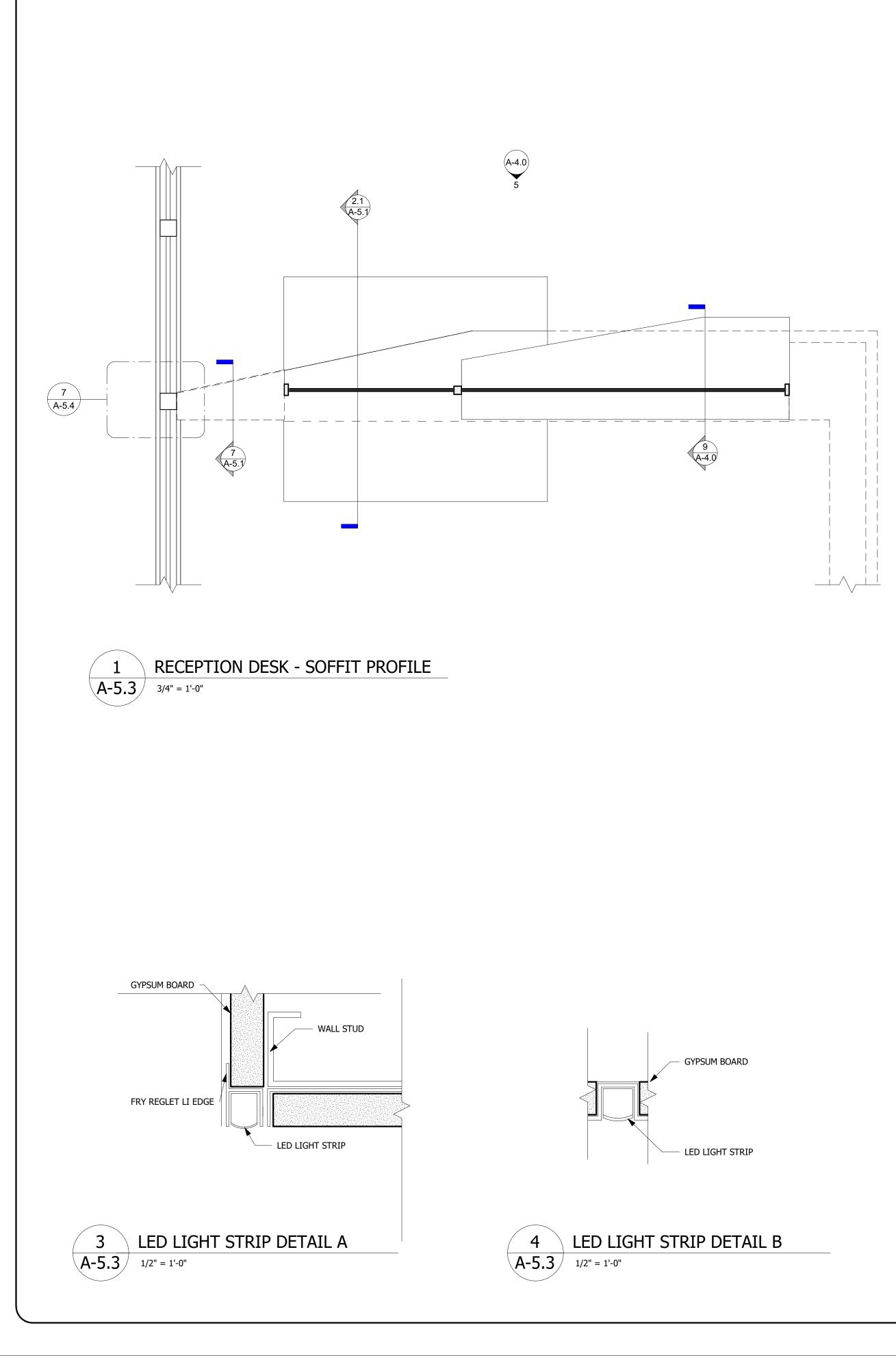


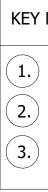


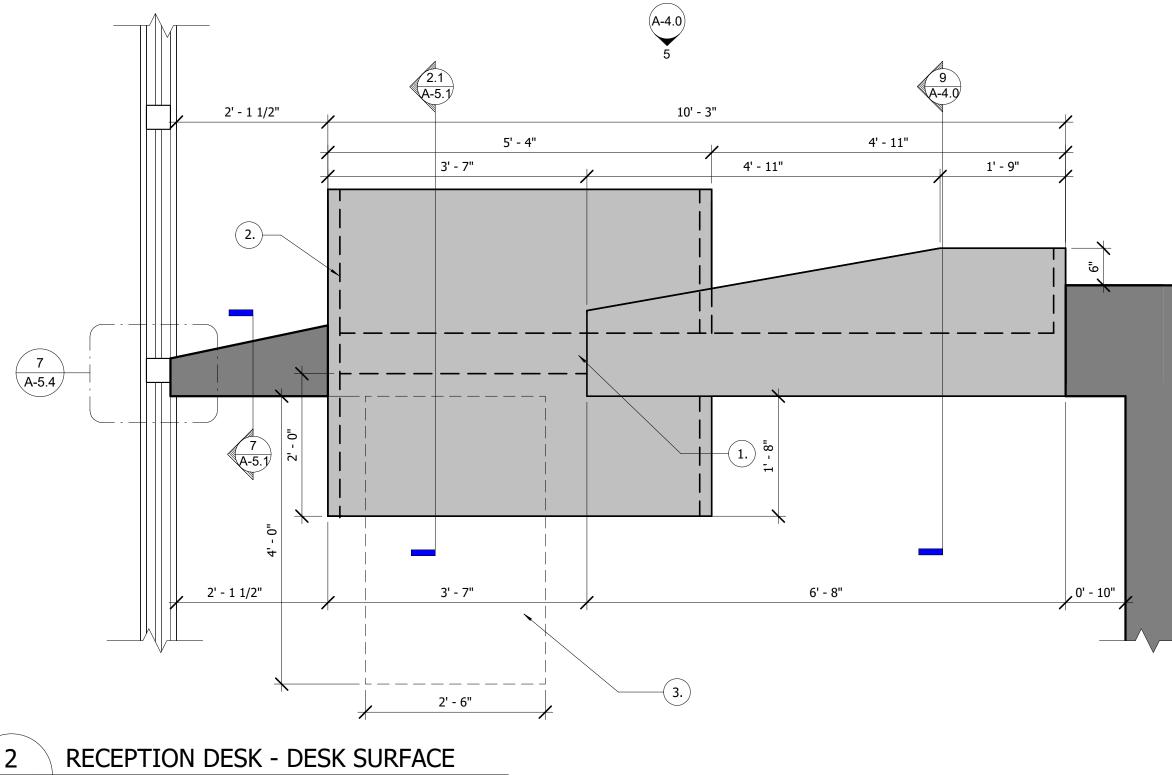






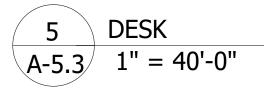








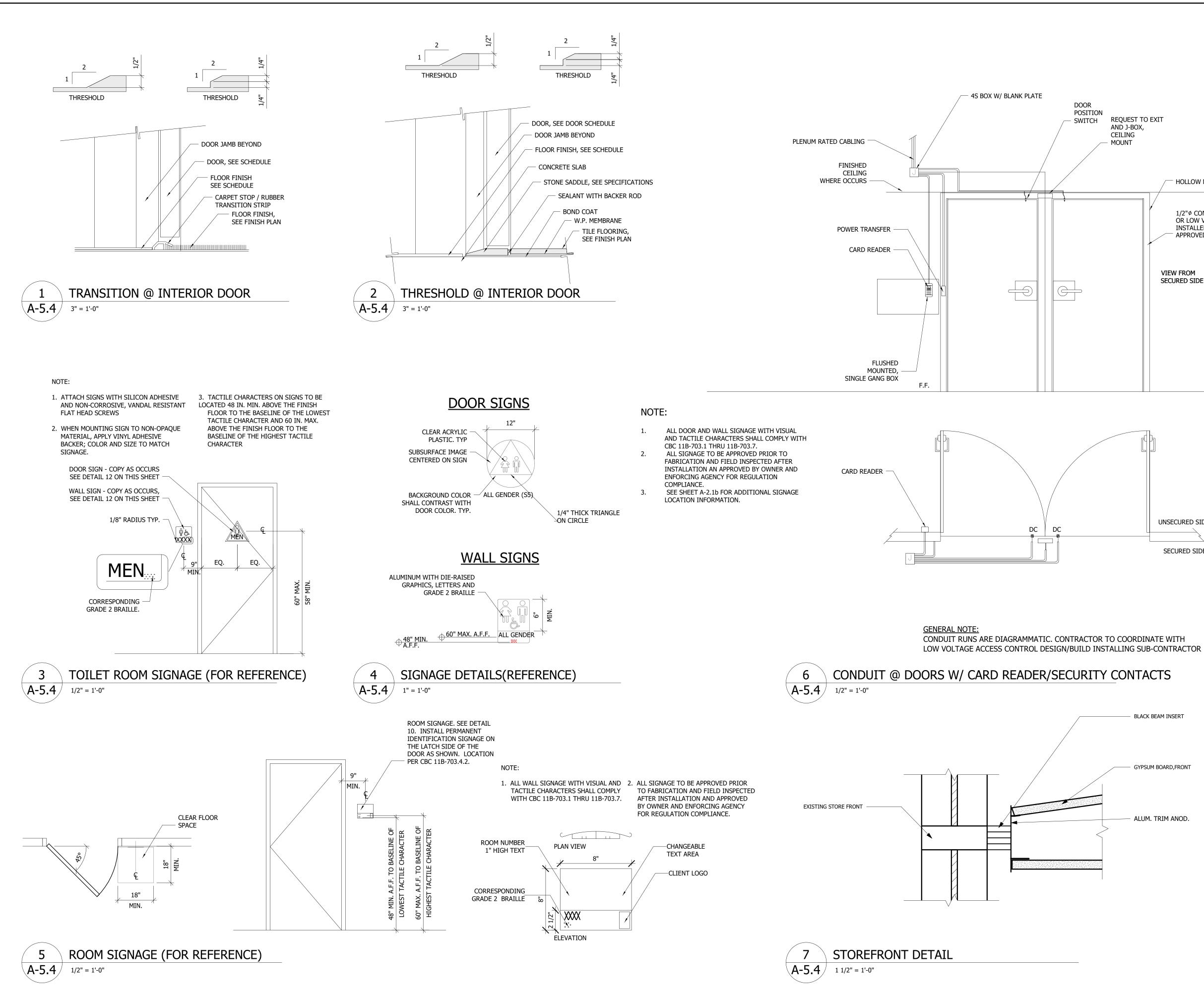




KEY NOTES :

TUBE STEEL COLUMN (SEE STRUCTURAL DRAWINGS) DASHED LINE INDICATES TABLE SUPPORT BELOW (3.) INDICATE AREA OF ACCESSIBLE COUNTER

	SCH PARCHING	HALL AND	APA	NO. C-29344	737 EXP. 11-30-23	OF CAL
	Gillist	hts Res	erved	Gillis + Panichapan Architects, Inc.	2900 BRISTOL STREET	
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		<u>А</u> -		_	0)



HOLLOW METAL FRAME 1/2"¢ CONDUIT IN FRAME OR LOW VOLTAGE WIRE INSTALLED IN CODE APPROVED METHOD. VIEW FROM SECURED SIDE

UNSECURED SIDE SECURED SIDE

BLACK BEAM INSERT

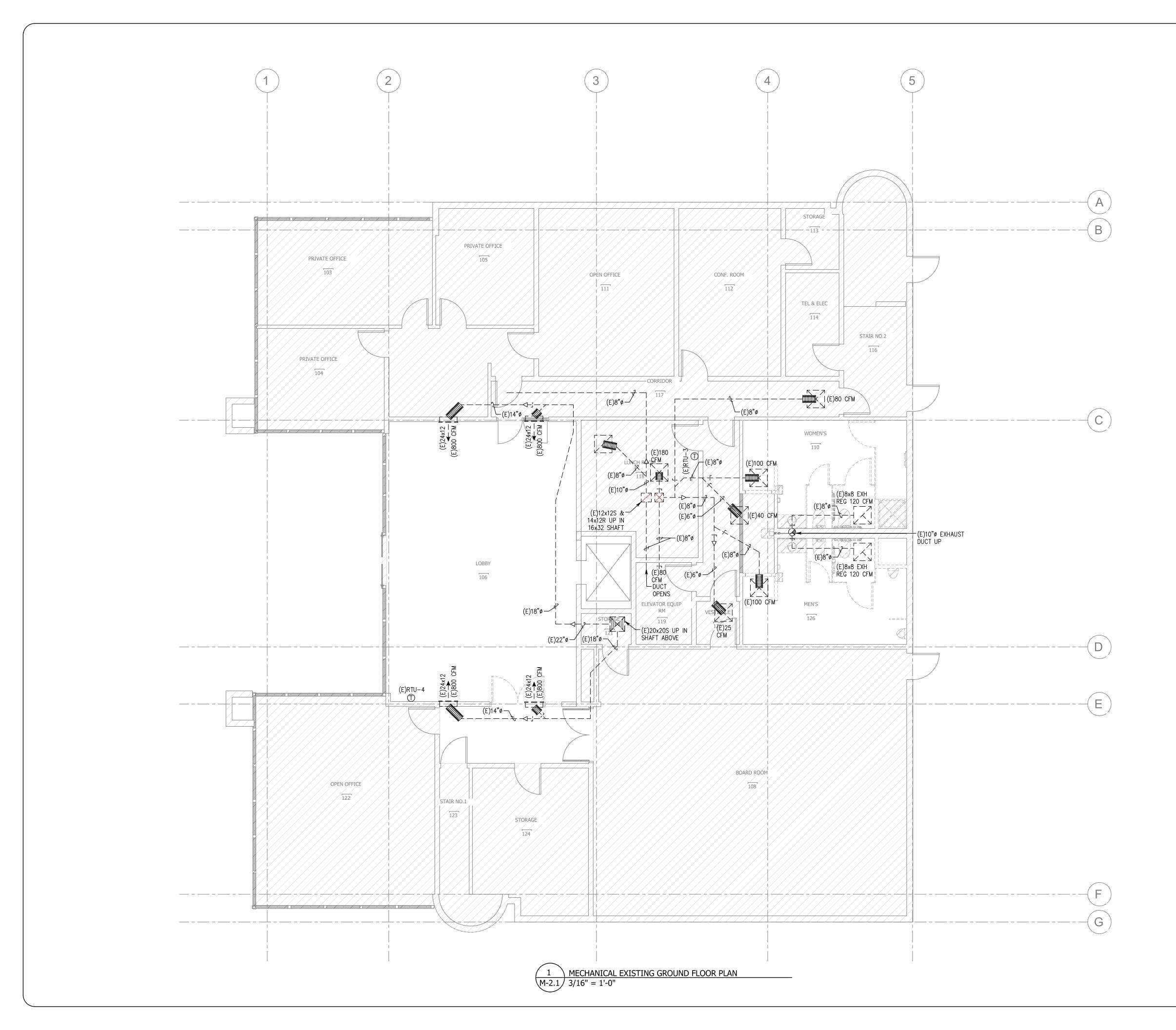
GYPSUM BOARD, FRONT

ALUM. TRIM ANOD.

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A	DETAILS- V	ADDENDUM #5	DATE: 21 OCT 2024	Blilis+Panich All Rights Re document ar he copyright oduced in any itects, Inc.
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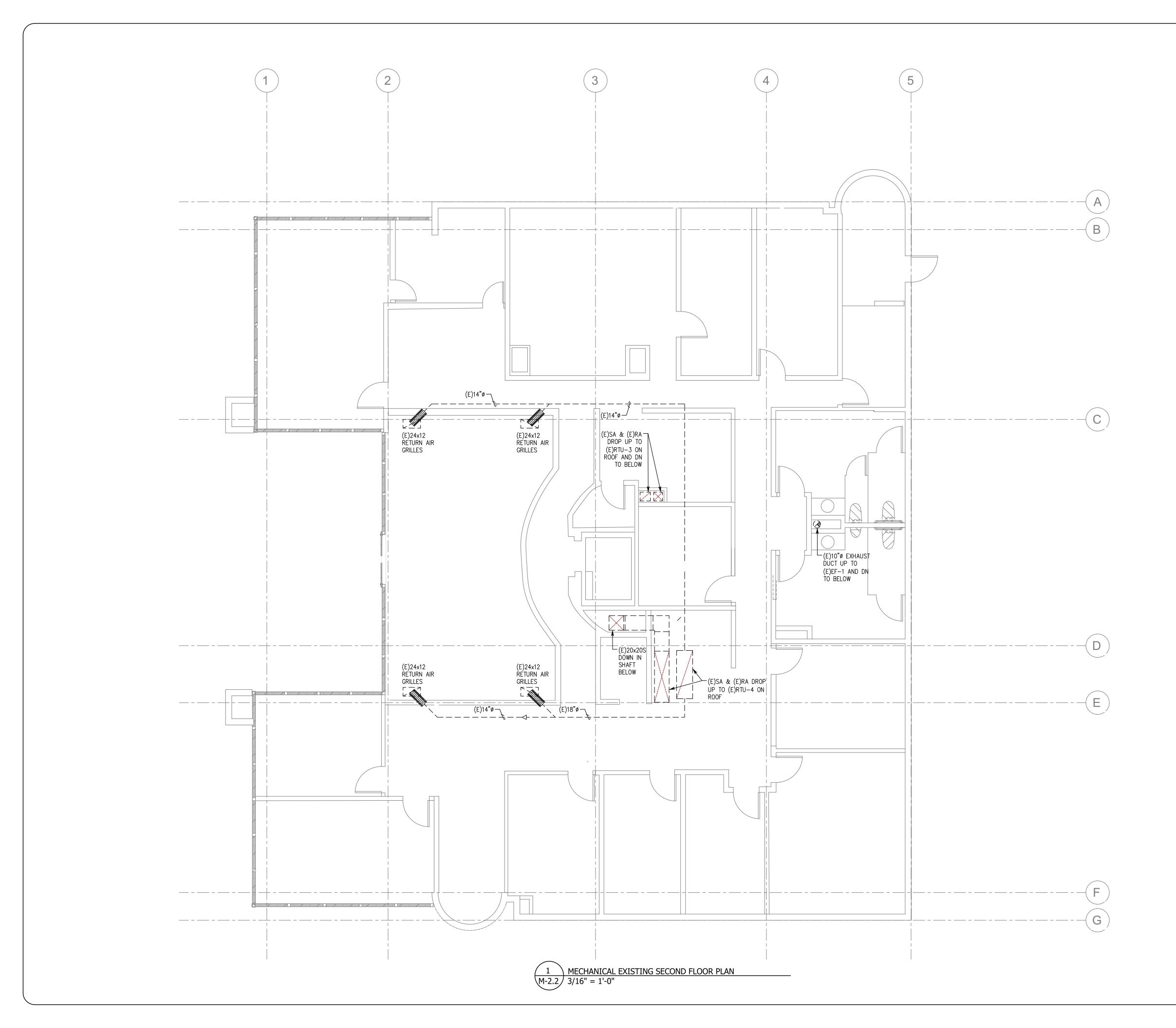
GENERAL NOTES	MANDATORY NOTES (CEC 2022)	MANDATORY NONRESIDENTIAL CALGREEN REQUIREMENTS			MECHANICAL LE	GEND		ALL PROFESSION
1. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING STRUCTURAL RELATIONS AND SECONDITIONING AND SECONDATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING	1. ALL RECIRCULATED AIR OR OUTDOOR AIR SUPPLIED TO OCCUPIABLE SPACES IS FILTERED (MINIMUM MERV 13 BEFORE PASSING THROUGH ANY AIR CONDITIONING COMPONENT; THE LESSER OF THE MINIMUM RATE OF	<u>SECTION 5.410 - BOILDING MAINTENANCE AND OPERATION</u>	SINGLE LINE	DOUBLE LINE			SUPPLY AIR FLOW	Signa Rev 1972
STRUCTURAL, PLUMBING, AIR CONDITIONING AND ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL DE CORPECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER	OUTDOOR AIR REQUIRED BY SEC. 120.1(C), OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED 120.1(D)(2).	LESS THAN 10,000 SQUARE FEET. APPLIES TO NEW SYSTEMS SERVING ADDITIONS OR ALTERATIONS.	10"ø		RECTANGULAR DUCT		RETURN/EXHAUST AIRFLOW	PRE-OF CALLFORM
BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER. 2. THESE DRAWINGS ARE DIAGRAMMATIC. THE LOCATION & ELEVATION OF ALL DUCTWORK AND PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COOPDINATED WITH ALL OTHER TRADES STRUCTURAL CONDITIONS AND BUILDING	2. ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH DUCTWORK, DAMPERS, AND CONTROLS WHICH ALLOWS OUTSIDE AIR RATES TO BE OPERATED AT THE LARGER OF (1) THE	5.410.4.2 SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT, THE SYSTEMS LISTED IN SECTION 5.410.4.2.			LINED DUCT	OA →	RETURN/EXHAUST AIRFLOW	A Pace of the second se
AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.	MINIMUM LEVELS SPECIFIED IN SECTION 120.1(C)3 OR (2) THE RATE REQUIRED FOR MAKE- UP OF EXHAUST SYSTEMS THAT ARE REQUIRED FOR AN EXEMPT OR COVERED PROCESS, FOR CONTROL OF ODORS, OR FOR THE REMOVAL OF CONTAMINANTS WITHIN THE SPACE. MEASURED OUTSIDE AIR RATES OF CONSTANT AND VARIABLE	5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE ENFORCING AGENCY.			RECTANGULAR TO RECTANGULAR		CEILING DIFFUSER - SUPPLY	archite pla in in ects , .(714) 66
 ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS. ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT 	VOLUME MECHANICAL VENTILATION SYSTEMS SHALL BE WITHIN 10% OF OUTSIDE AIR RATE SHOWN ON TABLE 120.1-A. 120.1 (F) (1)/ 120.1 (F) (2)	5.410.4.3.1 HVAC BALANCING. BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1 OR AS APPROVED BY THE ENFORCING AGENCY.			ROUND TO RECTANGULAR			Archite
4. DO NOT SCALE DRAWINGS. ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. VERIFY ALL EXISTING DUCTWORK, PIPING, ELEVATIONS, SIZES AND POINT OF CONNECTIONS PRIOR TO START OF WORK. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.	3. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY TO CONTROL COMFORT HEATING DOWN TO 55 °F OR LOWER AND COOLING UP TO 85°F OR HIGHER. THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A DEAD BAND RANGE OF AT LEAST 5 °F WITHIN	5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.			ROUND TO ROUND		CEILING REGISTER - RETURN	apan A UITE G-200
5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATION AND MEET THE APPROVAL OF THE CITY AND STATE FIRE MARSHALL.	WHICH HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCE TO A MINIMUM. 120.2 (A) (B)4. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY	5.410.4.5 OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.		ы Н	RADIUS ELBOW		CEILING REGISTER – EXHAUST	anich:
 6. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. 	 CLOSE UPON FAN SHUTDOWN. 120.2 (F). 5. AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS AIR HANDLER POYES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS. SHALL 	5.410.4.5.1 INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS			SUPPLY DUCT TURNING UP AND DOWN		ROUND DIFFUSER	D BRISTOL S' (714) 668-42
7. VERIFY FINAL LOCATION OF THERMOSTATS WITH ARCHITECT AND/OR TENANT CONSTRUCTION COORDINATOR PRIOR TO ANY INSTALLATION WORK. MOUNT THERMOSTATS 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.	MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 CMC CODE AND ANSI/SMACNA -006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. SUPPLY-AIR DUCTS	SECTION 5.504 POLLUTANT CONTROL			RETURN DUCT TURNING UP AND DOWN		SIDEWALL DIFFUSER - SUPPLY	E AXX
8. CONTRACTOR SHALL PROVIDE RECORD/AS BUILT DOCUMENTS TO TENANT CONSTRUCTION COORDINATOR OR ARCHITECT AT COMPLETION OF CONSTRUCTION.	CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF $R-6$ ($R-8$ in unconditioned space), unless ducts are in conditioned space. 120.4 (A)	FILIERS WITH A MERV OF IS, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 50% BASED ON —			EXHAUST DUCT TURNING UP AND DOWN		SIDEWALL DIFFUSER – RETURN/EXHAUST	Gillis+Panichapan Architects, Inc. All Rights Reserved This document and the structure depicted herein are the copyrighted property of, and may not be
9. ALL DUCTWORK SHALL CONFORM TO CHAPTER 6 OF 2022 CMC. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE	 FLEXIBLE DUCTWORK INSTALLATION SHALL COMPLY WITH SECTION 603.4 OF CMC 2022. SHUTOFF AND RESET CONTROLS FOR SPACE CONDITIONING SYSTEM SHALL COMPLY WITH SECTION 120.2(E) OF 	ASHRAE 52.1–1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. 5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF POLICIE INSTALLATION AND DURING STOPACE ON THE CONSTRUCTION SITE AND UNTIL FINAL] .		DUCT CAP			express written permission of, Gillis+Panichapan Architects, Inc.
HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).	CALIFORNIA ENERGY CODE 2022.	THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE AND 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		<u> </u>	45 DEGREE TAP		UNDERCUT DOOR LOUVER	
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.	8. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE.	ENTER THE SYSTEM.		<u> </u>	CONICAL TAP	6x6 T	THERMOSTAT	
11. WRAP CONCEALED DUCTS WITH FIBERGLASS DUCT INSULATION WRAP (ALL SUPPLY DUCT TO HAVE VAPOR BARRIER). ALL NEW SUPPLY AND RETURN DUCT INSULATION WITHIN THE BUILDING TO HAVE MINIMUM 8.0 R-VALUE.	9. ALL APPLIANCES DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE IN ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO RESIST HORIZONTAL AND VERTICAL LOADS WITHIN THE STRESS LIMITATIONS OF	BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A 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.			FLEXIBLE DUCT	B	HUMIDISTAT	
12. INSTALL DOUBLE WALL DUCTS FOR ALL EXPOSED OUTDOOR SUPPLY AND RETURN DUCTS WITH AT LEAST 8.0 R-VALUE INSULATION.					FLEXIBLE CONNECTION	CO ₂	CO2 SENSOR	
13. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.	SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED TWENTY-FIVE (25) AND A SMOKE DEVELOPED INDEX NOT TO EXCEED THEN FIFTY (50) WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E 84 OR UL 723 AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2022 CMC	5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 OF THE CALIFORNIA ENERGY CODE AND CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.	<u> </u>		MANUAL VOLUME DAMPER		POINT OF CONNECTION POINT OF DEMOLITION	
14. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE (C.M.C.), 2022 CALIFORNIA BUILDING CODE (C.B.C.) AND ALL OTHER APPLICABLE CODES AND REGULATIONS.	SECTION 602.2. 11. INSTALLATION OF DUCTS SHALL BE IN ACCORDANCE WITH SECTION 603.0 OF THE 2022 CMC.	5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE, CCR, SECTION 120(C)(4).	<u></u>		SMOKE DETECTOR		PROPOSED SHEET KEYNOTE	
15. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.	 ALL DUCTWORK FOR HEATING AND COOLING SYSTEM OR EVAPORATIVE COOLING SYSTEM SHALL BE CONDUCTED THROUGH DUCT SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARD – METAL AND FLEXIBLE. FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR 	SECTION 5.508 - OUTDOOR AIR QUALITY	MD	MD	MOTORIZED DAMPER		DEMOLITION SHEET NOTES	
16. AIR LEAKAGE TESTING SHALL BE PERFORMED BY SMACNA HVAC DUCT LEAKAGE TEST MANUAL. 17. LINE VOLTAGE WIRING, ALL CONDUIT, DISCONNECT SWITCHES AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR.	THE USE INTENDED OR SHALL COMPLY WITH THE 2022 CMC REFERENCED STANDARDS CHAPTER 17. • JOINTS AND SEEMS FOR DUCT SYSTEMS SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD	5.508.1 OZONE DEPLETION AND GLOBAL WARMING REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.	BD	BD		$\left \begin{array}{c} \left\langle \frac{1}{1} \right\rangle \right\rangle$	EQUIPMENT TAG	
LOW VOLTAGE CONDUIT AND WIRING AND FINAL CONNECTION BY MECHANICAL CONTRACTOR. 18. THE TOTAL SYSTEM AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY CERTIFIED BY THE AABC OR	 METAL AND FLEXIBLE. JOINTS OF DUCTS SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF TAPES, MASTICS, GASKETING, OR OTHER 	5.508.1.1 CFCS. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCS. 5.508.1.2 HALONS. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS.	<	▼	BACKDRAFT DAMPER	AP	PPLICABLE CODES	-1
NEBB. THIS WORK SHALL CONFORM TO AABC OR NEBB SPECIFICATIONS AS REFERRED TO IN THE NATIONAL STANDARDS.	 CRIMP JOINTS FOR ROUND DUCTS SHALL HAVE A CONTACT LAP OF NOT LESS THAN 1–1/2" AND SHALL BE MECHANICALLY FASTENED BY MEANS OF NOT LESS THAN 3 SHEET-METALS SCREWS EQUALLY SPACED AROUND THE JOINT, OR AN 				FIRE DAMPER EXISTING AND NEW		ANCY CLASSIFICATION: ON OF THIS PROJECT SHALL CONFORM TO	
19. ALL PIPING AND DUCT WORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTION 120 OF CALIFORNIA ENERGY CODE 2022.	EQUIVALENT FASTENING METHOD. • DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD –		Ŷ ♦	$\hat{\mathbf{v}}$	COMBINATION FIRE/SMOKE DAMPER	THE REQUIREMEN		
20. PROVIDE GUIDE VANES FOR ALL RECTANGULAR DUCT ELBOWS. 21. AUTOMATIC SHUTOFFS:	• METAL AND FLEXIBLE	SHEET INDEX		<u> </u>	EXISTING AND NEŴ		A ELECTRICAL CODE (CEC)	
PER SEC. 609 OF 2022 CMC WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2,000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH	 12. DUCTS AND PLENUMS SHALL COMPLY WITH SECTION 120.4 OF THE 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS. PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR 	SHT.NO. DESCRIPTION M-0.1 MECHANICAL GENERAL NOTES & LEGEND	← \ .		DUCT CONTINUATION		A MECHANICAL CODE (CMC)	: 3903 BY: HS D BY: HS As indicat
WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT AND WHICH COMPLY WITH THE UL 268A SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING	MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8 a. OUTDOORS; OR b. IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING: OR		·		PIPE CONTINUATION		A PLUMBING CODE (CPC) A ENERGY CODE (CEnC)	JOB NO. DRAWN CHECKEI SCALE:
VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITY OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.	c. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES; OR				EXISTING HVAC			
22. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIES THIS INFORMATION REFORE OPDERING FARRIGATION	d. IN AN UNCONDITIONED CRAWLSPACE; OR e. IN OTHER UNCONDITIONED SPACES. • PORTIONS OF SUPPLY—AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN	M-3.2 MECHANICAL PROPOSED SECOND FLOOR PLAN		<i> </i>	HVAC TO BE DEMOLISHED			
OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING OR INSTALLATION OF ANY MATERIALS.	CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC SECTION 605.1 □ OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE. • ALL FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS.	ABBREVIATIONS	<u>م</u>					
23. HVAC SYSTEM AND COMPONENTS WILL BE TESTED ,A ADJUSTED AND BALANCED IN ACCORDANCE WITH AABC'S NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE 7TH EDITION.	 ALL FACTORY-FABRICATED DUCT STSTEMS SHALL COMPLY WITH UL 181 FOR DUCTS AND CLOSURE STSTEMS, INCLUDING COLLARS, CONNECTIONS, AND SPLICES, AND BE LABELED AS COMPLYING WITH UL 181. FACTOR-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD- FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. 		AT LEAVING AIR TEMPERATURE	PLBG PLUMBING	G TYP TYPICAL TIC UC UNDERCUT DOOR			
 27. MECHANICAL MATERIAL STANDARD SHALL BE LISTED AND LABELING TO COMPLY WITH TABLE 1701.1. CMC 306.1 AND CMC 307.1. 28. ALL DIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED, BUILDING CAVITIES, MECHANICAL 	COMPLY WITH OL 181. COMMISSIONING AND AIR BALANCING	AC AIR CONDITIONING CD CONDENSATE DRAIN DEH DEHUMIDIFIER FLA FULL LOAD AMPS LBS	BS POUNDS BS/HR POUNDS PER	PRV PRESSUR PRV PRESSUR REDUCING PS PRESSUR	E UH UNIT HEATER G VALVE V VOLTS, VENT			P E
28. ALL DIR DISTRIBUTION SYSTEM DUCTS AND PLENOMS, INCLUDING, BUT NOT LIMITED, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS AND PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF THE CMC SECTION 601.0, 602.0, 603.0, 604.0, AND 605.0 ANSI/SMACNA-006-2006 HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 3RD EDITION.	REQUIREMENTS	ADA AMERICANS WITH DISABILITIES ACT CH CHILLER RETURN DO DIGITAL OUTPUT DP DIFFERENTIAL PRESSURE FT, FOOT, FEET FT, FOOT, FEET FT, FOOT, FEET FT, FOOT, FEET FT HD FEET OF HEAD	RA LOAD RATED AMPS WT LEAVING WATER TEMPERATURE	S PSI POUNDS SQUARE RA RETURN	PER VOLUME INCH VD VOLUME DAMPER AIR VEL VELOCITY			-EGEI
29. CONNECTIONS OF METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS SHALL BE MECHANICALLY FASTENED. OPENINGS SHALL BE SEALED WITH MASTIC TAPE, AEROSOL SEALANT OR OTHER DUCT CLOSURE SYSTEM THAT MEETS	1. CONTRACTOR IS RESPONSIBLE FOR COMPLETE COMMISSIONING OF THE HVAC SYSTEM AND PROVIDE FINAL AIR BALANCING REPORT IN COMPLIANCE WITH THE DESIGN INTENT.	FLOOR SUPPLY DX DIRECT EXPANSION GPH 'GALLONS PER HOUR AHU AIR HANDLING UNIT CLNG CEILING EA EXHAUST AIR GPM IGALLONS PER	IBH THOUSAND BRITISH THERMAL UNITS PE HOUR	H REF REFRIGER ER RH RELATIVE RLA RATED LO RPM REVOLUTI	HUMIDITY VFD VARIABLE OAD AMPS FREQUENCY			S & I
THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A OR UL 181B. IF MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4", THE COMBINATION OF MASTIC AND EITHER MESH OR TAPE SHALL BE USED.	2. CONTRACTOR SHALL ENGAGE AABC, TABB OR NEBB CERTIFIED AIR BALANCER TO BALANCE THE HVAC SYSTEM IN ENTIRETY AND PROVIDE A CERTIFIED FINAL AIR BALANCE FOR MECHANICAL ENGINEER OF RECORD'S REVIEW AND COMMENT.	AO ANALOG OUTPUT CO2 CARBON DIOXIDE TEMPERATURE H HEIGHT	ACA MINIMUM CIRCUIT AMPACITY AMPACITY AMDTOR OPERATED	MINUTE	VRF VARIABLE REF AIR FLOW			PRC 0TE
30. PORTIONS OF SUPPLY AIR AND RETURN AIR DUCTS CONVEYING HEATED AND COOLED IAR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OR R-8: 30.1. OUTDOORS OR;	 CONTRACTOR SHALL PROVIDE ALL WARRANTY PAPERS TO THE CLIENT AT THE COMPLETION OF THE JOB. CONTRACTOR SHALL PROVIDE MINIMUM 1 HR OF TRAINING ON SYSTEM MAINTENANCE AND CONTRACTOR SHALL PROVIDE MINIMUM 0 HER THE OVERTHER. 	ASHP AIR SOURCE HEAT CT COOLING TOWER EJ EXPANSION JOINT HP HORSEPOWER MEC PUMP CW COLD WATER E EXISTING HTG HEATING MFF	IDAMPER IECH MECHANICAL IFR MANUFACTURER	SUPPLY TEMPERA	AIR W/ WITH TURE W/O WITHOUT			
 30.2. IN A SPACE BETWEEN THE ROOF AND IN INSULATED CEILING OR; 30.3. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES OR; 30.4. IN AN UNCONDITIONED CRAWLSPACE OR; 	CONTROLS TO THE CLIENT BEFORE HANDING OVER THE SYSTEM. 5. CONTRACTOR SHALL PROVIDE FINAL AS-BUILT DRAWINGS OF THE SYSTEM WITH ANY CHANGES MADE IN THE FIELD DURING INSTALLATION.	AUTOMATION SYS BDD BACKDRAFT DAMPER CWS CONDENSER WATER ET EXPANSION TANK HWS HOT WATER RETURN BFP BACKFLOW CWS SUPPLY EWB ENTERING WET BULB HX HEAT EXCHANGER NIC	I/A NOT APPLICABLE IC NORMALLY CLOSED NOISE CRITERIA IIC NOT IN CONTRACT	SF SUPPLY	AMPER TEMPERATURE FAN, WH WATER HEATER FEET WPD WATER			
 30.5. IN OTHER UNCONDITIONED SPACES 31. ALL FACTORY FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS, INCLUDING COLLARS, CONNECTIONS, AND SPLICES, AND BE LABELED AS COMPLYING WITH UL 181. 	SHOP DRAWINGS REQUIREMENTS	PREVENTER Cx COMMISSIONING TEMP HZ HERTZ (CYCLES PER NFF BLW BELOW CxA COMMISSIONING EWT ENTERING WATER SECOND) BLDG BUILDING AUTHORITY TEMPERATURE ID INSIDE DIAMETER BMS BUILDING D DEMOLISH, REMOVE F DEGREES IN, " INCH, INCHES NTS	IFPA NATIONAL FIRE PROTECTION AGENCY ITS NOT TO SCALE	SOO SEQUENC OPERATIO SP STATIC P SQ FT SQUARE	DN WSHP WATER SOURCE PRESSURE HEAT PUMP			AL GE
32. FACTOR-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH		MANAGEMENT SYS DAT DISCHARGE AIR FAHRENHEIT IN WG INCHES OF WATER OA	DA OUTSIDE AIR OUTSIDE AIR OUTSIDE AIR TEMPERATURE	STD STANDAR	FEET ZN ZONE			ANA ANA
UL 181. 33. HEATING AND COOLING PIPING MATERIAL : COPPER	 CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS FOR ALL HVAC BEFORE INSTALLATION. ALL DUCTING AND PIPING LOCATIONS AND LAYOUTS SHALL BE FIELD VERIFIED TO 	BTU BRITISH THERMAL TEMPERATURE, DAMPER KW KILOWATTS % UNIT DECIBELS FD FLOOR DRAIN, FIRE I LIFNGTH, LONG PD	PERCENT PRESSURE DROP	TEMPORA TSP TOTAL S				CHANI WPA NTA AN
34. REFRIGERANT PIPING MATERIAL : COPPER.	CONFIRM THEIR INSTALLATION BEFORE CONSTRUCTION STARTS. 3. THIS DRAWINGS ARE SCHEMATIC ONLY AND SHALL NOT BE USED FOR THE PURPOSE OF THE SHOP DRAWINGS OR RECORD DRAWINGS.	BTUH BRITISH THERMAL DDC DIRECT DIGITAL		PRESSUR				MEC SAM SAN
35. CONDENSATE PIPING MATERIAL : COPPER.	4. IT IS CONTRACTOR'S RESPONSIBILITY TO GENERATE CLEAN AND CLEAR SHOP DRAWINGS AS WELL AS RECORD DRAWINGS AFTER THE INSTALLATION IS COMPLETE.						H2S Engineers Inc.	
	5. ANY DESIGN CHANGE SHALL BE COORDINATED WITH THE ENGINEER OF RECORD AND SHALL BE APPROVED BY THE OWNER BEFORE CONSTRUCTION.						Mechanical and Electrical Engineers 4095 E La Palma Ave, Suite F, Anaheim, CA 9280 Ph: (714) 321.3068	⁸⁰⁷ M-0.1

Www.h2sengineers.com Www.h2sengineers.com Wechanical and Electrical Engineers 4095 E La Palma Ave, Suite F, Anaheim, CA 92807 Ph: (714) 321.3068 E-mail: hsheth@h2sengineers.com



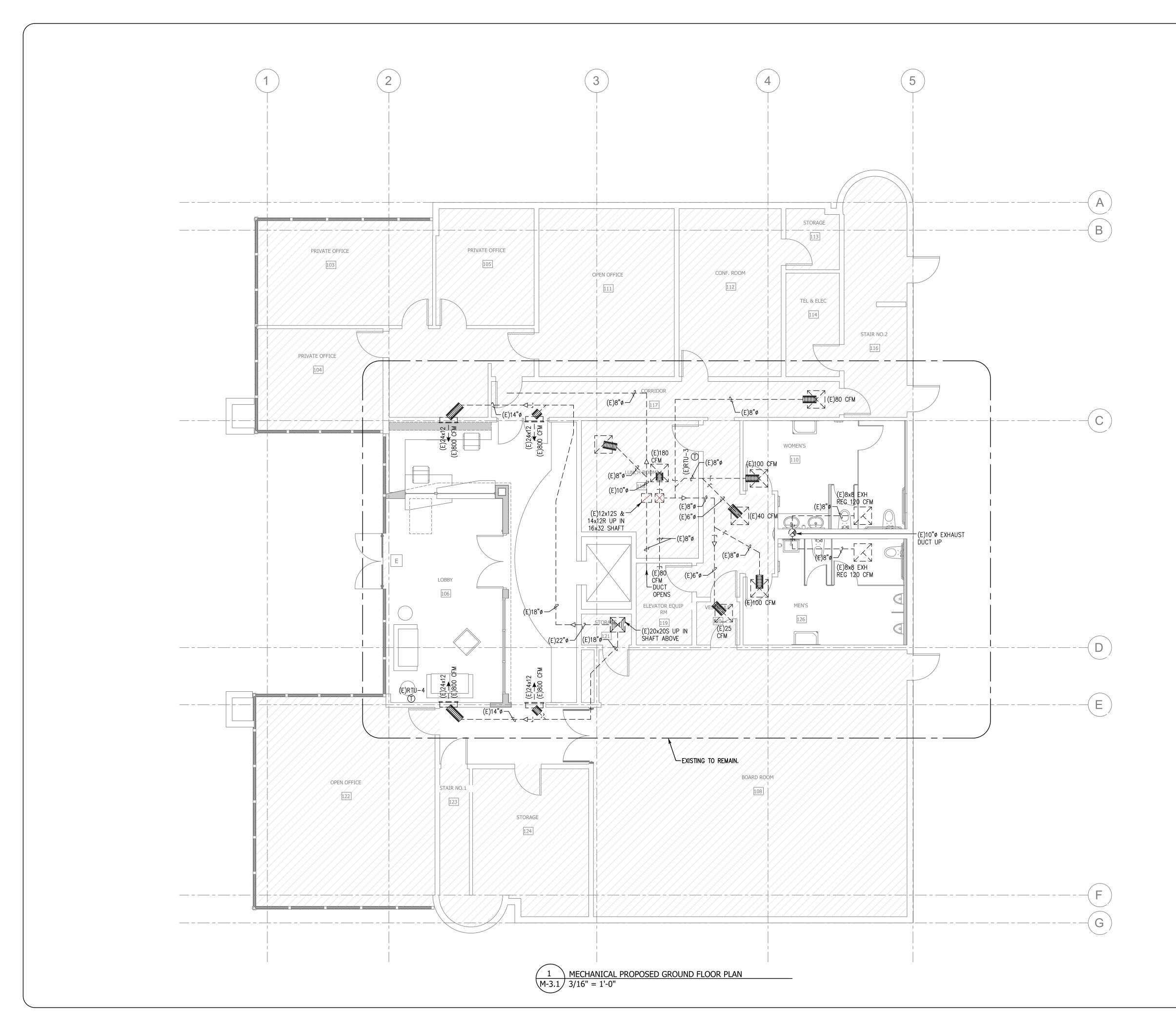
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			JOB NO.: 3903	DRAWN BY: HS	CHECKED BY: HS	SCALE: As indicated	
	MECHANICAL EXISTING GROUND FLOOR PLAN			SAWPA	SANTA ANA WATEPSHED PROJECT ALITHORITY	٢	





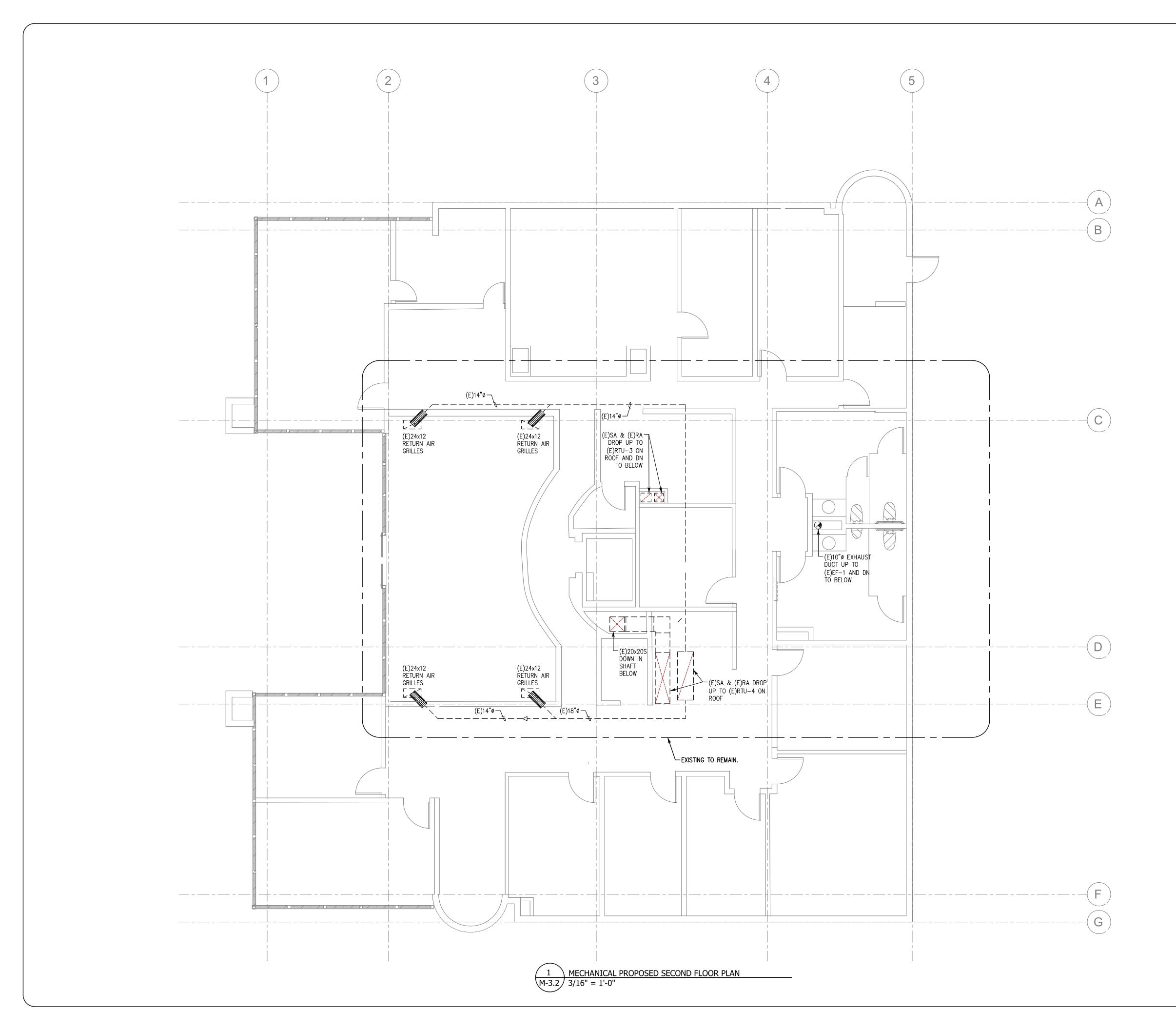
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	AL PROPOSED SECOND FLOOR PLAN				WATEDCHEN DDOTECT ALITHODITY	



F	FIRE ALARM PULL STATION. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.	Ń	SINGLE PHASE FRACTIONAL
FA	FIRE ALARM PULL STATION, VISUAL STROBE LIGHT AND HORN. MOUNT PULL STATION AT +48 INCHES. MOUNT HORN AND LIGHT AT +80 INCHES ABOVE HIGHEST FLOOR LEVEL IN ROOM OR 6 INCHES BELOW		NOTED. TYPE AND CONFIGUE COPPER WOUND, WALL OR E
	CEILING, WHICHEVER IS LOWER.VISUALS SHALL BE 30 CANDELA (75 CD	E	EQUIPMENT WITH "E" ADJAC
	ON AXIS) U.N.O. 15 CD OR 110 CD DEVICES SHALL BE PROVIDED AS PER NFPA 72.	↓ ⊕ _R	Equipment with "r" adjac Disconnected and remove
FATC	FIRE ALARM TERMINAL CABINET.	sM	HP RATED SWITCH
FACP	FIRE ALARM CONTROL PANEL, "FACP". REFER TO SPECIFICATIONS.	3k Sa	SWITCH. LOWER CASE LETT CONTROLLED. CAPITAL SUP
(SD)	PHOTOELECTRIC TYPE SMOKE DETECTOR MOUNTED ON CEILING OR WALL PER DRAWINGS. ASTERISK (*) ADJACENT INDICATES RELAY BASED AND LISTED FOR DOOR CONTROL.		NO SUPERSCRIPT - 2 - 3 -
	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOORS.		4 – I – K –
	CONDUIT RUN EXPOSED.		LC –
	CONDUIT RUN UNDERGROUND.		MC –
	CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.		D –
X X.X	REFERENCE DETAIL NUMBER. "X" INDICATES DETAIL NUMBER AND "X.X" INDICATES SHEET NUMBER.	100AF 70AT	MOLDED CASE CIRCUIT BREA INDICATES AMPERE TRIP RA SUBSCRIPT INDICATES TYPE.
	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #10 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #10 AND ONE #10 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #10. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250-95, BUT NOT SMALLER		NO SUBSCRIPT NA MO CL SS EM
	THAN #10.	→>	- DRAW-OUT TYPE CIRCUIT BI
B−1,3] —0>	CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.	●<< ♥ 3P <u>100AS</u> ↓ 90FU 日	FUSED SWITCH. "AS" INDICATES AMPERE FUSE RA
— <u>↓</u>	ISOLATED GROUND WIRE. RUN IN ADDITION TO REGULAR GROUND WIRE.		
	SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.		VOLTAGE TRANSFORMER. FLU UNLESS SPECIFIED OTHERWIS
	RECESSED BRANCH CIRCUIT PANELBOARD.	4	CURRENT TRANSFORMERS, "
(P1)	PANEL DESIGNATION.		POTENTIAL TRANSFORMER, F
	RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.	∑(M	UTILITY METER SOCKET, WITI COMPANY.
	SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.		GROUND, "GRD".
J	JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.	4	COMBINATION VOICE/DATA (PLATE. ENGRAVE PLATE "VC VERIFY TYPE OF JACK WITH
₽	DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.		1"C.O MIN. FROM DATA JAC REQUIREMENTS WITH AV CO
₽	DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.	X	PANEL NAME.
#	TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.	FD-SD	FIRE AND SMOKE DAMPER
Ф	FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.	GFI	SURFACE MOUNTED EMERGEN PACK. REFER TO LIGHTING F "GROUND FAULT INTERRUPTED
e ⊕	ANY RECEPTACLE INDICATED WITH"IG" ADJACENT SHALL BY ISOLATED GROUND TYPE WITH INDIVIDUAL GROUND WIRE TO PANELBOARD.	GFP	GROUND FAULT INTERROPTE
ы С	DEDICATED RECEPTACLE INDICATED WITH"IG" ADJACENT SHALL BY ISOLATED GROUND TYPE WITH INDIVIDUAL GROUND WIRE TO PANELBOARD.	GFS	GROUND FAULT SENSOR.
R	COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH.		
	COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.		

MBOLS LIST			APPLICABLE CODES		DEMOLITION GENERAL NOTES	PROFESSION
			BUILDING OCCUPANCY CLASSIFICATION:	1. ELEC	CTRICAL CONTRACTOR SHALL INVESTIGATE PROJECT SITE TO DETERMINE ALL	NO. 19876
AL OR INTEGRAL HORSEPOWER MOTOR. & SECONDARY VOLTAGE AND KVA RATING AS		TELEPHONE TERMINAL BACKBOARD "TTB". 3/4 INCH SANDED AND PAINTED CPX PLYWOOD, 4' X 8' UNLESS NOTED OTHERWISE.	THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF: 2022 BUILDING STANDARD ADMINISTRATIVE CODE	CON THO SUB	DITIONS WHICH MAY AFFECT THE EXECUTION OF HIS WORK. E SHALL ROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS, AND BY MITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO FORM HIS WORK. HE SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN	
URATION AS SPECIFIED. PROVIDE DRY TYPE, BOX MOUNTED UNLESS NOTED OTHERWISE.	·	- WALL POWER IN-FEED JUNCTION BOX FOR WORKSTATIONS FOR POWER	2022 CALIFORNIA BUILDING CODE (CBC)	DEM	OLITION AREAS TO ENSURE A SAFE CONDITION. MAINTAIN ELECTRICAL SERVICE TO EXISTING EQUIPMENT, SERVICES AND CIRCUITS AS REQUIRED. SCHEDULING OF	CALIFORN
	│ ॎ ⊸⊸	AND TELEPHONE/DATA. SINGLE GANG TELEPHONE BOX. PROVIDE 1–1/2"CONDUIT AND STUB-UP AT +6" ABOVE CEILING WITH A SUPER	2022 CALIFORNIA ELECTRICAL CODE (CEC)	SER	VICE OUTAGES SHALL BE COORDINATED WITH ARCHITECT AND OWNER.	
CENT IS EXISITNG TO REMAIN.		FLEX CONDUIT., UNLESS OTHERWISE NOTED. VERIFY LOCATION WITH FURNITURE CONTRACTOR.	2022 CALIFORNIA MECHANICAL CODE (CMC)	GAN	ALL COMMUNICATION OUTLETS PROVIDE DOUBLE GANG BACK BOX WITH SINGLE G PLASTER RING. PROVIDE 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH	architecture planning interior hitects, Inc. CALIFORNIA 92626
CENT IS EXISTING TO BE COMPLETELY /ED.	S	WALL MOUNTED OCCUPANCY SENSOR +42"AFF,U.O.N. (SINGLE MANUAL ON/OFF DIMMER SWITCH)	2022 CALIFORNIA PLUMBING CODE (CPC)	NON	BEND AND CONDUIT BUSHING UNLESS OTHERWISE NOTED ON DRAWINGS. FOR -ACCESSIBLE CEILINGS, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE	pl pl forw
LP.	S ab	WALL MOUNTED OCCUPANCY SENSOR +42"AFF,U.O.N. (DOUBLE MANUAL ON/OFF	2022 CALIFORNIA ENERGY CODE		TO NEAREST COMMUNICATION CLOSET. PROVIDE BLANK COVER PLATES FOR ALL SED BOXES.	call call
	ab OS	DIMMER SWITCH) CEILING MOUNTED OCCUPANCY SENSOR	2022 CALIFORNIA FIRE CODE (CFC),		ELBOARD NAME AND CIRCUITS NUMBER ARE BASED ON AS-BUILTS DRAWINGS. TRACTOR SHALL FIELD-VERIFY, AS REQUIRED.	Architects,
TER AT BOTTOM INDICATES OUTLETS PERSCRIPT INDICATES SWITCH TYPE.		CEILING MOUNTED DAYLIGHT SENSOR	FIRE ALARM PERMIT NOTE	4. IN G	ENERAL, THE DEMOLITION PLAN SHOWS ALL EXISTING EQUIPMENT TO BE	
SINGLE POLE SWITCH		FLOOR MOUNTED COMBINATION RECEPTACLE	Contractor shall provide and submit fire alarm safety construction	OR	OVED; HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWINGS NOT THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS, SHALL BE OVED UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL DISCONNECT	
DOUBLE POLE THREE WAY		& TELE/DATA HALF-SWITCHED DUPLEX RECEPTACLE	DOCUMENTS FOR ALL AGENCY PLAN CHECK REQUIREMENTS. APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF THE SYSTEM.INTERCONNECTING WIRING AND	AND	REMOVE ALL EXISTING ELECTRICAL MATERIAL WHICH WILL NOT BE REUSED. SED CONDUITS SHALL BE CUT OFF AND PLUGGED FLUSH WITH SURFACES.	an a
FOUR WAY ILLUMINATED HANDLE	J	JUNCTION BOX FLUSH IN FLOOR	CONDUIT SIZES ARE NOT INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING RACEWAY, WIRING PLANS, VOLTAGE DROP CALCULATION AND COMPLETE	EXIS	TING MATERIAL WHICH IS NOT TO BE REUSED OR IS NOT REQUIRED TO BE VINED BY OWNER SHALL BE REMOVED FROM SITE.	Alstol s
KEYED SWITCH LOCKABLE COVER			ONE LINE DIAGRAM OF THE SYSTEM.		CONNECT AND REMOVE CIRCUITING BACK TO SOURCE OR NEAREST POINT	Gillis
MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION	100AS 🖵	NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.	CONTRACTOR SHALL PROVIDE AS PART OF FIRE ALARM SYSTEM: * CONSTRUCTION DOCUMENT AND SHOP DRAWINGS. * SUBMIT AND SECURE FIRE MARSHAL APPROVAL.		CTICAL TO MAINTAIN ELECTRICAL CONTINUITY OF REMAINING DEVICES, EXTEND DUIT AND CONDUCTORS AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.	
MOMENTARY CONTACT LOW VOLTAGE DIMMER SWITCH	لام <u>100AS</u>	FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.	 SUDMIT AND SECURE FIRE MARSHAL AFFROVAL. FIELD TO VERIFY EXISTING FIRE ALARM DEVICES. ADD AND/OR RELOCATE EXISTING DEVICES TO COMPLY TO NEW SPACE 		HALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND OVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT,	Gillis+Panichapan Architects, Inc. All Rights Reserved
AKER. "AF" INDICATES AMPERE FRAME, "AT"	60AFU	"AFU" INDICATES FUSE AMPERE RATING.	CONFIGURATION.	ETC.	, AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE INSION OF, EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE	This document and the structure depicted h are the copyrighted property of, and may no
ATING AND NUMBER OF POLES AS INDICATED.					TINUITY OF EXISTING EQUIPMENT REMAINING.	reproduced in any form without express written permission of, Gillis+Panicha Architects, Inc.
THERMAL MAGNETIC		ABBREVIATIONS	SCOPE OF WORK	FLUS	TING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED SH WITH FLOOR WHERE EXISTING WALL, ETC., IS REMOVED. REMOVE DUCTORS FROM THIS POINT BACK TO LAST OUTLET REMAINING IN SERVICE.	
NON-AUTOMATIC	AF AFF	AMPERE FRAME RATING OF CIRCUIT BREAKERS ABOVE FINISHED FLOOR	EXISTING RESTROOM TO BE REMODELED TO NEW WITH ALL NEW POWER AND LIGHTING. EXISTING LOBBY ARE TO BE REMODELED TO ADD NEW RECEPTION AREA.	3. WHE	RE EXISTING CIRCUITING IS DISTURBED BY DEMOLITION WORK, THE CONTRACTOR	
MAGNETIC ONLY CURRENT LIMITING	AFU AIC	AMPERE FUSE RATING AMPS INTERRUPTING CAPACITY RATING (RMS SYMMETRICAL)		SHA	LL REWORK AND/OR EXTEND EXISTING CIRCUITING AS REQUIRED TO MAINTAIN TINUITY TO ALL REMAINING LOADS AFFECTED BY CIRCUIT.	
SOLID STATE ELECTRONIC METERING PACKING	AM AMP, A	AMMETER AMPERES			HALL BE THE RESPONSIBILITY FOR THIS CONTRACTOR TO MAINTAIN CONTINUITY OF	
BREAKER.	AS AT AWG	AMPERE SWITCH RATING AMPERE TRIP RATING OF BREAKER AMERICAN WRE GAUGE		BEIN	ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE IG FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF OUTING CONDUIT, WIRING, ETC., AS REQUIRED.	
SREAKER. CATED AMPERE SWITCH RATING, "AFU"	BKR C.	BREAKER CONDUIT		5. ALL	ELECTRICAL FIXTURES, OUTLETS, DEVICES, ETC., THAT ARE REMOVED, SHALL BE	
ATING, NUMBER OF POLES AS INDICATED.	CAB CC CKT	Cabinet Center to center Circuit			OVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE LAST FIXTURE, LET, DEVICE, ETC., REMAINING IN SERVICE.	
	C.O. CU	CONDUIT ONLY COPPER			TING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON PANEL SCHEDULE AS "SPARE".	
OOR MOUNTD, COPPER WOUND, DRY TYPE	DWG E	DRAWNG EXISTING		7. THE	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO	
ISE.	FF FLEX	FINISHED FLOOR FLEXIBLE FLUORESCENT		EQU	OVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED IPMENT THAT THE OWNER REQUESTS IN AN "AS- FOUND" CONDITION. EQUIPMENT	
"C.T.s"	FLUOR FUT GND	FLUORESCENT FUTURE GROUND			I IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE CIFIC EQUIPMENT.	
P.T.s".	HZ J.B.	HERTZ JUNCTION BOX			TING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, PUT IN NO CASE SHALL TING CONDUCTORS BE REUSED.	
ITH C.T.s, CLIPS, ETC., PER SERVING UTILITY	k kV	THOUSAND (KILO) KILOVOLTS		9. IN S	SOME INSTANCES, IT MAY BE NECESSARY FOR THE ELECTRICAL CONTRACTOR TO	
	kW kVA	KILOWATTS KILOVOLT AMPERES KILOWATT-HOURS		SHA	PORARILY RELOCATE, REROUTE, ETC., EXISTING ELECTRICAL EQUIPMENT. THIS LL BE DONE SO THAT THE SYSTEMS IN ALL PHASES (THOSE COMPLETED AND	
	LT, LTS	LIGHT, LIGHTS LIGHTING			SE YET TO BEGIN), ARE IN COMPLETE, OPERABLE, CONDITION AS CONSTRUCTION CEEDS THROUGH EACH PHASE.	
OUTLET. 4S BOX WITH 2 GANG RING AND /OICE" AND "DATA" OVER RESPECTIVE JACKS.	MAX MCB	MAXIMUM MAIN CIRCUIT BREAKER			ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, TELEPHONE, ETC., SHALL COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR	
H SYSTEM SUPPLIER. CONTRACTOR SHALL RUN		MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS		CEIL	ING TO THE SATISFACTION OF THE OWNER.	
CK TO MAIN IDF ROOM. COORDINATE CABLING DNSULTANT.	MT, MTD, MT NO, NOS NTS	G MOUNT, MOUNTED, MOUNTING NUMBER, NUMBERS NOT TO SCALE			LIGHTING FIXTURES REMOVED TO ACCOMPLISH DEMOLITION WORK SHALL BE ISTALLED SIMILAR TO NEW WORK.	
	OC PNL	ON CENTER PANEL			RE EXISTING WALL TO BE REMOVED AND THERE ARE EXISTING CONDUIT FEEDS IN SE WALL, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE	3903 BY: MV
	PNLBD PRI	PANELBOARD PRIMARY		THE	SE CONDUITS, AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING I NEW CONDUITS AND WIRES (MATCH EXISTING), J-BOXES AND EXTENSION OF	
	PWR R REC	POWER REMOVED RECEPTACLE		EXIS	TING CONDUITS WHERE NECESSARY TO MAINTAÍN THE CONTINUITY OF EXISTING IPMENT REMAINING.	
NCY LIGHTING UNIT WITH 90 MIN. EMERGENCY BATTERY	RECPTS	RECEPTACLES REQUIRED				_
FIXTURE SCHEDULE.	SW SYS	SWITCH SYSTEM			SHEET INDEX	
R"	sym Temp Typ	SYMMETRICAL TEMPERATURE TYPICAL			SHEET NAME	_
DEVICE.	UNO W	UNLESS NOTED OTHERWISE WRE		E-0.1 E-0.2	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS ELECTRICAL SPECIFICATIONS	Z ZS
	WP XFMR	WEATHERPROOF TRANSFORMER		E=0.2	SINGLE LINE DIAGRAM AND PANEL SCHEDULES	
	ZD	ZONE DAMPER		E-0.4	LIGHTING FIXTURE SCHEDULE	REVIATIO
				E-0.5	LIGHTING CONTROL DIAGRAM	X E
				E-0.6 E-2.1	T-24 COMPLIANCE FORMS OVERALL DEMOLITION FLOOR PLAN	AU ⁻
				E-3.1	OVERALL PROPOSED FLOOR PLAN	d Be
				E-4.1	ENLARGED PROPOSED POWER PLAN	
				E-4.2	ENLARGED PROPOSED LIGHTING PLAN	AND ICON
						CHED
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E-0.1

PART 1 - GENERAL

- A. SCOPE-SEE SHEET E-0.1 FOR PROJECT SCOPE OF WORK.
- B. CODES, REGULATIONS AND STANDARDS
 - 1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND WITH THE REQUIREMENTS OF THE POWER AND TELEPHONE COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.
 - 2. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:
 - a. NEMA-NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS
 - CEC-CALIFORNIA ELECTRICAL CODE
 - c. UL-UNDERWRITER LABORATORIES INCORPORATED STANDARDS
 - d. ANSI-AMERICAN NATIONAL STANDARDS INSTITUTE
 - e. IEEE-INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - NESC-NATIONAL ELECTRICAL SAFETY CODE
 - g. TITLE 24-CALIFORNIA ENERGY COMMISSION
- C. INSPECTION OF SITE
 - 1.PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NON-COMPLIANCE WITH THIS CONDITION AFTER BIDDING.
- D. GENERAL WORKMANSHIP
 - 1. ALL WORK SHALL BE EXECUTED AND FINISHED IN A PRACTICAL MANNER AND SHALL PRESENT A NEAT AND WORKMANLIKE APPEARANCE WHEN COMPLETED.
 - 2. ALL WORK MUST BE ACCEPTABLE TO THE OWNER. WHERE A DETAILED METHOD OF INSTALLING THE WORK IS NOT SPECIFIED OR INDICATED, INSTALL WORK AS DIRECTED BY THE OWNER.
- E. RELATED WORK BY OTHERS
 - 1. 1.ELECTRICAL DRAWINGS IDENTIFY UTILITY SERVICE REQUIREMENTS FOR POWER, TELEPHONE, AND CABLE TV WITHIN AND UP TO FIVE FEET OUTSIDE THE BUILDING. UTILITY ELECTRICAL SERVICE TRANSFORMER(S), WHERE SHOWN ON THE SITE PLAN, ARE FOR INFORMATION ONLY AND INDICATE THE PREFERRED POINT OF SERVICE. UTILITY CONDUIT SYSTEMS, PULLBOXES, AND OTHER STRUCTURES, WHERE SHOWN ON THE SITE PLAN, ARE ALSO FOR INFORMATION ONLY AND INDICATE THE PREFERRED ROUTING. THE ELECTRICAL CONTRACTOR SHALL REFER TO UTILITY SERVICE DRAWINGS FOR ACTUAL UTILITY SERVICE REQUIREMENTS FOR THIS PROJECT. UTILITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED UTILITY SERVICE DRAWINGS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONTACT AND FOLLOW-UP WITH ALL UTILITY COMPANIES TO OBTAIN BOTH PRELIMINARY AND FINAL DESIGN DRAWINGS FOR THIS PROJECT
 - ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL SERVICE ENTRANCE, MEET ALL POWER COMPANY α. REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
 - THE LOCAL TELEPHONE COMPANY WILL FURNISH AND INSTALL ALL TELEPHONE WIRING AND EQUIPMENT AND WILL MAKE ALL FINAL ELEPHONE CONNECTIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE TELEPHONE SERVICE ENTRANCE, MEET ALL TELEPHONE REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE CABLE SERVICE ENTRANCE, MEET ALL CABLE COMPANY REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
- F. COOPERATION WITH OTHER CONTRACTORS
 - 1. COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE CHECKED WITH THE OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS.
 - 2. CAREFULLY CHECK THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.
 - 3. COORDINATE THE LOCATION OF TRENCHES AND CONDUITS FOR UTILITY SERVICES AND OTHER DISCIPLINES WITH THE GENERAL CONTRACTOR.
- G. MECHANICAL AND ELECTRICAL COORDINATION
 - 1. 1.ANY DEVICE WHICH CARRIES THE FULL LOAD CURRENT OF THE ELECTRICALLY DRIVEN MACHINERY, AS OPPOSED TO THE CONTROL OF INSTRUMENTATION CURRENT IN THE HOLDING COIL. IS A POWER CIRCUIT AND IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CONTROL OR INSTRUMENTATION CIRCUITS CONNECTING HOLDING COILS TO THE CONTROL SYSTEM AS SPECIFIED BY THE MECHANICAL ENGINEER ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
 - 2. THE POWER CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO OPERATE, AND AS REQUIRED BY CODE TO PROTECT AND SERVICE THE UNIT. INCLUDING BRANCH CIRCUIT PROTECTIVE DEVICES. DISCONNECTS. MAGNETIC MOTOR STARTERS WITH RUNNING OVERLOAD AND SINGLE PHASING PROTECTION, MAGNETIC CONTACTORS,
 - 3. THE CONTROL OR INSTRUMENTATION CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO INTERFACE THE ELECTRICAL POWER CIRCUIT WITH THE CONTROL SYSTEM AS SPECIFIED BY THE MECHANICAL ENGINEER INCLUDING CONDUIT, BOXES, CONDUIT FITTINGS, CONDUCTORS, ELECTRIC-PNEUMATIC SWITCHES, PNEUMATIC-ELECTRIC SWITCHES, ELECTRICAL AND PNEUMATIC RELAYS, PNEUMATIC TURING FTC.
 - 4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE 120V DUPLEX RECEPTACLES WITHIN 25 FEET OF ALL ROOF MOUNTED EQUIPMENT, PER CEC 210.63
- H. DRAWINGS
 - 1. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. INFORMATION PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALI E BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. WHERE DISCREPANCIES OR CONFLICTS OCCUR, THE BID SHALL REFLECT THE MOST STRINGENT REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS. ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS
 - 2. 2.UPON COMPLETION OF THE WORK UNDER THESE DRAWINGS AND SPECIFICATIONS THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF MARKED-UP ELECTRICAL DRAWINGS SHOWING THE "AS-BUILT" CONDITION OF THE WORK. BOND PRINTS OF THE DRAWINGS REQUIRED WILL BE FURNISHED BY THE OWNER, FOR THIS PURPOSE.
 - 3. ALL OPERATING INSTRUCTIONS, PARTS LISTS AND SPARE PARTS FOR MATERIAL AND EQUIPMENT FURNISHED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE TURNED OVER TO THE OWNER (THREE COPIES).

- I. SHOP DRAWINGS AND APPROVALS
 - SUBMITTALS SHALL CONSIST OF DETAILED SHOP DRAWINGS, SPECIFICATIONS, BLOCK WIRING DIAGRAMS, "CATALOG CUTS" AND DATA SHEETS CONTAINING PHYSICAL AND DIMENSIONAL INFORMATION, PERFORMANCE DATA, ELECTRICAL CHARACTERISTICS, MATEIRALS USED IN FABRICATION, AND MATERIAL FINISH. CLEARLY INDICATE B ARROWS OR BRACKETS PRECISELY WHAT IS BEING SUBMITTED ON AND THOSE OPTIONAL ACCESSORIES WHICH ARE INCLUDED AND THOSE WHICH ARE EXCLUDED.
 - 2. EACH SUBMITALL SHALL BE ACCOMPANIED SHALL BEAR A STAMP STATING THAT HE SUBMITTAL HAS BE THOROUGHLY REVIEWED BY THE CONTRACTOR AND IS IN FULL COMPLIANCE WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS. COVER LETTERS SHALL LIST IN FULL THE ITEMS AND DATA SUBMITTED. FAILURE TO COMPLY WITH THIS REQUIREMENTS SHALL CONSTITUTE GROUNDS FOR REJECTION OR DATA
 - 3. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL ELECTRICAL EQUIPMENT AND GENERATOR ROOMS, YARDS, AND UTILITY AREAS. MINIMUM SCALE: $1/4^{"}=1'-0"$
 - 4. AS PART OF THE EQUIPMENT SUBMITTALS, THE MANUFACTURER SHALL PROVIDE ANCHORAGE CALCULATIONS FOR FLOOR AND WALL MOUNTED ELECTRICAL EQUIPMENT. STRUCTURAL CALCULATIONS SHALL BE PREPARED AND SIGNED BY REGISTERED STRUCTURAL ENGINEER IN CALIFORNIA.
 - 5. ALL RESUBMITTALS SHALL INCLUDE A COVER LETTER THAT LISTS THE ACTION TAKEN AND REVISIONS MADE TO EVERY DRAWING AND EQUIPMENT DATA SHEET IN RESPONSE TO SUBMITALL REVIEW COMMENTS. FAILURE TO INCLUDE THIS COVER LETTER WILL CONSTITUTE REJECTION OF THE RESUBMITTAL PACKAGE.
 - CONTRACTOR SHALL SUBMIT SHORT CIRCUIT AND COORDINATION STUDIES SIGNED BY A REGISTERED ELECTRICAL ENGINEER. STUDIES SHALL BE PERFORMED IN ACCEPTANCE WITH IEEE GUIDELINES. CONTRACTOR SHALL BE SUBMITTED FOR Architect—engineer review prior to ordering and installing any EQUIPMENT. CONTRACTOR SHALL ENSURE THAT THE ACTUAL FEEDER LENGTHS MATCH STUDIES (REVISE STUDIES IF NECESSARY). SERVICE EQUIPMENT MARKINGS AS REQUIRED PER CEC 110.24 SHALL BE BASED ON CONTRACTOR SUBMITTED
 - SUBMIT CONDUITS; FITTINGS; OUTLET PULL AND JUNCTION BOXES; WIRES; WIRING DEVICES; LIGHTING FIXTURES; LAMPS; BALLASTS; SAFETY SWITCHES; FUSES; TRANSFORMERS; PANELBOARDS; SWITCHBOARDS; CIRCUIT BREAKERS; LIGHTING CONTROL SYSTEM/DEVICES; AND FIRE ALARM SYSTEMS.
- J. SUBSTITUTIONS
 - ALL REQUESTS FOR SUBSTITUTIONS SHALL CONFORM TO THE GENERAL REQUIREMENTS AND PROCEDURE OUTLINED IN DIVISION 1.
 - WHERE ITEMS ARE NOTED AS "OR EQUAL", A PRODUCT OF EQUAL DESIGN, CONSTRUCTION AND PERFORMANCE WILL BE CONSIDERED.
 - 3. SUBSTITUTIONS SHALL BE EQUAL, IN THE OPINION OF THE OWNER'S REPRESENTATIVE, TO THE SPECIFIED PRODUCT.
 - 4. THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL SUPPORT ITS REQUEST WITH SUFFICIENT TEST DATA, PHOTOMETRIC ANALYSIS, DETAILED BREAKDOWN DEFINING COST SAVINGS, AND OTHER MEANS TO PERMIT THE ARCHITECT AND/OR ENGINEER TO MAKE A FAIR and equitable decision on the merits of the proposed substitution. Any ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME OR MODEL NUMBER WILL BE CONSIDERED A SUBSTITUTION. THE ARCHITECT AND/OR ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY, AND ECONOMY TO THAT SPECIFIED.
 - 5. APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE ELECTRICAL CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPOSED SUBSTITUTION.
 - 6. IF ARCHITECT AND/OR ENGINEER REJECTS ELECTRICAL CONTRACTOR'S SUBSTITUTE ITEM ON THE FIRST SUBMITTAL, ELECTRICAL CONTRACTOR MAY MAKE ONLY ONE ADDITIONAL REQUEST FOR SUBSTITUTION IN THE SAME CATEGORY.
 - GUARANTEE & TESTING GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED
 - SYSTEM SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, ELECTRICAL CONTRACTOR SHALL MAKE CORRECTIONS AS NECESSARY AT NO COST TO THE OWNER.

HEREUNDER, SHALL BE CORRECTED AS NECESSARY AT NO COST TO THE OWNER.

L. LABELING

Κ.

- PROVIDE ENGRAVED NAME PLATES ON SWITCHBOARDS. PANEL BOARDS. DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATED (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- M. NOT USED.
- MATERIALS N.
 - 1. ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.
 - 2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- 0. STORAGE AND HANDLING OF MATERIAL
 - 1. DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, AMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. ELECTRICAL CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD
 - 2. ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOBSITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION.
 - ARRANGE FOR TIMELY DELIVERY OF OWNER SUPPLIED MATERIALS AND EQUIPMENT TO THE JOBSITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION
 - 4. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.
 - 5. NO ELECTRICAL WORK SHALL BE INSTALLED IN AREAS WHERE OTHER TRADE'S WORK MIGHT CAUSE PHYSICAL DAMAGE TO WIRES, CONDUIT, EQUIPMENT, BOXES OR FITTINGS UNTIL THE OTHER TRADE'S WORK HAS BEEN COMPLETED. ANY EQUIPMENT OR MATERIALS WHICH BECOME DAMAGED SHALL BE REMOVED AND REPLACED AT NO EXTRA COST TO THE OWNER.

- CLEAN-UP Ρ.
 - KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES "BROOM-CLEAN".
- Q. EXCAVATION, CUTTING AND FITTING
 - PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.
- NOT USED. R.

PART 2 - PRODUCTS AND EXECUTION

- CONDUIT
 - ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED BELOW. GRC MAY BE USED IN ALL AREAS. IMC MAY BE USED IN NDOOR LOCATIONS NOT IN CONTACT WITH EARTH. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS ND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT NOT TO EXCEED 36", AND RECESSED REMOVABLE FLUORESCENT LIGHT FIXTURES NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 36".
 - WHERE THE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN BY DOUBLE LOCKNUTS AND BUSHINGS (GRC AND IMC ONLY). FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS.
 - COVER METALLIC CONDUIT IN CONTACT WITH EARTH OR FILL WITH POLYETHYLENE TAPE SPIRAL WRAPPED, 1/2" LAPPED TO PROVIDE DOUBLE THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS NOT UNDER BUILDINGS ND FEEDER DUCTS SHALL BE INSTALLED PER CEC 300.5, EXCEPT THAT THE BENDS IN CONDUIT LARGER THAN 1" IN DIAMETER SHALL BE MADE WITH GALVANIZED STEEL CONDUIT TREATED AS NOTED ABOVE. MAKE JOINTS WITH COMPOUND TO BE WATERTIGHT.
 - CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED ON DRAWINGS. NO CONDUIT SMALLER THAN 3/4 INCH TRADE SIZE shall be used.
 - PENETRATION THROUGH FLOOR SLABS WHERE SUBJECT TO DAMAGE SHALL BE IN WRAPPED RIGID STEEL. SCHEDULE 40 PVC ELBOWS AND PENETRATIONS MAY BE USED IN SLAB ON GRADE WHERE PENETRATIONS OCCUR IN PROTECTED AREAS (WALLS, ELECTRICAL ROOMS, ETC.).
 - CONDUITS AND OUTLETS SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUIT SHOWN TO BE INSTALLED IN CABINETS, COUNTERS, AND CASEWORK SHALL BE RUN AS DIRECTED BY THE ARCHITECT
 - ALL CONDUIT SERVING ROOF MOUNTED EQUIPMENT AND DEVICES INCLUDING HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES AND DUCT TYPE SMOKE DETECTORS HALL BE ROUTED IN THE CEILING SPACE. CONDUIT SHALL PENETRATE ROOF A EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
 - FLEXIBLE METALLIC AND NON-METALLIC CONDUIT SYSTEMS SHALL HAVE A CODE SIZED COPPER GROUND CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
 - FLEXIBLE METAL CONDUIT/CUT-IN BOXES FOR LOW VOLTAGE SYSTEMS (TEL/DATA) MAY BE USED IN WALL CAVITIES PROVIDED THE INSTALLATION COMPLIES WITH CEC ARTICLE 348. ALL CONDUIT FOR LOW VOLTAGE WIRING SYSTEMS IN NEW WALL PARTITIONS SHALL BE EMT. FLEXIBLE METAL CONDUIT FOR THESE SYSTEMS IS NOT ACCEPTABLE IN NEW WALLS.
 - 10. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 POUND TEST PULL CORD INSTALLED TO FACILITATE INSTALLATION OF FUTURE WIRE.
- FITTINGS B.
 - EMT-FITTINGS AND CONDUIT BODIES SHALL BE STEEL, MALLEABLE IRON OR DIE CAST COMPRESSION OR SET SCREW TYPE.
- 2. IMC AND GRC-SHALL BE STEEL OR MALLEABLE IRON TYPE AND SHALL ENGAGE A MINIMUM OF FIVE (5) THREADS.
- OUTLET, PULL AND JUNCTION BOXES
 - PULL AND/OR JUNCTION BOXES SHALL BE INSTALLED WHEREVER SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE.
- 2. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION AND PULLBOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4-INCH SQUARE, 2 1/8-INCH WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM VALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52050 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK. NUMBER 180 BOXES MAY BE JSED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE
- BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON WITH WATERTIGHT GASKETED COVERS, GRAY METALLIC FINISH. WHERE BOXES ARE NSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.
- BOXES INSTALLED FOR THE ALARM, COMPUTER AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVERPLATES.
- PULL BOXES SHALL BE THE TYPES, SIZE AND DESIGN AS APPROVED BY THE CEC FOR THE CLASS OF INSTALLATION REQUIRED.
- 6. PULL BOXES AND OUTLET BOXES SHALL BE SIZED BY THE ELECTRICAL CONTRACTOR AS REQUIRED BY THE CEC BASED ON NUMBER OF CONDUCTORS, YOKES, STRAPS, ETC., USED IN THE INSTALLATION.
- D. WIRE
- MATCH BUILDING STANDARDS IF APPLICABLE IN AN EXISTING BUILDING CONDITION, UNLESS OTHERWISE FOLLOW THE SPECIFICATIONS BELOW.
- 2. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE 75 DEGREE C TYPE THWN OR XHHW. ALL BRANCH CIRCUIT AND FEEDER WIRING SHALL BE COPPER.
- WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, IDENTIFICATION SHALL BE AS FOLLOWS:

1.	120/2	208V AND 1 PHASE A: PHASE B: PHASE C: NEUTRAL: GROUND:	BLACK. RED. BLUE WHITE.	
).	277/4 •	180V Phase A:	BROWN.	

•	PHASE A:	BROWN.
•	PHASE B:	ORANGE.
•	PHASE C:	YELLOW
•	NEUTRAL:	GRAY.
•	GROUND:	GREEN

- 4. THE WIRE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED.
- 5. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE U.L. APPROVED LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.
- 6. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS LARGER THAN NO. 10 AWG SHALL BE STRANDED.
- 7. NOT USED. 8. HOME RUN SHALL BE DEFINED AS THE PORTION OF THE CIRCUIT FROM THE PANEL TO THE FIRST DEVICE
- WIRING DEVICES
 - SWITCHES: WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES 20A, 120 - 277 VOLT. HUBBELL 1221 (SP), 1222 (DP), 1223 (3-WAY) AND 1224 (4-WAY). DIMMERS SHALL BE SPECIFICATION GRADE WITH PRESET SLIDE CONTROL. COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
 - RECEPTACLES: DUPLEX TYPE OUTLETS SHALL BE HEAVY DUTY, SPECIFICATION GRADE NEMA 5-20R, 20A, 120V GROUNDED TYPE EQUAL TO HUBBELL ISOLATED GROUND OUTLETS SHALL BE EQUAL TO HUBBELL IG5362. SPECIAL APPLICATION RECEPTACLES SHALL BE AS INDICATED ON PLANS AND VERIFIED WITH EQUIPMENT SUPPLIER. COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
- 3. WEATHERPROOF RECEPTACLES: COVERS SHALL BE HUBBELL WPFS26 WITH 5362 DUPLEX OUTLET OR EQUAL.
- 4. GFCI RECEPTACLES: SHALL BE HUBBELL GF5362. GFCI RECEPTACLES SHALL BE USED IN ALL OUTDOOR APPLICATIONS AS WELL AS THOSE PLACED WITHIN 6' OF WATER SOURCE AND ALL OTHER CEC REQUIRED LOCATIONS.
- 5. MOUNTING HEIGHTS: SWITCHES +48 INCHES. RECEPTACLES +18 INCHES COMMUNICATION DEVICES - +18 INCHES. FIRE ALARM DEVICES - AS REQUIRED BY ADA, NFPA 72 OR AUTHORITY HAVING JURISDICTION. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE.
- 6. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
- 7. IN ALL CASES, SWITCHES CONTROLLING LIGHTING ARE TO BE LOCATED ON THE STRIKE SIDE OF DOORS. LOCATIONS INDICATED FOR SWITCHES AND OUTLETS ARE APPROXIMATE. OWNER MAY MAKE MINOR RELOCATIONS AT NO ADDITIONAL CHARGE.
- F. LIGHTING FIXTURES
 - COORDINATE THE FINAL LOCATION OF FIXTURES SHOWN DIAGRAMMATICALLY ON THE DRAWINGS WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES. RELOCATE FIXTURES AS REQUIRED AS PART OF THE WORK UNDER THIS DIVISION IF NEW LOCATION IS WITHIN A FIVE FOOT RADIUS OF LOCATION SHOWN.
 - PROVIDE ALL LIGHTING FIXTURES, WIRED AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE LOCATIONS, MOUNTING REQUIREMENTS AND U.L. LABELING OF ALL FIXTURES PRIOR TO ORDERING. INCLUDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION INCLUDING MOUNTING CLIPS, PLASTER FRAMERS, HANGERS AND HARDWARE IN BASE BID. PROVIDE LAMPS FOR ALL FIXTURES. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS.
 - ADJUSTABLE FIXTURES SHALL BE LOCATED AND PROPERLY AIMED AS DIRECTED BY THE ARCHITECT OR THE LIGHTING DESIGNER.
 - SUPPORT RECESSED FIXTURES FROM CEILING STRUCTURAL SUPPORT PER ADOPTED BUILDING CODES.
- 5. ALL FIXTURES TO BEAR THE UL LABEL. ALL OUTDOOR FIXTURES SHALL BE U.L. LABELED FOR WET OR DAMP LOCATION AS DEFINED BY CEC ARTICLE 100.
- - LAMPS SHALL BE BY THE SAME MANUFACTURER. LAMPS SHALL BE MANUFACTURED BY GE, PHILLIPS OR USHIO.
- H. NOT USED
- SAFETY SWITCHES
- SAFETY SWITCHES SHALL BE GENERAL DUTY TYPE, 250 VOLT FOR 208 VOLT EQUIPMENT AND HEAVY DUTY TYPE, 600 VOLT FOR 480 VOLT EQUIPMENT. SAFETY SWITCHES SHALL HAVE THE NUMBER OF POLES REQUIRED. WIRE TERMINATIONS SHALL BE LISTED AS SPECIFIED BY THE CEC. SAFETY SWITCHES FOR AIR CONDITIONING USE SHALL BE OF THE FUSIBLE TYPE WHERE RECOMMENDED BY EQUIPMENT MANUFACTURER. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND WILL REJECT ALL OTHER TYPES. THE SWITCH SIZE, NUMBER OF POLES AND VOLTAGE RATING SHALL BE AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE TYPE NEMA 3R WEATHERPROOF. ALL SWITCHES SHALL BE LOCKABLE.
- 2. PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- J. FUSES
 - 1. FUSES SHALL BE DUAL ELEMENT TIME DELAY TYPE, AS MANUFACTURED BY BUSSMAN MFG. COMPANY, OR AS INDICATED OR REQUIRED BY THE EQUIPMENT
 - PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE OF FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES." INSTALL IN LOCATION AS DIRECTED BY OWNER.
- K. NOT USED
- L. NOT USED.
- M. NOT USED.

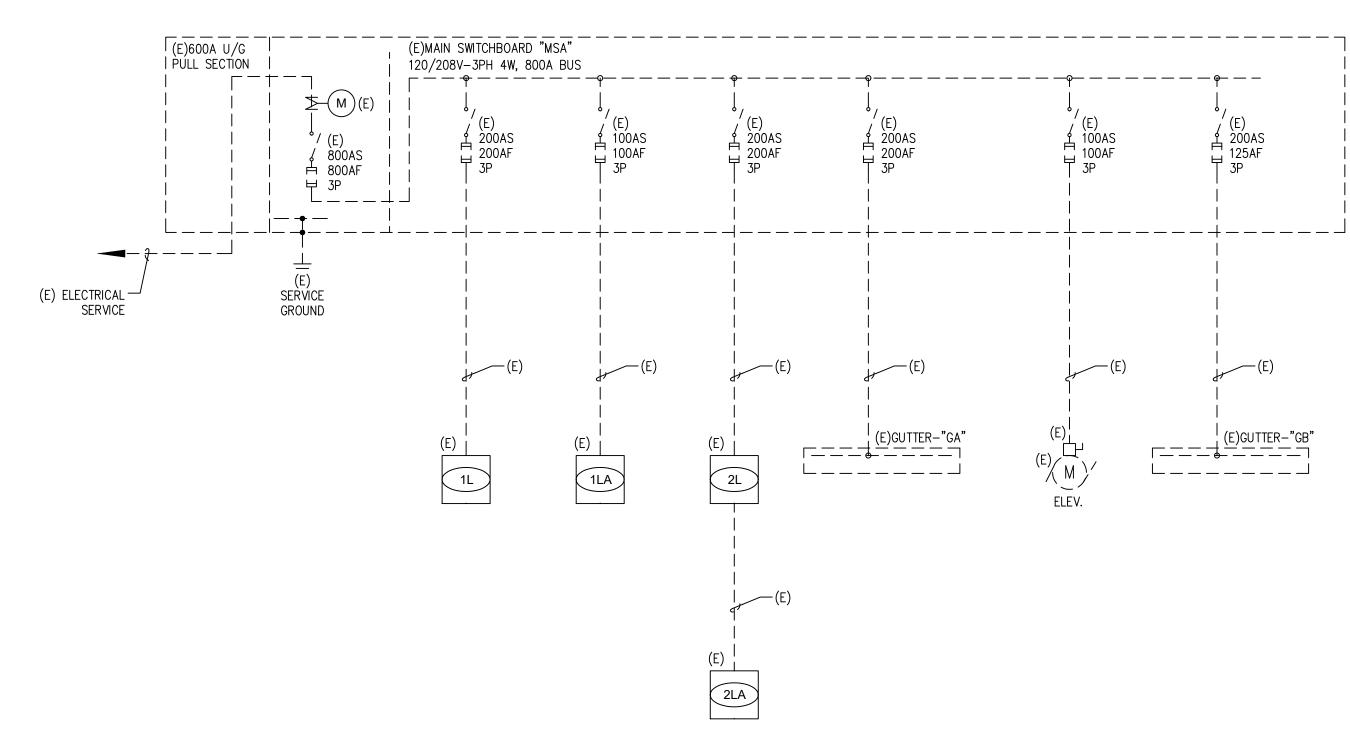
SYSTEM GROUNDING N.

- GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED.
- THE GROUNDED CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE NEC. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS.
- GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL SWITCHBOARDS AND PANELBOARDS. GROUND BUS SHALL BE RETORQUED (CHECKED) PRIOR TO ENERGIZING EQUIPMENT PER MANUFACTURER'S FCOMMENDATIONS
- 4. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, SWITCHBOARDS, PANELBOARDS AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE AND IN TRANSFORMER TERMINAL COMPARTMENTS.
- WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHEN NOT PROVIDED, THEY SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, THE EQUIPMENT GROUND CONDUCTORS, OR THE GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM.
- 6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. EVERY CONDUIT SUPPLYING POWER AND LIGHTING CIRCUITS SHALL HAVE A SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO ENSURE A CONTINUOUS GROUNDING PATH.
- 7. IN INACCESSIBLE LOCATIONS MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS.
- 8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH APPROVED BOLTED BRONZE GROUNDING DEVICES.
- 0. EQUIPMENT CONNECTIONS
 - ALL MOTORS SHALL BE WIRED TO CONFORM WITH MANUFACTURER'S RECOMMENDATIONS AND WITH APPLICABLE CODES. FURNISH NECESSARY MATERIALS, SUCH AS WIRE, CONDUIT, FITTINGS, ETC. REQUIRED TO CONNECT HOWEVER, MOTORS, CONTROLS, ETC. SHALL BE FURNISHED BY THE SUPPLIER OF THE DRIVEN EQUIPMENT. VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE MOTOR BEFORE INSTALLING THE CONDUIT OR OUTLETS.
 - FINAL CONNECTION TO ALL HVAC OR MOTOR LOADS FROM LOAD SIDE OF DISCONNECT SHALL BE MADE USING COPPER WIRE ONLY, ALUMINUM WIRE NOT
- COMMUNICATION SYSTEMS
- 1. FOR ALL COMMUNICATION OUTLETS PROVIDE DOUBLE GANG BACK BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH 90° BEND AND CONDUIT BUSHING UNLESS OTHERWISE NOTED ON DRAWINGS FOR NON-ACCESSIBLE CEILINGS, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR TO NEAREST COMMUNICATION CLOSET. PROVIDE BLANK COVER PLATES FOR ALL UNUSED BOXES.
- PROVIDE 3/4" FIRE RATED PLYWOOD FOR TELEPHONE TERMINAL BACKBOARD AND PAINT TO MATCH WALL SURFACE. REFER TO DRAWINGS FOR DIMENSIONS OF BACKBOARD
- PROVIDE #6 AWG CU GROUND WIRE FROM EQUIPMENT BACKBOARD TO BUILDING SERVICE GROUND.
- LIGHTING CONTROL R.
 - FURNISH AND INSTALL LIGHTING CONTROL PANELS, OVERRIDE SWITCHES, TIME SWITCHES, PHOTOCELLS AND CONTACTORS REQUIRED FOR LIGHTING CONTROL AS INDICATED ON THE DRAWINGS. LIGHTING CONTROL PANEL AND ALL ASSOCIATED COMPONENTS SHALL CONFORM TO ADOPTED ENERGY CODES.
- S. FIRE ALARM SYSTEM
 - FIRE ALARM IS NOT SHOWN ON THESE DRAWINGS. FIRE ALARM IS REQUIRED AS A PART OF THE CONTRACTOR'S SCOPE OF WORK. CONTRACTOR SHALL ENGAGE THE SERVICES OF A STATE LICENSED FIRE ALARM CONTRACTOR FOR THE DESIGN AND INSTALLATION OF A COMPLETE AND OPERABLE FIRE ALARM SYSTEM THA COMPLIES WITH ALL NFPA, CEC AND LOCAL ORDINANCES AND REQUIREMENTS APPROVED BY AUTHORITY HAVING JURISDICTION. SYSTEM DESIGN AND INSTALLATION SHALL BE COMPATIBLE WITH EXISTING SHELL BUILDING AND APPROVED BY LANDLORD PRIOR TO BID. MANUFACTURER OF FIRE ALARM SYSTEM SHALL BE THE SAME MANUFACTURER AS THE SHELL BUILDING UNLESS OTHERWISE APPROVED BY LANDLORD AND AUTHORITY HAVING JURISDICTION. INCLUDE ALL COSTS IN BASE BID.

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		JOB NO.: 3903	DRAWN BY: MV	CHECKED BY: MV	SCALE: As indicated
ELECTRICAL SPECIFICATIONS			SAWPA	CANTA ANA WATEDCHED DDOTECT ALITHODITY	L
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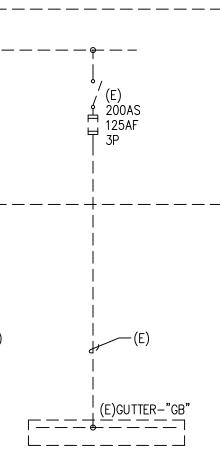




SINGLE LINE DIAGRAM

					E	XIST	ΓΙΝΟ) PA	NEL	'1L	4'						
		E: 208 / 120 PS: 100 A					DEVIC	PHASE: E AMPS	3	MLO							RE: 4 1A: 1
CKT WIRE		LOCATION DESCRIPTION		LOAD (kVA)	LOAD TYPE	TRIP POLE	#	РН	#	TRIP POLE	LOAD TYPE	LOAD (kVA)		LOCATIO	N DESC	RIPTION	
EXISTING		OFFICE RECEPTACLE		0.900	В	20/1	1	Α	2	20/1	В	0.900		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		0.900	В	20/1	3	В	4	20/1	В	0.900		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		1.080	В	20/1	5	С	6	20/1	В	0.540		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		1.440	В	20/1	7	Α	8	20/1	В	1.080		OFFICE	RECEP	TACLE	
3/4"C-2#12CU & 12G	RE	ECEPTION RECEPTACLE	1	0.900	В	20/1	9	В	10	20/1	В	0.800		REF	RIGERA	FOR	
3/4"C-2#12CU & 12G	LOE	BBY CONV. RECEPTACLE	0	1.080	В	20/1	11	С	12	20/1	В	0.900		OFFICE	RECEP	TACLE	
3/4"C-2#12CU & 12G	RE	ESTROOM RECEPTACLE	2	0.540	В	20/1	13	Α	14	20/1	Н	0.100		LOBE	BY DOOF	R (2)	
3/4"C-2#12CU & 12G	AL	JTOMATIC FLUSH VALVE	2	0.500	В	20/1	15	В	16						SPACE		
-		SPACE					17	С	18						SPACE		
-		SPACE					19	Α	20						SPACE		
-		SPACE					21	В	22						SPACE		
-		SPACE					23	C	24						SPACE		
									NALYSIS								
	Load	DESCRIPTION			Demand	CEC 20	22 REF	RENCE	Load	DE	SCRIPTI	NC	Conn.	Demand	CEC 20	022 REF	RENCE
	Туре	l indution of		kVA	kVA	050	Table 00	0.40	Туре		Lingting		KVA	kVA	050	A utila la O	00.00
	A B	Lighting		0.00	0.00		Table 22 Table 22		E	1.5	Heating		0.00	0.00		Article 2	
	B C	Receptacles Kitchen Equipment		12.46 0.00	11.23 0.00		Table 22		F G		rgest Mo her Moto		0.00	0.00		rticle 22 rticle 22	. ,
		Air-Conditioning		0.00	0.00		Table 22		H		ther Load		0.00	0.00		rticle 22	· · /
		se A Connected Load	4,960	kVA	Notes:	UEU		20.00	п			ECTED I		12.56	kVA	34.9	AMPS
		se B Connected Load	4.000	kVA kVA								IAND LC		11.33	kVA kVA	31.4	AMPS
		se C Connected Load	3.600			OAD ATE			0.0	10				11.00	NVA	U1.T	Aivir O
	110		0.000	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1													
			1	1										1			,I

					E	XIST	ΓΙΝΟ	G PA	NEL	'2L	Α'						
	VOLTAG	E: 208 / 120					ļ	PHASE:	3							WIF	RE: 4
	BUS AM	PS: 100 A							: 100 A	MLO						NEN	1A: 1
							MOUN	TING: S	URFACE								
CKT WIRE		LOCATION DESCRIPTION		LOAD (kVA)	LOAD TYPE	TRIP POLE	#	РН	#	TRIP POLE	LOAD TYPE	LOAD (kVA)		LOCATIO			l.
EXISTING		OFFICE RECEPTACLE		1.440	В	20/1	1	Α	2	20/1	В	1.000		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		1.260	В	20/1	3	В	4	20/1	В	0.875		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		1.260	В	20/1	5	С	6	20/1	В	0.920		OFFICE	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		1.080	В	20/1	7	Α	8	30/2	В	1.400		CODIER			
EXISTING		OFFICE RECEPTACLE		1.080	В	20/1	9	В	10	30/2	В	1.400		COFIER	RECEP	TACLE	
EXISTING		OFFICE RECEPTACLE		0.900	В	20/1	11	С	12	20/1	В	1.080		OFFICE	RECEP	TACLE	
-		SPARE				20/1	13	Α	14						SPACE		
-		SPARE				20/1	15	В	16						SPACE		
-		SPARE				20/1	17	С	18						SPACE		
-		SPACE					19	Α	20						SPACE		
-		SPACE					21	В	22						SPACE		
							PANEL	LOAD A	NALYSIS								
	Load	DESCRIPTION			Demand	CEC 20	22 REF	RENCE	Load	DE	SCRIPTI	ON	Conn.	Demand	CEC 2	022 REF	RENCE
	Туре			kVA	kVA				Туре				KVA	kVA			
	A	Lighting		0.00	0.00		Table 22		E		Heating		0.00	0.00	CEC	Article 2	20.60
	B	Receptacles		13.70	11.85		Table 22		F	La	rgest Mo	tor	0.00	0.00		rticle 22	· · /
	С	Kitchen Equipmen	t	0.00	0.00	CEC	Table 22	20.56	G	0	ther Moto	ors	0.00	0.00	CEC A	rticle 22	0.18(A)
	D	Air-Conditioning		0.00	0.00	CEC	Table 22	20.60	Н		ther Load		0.00	0.00	CEC A	rticle 22	0.14(A)
	Pha	ase A Connected Load	4.920	kVA	Notes:					TOT	AL CONN	IECTED I	LOAD	13.70	kVA	38.0	AMPS
		ase B Connected Load	4.615	kVA						TO	TAL DEN	MAND LC	DAD	11.85	kVA	32.9	AMPS
	Pha	ase C Connected Load	4.160	kVA													



EXISITING SWITCHBOARD "MSA"													
VOLTAGE: 208 / 120 BUS AMPS: 800 A A.I.C RATING: 65,000 A				DEVIC	PHASE: E AMPS UNTING:	: 800 A	МСВ						E: 4 A: 1
LOCATION DESCRIPTION	ĺ	LOAD (kVA)	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	L	OCATIO		RIPTION	
		14.670		1	Α	2		4.960					
EXISTING PANEL-1L		15.155	200/3	3	В	4	100/3	4.000		EXISTIN	G PANE	L-1LA	
		14.675		5	С	6		3.600					
		17.036		7	Α	8		15.000					
EXISTING PANEL-2L		13.540	200/3	9	В	10	200/3	15.000		EXISTIN	g gutte	R-GA	
		12.460		11	С	12		15.000					
		9.330		13	Α	14		8.330					
EXISTING ELEVETOR		9.330	100/3	15	В	16	200/3	8.330		EXISTIN	g gutte	R-GB	
		9.330		17	С	18		8.330					
				PANE	LOAD	ANALYSIS	S						
Phase A Connected Load	69.326	kVA					TOTAL (CONNEC	TED LOAD	198.08	kVA	549.8	AMPS
Phase B Connected Load	65.355	kVA					TOTAL	L DEMAN	ID LOAD	189.91	kVA	527.1	AMPS
Phase C Connected Load	63.395	kVA											

					E	=XIS	IIN	G P/	ANEI	_ '1L				
	VOLTAGE: BUS AMPS							PHASE: CE AMPS	: 200 A	MLO				
CKT WIRE	LO	CATION DESCRIPTION	4	LOAD (kVA)	LOAD TYPE	TRIP	#	PH	#	TRIP	LOAD TYPE	LOAD (kVA)		LOCA
EXISTING	0	FFICE LIGHTING EXITS	5.1	1.260	В	20/1	1	A	2	20/1	В	1.260		OFF
EXISTING		OFFICE LIGHTING		1.080	В	20/1	3	В	4	20/1	В	1.080		OFF
EXISTING		OFFICE LIGHTING	-	1.500	В	20/1	5	C	6	20/1	В	1.260		OFF
EXISTING		OFFICE LIGHTING		1.080	В	20/1	7	A	8	20/1	В	1.080		OFF
EXISTING		OFFICE LIGHTING		0.300	В	20/1	9	в	10	20/1	В	0.800	1.00	OFF
EXISTING	1	OFFICE LIGHTING		1.500	В	20/1	11	c	12	20/1	В	1.500		0
EXISTING	WOMEN	S RESTROOM LIGHTI	NG D	0.150	В	20/1	13	A	14	20/1	В	0.850		OF
EXISTING		OFFICE LIGHTING	-	0.700	G	20/1	15	в	16	20/1	В	1.260	1 1	RESTR
EXISTING		OFFICE LIGHTING		0.300	G	20/1	17	c	18	20/1	В	1.500		OFF
EXISTING	MEN'S	RESTROOM LIGHTING		0.150	В	20/1	19	A	20	20/1	Н	0.500	HA	ND DR
EXISTING			•	1.400	В	20/1	21	в	22	20/1	G	0.700		DRI
EXISTING	-	PIV		1.080	В	15/1	23	C	24	20/1	Н	0,500		HAND
EXISTING	Т	ME CLOCK CONTROL	1	1.080	Н	15/1	25	A	26	20/1	В	1,260	-	OFF
EXISTING		TLELEPHONE		1.080	В	15/1	27	в	28	20/1	В	1.360		OFF
	-	SPACE					29	c	30	20/1	В	0.300	-	OFFIC
	-	SPACE			-		31	A	32	20/1	A	1.500		EXTER
-	-	SPACE			-		33	в	34		A	1.035		
-	-	SPACE		-	-	-	35	c	36	20/2	A	1.035		5
	-	011102		4.000	н		37	A	38	20/1	A	0.500		EX
EXISTING		WH-1		4.000	н	50/2	39	B	40	20/1	B	0.360	-	OFF
Entoninto	1.1	miri		4.000	н	00/2		C	40	20/1	B	0.200		OFF
	-			4.000	п		41 DANEI	LOAD A		20/1	D	0.200		ULL
	Load Type	DESCRIPTION		Conn. kVA	Demand kVA	CEC 20		RENCE	Load Type	DE	SCRIPTI	ON	Conn. KVA	Dema kVA
	A	Lighting		4.07	5.09	CEC	Table 2	20.42	E		Heating	200	0.00	0.00
	В	Receptacles		24.65	17.33		Table 2		F		rgest Mo		0.00	0.00
	С	Kitchen Equipmer	nt	0.00	0.00		Table 2		G	-	ther Moto		1.70	1.70
	D	Air-Conditioning	1 1 1 0 7 0	0.00	0.00	CEC	Table 2	20.60	Н		ther Loa		14.08	14.00
		A Connected Load	14.670	kVA	Notes:			O FMOTO	0.015.01			IECTED I		44.50
		B Connected Load C Connected Load	15.155	kVA kVA	1.NEWL		JIIION T	UEXISTIN	IG CIRCUI		HAL DEP	MAND LO	AD	38.19
	ridse	O OUTFICETED LUGU	14.073	ATA.	1									

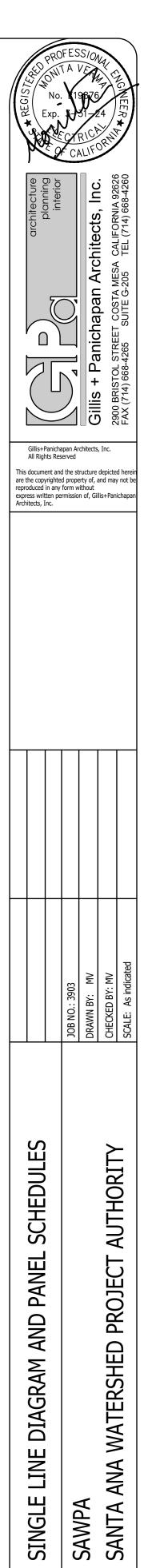
	VOLTAGE:						PHASE:								WIRE: 4	
	BUS AMPS	: 200 A						S: 200 A	MLO						NEMA: 1	
CKT WIRE	LC	OCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP	#	PH	#	TRIP	LOAD TYPE	LOAD (kVA)	-	LOCATIO	ON DESC	CRIPTION	CKT WIRE
EXISTING	0	FFICE LIGHTING EXITS	1.260	В	20/1	1	A	2	20/1	В	1.260		OFFICE	RECE	PTACLE	EXISTING
EXISTING		OFFICE LIGHTING	1.080	В	20/1	3	В	4	20/1	В	1.080				PTACLE	EXISTING
EXISTING		OFFICE LIGHTING	1.500	B	20/1	5	C	6	20/1	B	1.260				PTACLE	EXISTING
EXISTING	-	OFFICE LIGHTING OFFICE LIGHTING	0.300	B	20/1 20/1	7	AB	8	20/1 20/1	B	1.080					EXISTING EXISTING
EXISTING	-	OFFICE LIGHTING	1.500	B	20/1	9 11	C	10	20/1	B	1.500			ICE COF		EXISTING
EXISTING	WOME	N'S RESTROOM LIGHTING	0.150	B	20/1	13	A	14	20/1	B	0.850			CE DISP		EXISTING
EXISTING		OFFICE LIGHTING	0.700	G	20/1	15	в	16	20/1	В	1.260	1	RESTRO	OM REC	EPTACLE	EXISTING
EXISTING		OFFICE LIGHTING	0.300	G	20/1	17	С	18	20/1	В	1.500		OFFICE	E MICRO	DWAVE	EXISTING
EXISTING			0.150	В	20/1	19	A	20	20/1	Н	0.500	HA				3/4"C-2#12CU & 1
EXISTING			1.400	В	20/1	21	В	22	20/1	G	0.700			ING FOU		EXISTING
EXISTING		PIV IME CLOCK CONTROL	1.080	B	15/1 15/1	23	C	24	20/1 20/1	H	0.500				EN'S RR	3/4"C-2#12CU & 1 EXISTING
EXISTING		TLELEPHONE	1.080	B	15/1	25	AB	26	20/1	B	1.260				PTACLE	EXISTING
EXISTING	-	SPACE	1.000	D	13/1	27 29	C	28	20/1	B	0.300	-			SCREEN	EXISTING
	-	SPACE	-	-	-	31	A	32	20/1	A	1.500	1000			LIGHTING	EXISTING
-		SPACE	-	-	-	33	B	34		A	1.035					THETHE
		SPACE				35	с	36	20/2	A	1.035	1.000	SIT	E LIGHT	ING	EXISTING
			4.000	Н		37	A	38	20/1	A	0.500		EXTE	R. BOLL	ARDS	EXISTING
EXISTING		WH-1	4.000	Н	50/2	39	В	40	20/1	В	0.360		OFFICE	RECE	PTACLE	EXISTING
			4.000	H		41	C	42	20/1	В	0.200		OFFICE	RECE	PTACLE	EXISTING
	Load		Conn.	Demand	CEC 20		RENCE	Load				Conn.	Demand	CEC	2022 REFRENCE	
	Туре	DESCRIPTION	kVA	kVA		22 1121	RENOL	Туре	DE	SCRIPTI	ON	KVA	kVA	OLU I		
	A	Lighting	4.07	5.09	1	Table 2		E		Heating		0.00	0.00		CArticle 220.60	1.1
	BC	Receptacles	24.65	17.33		Table 2 Table 2		F		rgest Mo ther Moto		0.00	0.00		Article 220.18(A) Article 220.18(A)	
	D	Kitchen Equipment Air-Conditioning	0.00	0.00		Table 2		H		ther Loa		14.08			Article 220.16(A) Article 220.14(A)	
		A Connected Load 14.67	_	Notes:							ECTED		44.50	kVA	123.5 AMPS	
	Phase						-	NO CIDCUI	TC	TAL DE	MAND LC	AD	38.19	kVA	106.0 AMPS	
	Phase	B Connected Load 15.15 C Connected Load 14.67														
	Phase Phase VOLTAGE:	208 / 120				TIN	G PA		_ '2L						WIRE: 4	
	Phase Phase	208 / 120	5 kVA	E	EXIS		G PASE: CE AMPS	ANEI	_ '2L	•	LOAD					
CKT WIRE	Phase Phase VOLTAGE: BUS AMPS LO	208 / 120 200 A 200 A 200 A	5 kVA	LOAD	TRIP	TIN DEVIC MOUN #	GPA PHASE: CE AMPS TING: S PH	ANEI 3 5: 200 A GURFACE #	L '2L MLO TRIP POLE	LOAD	LOAD (kVA)		LOCATIC	ON DESC	WIRE: 4 NEMA: 1 CRIPTION	CKT WIRE
EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 CCATION DESCRIPTION DFFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260	LOAD TYPE B	TRIP POLE 20/1	TIN DEVIC MOUN # 1	GPA PHASE: CE AMPS TING: S PH A	3 3: 200 A SURFACE # 2	L '2L MLO TRIP POLE 20/1	LOAD TYPE A	(kVA) 1.000			ON DESC	WIRE: 4 NEMA: 1 CRIPTION	EXISTING
EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 CATION DESCRIPTION DFFICE RECEPTACLE DFFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260 1.080	LOAD TYPE B B	TRIP POLE 20/1 20/1	TIN DEVIC MOUN # 1 3	GPA PHASE: CE AMPS TING: S PH A B	ANEI 3 5: 200 A SURFACE # 2 4	L '2L MLO TRIP POLE 20/1 20/1	LOAD TYPE A A	(kVA) 1.000 0.875		LOCATIO	ON DESC ICE LIGH	WIRE: 4 NEMA: 1 CRIPTION HTING HTING	EXISTING EXISTING
EXISTING	Phase Phase VOLTAGE: BUS AMPS LO	208 / 120 CCATION DESCRIPTION DFFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260	LOAD TYPE B	TRIP POLE 20/1	TIN DEVIC MOUN # 1	GPA PHASE: CE AMPS TING: S PH A	3 3: 200 A SURFACE # 2	L '2L MLO TRIP POLE 20/1	LOAD TYPE A	(kVA) 1.000		LOCATIC OFFI OFFI OFFI	ON DESC	WIRE: 4 NEMA: 1 CRIPTION ITING ITING ITING	EXISTING
EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 CATION DESCRIPTION DEFICE RECEPTACLE OFFICE RECEPTACLE OFFICE COPIER	5 kVA LOAD (kVA) 1.260 1.080 1.500	LOAD TYPE B B B B	TRIP POLE 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5	GPASE: CE AMPS TING: S PH A B C	ANEI 3 5: 200 A 5URFACE # 2 4 6	TRIP POLE 20/1 20/1 20/1	LOAD TYPE A A A	(kVA) 1.000 0.875 0.920		LOCATIC OFFI OFFI OFFI	ON DESC ICE LIGH ICE LIGH	WIRE: 4 NEMA: 1 CRIPTION ITING ITING ITING ITING	EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 208 / 120 200 A CATION DESCRIPTION DFFICE RECEPTACLE OFFICE RECEPTACLE OFFICE RECEPTACLE OFFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.080	LOAD TYPE B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7	GPA PHASE: CE AMPS TING: S PH A B C A	ANEI 3 5: 200 A SURFACE # 2 4 6 8	TRIP POLE 20/1 20/1 20/1 20/1	LOAD TYPE A A A A	(kVA) 1.000 0.875 0.920 1.400		LOCATIO OFFI OFFI OFFI OFFI	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH	WIRE: 4 NEMA: 1 CRIPTION HTING HTING HTING HTING HTING HTING	EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 208 / 120 208 / 120 200 A CATION DESCRIPTION DFFICE RECEPTACLE OFFICE RECEPTACLE OFFICE RECEPTACLE OFFICE RECEPTACLE DFFICE RECEPTACLE DFFICE RECEPTACLE DFFICE RECEPTACLE DFFICE RECEPTACLE HAND DRYER HAND DRYER	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500	LOAD TYPE B B B B B B B B B B B B B B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9	GPA PHASE: E AMPS TING: S PH A B C A B C A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386		LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI	ON DESC ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH	WIRE: 4 NEMA: 1 CRIPTION ITING	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 208 / 120 200 A 200 A 207 A 207 A 208 / 120 200 A 207	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 0.700	LOAD TYPE B B B B B B B B B B B C G	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15	GPA PHASE: CE AMPS TING: S PH A B C A B C A B C A B	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340		LOCATIO OFFI OFFI OFFI OFFI OFFI OFFI OFFI	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR	WIRE: 4 NEMA: 1 CRIPTION ITING ITING ITING ITING ITING ITING ITING ITING ITING RNL	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 208 / 120 208 / 120 200 A CATION DESCRIPTION DFFICE RECEPTACLE DFFICE RECEPTACLE OFFICE RECEPTACLE DFFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 0.300 0.300	LOAD TYPE B B B B B B B B B B B B B C G G	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 17	GPA PHASE: E AMPS TING: S PH A B C A B C A B C A B C	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500		LOCATIO OFFI OFFI OFFI OFFI OFFI OFFI OFFI CO	ON DESC ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH ICE LIGH	WIRE: 4 NEMA: 1 CRIPTION 4TING 4TING 4TING 4TING 4TING 4TING 4TING 4TING 4TING 8 NL 8 NL	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LC	208 / 120 208 / 120 208 / 120 208 / 120 200 A CATION DESCRIPTION DEFICE RECEPTACLE DEFICE RECEPTACLE	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 0.300 0.300 1.500	LOAD TYPE B B B B B B B B B B B C G G B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 17 19	GPA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750		LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI CO CO	ON DESC ICE LIGH ICE LIGH	WIRE: 4 NEMA: 1 CRIPTION ITING ITING ITING ITING ITING ITING ITING ITING ITING ITING ITING ITING ITING	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LO () () () ()	208 / 120 208 / 120 200 A 200 FICE RECEPTACLE 200 FICE	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 0.300 1.500 0.300 1.500 0.300 1.500 1.500 1.000	LOAD TYPE B B B B B B B B B B B C G G B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 17 19 21	GPA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A B C A B C A B C A B C A B	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20 22	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750 0.750		LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI OFFI CO CO LOBI	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR RRIDOR BY LIGH BY LIGH	WIRE: 4 NEMA: 1 CRIPTION HTING HTING HTING HTING HTING HTING HTING RNL RNL RNL HTING HTING HTING	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
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EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	Phase Phase VOLTAGE: BUS AMPS LO () () () () () () () () () () () () ()	208 / 120 208 / 120 208 / 120 200 A CATION DESCRIPTION DEFICE RECEPTACLE DEFICE RECEPTACLE OFFICE RECEPTACLE DEFICE RECEPTACLE DEFICE RECEPTACLE DEFICE RECEPTACLE DEFICE RECEPTACLE HAND DRYER HAND DRYER EDF EDF EDF MICROWAVE COFFEE DEFICE RECEPTACLE DEFICE RE	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 0.300 1.500 0.300 1.500 1.500 1.080 1.080 1.080	LOAD TYPE B B B B B B B B G G G G B B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 7 9 11 13 15 17 19 21 23 25 27 29 31	G PA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A B C A B C A B C A B C A B C A A A B C A A A B C A A A B C A A A B C A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A B C C A A B C C A A A A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	L'2L MLO TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A A A A B G G A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750 0.750 0.200 0.360 0.400 0.550 0.800		LOCATIO OFFI OFFI OFFI OFFI OFFI OFFI OFFI CO CO LOBI LOBI TIME CI ROOF	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR RRIDOR BY LIGH LOCK CO RECEP EF-1 ICE LIGH BY LIGH	WIRE: 4 NEMA: 1 CRIPTION ITING	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
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EXISTING EXISTING	Phase Phase Phase UOLTAGE: BUS AMPS LO () () () () () () () () () () () () ()	B Connected Load 15.15 C Connected Load 14.67 208 / 120 14.67 CATION DESCRIPTION 0 OFFICE RECEPTACLE 0 DFFICE RECEPTACLE 0 DFFICE RECEPTACLE 0 DFFICE RECEPTACLE 0 DFFICE RECEPTACLE 0 OFFICE RECE	5 KVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.080 1.080 1.080 1.080 1.080 1.080	LOAD TYPE B B B B B B B B B B B B B B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 PANEL	G PA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 NALYSIS	L'2L MLO TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A A A A B G G A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750 0.750 0.750 0.200 0.360 0.400 0.550 0.800 0.800 4.920 4.615 4.160		LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI CO CO LOBI LOBI TIME CI ROOF	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR BY LIGH BY LIGH BY LIGH SPARE SPARE	WIRE: 4 NEMA: 1 CRIPTION ITING	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING - - - -	Phase Phase Phase UVOLTAGE: BUS AMPS LCC	B Connected Load 15.15 C Connected Load 14.67 208 / 120 200 A CATION DESCRIPTION DFFICE RECEPTACLE OFFICE RECEPTACLE OFFICE RECEPTACLE DFFICE RECEPTACLE SPARE SPACE SPA	5 KVA LOAD (kVA) 1.260 1.080 1.500 1.500 1.500 1.500 0.700 0.300 1.500 1.500 1.500 1.080 1.000 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.080 1.0	LOAD TYPE B B B B B B B B B B B B B B B B B B B	TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 15 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 PANEL	G PA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 NALYSIS Load	L'2L MLO TRIP POLE 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	LOAD TYPE A A A A A A A A A A A A A A A A B G G A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750 0.750 0.750 0.750 0.200 0.360 0.400 0.550 0.800 		LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI CO CO LOBI LOBI TIME CI ROOF	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR BY LIGH BY LIGH BY LIGH SPARE SPARE	WIRE: 4 NEMA: 1 CRIPTION ATING ATINA	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
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EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING - - - -	Phase Phase Phase VOLTAGE: BUS AMPS LLO ((((((((((((((((((B Connected Load 15.15 C Connected Load 14.67 208 / 120 14.67 CATION DESCRIPTION 0 DFFICE RECEPTACLE 0 OFFICE RECEPTACLE 0 OFFICE RECEPTACLE 0 OFFICE RECEPTACLE 0 OFFICE RECEPTACLE 0 DFFICE RECEPTACLE 0 OFFICE RECEPTACLE 0 SPACE SPACE SPACE<	5 kVA LOAD (kVA) 1.260 1.080 1.500 1.080 0.300 1.500 1.500 1.500 1.500 1.500 1.000 1.000 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.080 1.260 1.500 1.080 1.500 1.080 1.500 1.080 1.0	LOAD TYPE B B B B B B B B B B B B B B B B B B B	TRIP POLE 20/1	TIN DEVIC MOUN # 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 25 27 29 31 33 35 37 39 41 PANEL 22 REF Table 2 Table 2	G PA PHASE: E AMPS TING: S PH A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A A A B C C A A B C C A A A B C C A A A B C C A A A B C C A A A B C C A A A A	ANEI 3 5: 200 A SURFACE # 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 NALYSIS E F	La	LOAD TYPE A A A A A A A A A A A A A A A A A A A	(kVA) 1.000 0.875 0.920 1.400 1.400 0.750 1.386 1.340 1.500 0.750 0.750 0.750 0.750 0.200 0.360 0.400 0.360 0.400 0.550 0.800 4.920 4.615 4.160 ON	KVA 0.00 0.00	LOCATIC OFFI OFFI OFFI OFFI OFFI OFFI CO LOBI TIME CI ROOF LOBI TIME CI ROOF LOBI TIME CI ROOF	ON DESC CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH CE LIGH RRIDOR BY LIGH BY LIGH BY LIGH BY LIGH SPARE SPARE SPARE IG PANE CEC 2 CEC	WIRE: 4 NEMA: 1 CRIPTION TING TING TING TING TING TING TING TIN	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING
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PANEL SCHEDULE NOTES:

- 1. U.N.O ALL CIRCUITS TO REMAIN EXISTING WITH EXISTING CIRCUIT BREAKER.
- 2. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANEL "1LA" SHALL MATCH THE HIGHEST EXISTING AIC RATED CIRCUIT BREAKER WITHIN THAT BOARD. INSPECTOR TO VERIFY HIGHEST AIC RATING AT THE SITE.
- 3. CONTRACTOR SHALL VERIFY EXISTING PANEL RATING AND ALL EXISTING LOAD TYPE & WATTAGE AND SUBMIT COMPLETE PANEL DIRECTORY FOR EEOR TO REVIEW BEFORE COMMENCEMENT OF ANY NEW WORK.
- 4. AFTER EEOR APPROVAL, PROVIDE AND PLACE COMPLETE PANEL DIRECTORY ON THE EXISTING PANEL.

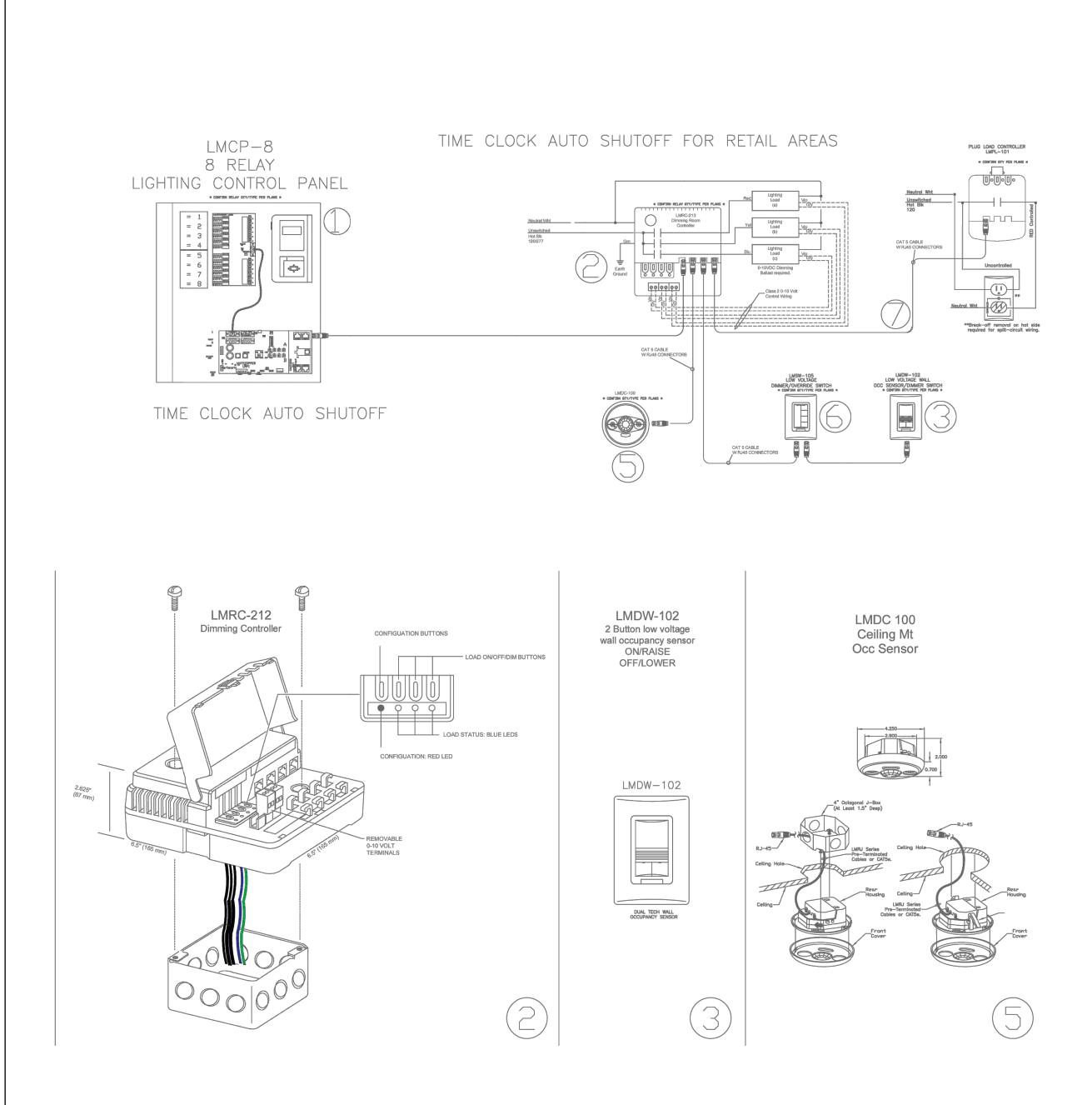




E-0.3

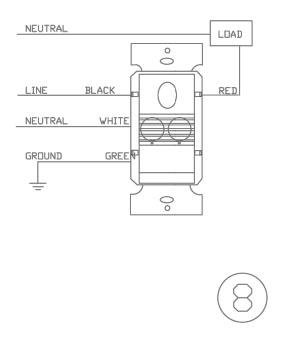
AGLE LED		PROJECT: TYPE:	<u>TYPE-"FX-D"</u>	TYPE-"FX-D1" WITH 4' LENGTH, "FX-D2" WITH 6' LENGTH Submitted by: Date: FINELITE® 0	
rchitectural Outdoor 📕		PO#: COMMENTS:	QTY:	Type: Project: Better Lighting	BL
0 7 📻 🕇				HPX Product Family	
			these popular in a wide variety of	9 9 8	BL ne Diffused 24VDC,
		s, closets, laundry rooms and mo	ost residential areas are just a few	The High Performance 2.5" Aperture (HPX) is a patented LED linear luminaire with a square micro profile and internal driver design. This line of light luminaire delivers excellent	
				performance, and is equipped with a unique LED config- uration for superior illumination. Output can be enhanced	
÷	FEATURES			with advanced optical options. Available in Pendant and Surface Mount, HPX can be tailored from 2' to 12' sections	
	 ADA Compliant Energy Star Listed (El	E11, EE14)		in 1' increments. HPX Pendants includes Knuckle options to create unique geometric shapes.	
	Steel Mounting Pan wLuminous White Acryl	v/ Hi-Reflectance White Powder (lic Diffuser	Coat Finish	This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party	
	 Mounts Directly to 4" CSA Listed Damp Loc 	Junction Box (By Others) cation Wall and Ceiling		verified with options achieving Red List Approved and Red List Declared status.	
	LED Light FixtureL70 > 50,000 hours			Indirect/Direct shown L90 shown	
	Meets FCC Part 15, CTHD:<20%	Class B (consumer) Limit		Signal White is standard finish	
	 Mounting Hardware In Optional Perforated D 			CROSS SECTIONS Indirect/Direct Direct Surface Mount Knuckle	
	 Optional Internal Mot Optional Battery Bac 			Top Glow Diffuser (standard)	
SHES	LINE DRAWING —		LINE DRAWING NOT TO SCALE		
ue Antique Matte er Silver Silver					
		14" FIXTURE BACK BOX OFFSET	BACK BOX OFFSET	Flush Downlight Diffuser Flush Downlight Diffuser Flush Downlight Diffuser 1XP shown	
red Textured Sand				(standard) (standard) (standard) STANDARD KNUCKLES * KNUCKLES WITH ENDCAP	
Bronze				Add 1/4" Endcap to measurement from center of Knuckle to luminaire.	
		[3 1/4" 3 1/2"	60° 90° 120° 135° Straight End Straight Joiner	
e Textured Swedi White Steel		11"	4 3/8"		
			For RAL Colors & Custom		PROJEC
			Match - Contact Teron Lighting Inc.	T-Intersection Y-Intersection Non-uniform X-Intersection Perpendicular 120° Y-Intersection 135°/90° Perpendicular * Each arm field adjustable 10° in either direction for 20° total range of motion.	Solid State Light Surge protectio
		REV	03/09/2023 Ø SEND CUT-SHEET		Lack of surge p
33 DONALI P: 513.858	HTING.COM D DR, FAIRFIELD, OH 45014 8.6004 F: 513.858.6038	BUY AMERICAN SINCE 1979 We reserve the right to revise the des	sign components of any product due to	Image: Non-Structure Non-Structure<	111 - 8838 He P: 1-604-874 Copyright ©
33 DONALI P: 513.858	D DR, FAIRFIELD, OH 45014	BUY AMERICAN SINCE 1979 We reserve the right to revise the des parts availability or change in UL stan		VERAP Contaction of the contact of t	111 – 8838 He P: 1−604-874 Copyright ©
33 DONALE P: 513.858 E: SALES@	D DR, FAIRFIELD, OH 45014 8.6004 F : 513.858.6038	BUY AMERICAN SINCE 1979 We reserve the right to revise the des parts availability or change in UL stan liability to modify any products previo	sign components of any product due to ndards, without assuming any obligation or	Image: Control Available Image: Control Available Protected by one or more US Patents: 8915613; 9881516,B2; D702,390 Page 1 Finelite, Inc 30500 Whipple Road - Union City - Co 494587-1530 - P: 510-441-1500 - F: 510-441-1510 - www.finelite.com © 2023 FINELITE, INC. ALL RIGHTS RESERVED. VIS. CTK0248, 05/23 A brand of Clegrand Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for the most current data. TYPE - "FX - D1" WITH 4' LENGTH, "FX - D2" WITH 6' LENGTH	111 - 8838 He P: 1-604-872 Copyright C
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									PROFESSION	\mathbf{D}
TYPE-"FX-D1" WITH 4' LENGTH, "FX-D2" WITH 6' LENGTH Date: FINELITE®		<u>TYPE-"FX-D4"</u>		LIGHTIN	IG FIXTU	JRE SCH	HEDULE		AND 19876	
The High Performance 2.5" Aperture (HPX) is a patented	Diffused, Flexible, Linear LED Lighting, High O	SPECIFICATIONS - A01 - HT SIDE SI L4 utput Side Light, Silicone, Bend	TYPE FX-D 17	DESCRIPTION LED RECESSED LIGHT PROVIDE 90MINS BATTERY BACKUP OF THE LIGHTS MARKED WITH "EM"	FINISH VERIFY WITH ARCHITECT	LAMP(S) LED	MANUFACTURER & NO. EAGLE LIGHTING #EE11-L17-ZE-UNV-35K	LUMENS/WATTS 70.58 LM/W	CALIFORNIC CALIFORNIC	IFFD- 0
LED linear luminaire with a square micro profile and internal driver design. This line of light luminaire delivers excellent performance, and is equipped with a unique LED config- uration for superior illumination. Output can be enhanced with advanced optical options. Available in Pendant and Surface Mount, HPX can be tailored from 2' to 12' sections in 1' increments. HPX Pendants includes Knuckle options to create unique geometric shapes. This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving Red List Approved and Red List Declared status.		fication \overrightarrow{N}	FX- 6.4 W/FT "FX-D1" WITH 4' LENGTH "FX-D2" WITH 6' LENGTH	LINEAR LED LIGHT	Verify with Architect	LED	FINELITE #HP-X-SM-D-X-S-830-F-120	56 LM/W	Archite	TE G-205 TEL (714) 668-426
L90 shown Tunable W	LED'S Pe Power Beam A Averag Lumens Efficacy	ar Foot 42 LEDs/ft (140 LEDs/m) * 5.03 W/FT Angle 120° e Life 50,000 Hours s * 366-427 lm/FT y * 73-85 lm/W	FX-D4 5.03 W/FT	STRIP LED LIGHT	Verify with Architect	LED	BL LIGHTING #BL_NEONVIEW	85 LM/W	Panichapan	668-4265 SUI
Direct Surface Mount Knuckle	Conned Operati Circuit Mech Housin	bitage 24VDC ut Current 4.12A (White) stions 18AWG, Copper Conductors ing Temperature -40°F to 122°F (-40°C to 50°C) Class 2 class 2 g Construction Injection Moulded White Silicone	$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array}$	NEW LED EXIT SIGN (WITH 90MINS BATTERY BACKUP) TO MATCH EXISTING BUILDING EXIT SIGN	-		_		Gillis+Panichapan Architects, Inc. All Rights Reserved	FAX (714)
-2½" -2½" 4.3/8" -2½" wnlight Diffuser tandard) Flush Downlight Diffuser (standard) 1XP shown KNUCKLES WITH ENDCAP Add 1/4" Endcap to measurement from center of Knuckle	Maximu Medial Environ Mounti Acce NVS BR	Sories SL ** Factory installed termination kit	X1 11 V	EMERGENCY BUG LIGHT-WALL MOUNTED WITH 90MINS BATTERY BACKUP	-	LED	LITHONIA LIGHTING #ELM6L OR APPROVED EQUAL	-	This document and the structure depicted h are the copyrighted property of, and may n reproduced in any form without express written permission of, Gillis+Panich Architects, Inc.	not be
5° Straight End Straight Joiner	NVS BR NVSLBR NVSLBR NVSLBR	CP Surface Mounting Clip CH Surface Mounting Channel RCP Recessed Mounting Clip RCH Recessed Mounting Channel * Please refer to the performance table on the following page **Multiple Lead Orientation options available	$ \begin{array}{c} $	EXISTING PENDANT LIGHT	-	_	-	-		
Non-uniform Intersection 135º/90º X-Intersection Perpendicular Image: State of the section of the section of the section of the most current data. Protected by one or more US Patents: 8015613; 9681516,B2; D702,390 Page 1 Protected by one or more US Patents: 8015613; 9681516,B2; D702,390 Page 1 Oo - F: 510-441-1510 - www.finelite.com ©2023 FINELITE, INC. ALL RIGHTS RESERVED. VIs. CTX0248, 05/23 A brand of Diegrand	PROJECT CLIENT solid state Lighting is sensitive to power fluctuations Surge protection is highly recommended for all LED lighting products and should be on a desk Lack of surge protection may vold your warranty BL LIGHTING. ILLUMINATE EVERYTHING III – 8938 Heather St. Vancouver, BC, Canada, V&P 358 P - F604-#74-405 E: info@billghting.com Copyright © BL INNOVATIVE LIGHTING. All Rights Reserved.	gnated circuit to protect against premature failure For more information, please download the BLUGHTING catalogue BlUghting.com		EXISTING 2X4 LIGHT	-	_	-	-		
<form><form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form></form>	Diffused, Flexible, Linear LED Lighting, 24VDC, Constant Voltage High O Vertice Performance CCT Load 2200K 5.03 1 2700K 5.03 1 3000K 5.03 1 3000K 5.03 1 4000K 5.03 1 3500K 5.03 1 5700K 5.03 1 3500K 5.03 1 4000K 5.03 1 5700K 5.03 1 2700K 5.03 1 5700K 5.03 1 9 3500K 5.03 1 9 700K 5.03 1 9 5700K 5.03 1 9 22 9 22 9 22 22 2200K 22 2200K 27 2700K 30 3000K	Lumens Efficacy Max.Length Cutting Increments Wptr 366 Im/FT 73 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 366 Im/FT 73 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm) W/FT 396 Im/FT 79 Im/W 18 ft 0.5 in 1.97 in (50mm)	 FEATURES & SPECIFICATIONS INTENDED USE — Provides a minimum of 90 minutes ill power to meet and exceed code required emergency lightly unit equipment with quick installation and unparalleled particular in a properties of the power to meet and exceed code required emergency lightly unit equipment with quick installation and unparalleled particular barre for Acrylic-Polycarbonate Compatibility table for CONSTRUCTION — The housing is a standard white (blaa low-profile contemporary design. It is SVA flame rated, imp proof. The UV-stable resin resists discoloration from natural low-profile, integrated and back-lit test switch with an eas back-plate contains a universal j-box mounting pattern to 1 j-boxes and the front housing allows tool-less access for ea The lamp heads have a unique track-and-swivel arrangema aiming. OPTICS — The ELM4L features two high-performance LED total of 640 lumens in a spot pattern (SP640U). The ELM6L features three high-performance LEDs rated at 1,100 lumens in a spot pattern (SP1100L). The typical life of an LED is 10 years. The LED light sources t conditions for normal off applications. ELECTRICAL — Orderable in multiple voltages (see order Current-limiting charger maximizes battery life and minim erg commission Title 20 requirements for small battery of Short-circuit protection — current-limiting charger circuit Regulated charge voltage maintains a stable charge voltag Prevents over/undercharging that shortens battery life. and mizes charge voltage riple and extends battery life. BATTERY: Sealed, maintenance-free nickel-caminum (ELM4 Optional High-Output (H0 option) and Extra High Output (W wide variety of remote capacities and/or extended run-tim SELF-DIAGNOSTICS and RENOTE TEST (SDRT option). Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output t Brownout protection is automatically switched to emergen approx	Ig. Ideal for applications requiring attractive LED fromance for mounting heights from 7.5' to 30. graph of acrylic and/or polycarbonate. Click is suitable uses. Koptional) thermoplastic with a compact and act-resistant, scratch-resistant and corrosion and man-made light sources. There is a ly visible multi-color LED status indicator. The aclitizet ease of installation on a wide variety of se of maintenance. US Patents Pending. Int permitting full range of direction of optical is rated at 3.3 watts per lamp head and delivers a is.3 watts per lamp head and delivers a total of vpically never need to be replaced under normal ing tree for specific voltages.) zes energy consumption to meet California En- arger systems and provides low operating costs. y protects printed circuit board from shorts. e over a wide range of line voltages. reduces capacity. Filtered charger input mini- L only) or Lithium Iron Phosphate battery. HOO option), LIP battery type only, provides a es. hroughout the entire discharge period. cy mode when supply voltage drops below Other input voltages may vary. applied and prevents battery damage from deep st switch and remote tester (ELA LRT accessory for on-demand visual inspection. Standard y, charger failure and displays green flashing	Contemporary Commercial	TYPE-"X1"			JOB NO.: 3903 JOB NO.: 3903 DRAWN BY: MV CHECKED BY: MV	SCALE: As indicated
<form> Image: Space Spa</form>	PROJECT CLIENT Solid State Lighting is sensitive to power fluctuations Surge protection is highly recommended for all LED lighting products and should be on a deel tack of surge protection in highly recommended for all LED lighting products and should be on a deel tack of surge protection is highly recommended for all LED lighting products and should be on a deel tack of surge protection is highly recommended for all LED lighting products and should be on a deel tack of surge protection is highly recommended for all LED lighting products and should be on a deel tack of surge protection for the surge protection for all LED lighting products and should be on a deel tack of surge protection for the surge protection for all LED lighting products and should be on a deel tack of surge protection for the surge protection for all LED lighting products and should be on a deel tack of surge protection for all LED lighting products and should be on a deel tack of surge protection for all LED lighting to for all LED lighting tack of surge protection for all LED lighting to for all LED lighting tack of surge protection for all LED lighting tack of surge protecting tack of surge protecting tack of surge protecti	Err more information places drawnload the	 derangement monitoring will indicate disconnected batter indicator light while in emergency mode. Single multi-chring, lest activation and three-state self-diagnostic. Self-diagnostic testing: Five minutes every 30 days and 90 lamps, A to D C transfer, battery charging and condition of poned for eight hours by activating manual test switch or L INSTALLATION — Wall and celling mount standard. Blin safe maintenance. 7/8" entrance provision at top of unit fo of front cover from back-plate for ease of installation and n LISTINGS — UL damp location listed standard and wel to sory, all at 50-104°F (10-40°C). Meets or exceeds all applica UE safety code). NFPA 70 (NEC), NOM (Norma Oftial Mexi section 1605.3 (W)(4), FCC and OSHA. WARRANTY — 5-year limited warranty. Complete warran www.acuitybrands.com/CustomerResources/Terms and NOTE: Actual performance may differ as a result of end-us All values are design or typical values, measured under lab specifications subject to change without notice. EMERGENCY 	matic LED indicator to display two-state charg- minutes annually. Diagnostic evaluation of microprocessor. Automatic test is easily post- se of remote tester (ELA LRT accessory). I-mate connector ensures easy installation and standard 1/2" conduit entry. Tool-less removal aintenance. Cation listed when used with the WPVS acces- ble requirements for UL 924, NFPA 101 (current ana), California Energy Commission Title 20 Aty terms located at: conditions.aspx er environment and application. ratory conditions at 25 °C.	Length: 13 3/8 (3 Depth: 3 45/64 (9 Height: 5 15/16 (1 Weight: ELMAL 3 Weight: ELMAL 3 Weight: ELMAL 4	39) 5.06) b (1.4kg)		Engineers Inc	LIGHTING FIXTURE SCHEDULE SAWPA SANTA ANA WATERSHED PROJECT AUTHORITY	
							www.h2sengineers.com H2S Mechani 4095 E L Ph: (714) E-mail: hs	Engineers Inc. cal and Electrical Engineers a Palma Ave, Suite F, Anaheim, CA 92807 321.3068 heth@h2sengineers.com	E-0.4	



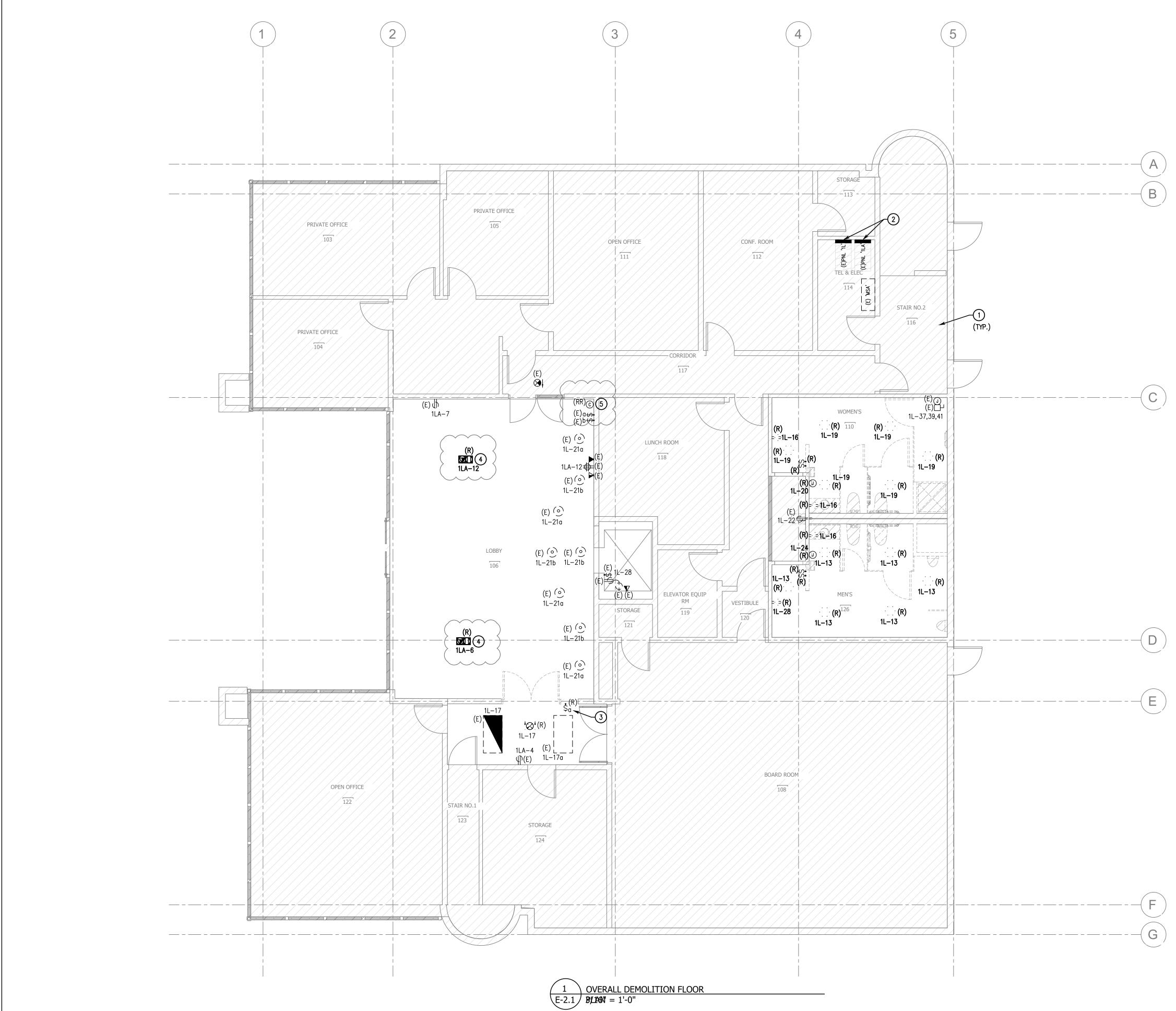
LIGHTING CONTROL DIAGRAM

DSW 100 LINE VOLTAGE SINGLE POLE WALL OCC SENSOR FOR RESTROOMS





			OFFSSIO
state of california Indoor Lighting California ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION	state of california Indoor Lighting CALIFORNIA ENERGY COMMISSION	SE ONITA VERY
CERTIFICATE OF COMPLIANCE NRCC-LTI-E This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for	CERTIFICATE OF COMPLIANCE Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 2 of 8) Date Prepared: 04-11-2023	CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 3 of 8)	No. 19876 BB Exp. 191724
nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities. Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 1 of 8)	Date Prepared: 04-11-2023	Date Prepared: 04-11-2023	Exp. 431-24 30
Project Address:11615 STERLING AVEENUEDate Prepared:04-11-2023	C. COMPLIANCE RESULTS	F. INDOOR LIGHTING FIXTURE SCHEDULE	CALIFOR CALIFOR
A. GENERAL INFORMATION	If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.	
01 Project Location (city) RIVERSIDE 04 Total Conditioned Floor Area (ft ²) 1,221 02 Climate Zone 10 05 Total Unconditioned Floor Area (ft ²) 0	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) Adjusted Lighting Power per 140.6(a) / 170.2(e) Compliance Results Lighting in 01 02 03 04 05 06 07 08 09	Designed Wattage: Conditioned Spaces 01 02 03 04 05 06 07 08 09 10	chitecture planning interior its, Inc. CRIA 92626 14) 668-4260
03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1 • Support Areas • All Other Occupancies • Support Areas • All Other Occupancies	conditioned and unconditioned Area Area spaces must not be Complete Area Category Tailored	Name or Item Complete Luminaire Modular Small Aperture & Watts per Aperture & How is Wattage Total Number Excluded per 140.6(a)3 / Field Inspector	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Tag Description (Track) Fixture Apertate a Color Change ¹ luminaire ² determined of Luminaires 140.0(a)57 170.2(e)2C Design Watts Pass Fail EXISTING-2X4 EXISTING-2x4 No NA 32 Mfr. Spec 2 No 64 □	
B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or	140.6(b)1 / 170.2(e) 170.2(e)4 170.2(e)4Av (+) (Watts) 170.2(e)1B Adjustments (See Table I)	EXISTING- PENDANTEXISTING-PENDANTNoNA35Mfr. Spec8No280□□	D Ar Mes
141.0(b)2 / 180.2(b)4 for alterations. Scope of Work Conditioned Spaces Unconditioned Spaces	Conditioned 818.7 0 = 819 ≥ 817 0 = 819 ≥ 817 0 = COMPLIES Unconditioned </td <td>FX-D FX-D No NA 17 Mfr. Spec 4 No 68 FX-D1 FX-D1 No NA 25.6 Mfr. Spec 6 No 153.6</td> <td>aure 6-2</td>	FX-D FX-D No NA 17 Mfr. Spec 4 No 68 FX-D1 FX-D1 No NA 25.6 Mfr. Spec 6 No 153.6	aure 6-2
01 02 03 04 05 My Project Consists of (check all that apply): Calculation Method Area (ft ²) Calculation Method Area (ft ²)	Controls Compliance (See Table H for Details) COMPLIES Rated Power Reduction Compliance (See Table Q for Details)	FX-D2 FX-D2 No NA 38.4 Mfr. Spec 2 No 76.8 I I FX-D4 FX-D4 No NA 5 Mfr. Spec 35 No 175 I I	
New Lighting System Image: System - Parking Garage		Total Designed Watts: CONDITIONED SPACES 817 ¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F	
Altered Lighting System Area Category Method 1221 Area Category Method 0 Total Area of Work (ft ²) 1221 0 0	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the	S + Pa 14) 668-42
	E. ADDITIONAL REMARKS	luminaire, not the lamp.	
	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.	Gillis+Panichapan Architects, Inc.
			All Rights Reserved This document and the structure depicted herein
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state of california Indoor Lighting California Energy Commission	STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE NRCC-LTI-E	CERTIFICATE OF COMPLIANCE NRCC-LTI-E	CERTIFICATE OF COMPLIANCE NRCC-LTI-E	
Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 4 of 8) Date Prepared: 04-11-2023	Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 5 of 8) Date Prepared: 04-11-2023	Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 6 of 8) Date Prepared: 04-11-2023	
	I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS		
H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.	01 02 03 04 05 06	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.	
Building Level Controls 01 02 03	Area Description Complete Building or Area Category Primary Function Area Allowed Density (W/ft ²) Area (ft ²) Allowed Wattage (Watts) Additional Allowance / Adjustment		
Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Field Inspector Pass Fail	RESTROOM Restroom 0.65 422 274.3 No No RECEPTION Lounge 0.55 99 54.4 No No	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.	
NA < 4,000W subject to multilevel Whole Building Auto Time Switch Image: Controls	LOBBY Main Entry Lobby 0.7 700 490 No TOTALS: 1,221 818.7 See Tables J, or P for detail	Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS	
04 05 06 07 08 09 10 11 12	J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM	This section does not apply to this project.	
Area Description Complete Building or Area Category Primary Function Manual Area Controls Multi-Level Controls Shut-Off Controls Primary/Sky Iit Secondary Interlocked Area Description Category Primary Function Controls Controls 130.1(c) // Daylighting Systems Field Inspector	This section does not apply to this project.	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS	
Area DescriptionCategory Primary Function AreaControls 130.1(a) / 160.5(b)4AControls 130.1(b) / 160.5(b)4B130.1(c) // 160.5(b)4CDaylighting 130.1(d) / 160.5(b)4DSystems 130.1(d) / 160.5(b)4DPredunspector FredunspectorArea130.1(a) / 160.5(b)4A130.1(b) / 160.5(b)4B130.1(c) // 160.5(b)4CDaylighting 130.1(d) / 160.5(b)4DSystems 140.6(a)1/ 160.5(b)4DPredunspector 140.6(a)1/ 160.5(b)4D	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	This section does not apply to this project.	
RESTROOM (MEN'S/WOMEN'S) Restroom Readily Accessible Dimmer Occupancy Sensor NA: General Ltg < 120W NA: General	This section does not apply to this project.	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	
RECEPTION Lounge Readily Accessible Dimmer Auto. Time Switch NA: General Ltg < 120W NA: General Ltg < 120W No II	L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	This section does not apply to this project.	
LOBBY Main Entry Lobby Readily Accessible Dimmer Auto. Time Switch NA: General Ltg < 120W NA: General Ltg < 120W No II	This section does not apply to this project.	T. DWELLING UNIT LIGHTING This section does not apply to this project.	
CORRIDOR Corridor Readily Accessible Dimmer Auto. Time Switch NA: General Ltg < 120W No I	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.		
Plan Sheet Showing Daylit Zones:		U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E.	MV dicated
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project.	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title	JOB NO.: 390 DRAWN BY: CHECKED BY: SCALE: As in
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.		NRCI-LTI-E - Must be submitted for all buildings	JOB N SCALE C
Conditioned Spaces		Constraid Date /Times	
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state of california Indoor Lighting California ENERGY COMMISSION	state of california Indoor Lighting California ENERGY COMMISSION		
CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 7 of 8)	CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: SANTA ANA WATERSHED PROJECT AUTHORITY Report Page: (Page 8 of 8)		
Date Prepared:04-11-2023	Project Address: 11615 STERLING AVEENUE Date Prepared: 04-11-2023		ORI
V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:		
Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	Company: Signature Date: H2S Engineers Inc. 2023–11–04 Address: CEA/ HERS Certification (if applicable):		
Form/Title Systems/spaces to be ried NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. Whole Building Time Switch;	Address: CEX/ Res Certification identification (if applicable): City/State/Zip: Phone: RESPONSIBLE PERSON'S DECLARATION STATEMENT		OJEC
RESTROOM (MEN'S/WOMEN'S);	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.		
RECEPTION; LOBBY; CORRIDOR;	 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) 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. 		S PR
	 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. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable 		SHED P
	inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: MONITA VERMA		ANCE FORM
	Company: H2S ENGINEERS INC. Date Signed: 2023-11-04		
	Address: License: 1124 N BOATSWAIN CIRCLE E19876		AN A
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			Ph: (714) 321.3068 www.h2sengineers.com



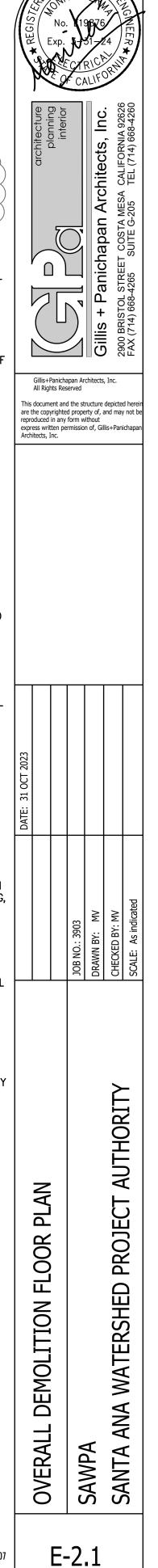
_	SHEET NOTES
	1 hatch area not in scope of work, all existing electrical fixtures to remain.
	(2) EXISTING PANEL TO REMAIN. DISCONNECT & REMOVE DEMOLISH LOAD-MARKED AS "R" FROM THE EXISTING CIRCUIT BREAKER. CONTRACTOR TO ENSURE CIRCUIT CONTINUITY OF OTHER EXISTING NEARBY FIXTURES.
	3 DISCONNECT AND REMOVE EXISTING CONTROL FOR THIS SPACE.
	4 DISCONNECT AND REMOVE EXISTING OUTLET AND PROVIDE A BLANK-PLATE.
	5 DISCONNECT AND RELOCATE EXISTING CAMERA. SEE SHEET E-4.1 FOR NEW LOCATION. PULL NEW CABLE FROM EXISTING HEAD-END EQUIPMENT AS

GENERAL NOTES

1. FIXTURES DENOTES (R) - FIXTURES TO BE REMOVED.

REQUIRED.

- 2. FIXTURES DENOTES (E) FIXTURES TO BE REMAIN EXISTING.
- ELECTRICAL CONTRACTOR SHALL INVESTIGATE PROJECT SITE TO DETERMINE ALL CONDITIONS 3. WHICH MAY AFFECT THE EXECUTION OF HIS WORK. E SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK. HE SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN DEMOLITION AREAS TO ENSURE A SAFE CONDITION. MAINTAIN ELECTRICAL SERVICE TO THE EXISTING EQUIPMENT, SERVICES AND CIRCUITS AS REQUIRED. SCHEDULING OF SERVICE OUTAGES SHALL BE COORDINATED WITH ARCHITECT AND OWNER.
- 4. FOR ALL COMMUNICATION OUTLETS PROVIDE DOUBLE GANG BACK BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH 90° BEND AND CONDUIT BUSHING UNLESS OTHERWISE NOTED ON DRAWINGS. FOR NON-ACCESSIBLE CEILINGS, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR TO NEAREST COMMUNICATION CLOSET. PROVIDE BLANK COVER PLATES FOR ALL UNUSED BOXES.
- 5. PANELBOARD NAME AND CIRCUITS NUMBER ARE BASED ON AS-BUILTS DRAWINGS. CONTRACTOR SHALL FIELD-VERIFY, AS REQUIRED.
- 6. IN GENERAL, THE DEMOLITION PLAN SHOWS ALL EXISTING EQUIPMENT TO BE REMOVED; HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWINGS OR NOT THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS, SHALL BE REMOVED UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL MATERIAL WHICH WILL NOT BE REUSED. UNUSED CONDUITS SHALL BE CUT OFF AND PLUGGED FLUSH WITH SURFACES. EXISTING MATERIAL WHICH IS NOT TO BE REUSED OR IS NOT REQUIRED TO BE RETAINED BY OWNER SHALL BE REMOVED FROM SITE.
- DISCONNECT AND REMOVE CIRCUITING BACK TO SOURCE OR NEAREST POINT PRACTICAL TO 7. MAINTAIN ELECTRICAL CONTINUITY OF REMAINING DEVICES, EXTEND CONDUIT AND CONDUCTORS AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
- 8. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE EXTENSION OF, EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EXISTING EQUIPMENT REMAINING.
- 9. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALL, ETC., IS REMOVED. REMOVE CONDUCTORS FROM THIS POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
- 10. WHERE EXISTING CIRCUITING IS DISTURBED BY DEMOLITION WORK, THE CONTRACTOR SHALL REWORK AND/OR EXTEND EXISTING CIRCUITING AS REQUIRED TO MAINTAIN CONTINUITY TO ALL REMAINING LOADS AFFECTED BY CIRCUIT.
- 11. IT SHALL BE THE RESPONSIBILITY FOR THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING ETC., AS REQUIRED.
- 12. ALL ELECTRICAL FIXTURES, OUTLETS, DEVICES, ETC., THAT ARE REMOVED, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE LAST FIXTURE, OUTLET, DEVICE, ETC., REMAINING IN SERVICE.
- 13. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
- 14. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS- FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
- 15. IN SOME INSTANCES, IT MAY BE NECESSARY FOR THE ELECTRICAL CONTRACTOR TO TEMPORARILY RELOCATE, REROUTE, ETC., EXISTING ELECTRICAL EQUIPMENT. THIS SHALL BE DONE SO THAT THE SYSTEMS IN ALL PHASES (THOSE COMPLETED AND THOSE YET TO BEGIN), ARE IN COMPLETE, OPERABLE, CONDITION AS CONSTRUCTION PROCEEDS THROUGH EACH PHASE.
- 16. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, TELEPHONE, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
- 17. ALL LIGHTING FIXTURES REMOVED TO ACCOMPLISH DEMOLITION WORK SHALL BE REINSTALLED SIMILAR TO NEW WORK.
- 18. WHERE EXISTING WALL TO BE REMOVED AND THERE ARE EXISTING CONDUIT FEEDS IN THESE WALL, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE THESE CONDUITS. AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING WITH NEW CONDUITS AND WIRES (MATCH EXISTING), J-BOXES AND EXTENSION OF EXISTING CONDUITS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EXISTING EQUIPMENT REMAINING.



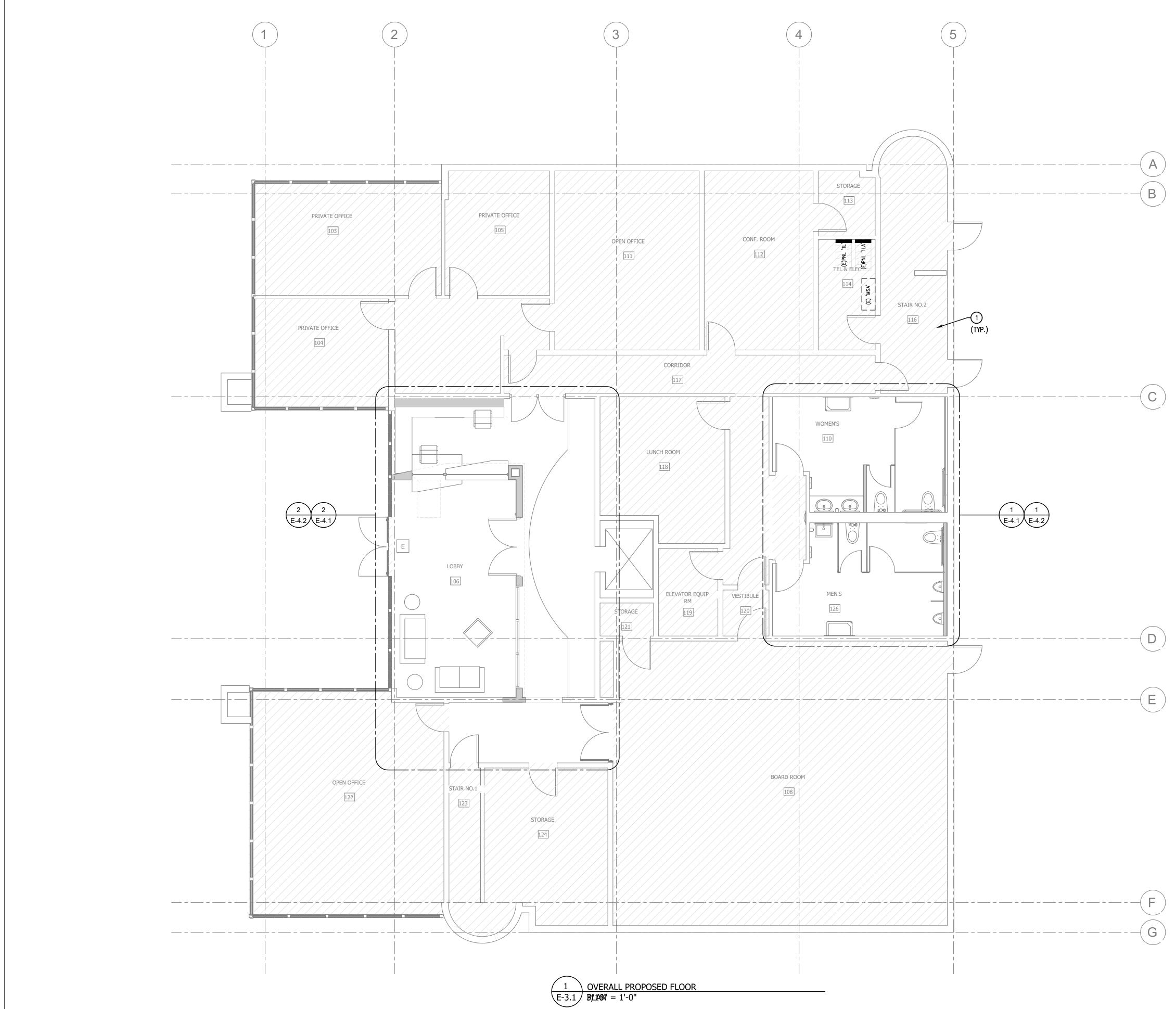


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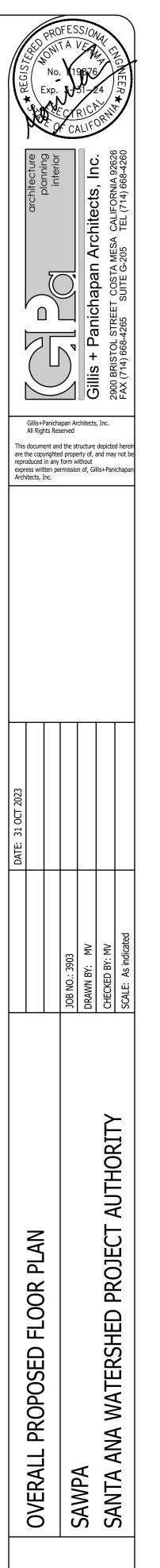
E-mail: hsheth@h2sengineers.com

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SHEET NOTES

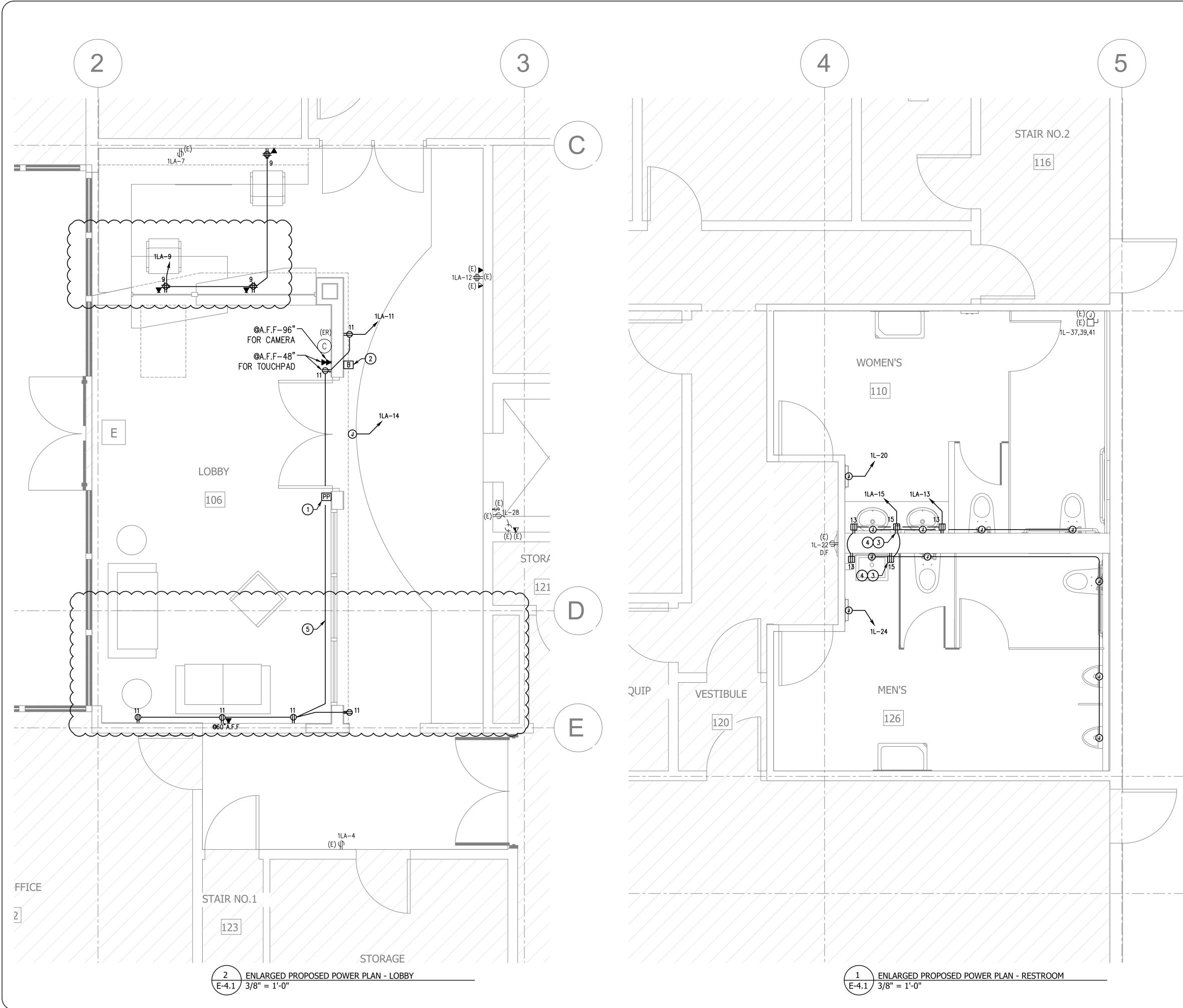
1 hatch area not in scope of work, all existing electrical fixtures to remain.

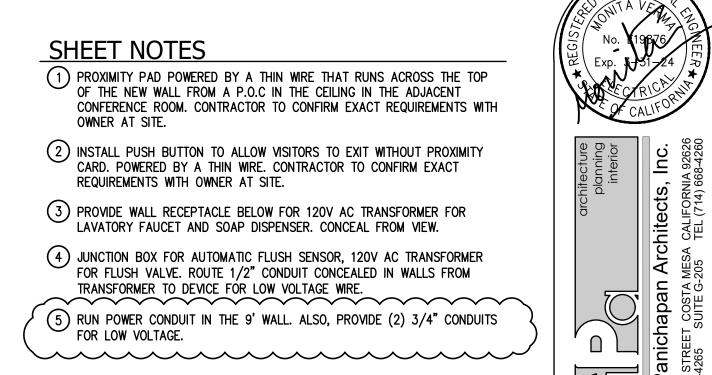


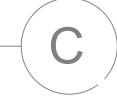


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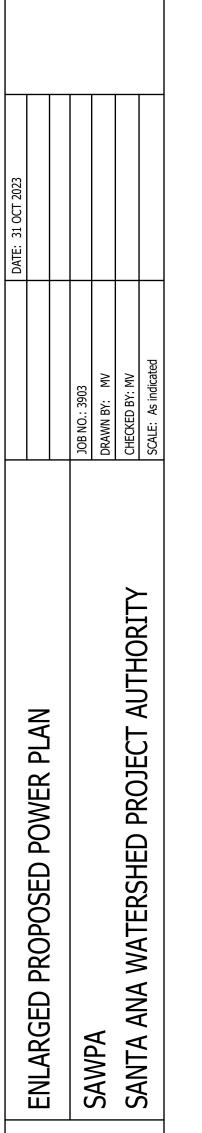
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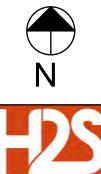


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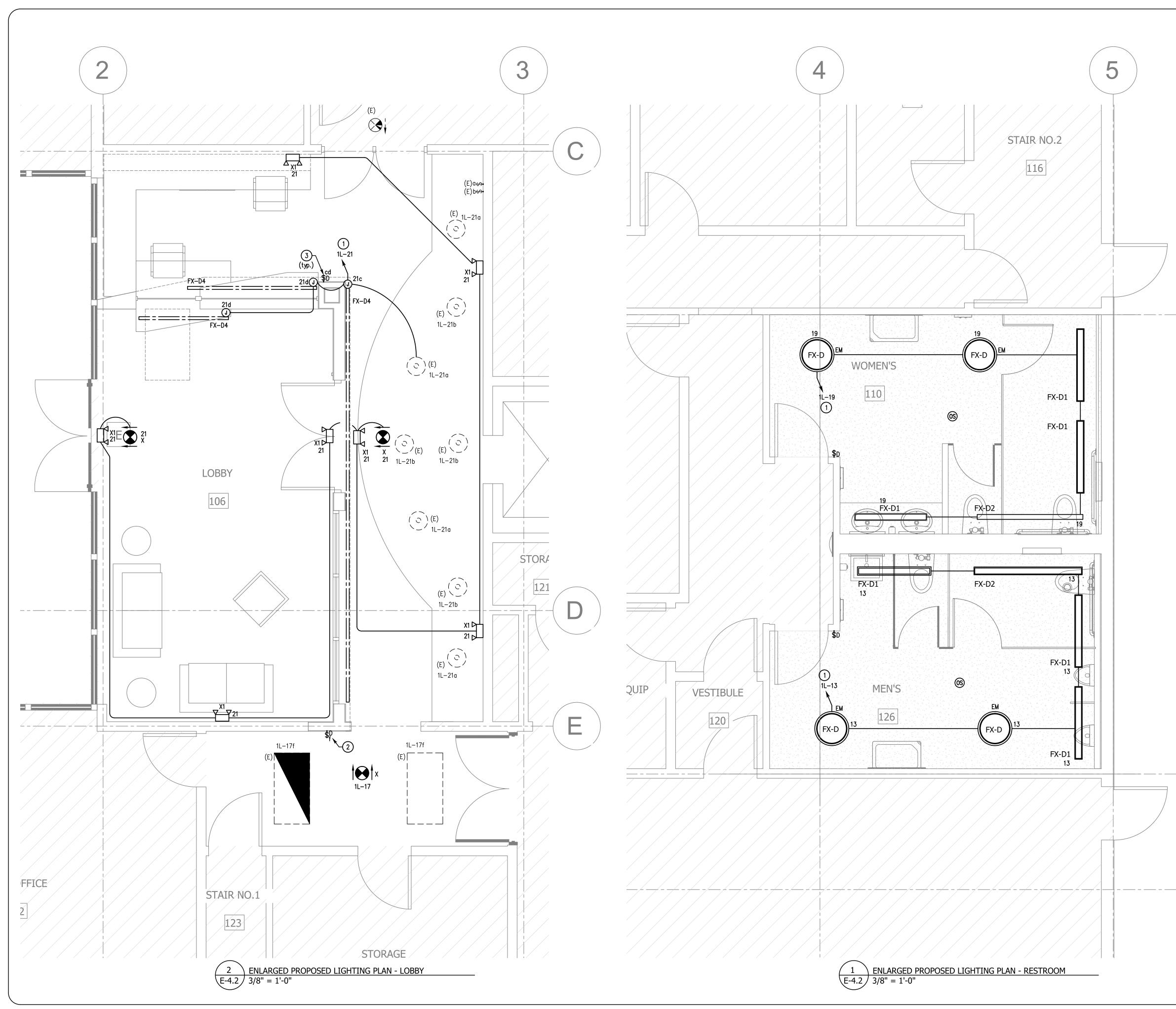
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E-4.1

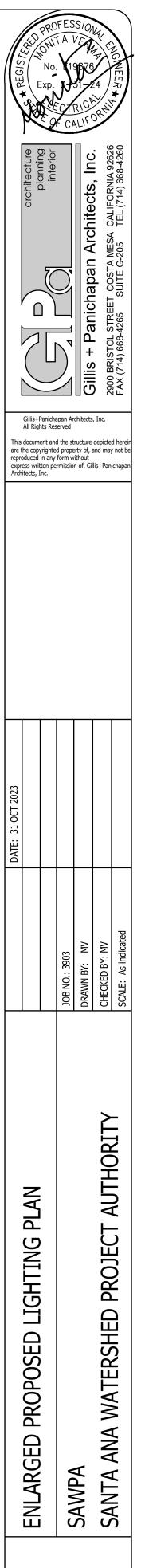


SHEET NOTES

- 1) TO OTHER EXISTING NEARBY LIGHTS IN THE SAME CIRCUIT.
- 2 NEW CONTROL FOR EXISTING LIGHTS.
- 3 LOW VOLTAGE DIMMER SWITCH. REFER TO LIGHTING CONTROL DIAGRAM ON SHEET E0.5 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. LIGHT FIXTURES SHOWN WITH "EM" ARE PROVIDED WITH INTEGRALLY MOUNTED BATTERY BACK-UP FOR 90MIN OF ILLUMINATION UNDER NORMAL POWER LOSS.





D



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E-4.2

GENERAL NOTES

- NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS & LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE OWNER. ANY DEFECTS IN MATERIALS & OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE OWNER.

ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC & CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADA COMPLIANT FIXTURES, EXACT LOCATIONS, MOUNTING HEIGHTS & COLOR.

ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.

TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER THE LISTED PLUMBING CODE AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.

- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- 10. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE STATE ENERGY CODE.

ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.

12. CONTRACTOR TO REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL WASTE, VENT & WATER CONNECTION SIZES AT EACH PLUMBING FIXTURE.

13. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.

- 14. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
- 15. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.

16. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.

- 17. ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
- 18. NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.

19. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.

20. VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/ REPRESENTATIVE.

21. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.

- 22. ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
- 23. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- 24. PIPING LAYOUT IS SCHEMATIC ONLY, EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS.
- 25. NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
- 26. WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
- 27. PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF TURNOVER.
- 28. ALL EXTERIOR EXPOSED WATER PIPING SHALL BE INSULATED AND PVC JACKETED. SEAL JACKET PER MANUFACTURER'S REQUIREMENTS.
- 29. LABEL ALL SHUT-OFF VALVES ABOVE THE CEILING AND IN THE WALL WITH ACCESS DOORS.
- 30. ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURE MATERIAL AND DEVICES USED IN THE PLUMBING SYSTEM SHALL BE LISTED OR THIRD PARTY CERTIFIED BY AN APPROVED LISTING AGENCY AND SHALL CONFORM TO APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THE 2022 CALIFORNIA PLUMBING CODE.
- 31. THE LEAD CONTENT OF THE PIPES. PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
- 32. FLOOR AND TRENCH DRAINS SHALL BE IN ACCORDANCE WITH ASME A112.6.3A. FLOOR SINKS SHALL BE IN ACCORDANCE WITH ASME A112.6.7A.
- 33. GENERAL CONTRACTOR TO VERIFY PRESSURE ON SITE EARLY TO VERIFY IF BOOSTER PUMPS ARE REQUIRED.

34. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX(6) INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.

	ABBREVIATIONS												
A	AIR	CD	CONDENSATE DRAIN		AUTHORITY	FT HD	FEET OF HEAD	ID	INSIDE DIAMETER	OD	OVERFLOW DRAIN		PRESSURE
ABV	ABOVE	CC0	CEILING CLEANOUT	D	DEMOLISH, REMOVE	G	GAS	IN,"	INCH, INCHES	1%	PERCENT	TYP	TYPICAL
AD	ACCESS DOOR,	CFH	CUBIC FEET PER	DEG,	DEGREES	GAL	GALLON, GALLONS	IN WG	INCHES OF WATER	PD	PUMP DISCHARGE	UR	URINAL
	AREA DRAIN		HOUR	DIA,ø	DIAMETER	GI	GREASE		GAUGE		PRESSURE DROP	V	VENT
ADA	AMERICANS WITH	CHW	CHILLED WATER	DN	DOWN		INTERCEPTOR	IV	ISOLATION VALVE	PLBG	PLUMBING	W	WIDTH, WIDE
	DISABILITIES ACT		RETURN	DW	DISH WASHER	GPH	GALLONS PER HOUR	IWH	INSTANTANEOUS	PNEU	PNEUMATIC	WC	WATER CLOSET
AFF	ABOVE FINISHED	CHWS	CHILLED WATER	EFF	EFFICIENCY	GPM	GALLONS PER		WATER HEATER	PRV	PRESSURE	WCO	WALL CLEANOUT
	FLOOR		SUPPLY	EJ	EJECTOR DISCHARGE		MINUTE	KS	KITCHEN SINK		REDUCING VALVE	WM	WASHING MACHINE,
AP	ACCESS PANEL	CLNG	CEILING		FLOOR DRAIN	GR	GAS RANGE	KW	KILOWATTS	PSI	POUNDS PER		WATER METER
ARCH	ARCHITECTURAL		CARBON MONOXIDE	ET	EXPANSION TANK	GW	GREASE WASTE		LENGTH, LONG		SQUARE INCH	W/	WITH
BD	BIDET		COMPARTMENT SINK		EXISTING	GWH	GAS WATER HEATER		LAVATORY	RD	ROOF DRAIN	w/0	WITHOUT
BFP	BACKFLOW		CARBON DIOXIDE		EXPANSION TANK	H	HEIGHT	MBH	THOUSAND BRITISH	SF	SQUARE FEET	ÉŴH	ELECTRIC WATER
	PREVENTER		CIRCULATING PUMP		EXISTING	HB	HOSE BIB		THERMAL UNITS PER	SH	SHOWER		HEATER
BLW	BELOW	CR	COMPUTER ROOM	l F	DEGREES	HS	HAND SINK		HOUR	S00	SEQUENCE OF	WPD	WATER
	BUILDING	AC	AIR CONDITIONER		FAHRENHEIT	HW	HOT WATER		MECHANICAL		OPERATION		PRESSURE DROP
BMS	BUILDING	CT	COOLING TOWER		FLOOR CLEANOUT	HWR	HOT WATER RETURN		MANUFACTURER	SP	STATIC PRESSURE	WSHP	
	MANAGEMENT SYS		COLD WATER		FLOOR DRAIN	HB	HOSE BIB	MS	MOP SINK	SQ F	SQUARE FOOT,		HEAT PUMP
BOD	BASIS OF DESIGN		CONDENSER WATER		FLOOR SINK	HP	HORSEPOWER	N/A	NOT APPLICABLE		SQUARE FEET	WT	WEIGHT
BT	BATHTUB		RETURN		FLOOR	HTG	HEATING	NC	NORMALLY CLOSED		STANDARD	ZN	ZONE
BTU	BRITISH THERMAL	CWS	CONDENSER WATER		FLEXIBLE	HX	HEAT EXCHANGER	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE,		
	UNIT		SUPPLY		FEET PER MINUTE	HZ	HERTZ (CYCLES PER	NFPA	NATIONAL FIRE		TEMPORARY		
BTUH	BRITISH THERMAL		COMMISSIONING		FEET PER SECOND		SECOND		PROTECTION	TP	TRAP PRIMER		
	UNITS PER HOUR	CxA	COMMISSIONING	FT,'	FOOT, FEET		,		ASSOCIATION	TSP	TOTAL STATIC		

GREEN BUILDING CODE REQUIREMENTS (NOT ALL NOTES MAY APPLY)

1. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF LAND SHALL PREVENT THE POLLUTION OF STORM WATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH ONE OR MORE OF THE FOLLOWING MEASURES (SECTION 5.106.1):

A) BEST MANAGEMENT PRACTICES (BMP). PREVENT THE LOSS OF SOIL THROUGH WIND OR WATER EROSION BY IMPLEMENTING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING BMP. SEE SECTION 5.106.1.2 FOR SPECIFICS.

B) LOCAL ORDINANCE.

2. THE SITE GRADING OR A DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. CGBC SECTION 5.106.10.

3. LANDSCAPE IRRIGATION SYSTEMS SHALL BE DESIGNED TO PREVENT SPRAY ON STRUCTURES. EXTERIOR ENTRIES SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN SHALL BI DESIGNED TO PREVENT WATER INTRUSION INTO THE BUILDING. CGBC SECTION 5.407.2.2.1.

. THE CONTRACTOR MUST SUBMIT TO THE ENGINEERING DEPARTMENT OR OTHER AGENCY THAT REGULATES CONSTRUCTION WASTE MANAGEMENT A WASTE MANAGEMENT PLAN THAT OUTLINES THE ITEMS LISTED IN CGBC SECTION 5.408.1.1.

5. A MINIMUM OF 65% OF CONSTRUCTION WASTE IS TO BE RECYCLED. CGBC SECTION 5.408.1.3 DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE. CGBC SECTION 5.408.1.4.

6. 100% OF TREES, STUMPS, ROCKS, AND ASSOCIATED VEGETATION AND SOILS PRIMARILY FROM THE CONSTRUCTION WILL BE REUSED OR RECYCLED. CGBC SECTION 5.408.3.

7. AN IDENTIFIED, READILY ACCESSIBLE AREA SHALL BE PROVIDED THAT SERVES THE ENTIRE BUILDING FOR COLLECTING RECYCLING, SUCH AS PAPER, CARDBOARD, GLASS, PLASTICS, METALS, ETC. CGBC SECTION 5.410.1.

8. A BUILDING "SYSTEMS MANUAL" AS LISTED IN CGBC SECTION 5.410.2.5 SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND THE FACILITIES OPERATOR. THE "SYSTEMS MANUAL" SHALL CONTAIN THE REQUIRED FEATURES LISTED IN CGBC SECTION 5.410.2.5.1.

9. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGBC SECTION 5.504.3.

10. VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 5.504.4 AND TABLES 4.504.1, 5.504.4.1, 5.504.4.2, 5.504.4.3 AND 5.504.4.5 FOR: ADHESIVES, SEALANTS, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CGBC 5.504.4.

11. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, SUCH AREAS ARE PROHIBITED WITHIN 25'OF BUILDING ENTRIES, WINDOWS AND OUTDOOR AIR INTAKES. SIGNAGE SHALL BE POSTED TO INFORM OCCUPANTS OF THE PROHIBITIONS. CGBC SECTION 5.504.7.

12. WALL AND FLOOR ASSEMBLIES SEPARATING TENANT SPACES (AND TENANT SPACES FROM PUBLIC SPACES) SHALL HAVE AN STC OF AT LEAST 40. CGBC SECTION 5.507.4.3.

13. WALL AND ROOF ASSEMBLIES EXPOSED TO NOISE SOURCES SHALL HAVE AN STC RATING OF AT LEAST 50, WITH EXTERIOR WINDOWS HAVING A MINIMUM STC OF 40 IN THE FOLLOWING LOCATIONS, PER CGBC SECTION 5.507.4.1: A) WITHIN THE 65 CNEL NOISE CONTOUR OF A FREEWAY, RAILROAD OR INDUSTRIAL SOURCE,

AS DETERMINED BY THE JURISDICTION'S NOISE ELEMENT OF THE GENERAL PLAN.

B) WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.

14. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS WILL NOT CONTAIN CFC'S OR HALONS, PER CGBC 5.508.1.

15. FOR NEW BUILDINGS, SHOW ON THE SITE UTILITY PLAN SEPARATE SUB-METERS PER CGBC SECTION 5.303.1 FOR THE FOLLOWING: (A) EACH LEASED OR OWNED SPACE THAT CONSUMES MORE THAN 100 GAL/DAY

(B) TENANT SPACES CONTAINING LAUNDRY, CLEANERS, RESTAURANT, MEDICAL/DENTAL OFFICE, LABORATORY OR BEAUTY/BARBER SHOPS.

16. THE FOLLOWING MAXIMUM FIXTURE FLOW RATES FROM TABLE 5.303.2.3 AND SECTION 5.303.3, AS SHOWN BELOW. REVISE GENERAL NOTES, PLUMBING PLANS, ETC. TO MATCH. CGBC 5.303.

MAXIMUM FIXTURE FLOW RATES	
FIXTURE TYPE	MAXIMUM FLOW RATE
LAVATORY FAUCETS-NONRESIDENTIAL	0.5 GPM @60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GALLONS/CYCLE
WATER CLOSETS	1.28 GALLONS/FLUSH
URINALS	0.125 GALLONS/FLUSH

17. A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE THAT CONFORMS TO THE LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE. WHERE NO LOCAL ORDINANCE EXISTS, SHOW COMPLIANCE WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. SEE SECTIONS 492.5 THROUGH 492.9, 492.10 AND 492.11 OF THE STATE ORDINANCE AT HTTTP: //WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/DOCS/WATERORDSEC492.CFM.

18. FOR NEW WATER SERVICE (OR ADDITIONS/ALTERATIONS WITH > 1,000 SQUARE FEET OF CUMULATIVE LANDSCAPED AREA), SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR OUTDOOR POTABLE WATER USE. ALSO, IRRIGATION CONTROLLERS AND SENSORS SHALL BE INSTALLED. CGBC SECTIONS 5.304.2 AND 5.304.3.

19. MECHANICALLY VENTILATED BUILDINGS SHALL PROVIDE REGULARLY OCCUPIED AREAS 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. CGBC SECTION 5.504.5.3. EXCEPTION: EXISTING MECHANICAL EQUIPMENT.

20. PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL WRITTEN VERIFICATION THAT ALL APPLICABLE PROVISIONS FROM THE GREEN BUILDING STANDARDS CODE HAVE BEEN IMPLEMENTED AS PART OF THE CONSTRUCTION. CGBC SECTION 102.3.

APPLICABLE CODES

2022 CALIFORNIA BUILDING CODE

2022 CALIFORNIA ELECTRICAL CODE

- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA ENERGY CODE.
- 2022 CALIFORNIA GREEN BUILDING CODE.

	I	U	UNION
	<u> </u> .	WHA	WATER HAMMER ARRESTER WITH ACCESS PANEL
то		TP	TRAP PRIMER WITH ACCESS PANEL
	·		PIPE UP
BE	c		PIPE DOWN
	÷	FCO	FLOOR CLEAN OUT
	Ø	GCO	GRADE CLEAN OUT
	00	SCO	2-WAY SERVICE CLEAN OUT
	١٢	wco/cco	WALL CLEAN OUT/ CEILING CLEAN
	+-	HB	HOSE BIBB
RE		POC	POINT OF CONNECTION
	•	FD	FLOOR DRAIN
		AP	ACCESS PANEL
	ХХХ		TEXT
-	XXX		ARROW MULTI LEADER
s	×xxx		DOT MULTI LEADER
			LOOP MULTI LEADER
E		POD	POINT OF DISCONNECTION
ом	-1		NEW KEYNOTE ARROW
IG			NEW KEYNOTE LOOP
NG			EQUIPMENT TAG
E,			DEMOLITION KEYNOTE ARROW
			DEMOLITION KEYNOTE LOOP
		FFE	FINISHED FLOOR ELEVATION
		IE	INVERT ELEVATION
		FU	FIXTURE UNIT

PLUMBING LEGEND

DESCRIPTION

RECIRCULATION PUMP

AUTOMATIC AIR VENTING

ABBREVIATION

CP

AAV

SYMBOL

 \bigcirc

<u>_S=2%</u>

PIPE INSULATION THICKNESS

OUT

		CALIFO	RNIA ENERGY CODE	2022 TABLE 12	0.3-A						
FLUID OPERATING	INSULATION (CONDUCTIVITY			NOMINAL PIPE DIAMETER (IN INCHES)						
TEMPERATURE (F)	CONDUCTIVITY (Btu ∙in ∕h ∙ft² •℉)	MEAN RATING TEMPERATURE (°F)		< 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	8 AND LARGER			
	D SERVICE WATER HEATING ERANT, SPACE HEATING, S			ΜΙΝΙΜ	IM PIPE INSULATION	REQUIRED (THICKNES	SS IN INCHES OR R	-VALUE)			
105–140	0.00.0.00 400		INCHES	1.0	1.5	1.5	1.5	1.5			
105-140	0.22-0.28	100 -	R-VALUE	R-7.7	R-12.5	R-11	R-9	R-8			

SLOPE DIRECTION

PIPI	NG MATERIALS	SHEET INDEX				
	DECODIDITION	SHEET NO.	DESCRIPTION			
SYSTEM TYPE	DESCRIPTION	P-0.1	GENERAL NOTES, LEGEND, & SHEET INDEX			
	A: COPPER TUBING: ASTM B88, TYPE L, HARD	P-0.2	CALCULATIONS & SCHEDULES			
	DRAWN.	P-2.1	OVERALL DEMOLITION PLAN			
		P-3.1	OVERALL PROPOSED PLAN			
	1. FITTINGS: ASME B16.18, CAST COPPER ALLOY	P-4.1	ENLARGED PROPOSED PLAN			
	OR ASTM B16.22, WROUGHT COPPER AND BRONZE.	P-5.0	PLUMBING DETAILS			
	2. MECHANICAL PRESS SEALED FITTINGS: NSF/ANSI	P-6.0	PLUMBING RISER DIAGRAM			
DOMESTIC WATER PIPE	61, DOUBLE PRESSED TYPE AND UTILIZING EPDM SEALING ELEMENT. 3. JOINTS: ASTM B32, ALLOY GRADE Sb5 TIN-ANTIMONY, OR ALLOY GRADE Sn95 TIN-SILVER, LEAD FREE SOLDER AWS A5.8 CLASSIFICATION BCuP-3 OR BCuP-4 SILVER BRAZED.					
SANITARY SEWER PIPE	A: CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE EIGHT 1. FITTINGS: CAST IRON, CISPI 301 2. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.					
VENT PIPE(PLASTIC)	1. BELOW AND ABOVE GRADE INSIDE BUILDING SCHEDULE 40 PVC ASTM D2665. UNDERGROUND INSTALLATION MUST COMPLY WITH ASTM-D2321.		H2S Engineers Inc			

SYMBOL	ABBREVIATION	DESCRIPTION	No M34799
	S	SANITARY WASTE	
	v	SANITARY VENT	HANICH HANICH
	С₩	DOMESTIC COLD WATER	AW
	нพ	DOMESTIC HOT WATER	architecture planning interior scts, Inc.
	HWR	DOMESTIC HOT WATER RETURN	
G	G	LOW PRESSURE GAS	Chite
MPG	MPG	MEDIUM PRESSURE GAS (5 PSI)	Gillis + Panichapan Architects, Inc.
CD	CD	CONDENSATE DRAIN	
SD	S	STORM DRAIN	☐ ſ □ ́ □ [[5]
OD	OD	OVERFLOW STORM DRAIN	
	VTR	VENT THRU ROOF	
¥	SOV	VERTICAL SHUT-OFF VALVE	
——×——	SOV	SHUT-OFF VALVE	Gillis+Panichapan Architects, Inc. All Rights Reserved
X	PRV	PRESSURE REDUCING VALVE	This document and the structure depicte are the copyrighted property of, and may reproduced in any form without express written permission of, Gillis+Pan
Ŷ		PRESSURE GAUGE	Architects, Inc.
		THERMOMETER	
б	BAV	BALL VALVE	-
₹	сv	CHECK VALVE	-
g	BV	BALANCING VALVE	-
-		GAS COCK	
<u>X</u>	TMV	THERMOSTATIC MIXING VALVE	
		SHUTOFF VALVE IN YARD BOX	7
		SHUTOFF VALVE IN YARD BOX -SITE PLAN	
>		FLOW DIRECTION	7
		FLOOR SINK	7
~		CONTINUATION	7
œ—		TRAP	7
	IWH	INSTANTENEOUS WATER HEATER	┨ ┝┼┼┼┼┼



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				VAL	VE	S SCHI	EDULE			
MARK	MAKE	MODEL	SERVICE	LOCATION	QTY	TYPE	FLOW GPM	PIPE SIZE	VALVE SIZE	
<u>TMV-1</u>	CASH ACME	HEATGUARD 145LF SERIES	Domestic Hot Water Tempering	RESTROOM LAVATORY	2	Point-of- Use	0.5 MIN - 5.5 MAX	³ ⁄4"	-	P S C C

REMARKS

POINT-OF-USE THERMOSTATIC MIXING VALVE SERVING PUBLIC LAVATORIES. SET AT 120°F. CERTIFIED TO ASSE 1017, ASSE 1070 AND CSA B125.3

EXISTING FIXTURE UNIT CALCULATION								
FIXTURES		F.U.	TOTAL	F.U.				
FIATURES		WASTE	WATER	WASTE	WATER			
EXISTING WATER CLOSET	3	4.0	3.0	12.0	9.0			
EXISTING LAVATORY	2	1.0	1.0	2.0	2.0			
EXISTING URINAL	1	2.0	5.0	2.0	5.0			
EXISTING DISHWASHER	1	2.0	2.0	2.0	2.0			
EXISTING SINK	1	2.0	2	2.0	2.0			
TOTAL FIXTURE UNITS 20.0 20.0								

FIXTURE UNIT CALCULATION FOR NEW								
	FIXTURES							
FIXTURES		F.U. I	EACH	TOTAL	F.U.			
FIXTORES		WASTE	WATER	WASTE	WATER			
WATER CLOSET (FLUSH VALVE)	4	4.0	15.0	16.0	60.0			
LAVATORY	3	1.0	1.0	3.0	3.0			
URINAL (WATER LESS TYPE)	2	2.0	-	4.0	_			
BOTTLE	1	2.0	1	2.0	1.0			
FLOOR DRAIN	2	2.0	-	4.0	_			
		TOTAL	FIXTURE UNITS	29.0	64.0			
NOTE FLUSHOMETER VALVES FIXT		T IS BASE ON	2022 CPC TAR	E 610 10				

	NOTE:	FLUSHOMETER	VALVES	FIXTURE	UNIT	IS	BASE	ON	2022	CPC	TABLE	610.10	
--	-------	-------------	--------	---------	------	----	------	----	------	-----	-------	--------	--

TOTAL FIXTURE UNIT CALCULAT	ION							
FIXTURES								
FIXTORES	WASTE	WATER						
EXISTING FIXTURES	20.0	20.0						
NEW FIXTURES	4.0	64.0						
TOTAL FIXTURE UNITS	24.0	84.0						
EQUIVALENT FLOW RA	EQUIVALENT FLOW RATE (GPM) 64							

	FIXTURE UNITS					
PIPE SIZES	HOT WATER	COLD WATER FLUSH TANK	COLD WATER FLUSH VALVE			
1/2"	1	1	0			
3⁄4"	7	7	0			
1"	16	18	0			
11/4"	28	34	5			
11/2"	46	66	20			
2"	119	245	124			
21/2"	245	455	329			
BASE ON 5.0 PSI ALLOWABLE FRICTION LOSS / 100 FT OF PIPE AND AT 8 F.P.S (CW) 5 F.P.S. (HW)						

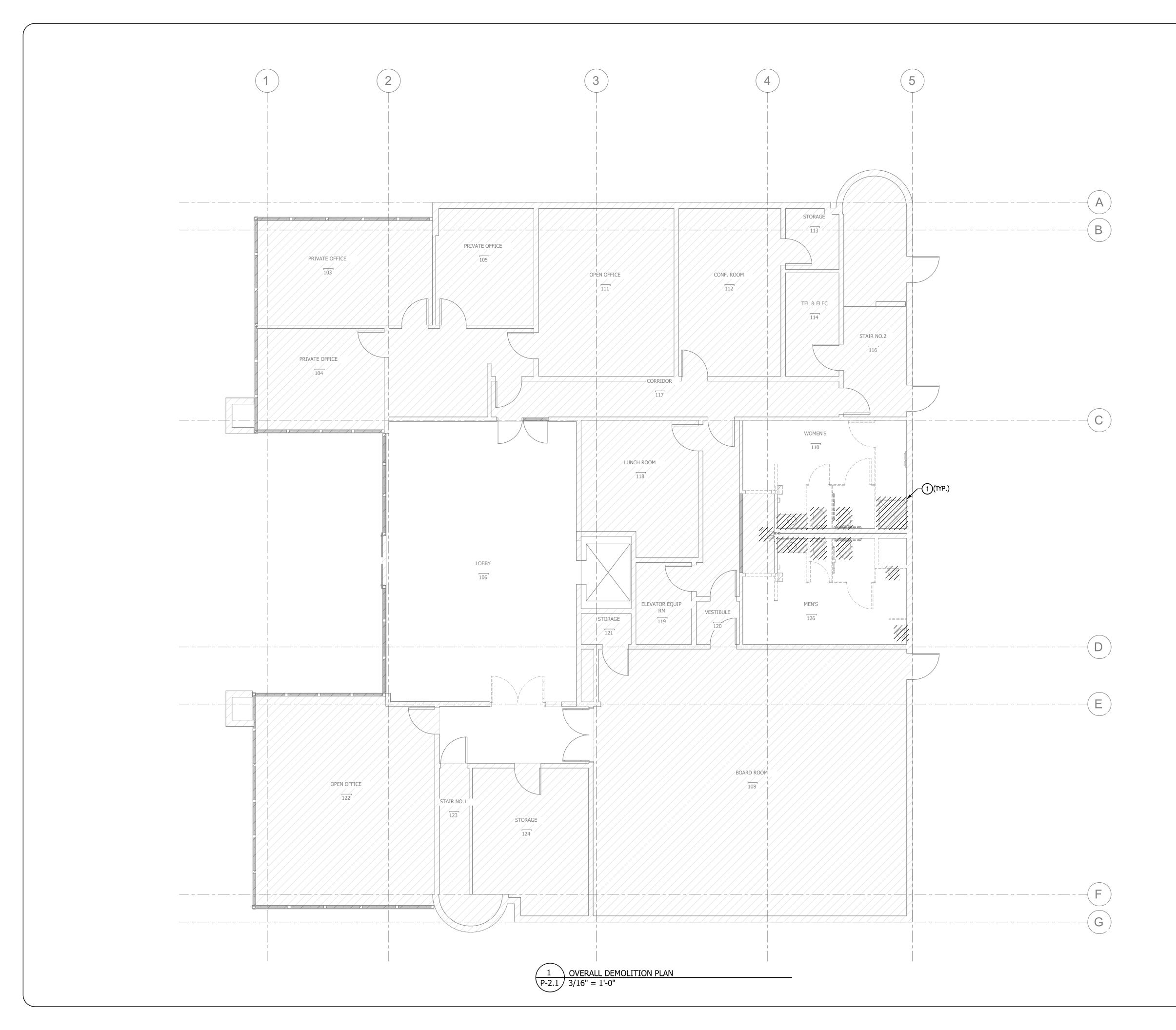
PLUMBING EQUIPMENT SCHEDULE							[ES]	L PR	DFESS N SA	SION ALL	X	K	
	PIPING CONNECTION					ECIS	No	. мз		信			
MARK	FIXTURE/ EQUIPMENT	SOIL OR WASTE	VEN T	COLD WATER	HOT WATER	DESCRIPTION	\ P	A RI		HAN	ICA IFOR	R	1
<u>WC-1</u>	WATER CLOSET FLUSH VALVE	4"	2"	1½"	_	"SLOAN" MODEL WETS 2020.1411, ST-2029 WATER CLOSET AND ECOS 111 FLUSHOMETER; WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, PROVIDE WITH "SLOAN" TOILET SEAT WITH OPEN FRONT. FLUSH VOLUME: 1.28 GPF (4.8 LPF), INFRARED SENSOR WITH MULTIPLE-FOCUSED, LOBULAR SENSING FIELDS FOR HIGH AND LOW TARGET DETECTION.	Xi	orchitecture	planning		Architects, Inc.	CALIFORNIA 92626 TEL (714) 668-4260	
<u>L-1</u>	WOMEN'S LAVATORY	2"	1½"	³ ⁄4"	³ ⁄4"	"KOHLER" MODEL: K-2214-0 UNDERMOUNT LAVATORY, VITREOUS CHINA, RECTANGULAR BASIN WITH CURVED BOTTOM, WITH OVERFLOW DRAIN, PROVIDE WITH FAUCET; "SLOAN" EAF-100, POLISHED CHROME FINISH, INFRARED SENSOR TYPE, IN A 0.35 GPM SETTING.					-	COSTA MESA UITE G-205	
<u>L-2</u>	MEN'S LAVATORY	2"	1½"	3⁄4"	3⁄4"	"SLOAN" MODEL: SS-3806-STG WALL HUNG LAVATORY, VITREOUS CHINA. PROVIDE WITH FAUCET; "SLOAN" EAF-100, POLISHED CHROME FINISH, INFRARED SENSOR TYPE, IN A 0.35 GPM SETTING.		r	ם) קר		+ Panichapan	2900 BRISTOL STREET FAX (714) 668-4265 S	
<u>(E)S</u>	EXISTING SINK	-	-	-	-	EXISTING SINK		()	Gillis	0 BRI (714	
<u>UR-1</u>	WATER FREE URINAL	2"	1½"	-	-	"SLOAN" MODEL WES-4000 VITREOUS CHINA WATER FREE URINAL, 2" NPT OUTLET FLANGE & UNI-COUPLER KIT, NOMINAL DIMENSIONS: 14" X 15%" X 22%".	-	Gil	lis+Panich Rights Re	apan Arch	hitects, Inc		-
<u>FD-1</u>	Floor Drain	2"	1½"	½" TPL	_	WATTS" PRONTO FD-1190-PR EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, POST-POUR ADJUSTABLE ROUND HEEL PROOF STAINLESS STEEL STRAINER WITH INTEGRATED BUBBLE LEVEL, LEVELING SHIMS, AND NO HUB (STANDARD) OUTLET	-	are the reprodu express	copyrighte iced in any	ed propert / form wit	ucture dep ty of, and hout of, Gillis+I	may not b	be
<u>IP–1</u>	TRAP PRIMER	_	_	_	_	WATTS LFTP300-DR PRESSURE DROP ACTIVATED LEAD FREE, BRASS TRAP PRIMER WITH EPDM SEALS, INTEGRAL AIR GAP, AND ½" SWEAT OR NPT THREADED CONNECTIONS. OPERATING PRESSURE 25 PSI-125 PSI. TESTED AND APPROVED IN CONFORMANCE WITH ASSE STANDARD 1018. SPECIFY MODEL LFTP300-DU-DR FOR DISTRIBUTION UNIT.							
<u>BF-1</u>	BOTTLE FILLER	2"	1½"	1⁄2"	-	APPROVED BY OWNER/ARCHITECT.							
WCO. FCO. COTG. CO CLEAN OUTS - - - - - WALL CLEAN OUT: "WATTS" MODEL: CO-590-RD FLOOR CLEANOUT: FLOOR CLEANOUT: "WATTS" MODEL: CO-200-RX MUST BE FLOOR CLEANOUT: FLOOR CLEANOUT: COTG. CO COTG. CO CLEAN OUTS - - - - FLOOR CLEANOUT: "WATTS" MODEL: CO-200-RX MUST BE FLUSHED TO SURFACE. CLEAN OUT TO GRADE: "WATTS" MODEL: CO-1190-PR MUST - - BE FLUSHED TO SURFACE. CLEAN OUT: "WATTS" MODEL: CO6 - -													
NOTES:	•	1											
ALL FIXTURES TO BE WHITE AND TRIM TO BE POLISHED CHROME FINISH UNLESS NOTED OTHERWISE. PROVIDE BRASSCRAFT HEAVY PATTERN ANGLE STOPS FOR ALL FIXTURES IN PUBLIC AREAS AND BRASSCRAFT SPEEDWAY STOPS AT ALL OTHER LOCATIONS.													
OWNER. ALL HAND	NCAP LAVATORIES	& SINKS	SUPPLY	AND DR	AIN PIPES	WITH CALIFORNIA LEED PLUMBING CODE AND APPROVED BY S SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO							
						OTH SHALL COMPLY WITH ASME A112.18.9. 403.3		+	+	$\left \right $		+	-
FIXTURES	AND FITTINGS TH	hat are int	ENDED	to Deliv	er pota	BLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE.							
							_			JOB NO.: 3903	DRAWN BY: HS	SCALE: As indicated	

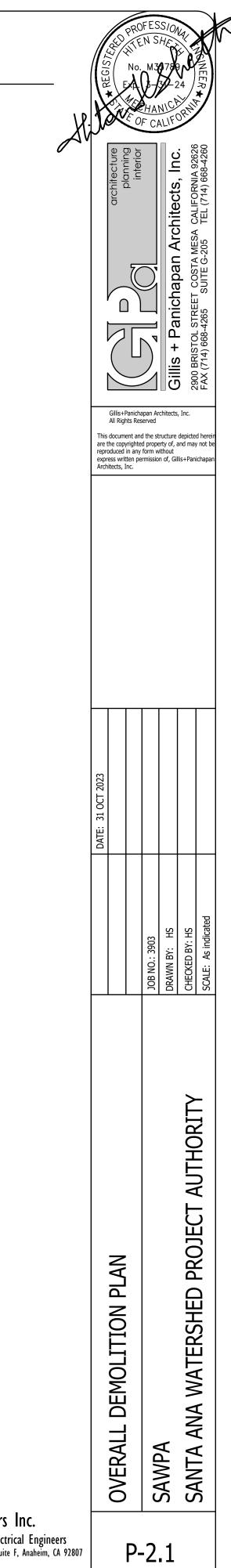
Sawpa Santa ana watershed project authority SCHEDULES CALCULATIONS &



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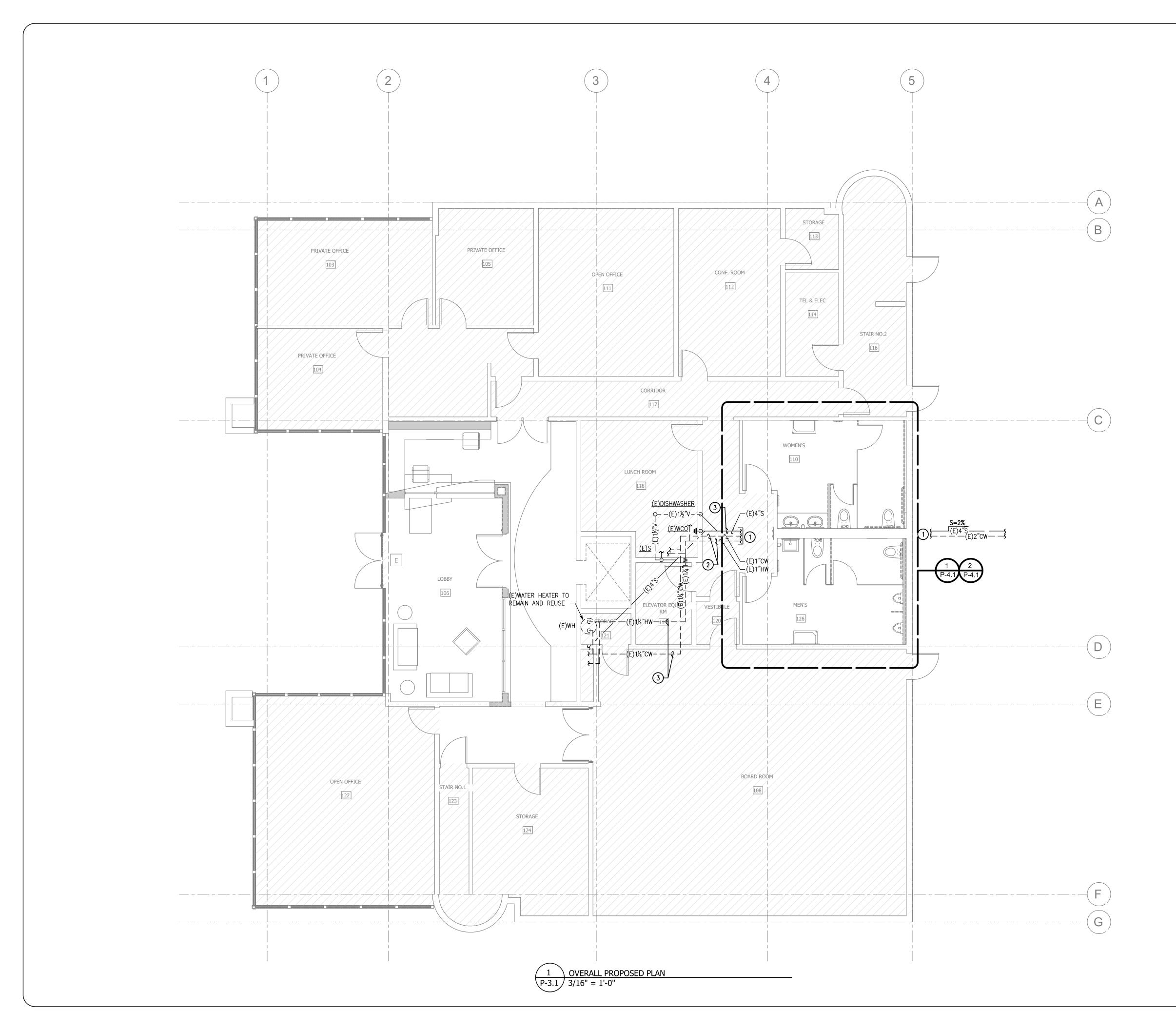
P-0.2







SHEET NOTES ① EXISTING PLUMBING FIXTURES TO BE REMOVE AND DEMOLISHED.



SHEET NOTES

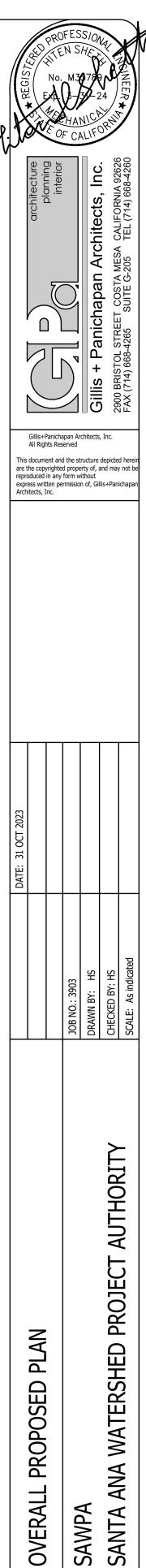
(1) SEE SHEET P4.1 FOR CONTINUATION.

2 PIPING BELOW GRADE.

3 PIPING AT HIGH LEVEL INSIDE CEILING SPACE.

GENERAL SHEET NOTES

- 1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE NECESSARY OFFSETS OF PIPING, FITTING & APPURTENANCES THAT HAVE TO BE REMOVED, CAPPED OR REROUTED.
- 2. FOR CLARITY, NOT ALL EXISTING WORK IS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES, LOCATION, SIZE, INVERT ELEVATIONS, PRESSURE AND AVAILABILITY PRIOR TO START ON ANY WORK.
- 3. ALL WALL, FOOTING AND FLOOR PENETRATION SHALL BE CAULKED WITH FIRE PROOF IN AND APPROVED MANNER BY CALIFORNIA BUILDING CODE.
- 4. DEMOLISH/ REMOVE & PATCH EXISTING MATERIALS, ITEMS, OR FINISHES AS NECESSARY TO PERFORM NEW WORK WHERE INDICATED. PATCH EXISTING WALL/FLOOR TO MATCH ADJACENT MATERIALS/FINISHES.
- 5. ALL VENTS SHALL BE MIN. 10" AWAY FROM AC UNIT AIR INTAKE.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
- 7. ALL SEWER LINES RUN @ SLOPES LESS THAN 2% ARE SUBJECT TO FIELD APPROVAL OF PLUMBING INSPECTOR.
- 8. WASTE PIPE SIZES THAT ARE 3 INCHES OR SMALLER SHALL BE EVALUATED AT 2% SLOPE.

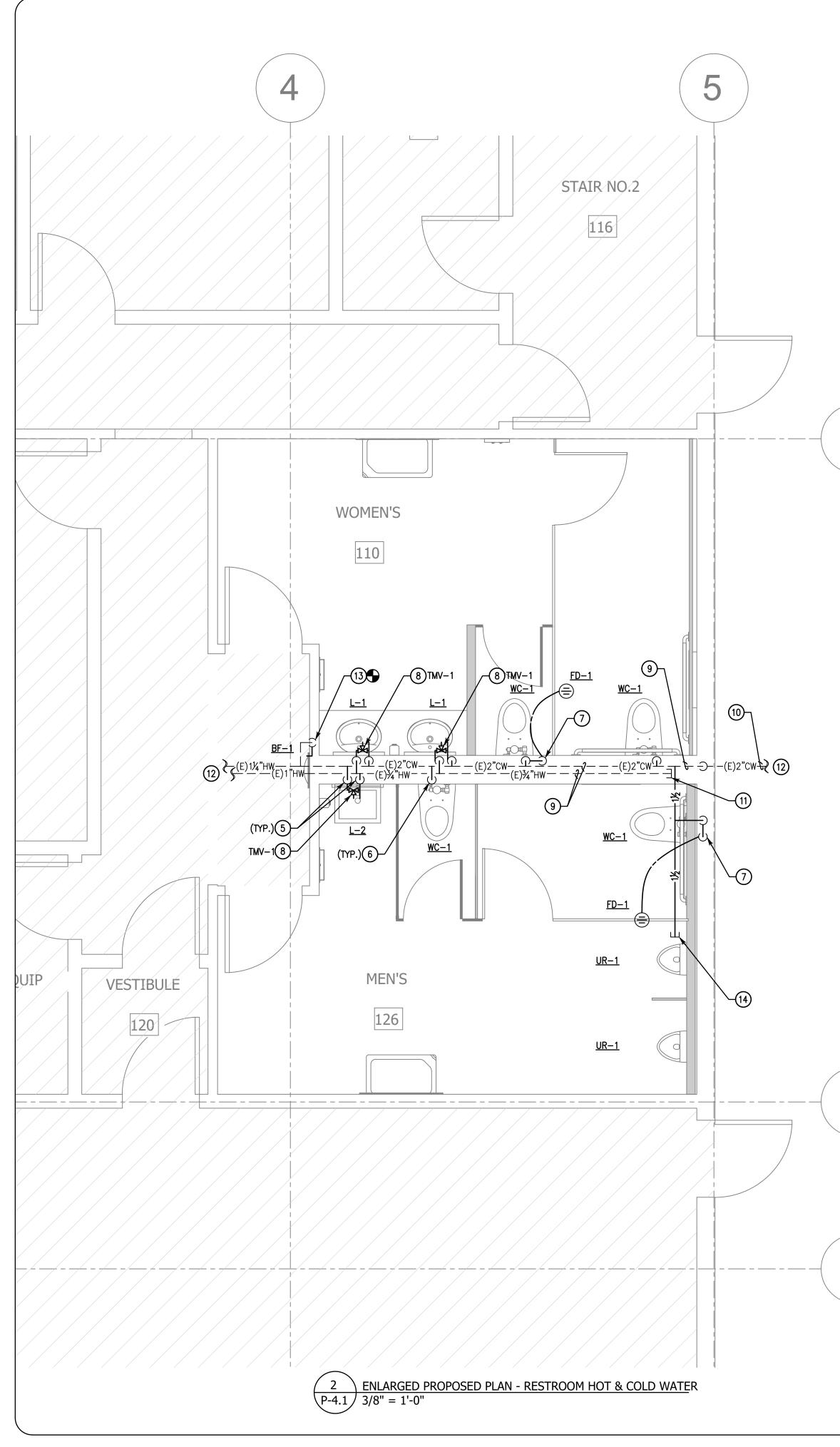




H2S Engineers Inc. Mechanical and Electrical Engineers 4095 E La Palma Ave, Suite F, Anaheim, CA 92807 Ph: (714) 321.3068 E-mail: hsheth@h2sengineers.com

P-3.1

Sawpa Santa ana ^v



	4			5
			STAIR NO.2 116	
C)		WOMEN'S 110		
	9 BE-1 (2) (E)4"S-6 S=2%	(E)2½"V L-1 (E)2½"V (E)2½"V (E)2½"V (E)4"S- (E)4"S-	$(\mathbf{a}) = (\mathbf{b}) 2^{\frac{1}{2}} $	(E)4"S 12
	S=2%			wco 10
D	QUIP VESTIBULE	MEN'S 126	UR-1 UR-1 UR-1	wco
E				
		$\underbrace{1}_{P-4.1} \underbrace{\text{ENLARGED PROPOSED PL}}_{3/8" = 1'-0"}$	AN - RESTROOM WASTE & VENT	

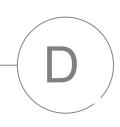
SHEET NOTES

- 1 2" WASTE DOWN, 1½" VENT UP.
- 2 4" WASTE DOWN, 2" VENT UP.
- 3 Existing 2½" vent to second floor above to remain and reuse.
- (4) EXISTING 4" WASTE FROM SECOND FLOOR ABOVE DOWN TO BELOW GRADE TO REMAIN AND REUSE.
- 5 ½" HOT & COLD WATER TO SUPPLY PLUMBING FIXTURES.
- 6) 1½" COLD WATER TO SUPPLY FLUSH VALVE WATER CLOSET. \bigcirc ½" COLD WATER DOWN TO TRAP PRIMER. RUN ½" TRAP PRIMER LINE BELOW GRADE TO FLOOR DRAIN/FLOOR SINK TAILPIECE.
- 8 THERMOSTATIC MIXING VALVE BELOW LAVATORY COUNTER SET AT 120'F.
- 9 PIPING AT HIGH LEVEL INSIDE CEILING SPACE.
- (10) PIPING BELOW FLOOR/GRADE.
- (11) PROVIDE END CAP.

- (12) SEE SHEET P3.1 FOR CONTINUATION.
- 13 NEW BOTTLE FILLER TO CONNECT TO EXISTING $\frac{1}{2}$ " COLD WATER IN WALL.
- 1½" COLD WATER STUB OUT AT HIGH LEVEL FOR FUTURE USE.

GENERAL SHEET NOTES

- 1. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE NECESSARY OFFSETS OF PIPING, FITTING & APPURTENANCES THAT HAVE TO BE REMOVED, CAPPED OR REROUTED.
- 2. FOR CLARITY, NOT ALL EXISTING WORK IS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES, LOCATION, SIZE, INVERT ELEVATIONS, PRESSURE AND AVAILABILITY PRIOR TO START ON ANY WORK.
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- 8. WASTE PIPE SIZES THAT ARE 3 INCHES OR SMALLER SHALL BE EVALUATED AT 2% SLOPE.



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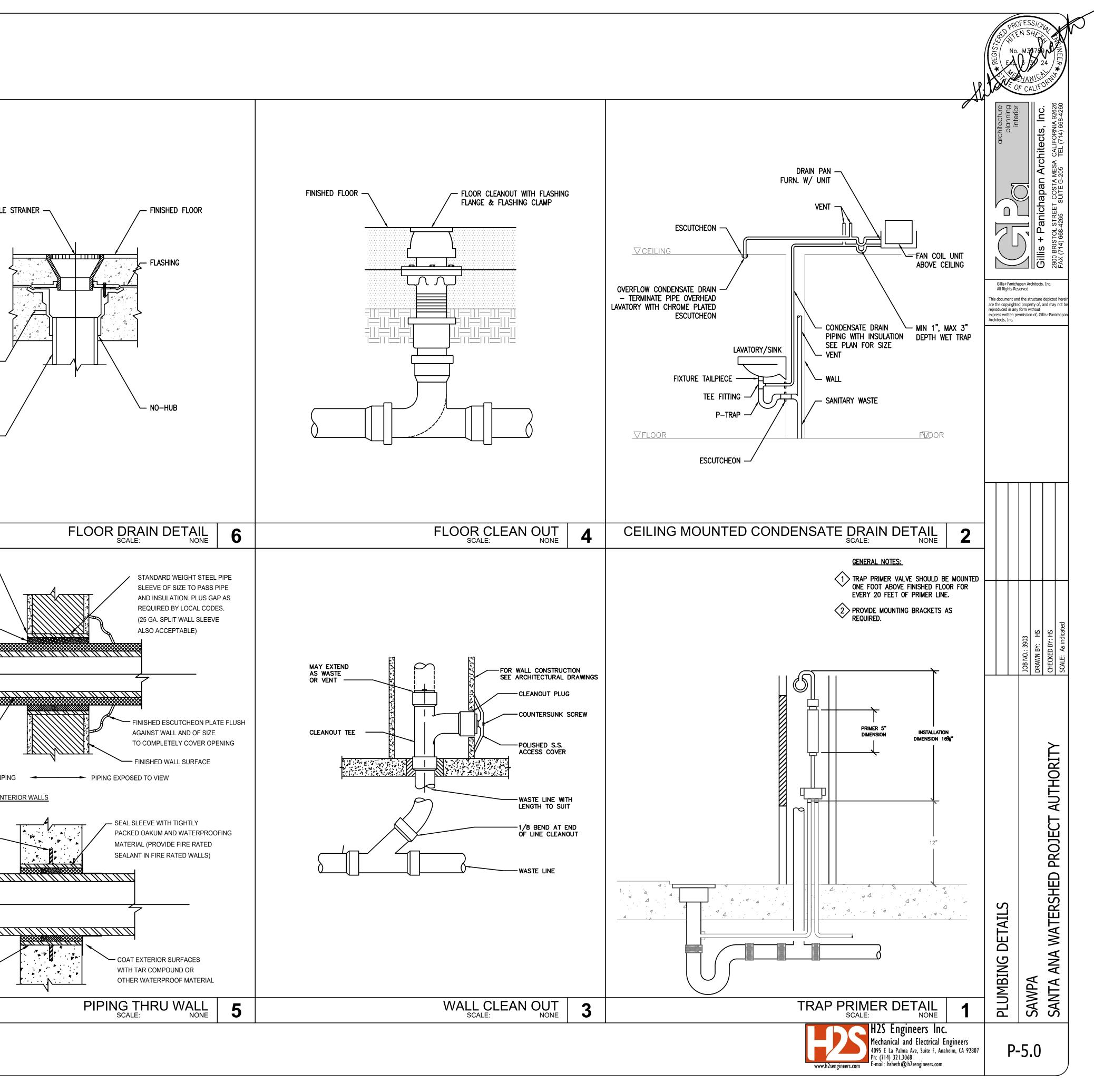
Architects, MESA CALIFORNIA 205 TEL (714) 66 $\overline{\bigcirc}$ S \smile Gillis+Panichapan Architects, Inc. All Rights Reserved This document and the structure depicted herein are the copyrighted property of, and may not be reproduced in any form without express written permission of, Gillis+Panichapan Architects, Inc.

ENLARGED PROPOSED PLAN	SAWPA	SANTA ANA WATERSHED PROJECT AUTHORITY

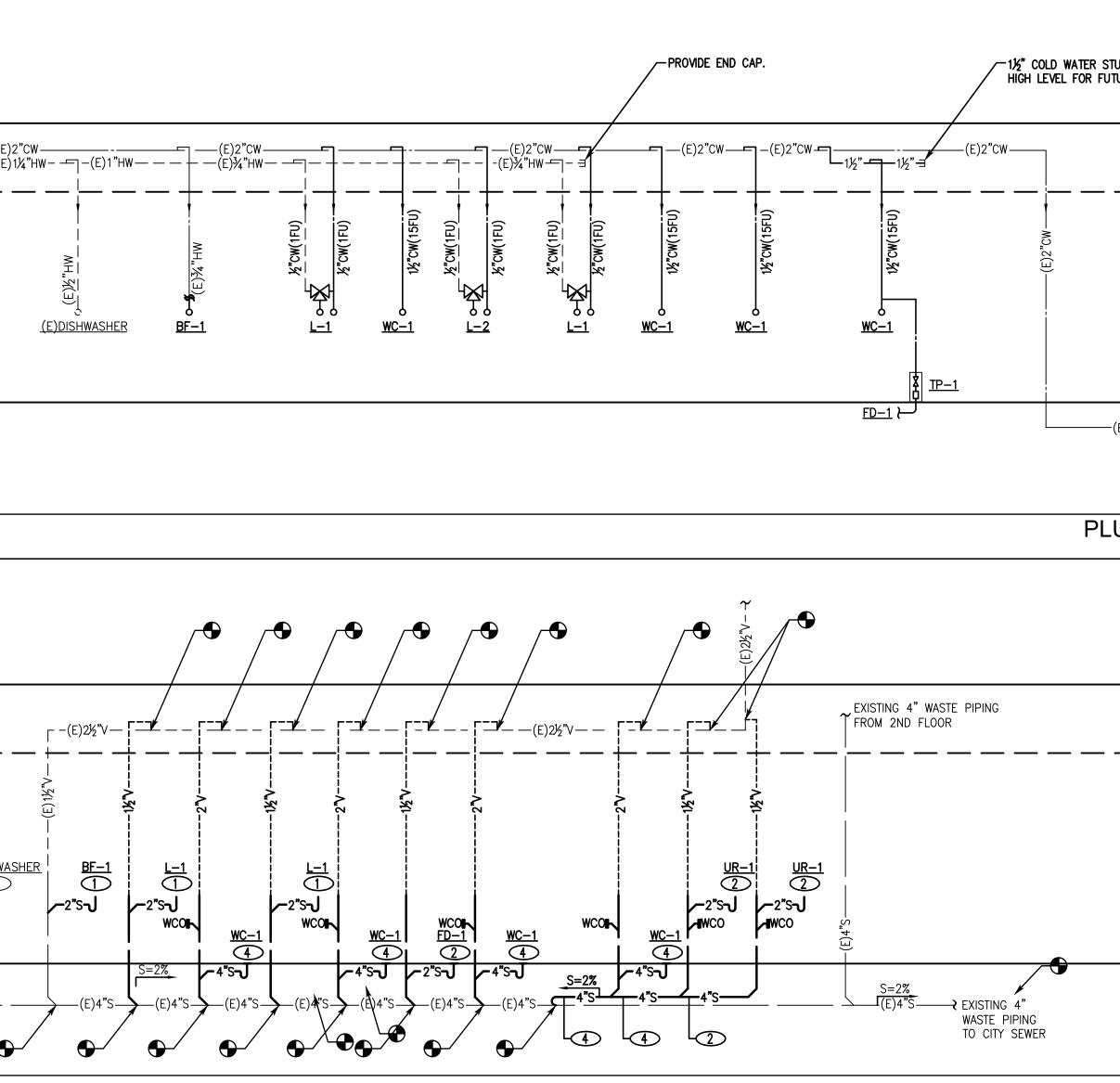


P-4.1 92807

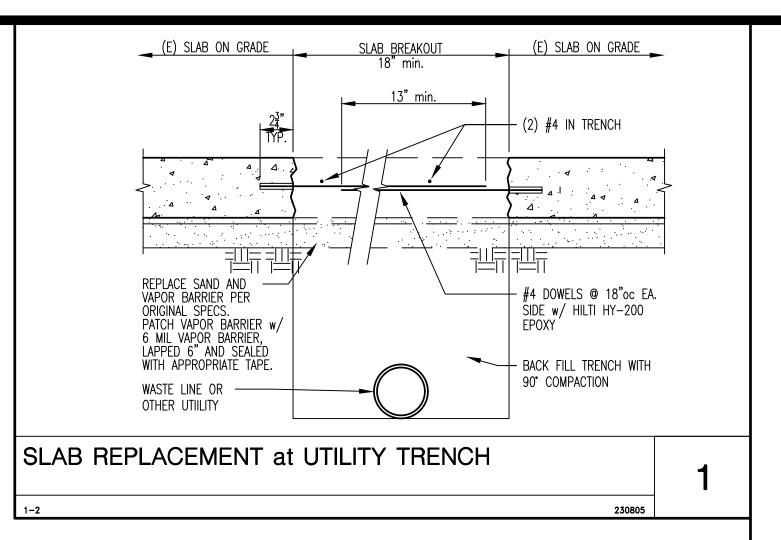
ADJU	JSTABLI
TRAP PRIMER CONNEC	tion —
TO SANITARY D	rain —
TERMINATE SLEEVE FLUSH WITH	
SEAL OR CAULK SLEEVES THRU FIRE WALLS IN SMOKE TIGHT MANNER AND TO MEET FIRE RATING OF WALL (REFER	
TO ASTM E-814)	~~~~
PIPE AND INSULATION TO BE	
CENTERED IN SLEEVE	/
CONCEA	LED PIF
SEALING AND ANCHORING COLLAR (WATERSTOP)	
STANDARD WEIGHT STEEL PIPE POURED IN PLACE	



ND FLOOR	(E)1¼"C\ (F)1/4"C\	₩ Ξ)1¼"H₩-— -──-
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(E)2"CW 2" EXISTING COLD WATER LINE BELOW GRADE. FIELD VERIFY EXACT LOCATION.		JOB NO.: 3903 DRAWN BY: HS	CHECKED BY: HS SCALE: As indicated	
UMBING HOT & COLD WATER RISER DIAGRAM 2		JOE DRV	CHECKE	-
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	RISER DIAGRAM		WATERSHED PROJECT AUTHORITY	
	PLUMBING RISI	WPA	SANTA ANA WI	
PLUMBING WASTE & VENT RISER DIAGRAM, NTS 1 Image: Scale: NTS 1 Image: Scale: H2S Engineers Inc. 1 Image: Scale: NTS 1 <		-6.0		
	1			



LIGHT GAUGE STEEL FRAMING

S = STYLE

WWW = MEMBEF

1. ALL STUDS AND TRACK DESIGNATIONS ARE BASED ON PRODUCTS MANUFACTURED BY THE CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)(ICC ESR-3064P/LARR 25529). ALTERNATES MAY BE SUBMITTED WHICH EQUAL OR EXCEED THE PROPERTIES OF THE SPECIFIED MEMBER WHEN APPROVED BY THE ENGINEER.

2. FRAMING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1003 GRADE 33 TYPE H or GRADE 50.

3. ALL FRAMING SHALL BE GALVANIZED OR PAINTED CARBON SHEET STEEL. TOUCH UP ALL WELDS AND DAMAGED AREAS WITH APPROVED ZINC-RICH GALVANIZING TOUCH UP PAINT FOR GALVANIZED PRODUCTS, PAINT FOR CARBON SHEET PRODUCTS.

4. ALL CONNECTIONS SHALL BE WITH SELF DRILLING SCREWS OR WELDING. SCREWS OR WELDING SHALL BE OF SUFFICIENT SIZE TO INSURE STRENGTH OF THE CONNECTION. WELDING SHALL BE IN ACCORDANCE WITH (AWS) D1.3, STRUCTURAL WELDING CODE – SHEET STEEL. WELDS SHALL BE OF THE SIZE SHOWN ON THE DETAILS. UNLESS NOTED OTHERWISE, THE EFFECTIVE THROAT SIZE OF THE WELD NEED NOT EXCEED THE THICKNESS OF THE PARENT MATERIAL. IN NO CASE SHALL WELDS BE LESS THAN 1/16".

FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 SSMA PRODUCT INDENTIFICATION CODE ARE DEFINED AS FOLLOWS:

DDD S WWW-TTT (EX: 600S162-54 = 6"x1 5/8" STUD, 54 MILS) DDD = MEMBER DEPTH 350 = 3 1/2"

330 = 31/2
362 = 3 5/8"
400 = 4"
550 = 5 1/2"
600 = 6"
800 = 8"
1000 = 10"
1200 = 12 "
S = STUD OR JOIST
T = TRACK
125 = 1 1/4"
137 = 1 3/8"
162 = 1 5/8"
200 = 2"
250 = 2 1/2"

- 7. METAL FRAMING CONNECTORS SHALL BE THOSE MANUFACTURED BY SIMPSON STRONG-TIE, AS SPECIFIED ON PLANS. CONNECTORS BY MANUFACTURERS OTHER THAN SIMPSON MAY BE USED PROVIDED:
 - a) CONNECTORS MEET OR EXCEED THE CAPACITY OF THE SPECIFIED SIMPSON COUNTERPARTS
 b) CONNECTORS ARE APPROVED FOR USE IN A CURRENT ICBO EVALUATION REPORT VERIFICATION THAT CAPACITY OF HARDWARE BY ALTERNATE MANUFACTURERS MEETS OR EXCEEDS CAPACITY OF SPECIFIED SIMPSON HARDWARE SHALL BE THE RESPONSIBILITY OF
- THE CONTRACTOR. FASTENERS FOR ALL CONNECTORS SHALL BE AS SPECIFIED BY THE MANUFACTURER FOR FULL CAPACITY OF THE HARDWARE.
 7. UNLESS NOTED OTHERWISE, 54-mil, 68-mil AND 97-mil STEEL MEMBERS SHALL BE 50 KSI.
- ALL OTHER LIGHT GAUGE STEEL MEMBERS SHALL BE 33 KSI.
- 8. SCREWS USED FOR STEEL ATTACHMENTS SHALL BE ONE OF THE FOLLOWING:
 - a) GRABBER SELF-DRILLING SCREWS, JOHN WAGNER ASSOCIATES, INC. GRABBER DIVISION, CONCORD, CA (ICBO #ER-5280/LARR #25509))
 - b) DARTS SCREWS, COMPASS INTERNATIONAL, INC., ANAHEIM, CA (ICBO #ER-5202 / LARR #25294) ALTERNATIVES MAY BE USED PROVIDED THAT THE SCREWS ARE APPROVED FOR USE IN A CURRENT CITY OF LA RESEARCH REPORT AND THE SCREW CAPACITIES MEET OR EXCEED THE VALUES LISTED BY THE SSMA.
- 9. OPENINGS IN STUD/JOIST WEBS OTHER THAN THE STANDARD HOLES PUNCHED BY THE
- MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DESIGNED AND DETAILED BY THE ENGINEER. 10. WELDING OF LIGHT GAUGE STEEL MUST BE PERFORMED BY A WELDER CERTIFIED FOR LIGHT GAUGE
- WELDING. ALL FIELD WELDING SHALL HAVE INSPECTION BY A REGISTERED DEPUTY INSPECTOR. 11. ALL FRAMING COMPONENTS SHOULD BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR
- MEMBERS OR AS REQUIRED FOR ANY ANGULAR FIT AGAINST AN ABUTTING MEMBER.
- 12. SCREW SHALL BE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.

TESTS AND INSPECTIONS

- 1. INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR THE MATERIALS LISTED BELOW. THE EXTENT OF SUCH INSPECTION SHALL CONFORM TO SECTION 1704 OF THE INTERNATIONAL BUILDING CODE.
- AN AFFIDAVIT SHALL BE ISSUED TO THE ARCHITECT/ENGINEER AND THE BUILDING DEPARTMENT AT THE COMPLETION OF EACH TYPE OF WORK STATING WHETHER THE WORK WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED DEPUTY INSPECTIONS. DEPUTY INSPECTORS SHALL BE APPROVED BY THE OWNER.

SPECIAL INSPECTIONS (only checked items are required)

	INSPECTK	NOTEO		
MATERIAL	CONTINUOUS	PERIODIC	NOTES	
STRUCTURAL STEEL - Section 1705.2				
Structural Steel Material		×	С	
Weld Filler Material		×	d	
Welding - Groove Welds	×			
Welding - Single Pass Fillet Welds		157		
less than or equal to 5/16"		×		
Welding - All other fillet welds	×		\sim	
Reinforcing Steel (rebar)		×	e	
Steel Frame Joint Details		×		
High Strength Bolting		×	f	

NOTES:

- c. VERIFY MATERIAL VIA IDENTIFICATION MARKINGS & MILL TEST REPORTS.d. VERIFY MATERIAL VIA IDENTIFICATION MARKINGS & MANUFACTURER'S CERTIFICATION OF COMPLIANCE.
- e. VERIFY WELDABILITY OF REINFORCEMENT OTHER THAN ASTM A706 BARS. f. INSPECTION OF HIGH STRENGTH BOLTS IN SNUG-TIGHT
- CONNECTIONS IN ACCORDANCE WITH AISC 360, SECTION M2.5.

<u>GENERAL</u>

- 1. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE (CBC).
- 2. THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE PLANS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER.
- 3. CONTRACTOR MUST CHECK DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.
- 4. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS SPECIFIED IN TYPICAL DETAILS FOR THE RESPECTIVE MATERIALS.
- 5. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. ALL BRACING, TEMPORARY SUPPORTS, SHORING, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE ARCHITECT AND THE ENGINEER DO NOT INCLUDE INSPECTION OF CONSTRUCTION PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE WORKSITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
- 6. DESIGN, MATERIALS, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE DESCRIBED BELOW OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE, PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE OWNER, ARCHITECT, THE ENGINEER, AND THE APPLICABLE GOVERNING CODE AUTHORITY.

DESIGN CRITERIA

WIND ANALYSIS (N/A, INTERIOR STRUCTURE)	SEISMIC PARAMETERS
WIND EXPOSURE: 'C'	SITE CLASS: 'D'
WIND SPEED: '96 MPH' , 3 SEC. GUST K _{zt} = 1.0	SEISMIC DESIGN CATEGORY: 'D'
Kz= .85	RISK CATEGORY: II
RISK CATEGORY: II	SEISMIC IMPORTANCE FACTOR: 1.0
	$F_a = 1.2$ $F_v = 1.7$
BUILDING DESIGN LOADS	$S_S = 1.5$ $S_1 = 0.6$
	$S_{DS} = 1.2$ $S_{D1} = 0.68$

INTERIOR PARTITION LOADING: $F_{DL} = 5$ PSF

INTERIOR LATERAL LOADING = 5 PSF

REINFORCING STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A706, GRADE 40 FOR SIZES #3 AND GRADE 60 FOR SIZES #4 AND LARGER.
- 2. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-11 USING PROPER LOW
- HYDROGEN ELECTRODES. ALL BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
- 3. ALL BARS IN MASONRY SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS (2'-0" min.) AT ALL SPLICES UNLESS NOTED OTHERWISE.
- 4. ALL BARS IN CONCRETE SHALL BE LAPPED PER THE LAP SPLICE SCHEDULE AT ALL SPLICES UNLESS NOTED OTHERWISE.
- SPLICES OF HORIZONTAL REBAR IN WALLS AND FOOTINGS SHALL BE STAGGERED 4'-0" MINIMUM.
 DOWELS FOR WALLS AND COLUMNS SHALL BE THE SAME SIZE AND SPACING AS THE
- WALL/COLUMN REINFORCING UNLESS NOTED OTHERWISE.
- 7. ALL BENDING OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

<u>CONCRETE</u> –

- 1. ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- 2. AGGREGATES SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C33.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II, LOW ALKALI, OR AS REQUIRED TO SATISFY SITE SOIL CONDITIONS AS DETERMINED BY THE PROJECT SOILS ENGINEER. FOR SLAB-ON-GRADE MINIMUM WATER CEMENT RATIO TO BE 0.50.
 THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF
- 4. THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE: SLABS ON GRADE CENTER OF SLAB
- REFER TO ARCHITECTURAL DRAWINGS FOR REVEALS, AREAS OF TEXTURED CONCRETE OR SPECIAL FINISHES, ITEMS REQUIRED TO BE CAST INTO THE CONCRETE, CURBS AND SLAB DEPRESSIONS.

STRUCTURAL STEEL

- 1. ALL FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- 2. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. ALL FIELD WELDING SHALL HAVE CONTINUOUS INSPECTION BY A REGISTERED DEPUTY INSPECTOR.
- 3. ALL FULL PENETRATION GROOVE WELDS SHALL BE ULTRASONICALLY TESTED (UT) FOR THE EXTENT REQUIRED PER THE CURRENT EDITION OF THE CALIFORNIA BUILDING CODE.
- 4. PLATE SHALL CONFORM TO ASTM A992, GRADE 50.

ALL SQUARE AND RECTANGULAR HSS SECTIONS SHALL CONFORM TO ASTM A1085 or ASTM A500. GRADE 'C' (50 KSI)

ALL ROUND HSS SECTIONS SHALL CONFORM TO ASTM A1085 or ASTM A500, GRADE 'C' (46 KSI) ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.

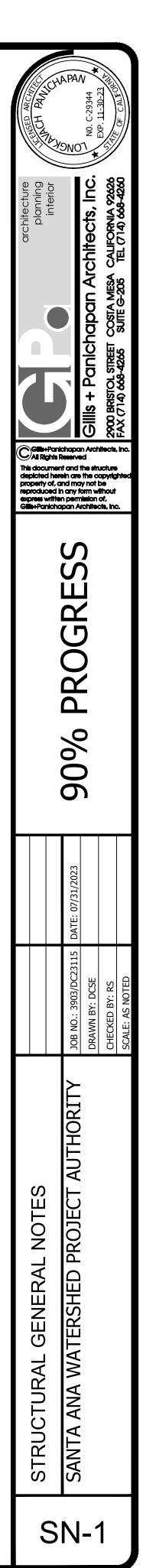
- 5. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS. HEADED STUD ANCHORS CONFORM TO ASTM A108 UNLESS NOTED OTHERWISE ON PLANS OR DETAILS
- 6. STEEL TO STEEL BOLTED CONNECTIONS SHALL BE WITH ASTM A325N BOLTS U.N.O. UNFINISHED BOLTS SHALL CONFORM TO ASTM A307 GRADE A UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS. THREADED ROD SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS.
- 7. ALL WELDING ELECTRODES SHALL CONFORM TO AWS E70XX.
- 8. UNLESS SPECIFICALLY DETAILED, NO STRUCTURAL STEEL MEMBER SHALL BE DRILLED, CUT OR MODIFIED IN ANY WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. BOLT HOLES, WHEN PERMITTED, SHALL BE DRILLED A MAXIMUM OF 1/16" OVER THE DIAMETER OF THE THREADED FASTENER; FLAME CUTTING IS NOT PERMITTED.
- 9. THE FABRICATOR AND ERECTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO PRODUCING SHOP DRAWINGS. IF ANY CONFLICTS ARE FOUND AGAINST THE REQUIREMENTS OF ANY SAFETY REGULATIONS, THE FABRICATOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PRODUCING SHOP DRAWINGS.

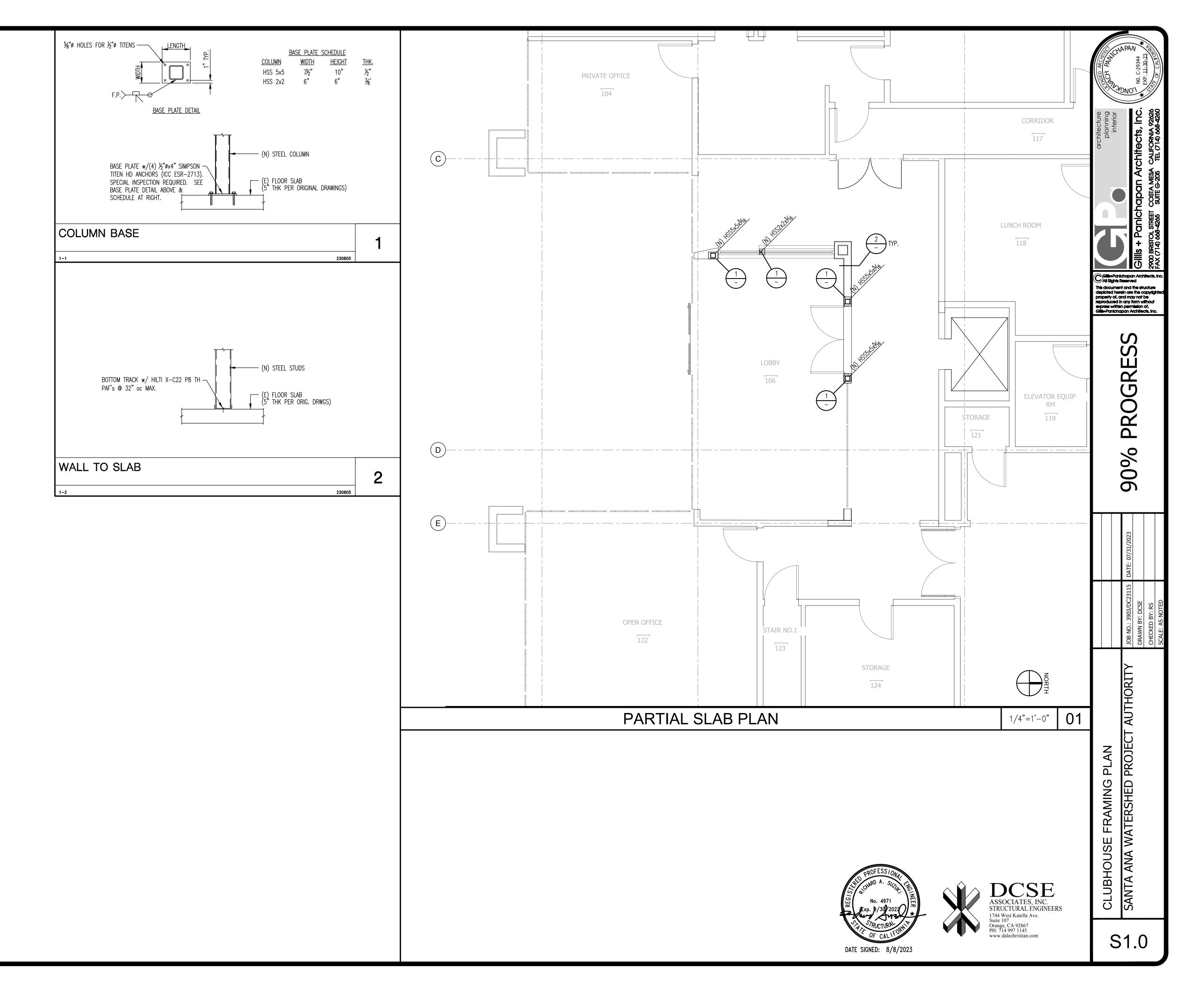


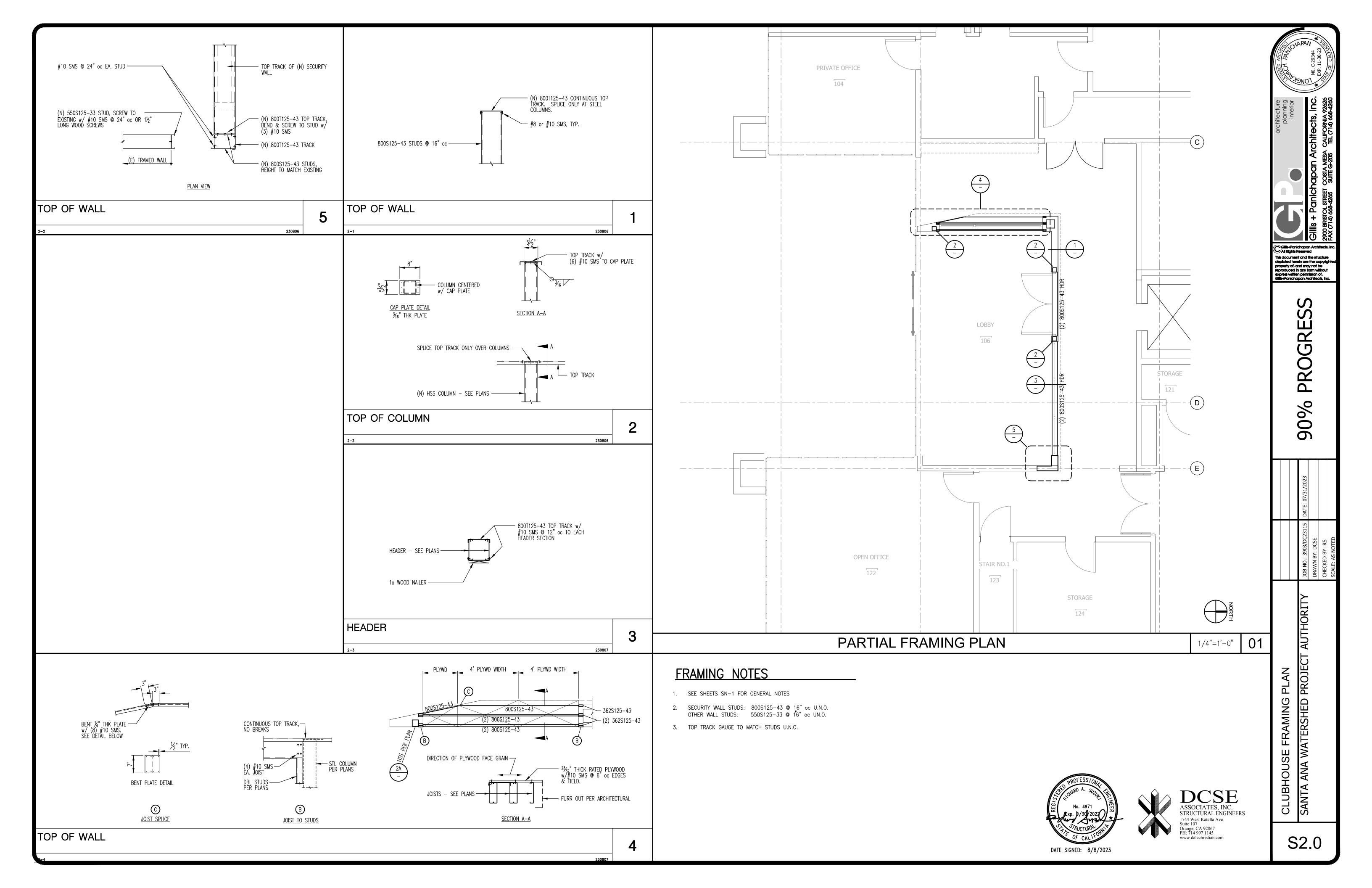




STRUCTURAL ÉNGINEERS 1744 West Katella Ave. Suite 107 Orange, CA 92867 PH: 714 997 1145 www.dalechristian.com







ENTRANCE IMPROVEMENT PLAN

1 [] All grading shall conform to the Riverside Municipal Code, Title 17 and the current City adopted edition of the California Building Code. 2 [] All provisions of the preliminary soils report prepared by _____N/A

<u>N/A</u> shall be complied with during grading operations. City Business dated Tax Certif. No. <u>N/A</u>, Exp. Date <u>N/A</u> 3 [] This plan is for grading purposes only and is not to be used for the purpose of constructing

on-site or off-site improvements. Issuance of a permit based on this plan does not constitute approval of driveway locations or sizes, parking lot structural sections or layout, ADA-related requirements, building locations or foundations, walls, curbing, off-site drainage facilities or other items not related directly to the basic grading operation. On-site improvements shall be constructed from approved building permit plans. Off-site improvements shall be constructed from plans approved for this purpose by the Public Works Department.

4 [] Certification from the registered (civil engineer/architect/landscape architect) stating that the grading has been completed per the approved plan, and a compaction report from the soil engineer for fill areas are required prior to building permits being issued.

5 [] Contractor is responsible for erosion, dust and temporary drainage control during grading operations. a. All manufactured slopes in excess of 5 feet in vertical height are to be protected from erosion

during rough grading operations and, thereafter, until installation of final groundcover. (See landscape plans for final groundcover). b. All slope protection swales to be constructed at the same time as banks are graded.

c. The developer and his contractor are responsible for implementation and maintenance of the erosion control measures shown on this plan and SWPPP and also to provide any additional erosion control measures (e.g., hydroseeding, mulching of straw, gravel-bagging, diversion ditches, retention basins, etc.) dictated by field conditions to prevent erosion and/or the introduction of dirt, mud or debris into existing public streets and/or onto adjacent properties during any phase of construction operations. Special attention shall be given to additional erosion control measures noted above during the period October 1 to May 31.

d. After a rainstorm, all silt and debris shall be removed from check berms and check dams. Silt and debris shall be removed from City of Riverside streets. This requirement shall remain in effect until city acceptance of this project.

6 [] Any on-site retaining walls shown on this plan that are under 3 feet in height and support a surcharge or that are over 3 feet in height require separate review, approval and a building permit from the Building and Safety Division, Community Development Department. Any necessary retaining walls on the perimeter of this site shall be in place and approved by the building inspector prior to issuance of the grading permit. Approved sequenced grading with 1 1/2:1 maximum slopes to within 2 feet of the adjacent property line may be acceptable to allow for issuance of a grading permit prior to completion of any necessary perimeter retaining walls. (If no retaining walls are shown on the plan, do not put this note on plan.)

7 [] Any improvements constructed in the public right-of-way will require a separate construction permit and inspection from the Public Works Department.

8 [] Any walls, fences, structures and/or appurtenances adjacent to this project are to be protected in place. If grading operations damage or adversely affect said items in any way, the contractor and/or developer is responsible for working out an acceptable solution to the satisfaction of the affected property owner(s).

9 [] The contractor/developer is responsible for ensuring that retaining walls do not interfere with provision of utilities.

10 [] It is the grading contractor's responsibility to ensure that adequate compaction has been attained on the entire grading site, including fill areas outside the building pads and on all fill slopes.

11 [] It is the soil engineer's responsibility to observe and perform compaction tests during the grading to evaluate the preparation of the natural ground surface to receive the fill and the compaction attained in the fill, including fill areas outside the building pads and on all fill slopes. 12 [] Earthwork quantities are shown for grading permit purposes only, and the City of Riverside is not

responsible for their accuracy.

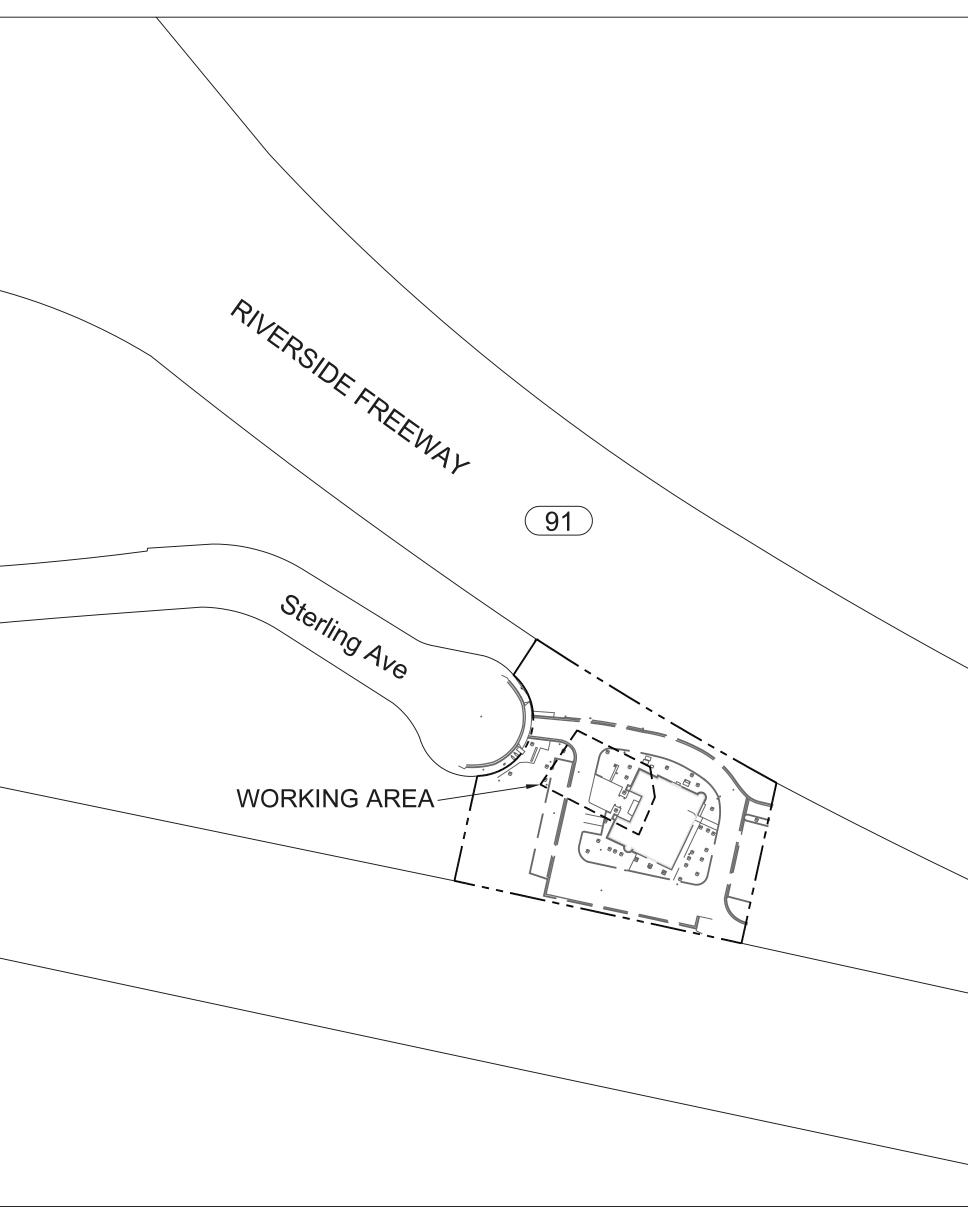
13 [] For grading of areas of 1 acre or more, a Storm Water Pollution Prevention Plan (SWPPP) shall be kept on-site and made available upon request of a representative of the Regional Water Quality Control Board (RWQCB) - Santa Ana Region and/or the City of Riverside. 14 [] Grading operations shall be limited to between the hours of 7 a.m. and 7 p.m. on weekdays and between 8 a.m. and 5 p.m. on Saturdays. No grading will be permitted on Sunday or federal holidays. (Riverside Municipal Code, 7.35.010, Ordinance No. 6273)

CONSTRUCTION NOTES:

- (1) CONSTRUCT MAX 24"-HIGH PLANTER WALL, SEE SHEET 3 FOR DETAILS
- 2) CONSTRUCT 12"-CONCRETE CURB PER SPPWC STD PLAN 120-2, SEE SHEET 3 FOR DETAILS
- (3) INSTALL TRUNCATED DOMES, SEE SHEET 3 FOR DETAILS
- (4) CONSTRUCT 4"-PCC PAVEMENT, SEE SHEET 3 FOR DETAILS











SCOPE OF WORK:

- RECONSTRUCT PAVEMENT SLOPE TO MEET ADA REQUIREMENTS INCLUDING ADD ADA RAMP

BENCHMARK

B.M. No. E2-J3 Elevation (ft) : (696.956) Location Description : P.K. Nail and City Engineer Tag

in the Northwesterly curb

PLANS PREPARED UNDER THE SUPERVISION O

 $//\sim$

07/23/2024

BROFES. No.⁷⁹⁷⁰² EXP. 09-30-24

GUAN WANG, P.E.79702 return of Magnolia Av. and Pierce St.



ABBREVIATIONS:

AC .

C/B

CBW.

CL

CLF ..

D/A.

FP

EX.

FF. FG ..

FH.

FL.

FS ..

GV.

HP

INV

MIN.

NTS

PCC

PVMT.

RW.

SMH

S/W

STA

STD.

SHI

TBR

TC ..

TG.

TW.

WF.

WM

P/L PM.

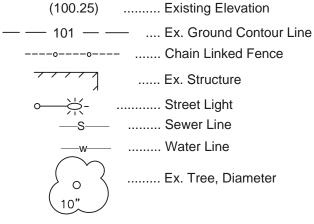
CONC. .

- Asphalt Concrete
- Catch Basin
- Concrete Block Wall .. Center Line
- .. Chain Link Fence
- . Concrete
- . Driveway Appron . Edison Pole
- . Existing
- Finished Floor Elevation
- Finished Grade
- .. Fire Hydrant
- Flow Line Elevation
- . Finished Surface

Gas Valve

- High Point
- Invert Elevation Minimum
- Not To Scale
- . Portland Cement Concrete Property Boundary Line
- Parking Meter
- Pavement
- Retaining Wall Sewer Manhole
- Sidewalk Station
- Standard Sheet
- To Be Removed Top of Curb Elevation
- . Top of Grate Elevation .. Top of Wall Elevation
- . Retaining Height Height of Retaining Wall
- Wooden Fence . Water Meter

LEGEND:



..... ADA Path of Travel

Earthwork Quantities:

Cut 4 (cy), Fill including 15%shrinkage 8 (cy) Total Cut and Fill <u>12</u> (cy) Import<u>4</u>(cy)

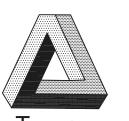
CUT AND FILL AMOUNT IS ESTIMATED ONLY. ACTUALLY AMOUNT MAY VARY DUE TO OTHER UNKNOWN FACTORS. (SITE CONDITION, SOIL ENGINEER' S RECOMMENDATION)

SHEET INDEX

SHEET 1 TITLE SHEET SHEET 2 ENTRANCE IMPROVEMENT PLAN SHEET 3 DETAILS

SHEET 4 TOPOGRAPHIC MAP





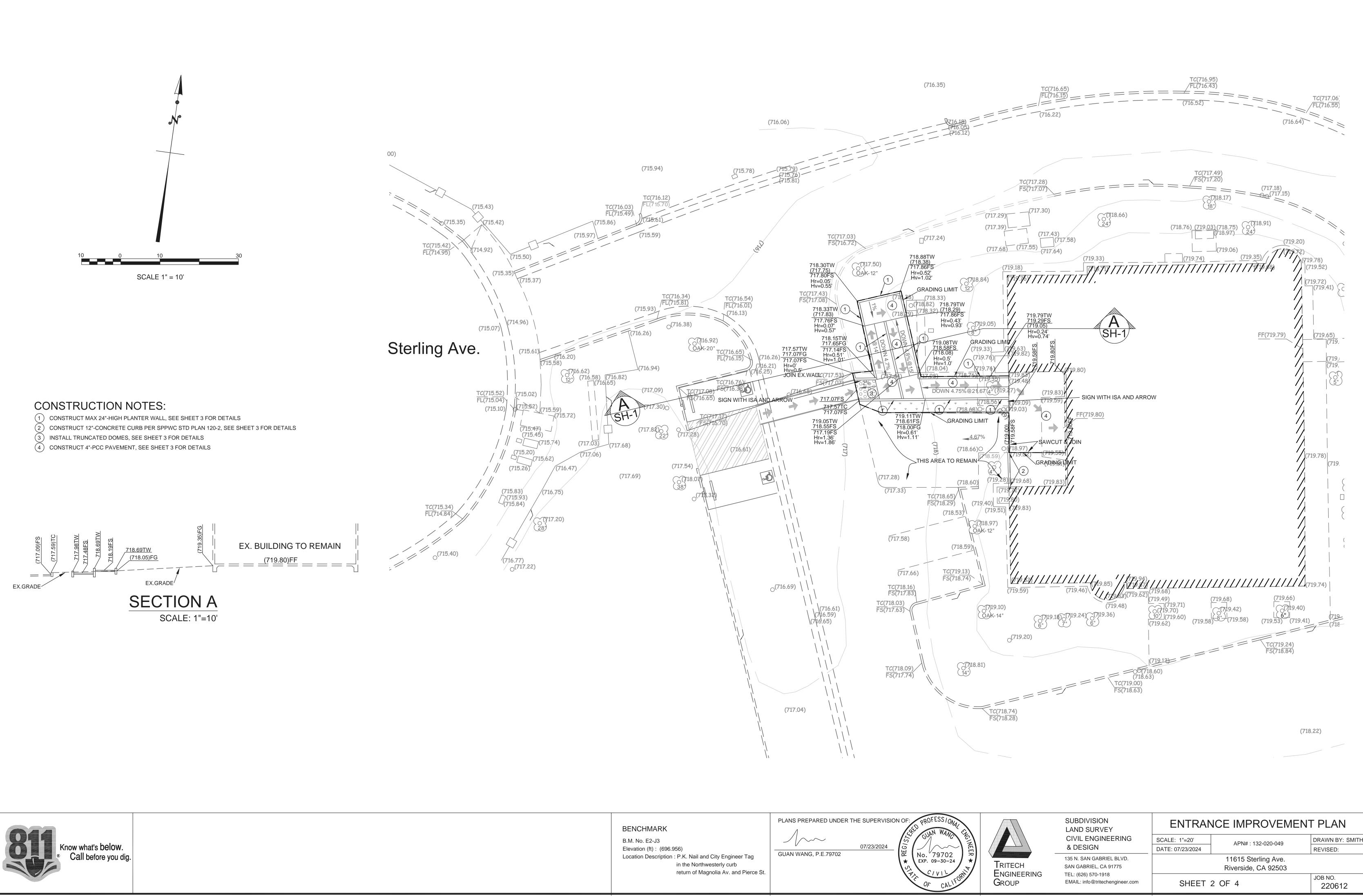
TRITECH Engineering GROUP

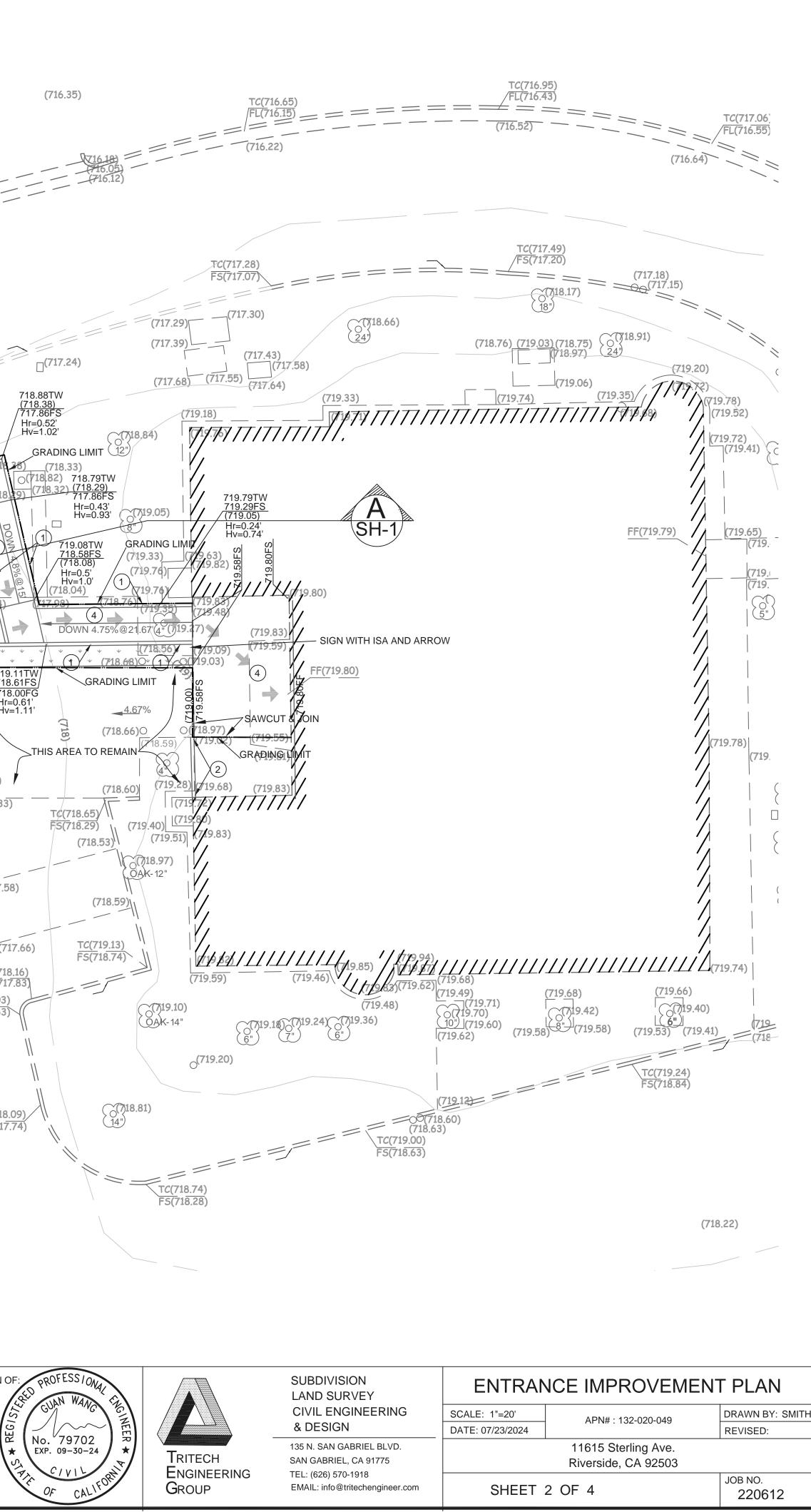
SUBDIVISION LAND SURVEY **CIVIL ENGINEERING** & DESIGN 135 N. SAN GABRIEL BLVD. SAN GABRIEL, CA 91775 TEL: (626) 570-1918 EMAIL: info@tritechengineer.com

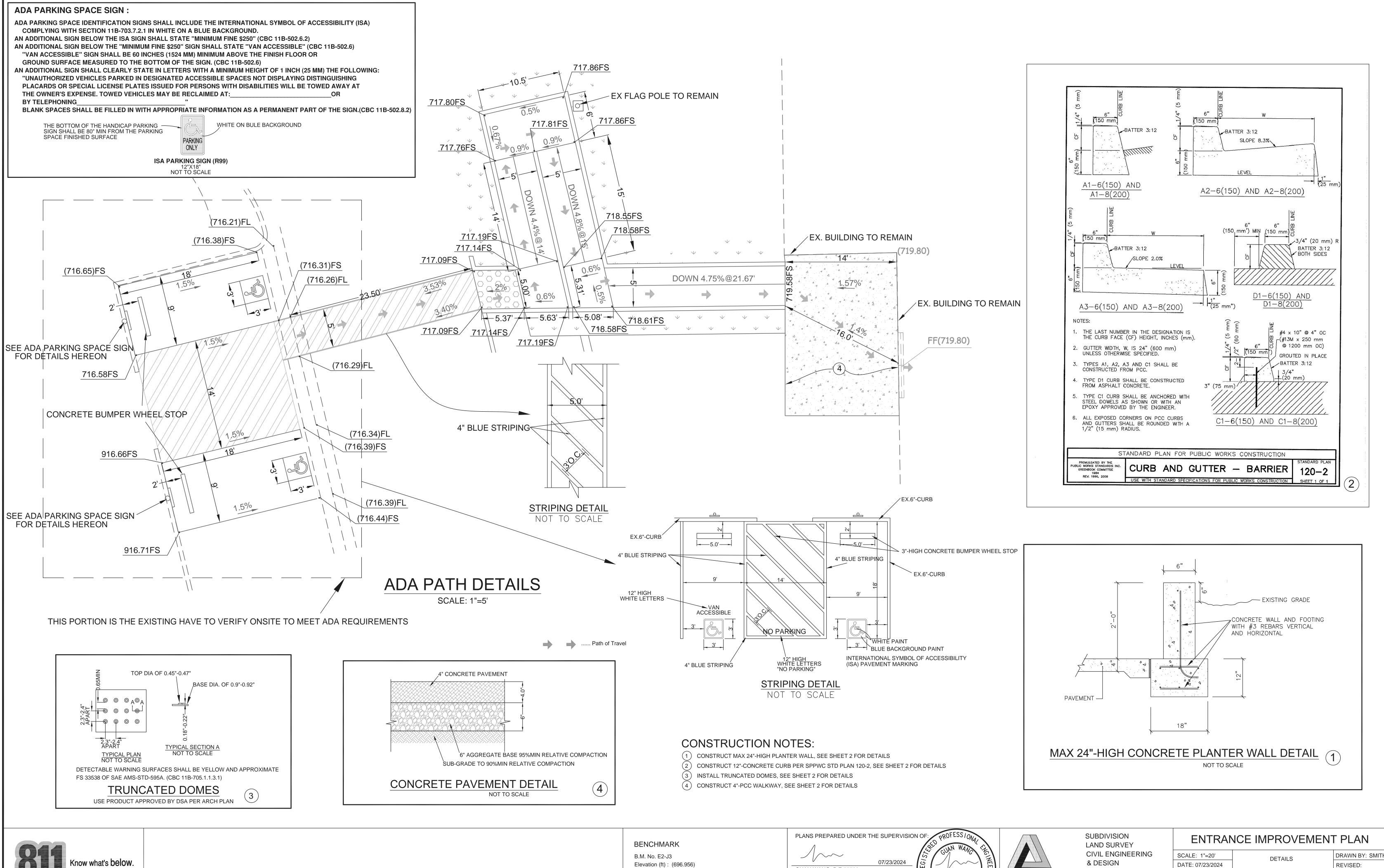
ENTRANCE IMPROVEMENT PLAN					
SCALE: 1"=20'	- APN# : 132-020-049	DRAWN BY: SMITH			
DATE: 07/23/2024		REVISED:			
11615 Sterling Ave.					
Riverside, CA 92503					
		JOB NO.			

SHEET 1 OF 4

220612







Know what's below. Call before you dig.

Location Description : P.K. Nail and City Engineer Tag in the Northwesterly curb return of Magnolia Av. and Pierce St.

GUAN WANG, P.E.79702

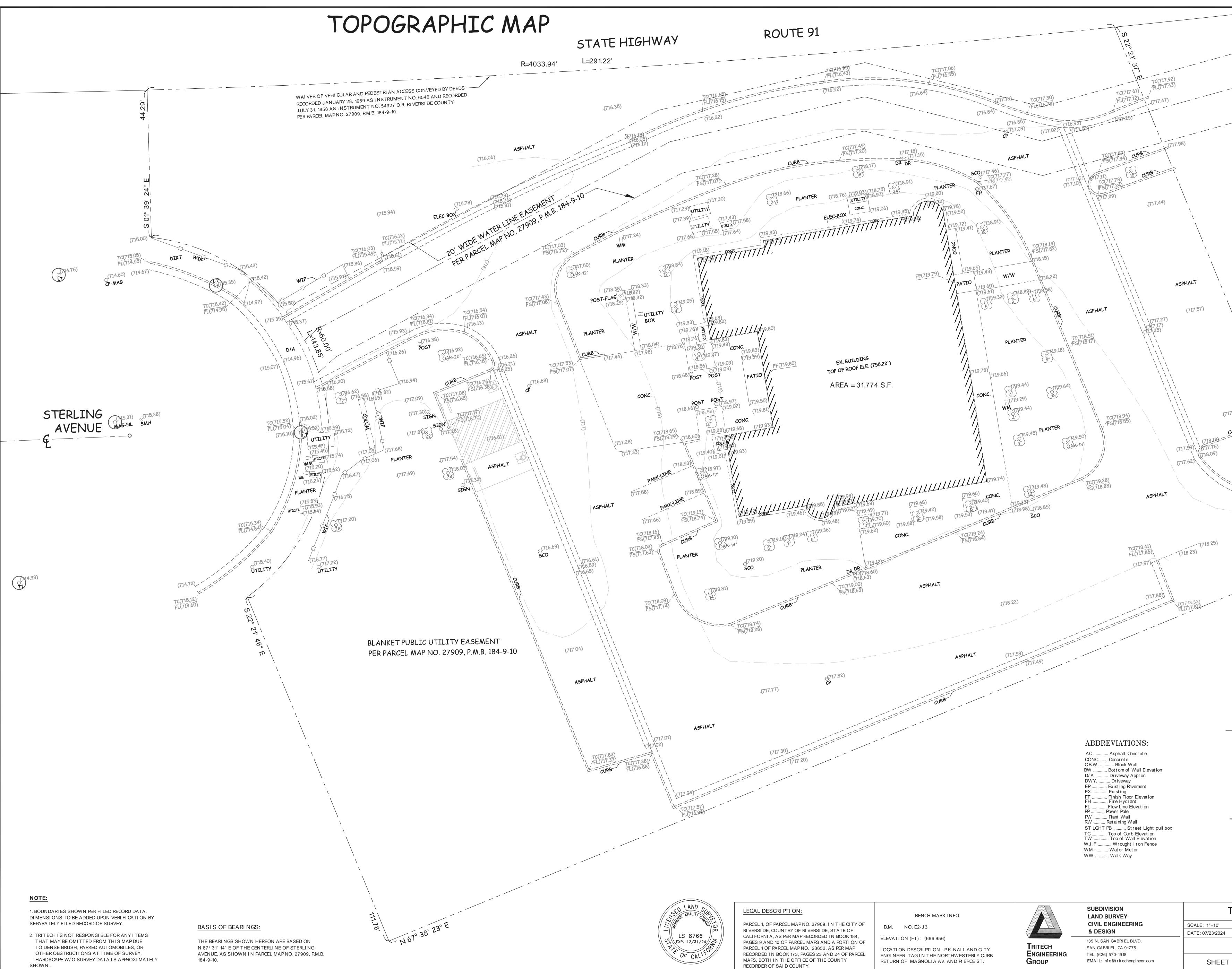


TRITECH

GROUP

Engineering

LAND SURVEY			
CIVIL ENGINEERING	SCALE: 1"=20'	DETAILS	DRAWN BY: SM
& DESIGN	DATE: 07/23/2024	DETALO	REVISED:
135 N. SAN GABRIEL BLVD. SAN GABRIEL, CA 91775		11615 Sterling Ave.	
,	Riverside, CA 92503		
TEL: (626) 570-1918 EMAIL: info@tritechengineer.com	SHEET	3 OF 4	ЈОВ NO. 220612
	8		



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SCALE: 1"=10'
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\setminus
779)
7.79)
\setminus
TC(718.31) /FL(717.98)
TC(718.31) / FL(717.98) / FL(717.98) / FL(717.80) / FL(717.80) / FL(717.80) / FL(717.80) / (718.04) / (718.0
(717.88) = (718.04)
171.02
306.00
50-
(100.25) Existing Elevation
— — 101— — Ex. Ground Cont our Line
Uran Link Fence
Ex. Structure
هــــــــــــــــــــــــــــــــــــ
Ex. Tree, Diameter
16"
Ret aining Wall
Cent er Line
\bigcirc
Mail Box
APN# : 132-020-049 APN# : 132-020-049 REVISED: C.M.
11615 STERLING AVENUE, RIVERSIDE, CA 92503
4 OF 4 JOB NO. 220612
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