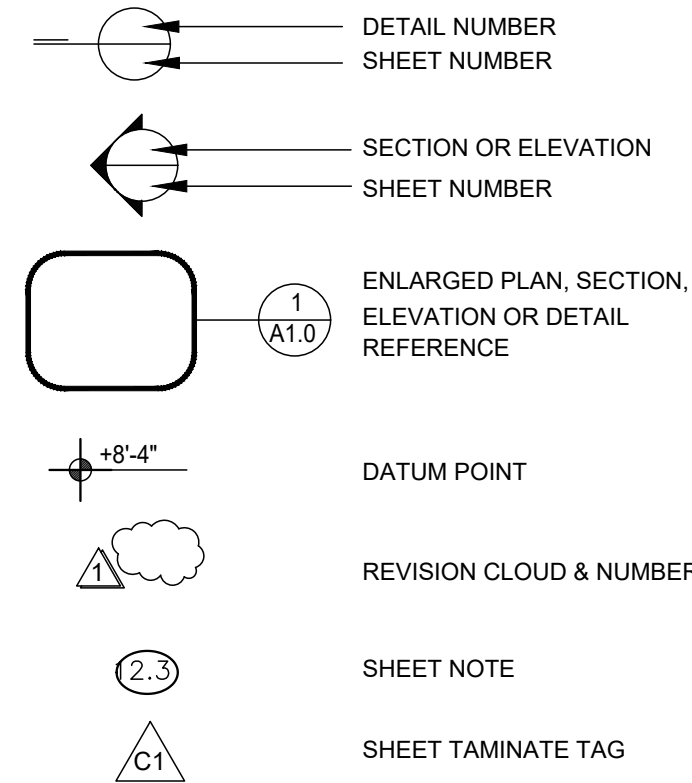


GENERAL NOTES:

- THESE GENERAL NOTES SHALL APPLY TO ALL WORK AND ALL DRAWINGS IN THIS SET AND SHALL EXTEND TO ANY CHANGES, EXTRAS, OR ADDITIONS AGREED TO DURING THE COURSE OF THE WORK.
- BIDDERS ARE INSTRUCTED TO VISIT AND INSPECT PREMISES PRIOR TO SUBMITTING THEIR PROPOSALS AND TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. NO SUBSEQUENT EXTRAS OR ADDITIONS WILL BE ALLOWED ON ANY CLAIM OF LACK OF KNOWLEDGE OF CONDITIONS OR CIRCUMSTANCES ABOUT WHICH THE BIDDER COULD HAVE INFORMED HIMSELF. APPOINTMENTS SHALL BE ARRANGED THROUGH THE OWNER.
- BIDDERS SHALL MAKE KNOWN TO THE OWNER ANY LIMITATIONS, EXCLUSIONS OR MODIFICATIONS TO THE PROJECT DURING THE BIDDING PHASE OF THE PROJECT. UNLESS NOTED, THEY WILL BE PRESUMED INCLUDED BY THE OWNER.
- PERMITS: THE OWNER SHALL OBTAIN AND PAY FOR GENERAL CONSTRUCTION PERMIT(S) REQUIRED FOR THE WORK. PLUMBING, HVAC, AND ELECTRICAL SUBCONTRACTORS SHALL OBTAIN AND PAY FOR THE PERMIT(S) REQUIRED FOR THEIR RESPECTIVE WORK. DO NOT BEGIN OPERATIONS UNTIL ALL SUCH AGENCIES HAVE BEEN NOTIFIED AND PERMITS HAVE BEEN ISSUED FOR THE CONSTRUCTION PROJECT.
- THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED. WHERE THE TERM "OR APPROVED EQUAL" IS USED, THE ARCHITECT ALONE SHALL DETERMINE THE EQUALITY BASED UPON THE INFORMATION SUBMITTED BY THE CONTRACTOR FROM THE MANUFACTURER.
- THE SUBCONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND VERIFY ALL GOVERNING DIMENSIONS AT THE BUILDING PRIOR TO THE COMMENCEMENT OF WORK. HE SHALL EXAMINE ALL ADJOINING WORK OR AREAS UPON WHICH THE PERFORMANCE OF HIS WORK IS IN ANY WAY DEPENDENT. ANY VARIATIONS OR DISCREPANCIES SHALL BE REPORTED WITH ALL DUE EXPEDIENCY TO THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION OF THE WORK IN QUESTION.
- ANY INFORMATION REQUIRED BY THE SUBCONTRACTORS THAT IS NOT SHOWN ON THE DRAWINGS OR OTHER CONTRACT DOCUMENTS SHALL BE REQUESTED PRIOR TO BID OR COMMENCING ANY WORK.
- GREAT CARE SHALL BE EXERCISED TO ASSURE THAT THE BUILDING SHALL BE PROTECTED FROM DAMAGE THAT COULD OCCUR BECAUSE OF THIS WORK AND SUBCONTRACTORS SHALL PROVIDE PROTECTION FOR EXISTING AREAS AND NEW WORK AREAS. ANY DAMAGES DUE TO THIS WORK OR ACCIDENTS SHALL BE REPAIRED, REPLACED, OR PATCHED AT THE DISCRETION OF THE OWNER. THE SUBCONTRACTOR SHALL BEAR FINANCIAL RESPONSIBILITY FOR SUCH DAMAGE AND ANY WORK UNDERTAKEN TO CORRECT IT.
- WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL CONSTRUCTION SAFETY AND SANITARY LAWS, CODES, STATUTES, AND ORDINANCES. ANY DISCREPANCIES, VARIATIONS, OR OMISSIONS IN THE CONTRACT DOCUMENTS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT.
- THE SUBCONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK OR CHANGES FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR SUCH EXTRA COMPENSATION.
- DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.
- ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR AND WATER LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- ALL INSTALLED PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL OPERATE AS QUIETLY AND FREE OF VIBRATION AS POSSIBLE.
- ALL ROOFING MATERIALS (AS NOTED ON DRAWINGS) SHALL BE APPLIED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND THE 2019 CBC.
- ALL WORK AND MATERIALS SHALL BE GUARANTEED AGAINST DEFECTS IN DESIGN, WORKMANSHIP, AND MATERIALS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM APPROVAL FOR FINAL PAYMENT.
- DRAWINGS IN THIS SET AND THE DESIGNS THEREON ARE THE PROPERTY OF THE ARCHITECT.
- ALL VENTS AND/OR DUCTS WHICH PENETRATE ROOFS OR EXTERIOR WALLS ARE TO BE PROPERLY SLEEVED, FLASHED, AND COUNTERFLASHED FOR A COMPLETE WATER TIGHT ASSEMBLY.

CONSTRUCTION PLAN NOTES:

- THOROUGHLY EXAMINE THE JOB SITE AND REVIEW EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN FIELD CONDITIONS AND DRAWINGS. ALLOW SUFFICIENT TIME FOR RESOLUTION WITHOUT DELAYING THE WORK.
- TELECOMMUNICATIONS SYSTEMS INSTALLATION AND OTHER WORK NOT INCLUDED IN THIS CONTRACT WILL BE EXECUTED DURING THE CONTRACT TIME. MAKE PROVISIONS FOR N.I.C. ITEMS. COOPERATE WITH PERSONNEL AND PROVIDE ACCESS TO AREAS, SERVICES, ETC.
- PROVIDE WORK AND MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- CONFIRM APPROPRIATE ON-SITE DELIVERY DATES FOR ALL CONSTRUCTION MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS. NOTIFY THE OWNER IN WRITING OF ANY POSSIBLE CONSTRUCTION DELAYS AFFECTING OCCUPANCY THAT MAY ARISE DUE TO THE AVAILABILITY OF SPECIFIED PRODUCTS.
- MAINTAIN ALL BUILDING LIFE SAFETY, FIRE PROTECTION, AND SECURITY SYSTEMS AT ALL TIMES.
- REPORT ANY HAZARDOUS MATERIALS ENCOUNTERED TO THE OWNER.
- ALL WORK SHALL BE PLUMB, SQUARE, LEVEL, TRUE IN PROPER ALIGNMENT, AND SECURELY FASTENED.
- AS APPLICABLE, SECURELY ANCHOR ALL WORK, INCLUDING NOT-IN-CONTRACT ITEMS SUCH AS FILE CABINETS, ETC., TO ADJACENT STRUCTURE AND SCRIBE TO ADJACENT SURFACE AS APPLICABLE; VERIFY NOT-IN-CONTRACT ITEM INSTALLATION DATES AND COORDINATE AS REQUIRED.
- LAY OUT PARTITIONS ON THE FLOOR FOR ARCHITECT AND OWNER'S REVIEW PRIOR TO FRAMING ANY WALL.
- PARTITIONS ARE DIMENSIONED TO FACE OF FINISH, U.N.O.
- CLEAR DIMENSIONS AS NOTED ARE NOT ADJUSTABLE.
- DIMENSIONS TO EXTERIOR PERIMETER WINDOW WALL ARE TO FACE OF WALL BELOW SILL.
- DIMENSIONS SHALL BE EXACT WITHIN 1/8" IN 10'-0" ALONG FULL HEIGHT AND LENGTH OF PARTITIONS.
- VERIFY PARTITION THICKNESS FOR ITEMS SUCH AS PLUMBING, PANELS, CABINETS, ETC., AND NOTIFY THE ARCHITECT OF ANY CONFLICTS.



Legend

- THESE CONSTRUCTION DOCUMENTS ARE FOR INTERIOR IMPROVEMENTS TO EXISTING CONDITIONS ONLY.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DOCUMENTS AND SITE CONDITIONS PRIOR TO COMMENCING WORK. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES IN THESE DOCUMENTS. IF THE CONTRACTOR PROCEEDS WITH WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE ARCHITECT, THE CONTRACTOR SHALL MAKE GOOD ALL RESULTING DAMAGES OR DEFECTS.
- CONTRACT DOCUMENTS: THE GENERAL CONTRACTORS AGREEMENT TO THE OWNER WILL BE BASED ON THESE DOCUMENTS WHEN MARKED "CONSTRUCTION" ON THE TITLE BLOCK. DOCUMENTS MARKED OTHERWISE WILL NOT BE CONSIDERED AS CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ASSURE THAT THE CONTRACT PRICE REFLECTS THE WORK INDICATED IN THESE DOCUMENTS WHEN MARKED "CONSTRUCTION. CHANGE ORDERS FOR ITEMS DUE TO THIS WILL NOT BE CONSIDERED.

FIRE DEPARTMENT NOTES

GENERAL CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS MOUNTED WITHIN 75 FEET OF TRAVEL OF ALL AREAS OF FINISHED INTERIOR SPACE AS REQUIRED BY LOCAL CODES. TYPE 2A10BC LOCATED AND INSTALLED PER FIRE DEPT. REGULATIONS.

General Notes

&	AND	EQ	EQUAL	OC	ON CENTER
@	AT	EQIP	EQUIPMENT	OPNG	OPENING
#	POUND	EXT	EXTERIOR	O/	OVER
Ø	DIAMETER	FF	FINISH FLOOR	PLYWVD	PLYWOOD
AB	ANCHOR BOLT	FLR	FLOOR	PTDF	PRESSURE
ADA	AMERICANS WITH DISABILITY ACT	FOS	FACE OF STUD GAUGE		TREATED DOUG FIR
ADJ	ADJUSTABLE	GALV	GALVANIZED	SCHED	SCHEDULE
AFF	ABOVE FINISH FLOOR	GSM	GALVANIZED SHEET METAL	SGL	SINGLE SHEET
ALUM	ALUMINUM	HT	HEIGHT	SIM	SIMILAR SLOPE
ANOD	ANODIZED	ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY POUNDS	SQFT	SQUARE FEET
APPROX	APPROXIMATE	SS	STAINLESS STEEL	STD	STANDARD STEEL
BLDC	BLOCKING	LBS	POUNDS	STL	STEEL
BLKG	BLOCKING	M.E.	MATCH EXISTING	TYP	TYPICAL
CBC	CALIFORNIA BUILDING CODE	MIN	MINIMUM	UNO	UNLESS NOTED
CLG	CEILING	MISC	MISCELLANEOUS	OTHERWISE	
CLR	CLEAR	MTD	MOUNTED	VIF	VERIFY IN FIELD
CONC	CONCRETE	(N)	NEW	VTR	VENT TO ROOF
DIA	DIAMETER	NIC	NOT IN CONTRACT	W/	WITH
DIM	DIMENSION	NTS	NOT TO SCALE	WD	WOOD
DR	DOOR				
DWG	DRAWING				
(E)	EXISTING				
E/S	EACH SIDE				
EA	EACH				
EL	ELEVATION HEIGHT				

Abbreviations

ARCHITECTURAL:

A0.1	COVER SHEET	E2.1	ELECTRICAL POWER PLAN
A1.1	SITE PLAN	E2.2	ELECTRICAL CEILING PLAN
A1.2	LANDSCAPE AND IRRIGATION PLAN	M2.1	MECHANICAL PLAN
A2.0	DEMOLITION PLAN	P2.1	DOMESTIC WATER PIPING PLAN
A2.1	FLOOR PLAN & DETAILS	P2.2	SANITARY WASTE & VENT PIPING PLAN
A2.2	ACCESSIBILITY & EGRESS PLAN	TITLE 24 ENERGY COMPLIANCE:	
A3.1	TOILET ROOM PLANS & DETAILS	T24-L1	TITLE 24 ENERGY ANALYSIS (LIGHTING)
A3.2	DOOR & WINDOW SCHEDULE	T24-M1	TITLE 24 ENERGY ANALYSIS (MECHANICAL)
A4.1	EXTERIOR ELEVATIONS	T24-P1	TITLE 24 ENERGY ANALYSIS (WATER HEATER)
A4.2	INTERIOR ELEVATIONS & DETAILS		
A6.1	REFLECTED CEILING PLAN		

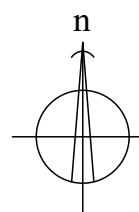
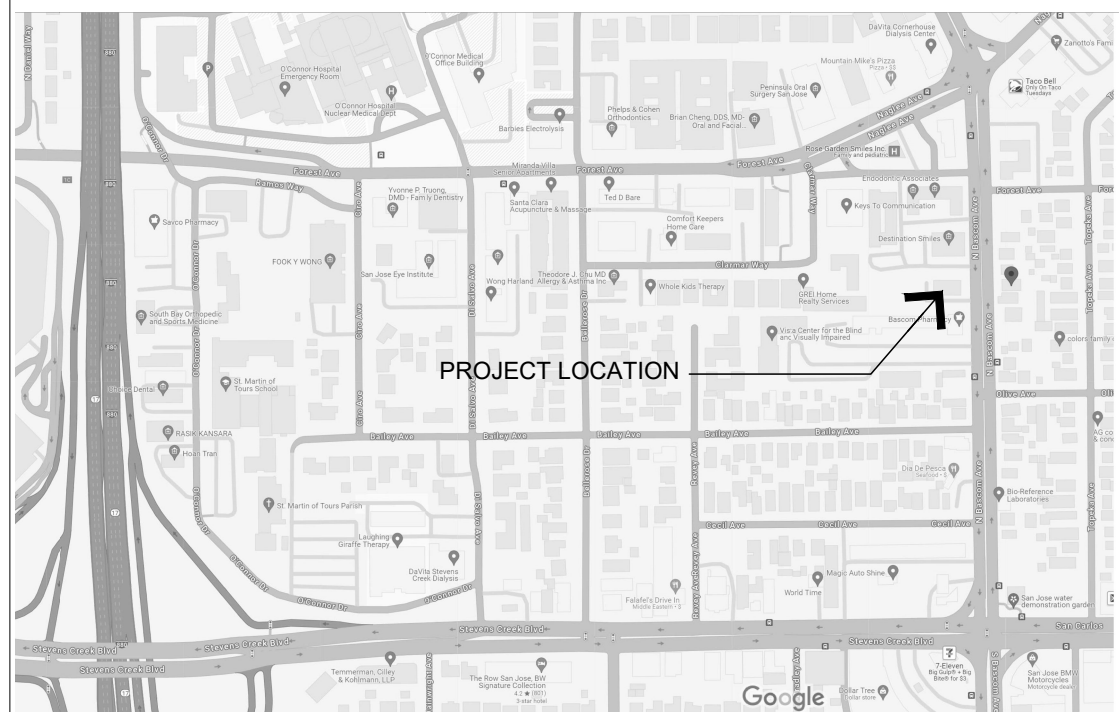
Sheet Index

THE CONSTRUCTION COST OF THIS PROJECT EXCLUDING DISABLED ACCESSIBILITY UPGRADES IS \$ 230,000, WHICH IS GREATER THAN \$200,389 "2024 ENR CONSTRUCTION COST INDEX". THE EXISTING BUILDING IS IN FULL COMPLIANCE WITH THE CURRENT DISABLED ACCESSIBILITY REQUIREMENTS.

	Existing Complying	Upgrade to 100% Complying	Partial Upgrade/ Equivalent Facilitation	None	Details Shown on Sheet No.
At least one accessible entrance serving the area of remodel		X			A1.1
An accessible route to the area of remodel		X			A1.1
At least one accessible restroom for each sex serving the area of remodel		X			A3.1
Accessible Telephone				X	
Accessible drinking fountain				X	
Signage			X		A1.1
Visual Alarm				X	
Parking		X			A1.1
Elevator				X	

Upgraded Cost % of Total Cost above

Accessibility Compliance



Vicinity Map

THE WORK OF THIS PROJECT CONSISTS OF THE FOLLOWING:

- DEMOLISH EXISTING NON-LOAD BEARING WALLS AS SHOWN ON DEMOLITION PLAN.
- REMOVE ALL EXISTING GYP. BOARD CEILING AND LIGHT FIXTURES.
- REMOVE ALL EXISTING WALL & FLOOR FINISHES.
- REMOVE ALL EXISTING CASEWORK.
- CONSTRUCT NON-LOAD BEARING PARTITIONS.
- INSTALL POWER, WATER, DRAIN, VACUUM LINES TO LOCATION INDICATED.
- PROVIDE NEW LIGHTING AS SHOWN.
- PROVIDE NEW DUCT WORK. CONNECT TO EXISTING HVAC UNIT.
- INSTALL FINISHES AS SHOWN AND AS DIRECTED BY TENANT.
- PROVIDE NEW GYP. BOARD CEILING AS SHOWN.
- PROVIDE ACCESSIBLE RESTROOMS.
- PROVIDE ACCESSIBLE PARKING SPACE AND WALKWAY TO THE BUILDING.
- ALIGN (E) PARKING SPACES AND REPAINT THEM.

Scope of Work

PLOT AREA	4995 SF
BUILDING AREA:	1287 SF.
AREA OF WORK:	1140 SF.
BUILDING CODE OCCUPANCY GROUP:	B
BUILDING CONSTRUCTION TYPE:	V-B (2022 CBC)
STORIES:	1
EXISTING PARKING SPACE	5
PROPOSED PARKING SPACE	5
FIRE SPRINKLERS:	NO
PREVIOUS USAGE:	MEDICAL OFFICE
PROPOSED USAGE:	DENTAL OFFICE
BUILT-IN MEDICAL GAS SYSTEM:	NO
FLOOD ZONE:	D

OCCUPANCY LOAD CALCULATIONS:

ROOM	AREA	O.L.F	OCCUPANCY	EXITS REQ.
WAITING, BREAK	163 SF	15	11	1
RECEPTION	74 SF	50	2	1
DR. OFFICE	76 SF	150	1	1
OPERATORIES, LAB	500 SF	100	5	1
HALLWAY, BATHROOM	327 SF	-	-	-
TOTAL OCCUPANT LOAD:			19	1

CODES:

- CALIFORNIA FIRE CODE (2022 EDITION)
- CALIFORNIA BUILDING CODE (2022 EDITION)
- CALIFORNIA MECHANICAL CODE (2022 EDITION)
- CALIFORNIA PLUMBING CODE (2022 EDITION)
- CALIFORNIA ELECTRICAL CODE (2022 EDITION)
- CALIFORNIA ENERGY CODE (TITLE 24)

Project Data



Shultz & Associates
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 Suite 309
 Fremont, CA 94538
 karl@shultzassociates.com
 PHONE: 510-796-7801

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RELEASE STATUS DATE

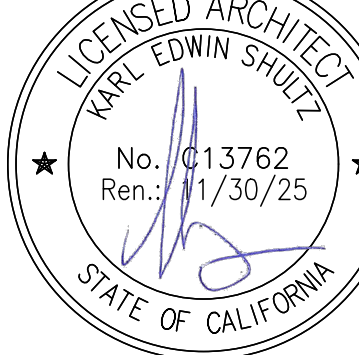
- CLIENT REVIEW
- PLAN CHECK
- CONSTRUCTION

REVISIONS

NO.	DESCRIPTION
1	
2	
3	
4	
5	

Project:
Esmaili Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128

Stamp



Sheet Title:

COVER SHEET

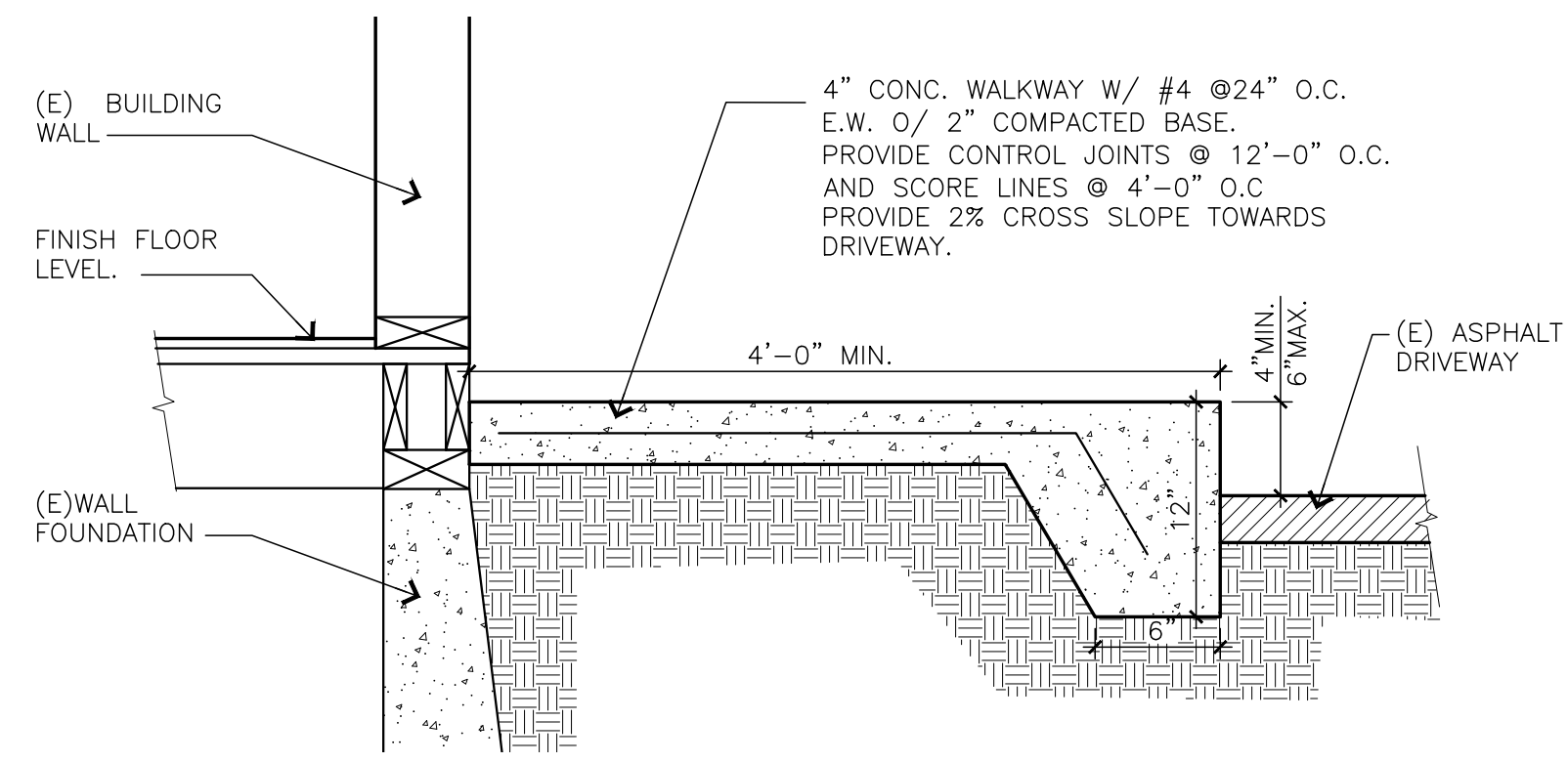
Date: 06-03-2024

Project # 2416

Sheet No.:

A0.1

General Notes



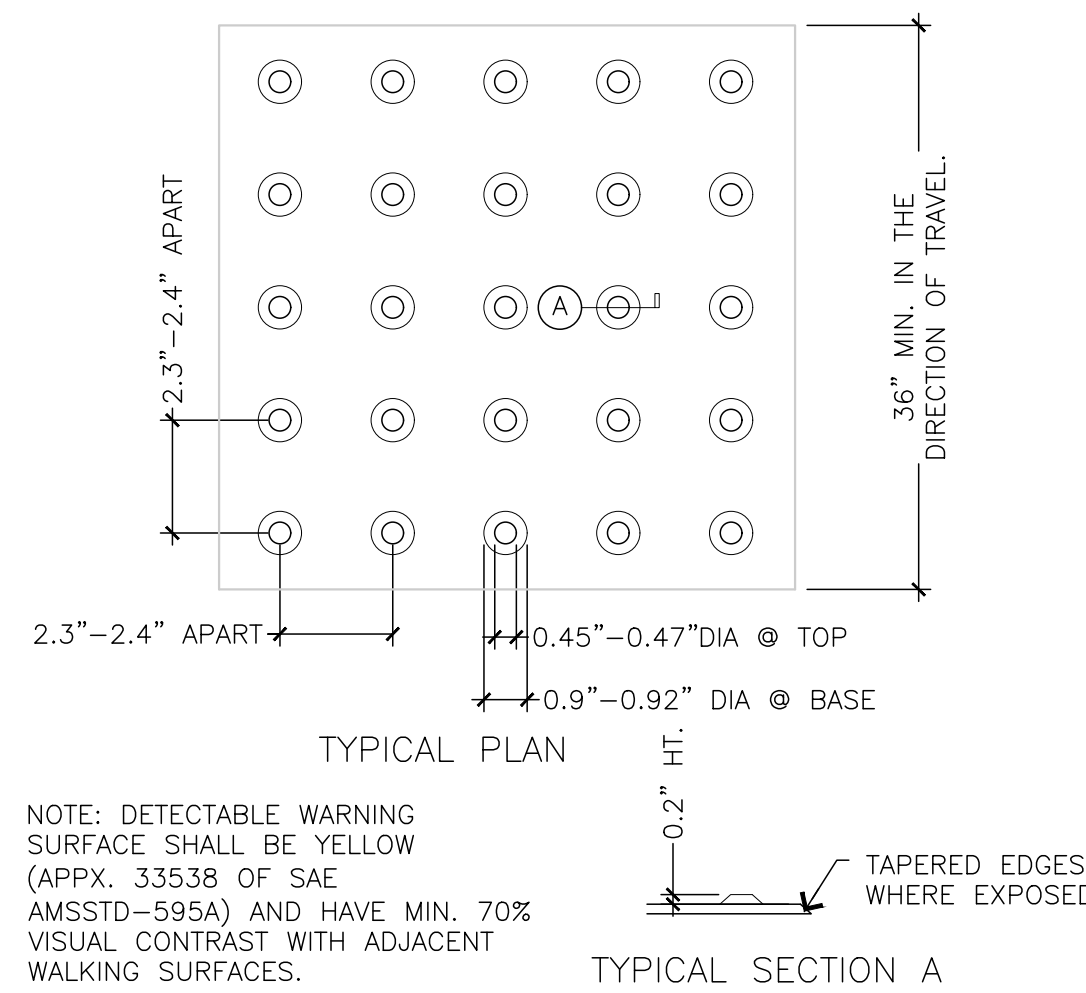
Concrete Walkway Section 16
Scale: 1"=1'-0"

THE SURFACE OF EACH ACCESSIBLE PARKING STALL OR SPACE TO HAVE A SURFACE IDENTIFICATION DUPLICATING EITHER OF THE TWO SCHEMES:
 (A) BY OUTLINING OR PAINTING THE STALL IN BLUE AND OUTLINING ON THE GROUND IN THE STALL OR SPACE IN WHITE OR SUITABLE CONTRASTING COLOR THE 'INTERNATIONAL SYMBOL OF ACCESSIBILITY'
 OR
 (B) BY OUTLINING THE 'INTERNATIONAL SYMBOL OF ACCESSIBILITY' IN WHITE ON BLUE BACKGROUND. THE 'INTERNATIONAL SYMBOL OF ACCESSIBILITY' TO BE LOCATED SUCH THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE AND SHALL BE 36" HIGH BY 36" HIGH.
 ACCESSIBLE AISLE: 5'-0" WIDTH TYP. 8'-0" WIDTH WHEN DESIGNATED AS 'VAN ACCESSIBLE'
 THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
 SURFACE OF PARKING SPACE(S) AND ACCESS AISLE(S) SHALL NOT EXCEED 1:50 GRADIENT (2%) IN ANY DIRECTION
 A PARKING BUMPER IS REQUIRED WHEN NO CURB OR BARRIER IS PROVIDED WHICH WILL PREVENT ENCROACHMENT OF CARS OVER THE ADJOINING ROUTE
 CURB RAMP SHALL NOT ENCROACH INTO THE REQUIRED DIMENSIONS OF DISABLED PARKING SPACES OR ADJACENT ACCESS AISLES
 ACCESS AISLE MUST CONNECT TO AN ACCESSIBLE PATH OF TRAVEL TO THE FACILITY
 THE WORDS 'NO PARKING' ARE PAINTED IN WHITE ON THE GROUND WITHIN EACH ACCESS AISLE. 'NO PARKING' LETTERS ARE A MINIMUM 12" HIGH AND VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS.
 PARKING STALL SIGNAGE TO BE INSTALLED AT EACH SPACE
 THE STRIPED LOADING/UNLOADING ZONES ARE BORDERED WITH BLUE PAINT, WITH DIAGONAL STRIPPING (PREFERABLY WHITE PAINT) AT 36" O.C. WITHIN THE ZONE.

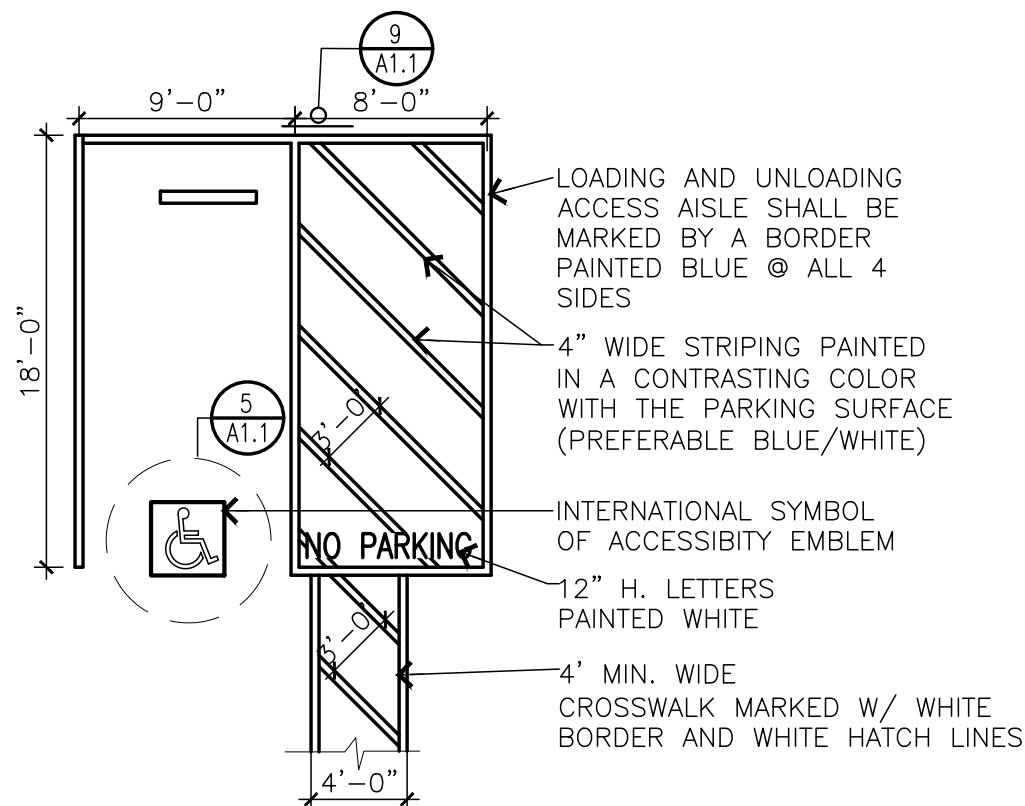
Accessibility Notes 15

- 2.1 NEW 4" CONC. WALKWAY. SEE 16/A1.1
 - 2.2 NEW 6"x6" CONC. CURB
 - 2.3 NEW 4" WIDE CONC. WHEEL STOP
 - 2.4 REMOVE EXISTING PAVEMENT FOR NEW PLANTER. AMEND/REPLACE SOIL AS REQUIRED. SEE A1.2 FOR LANDSCAPE AND IRRIGATION INFORMATION.
 - 2.5 (E)JAC PAVING TO REMAIN. PROVIDE 4" WIDE PARKING STALL STRIPING AS SHOWN
 - 2.6 NEW TRUNCATED DOME MAT. SEE 18/A1.1 FOR DETAIL.
 - 2.7 NEW ACCESSIBLE CROSSWALK TO MARK. CROSSWALK SHALL BE MARKED WITH A PAINTED BORDERLINE. THE AREA WITHIN THE BORDERLINE SHALL BE MARKED WITH HATCHED LINES A MAX. 36" ON CENTER IN A COLOR CONTRASTING W/ ROAD SURFACE. SEE 17/A1.1 FOR DETAIL.
- 10.1 (E) SITE ENTRANCE SIGN LOCATION. SEE 13/A1.1 FOR REFERENCE.
 15.1 EXISTING CONDENSER UNIT TO REMAIN

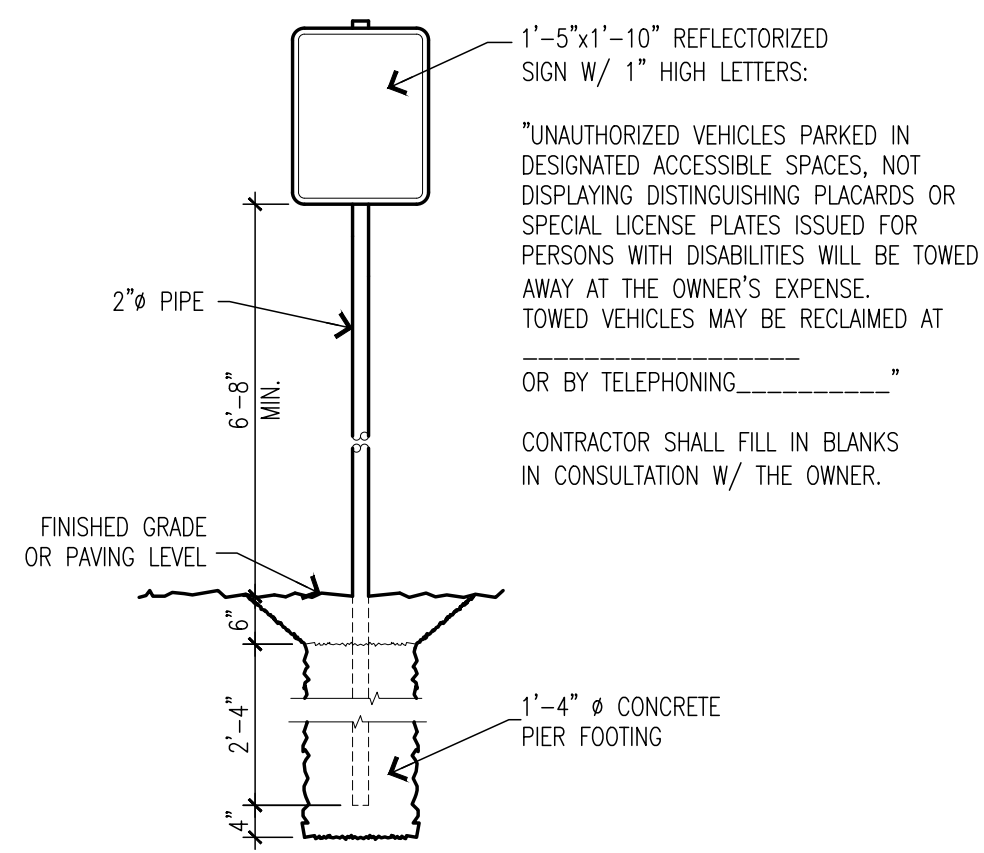
Sheet Notes 14



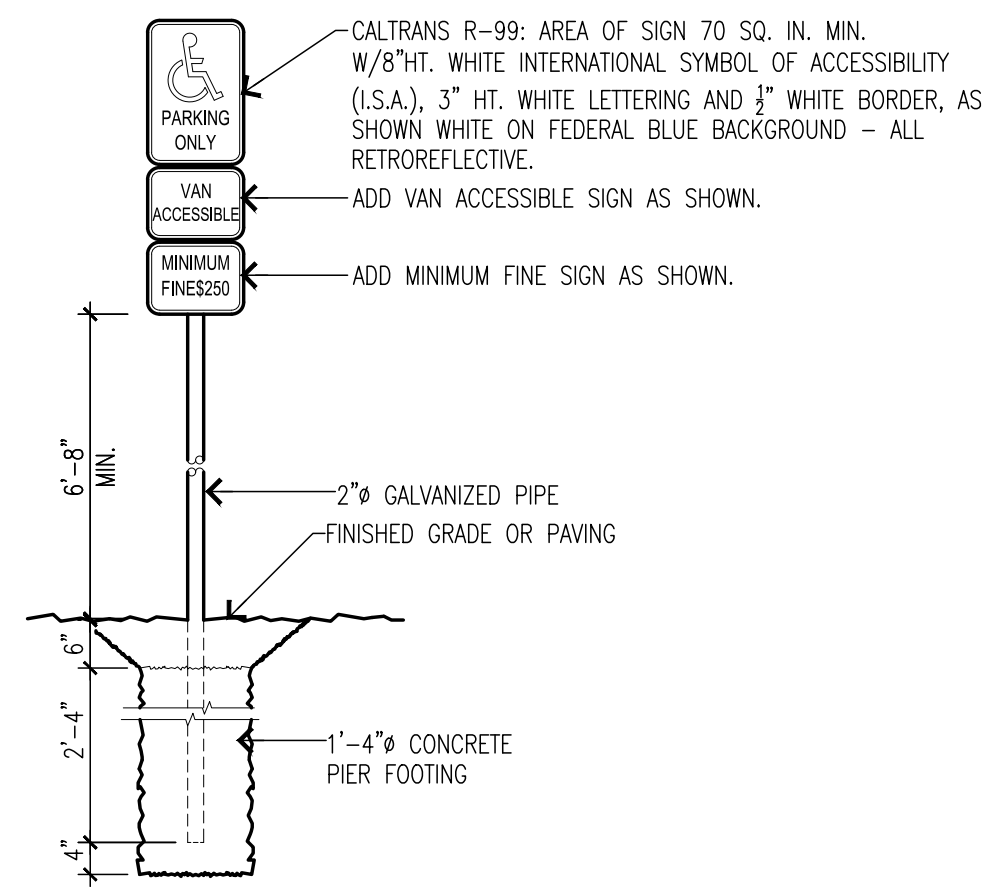
Truncated Dome Mat 18
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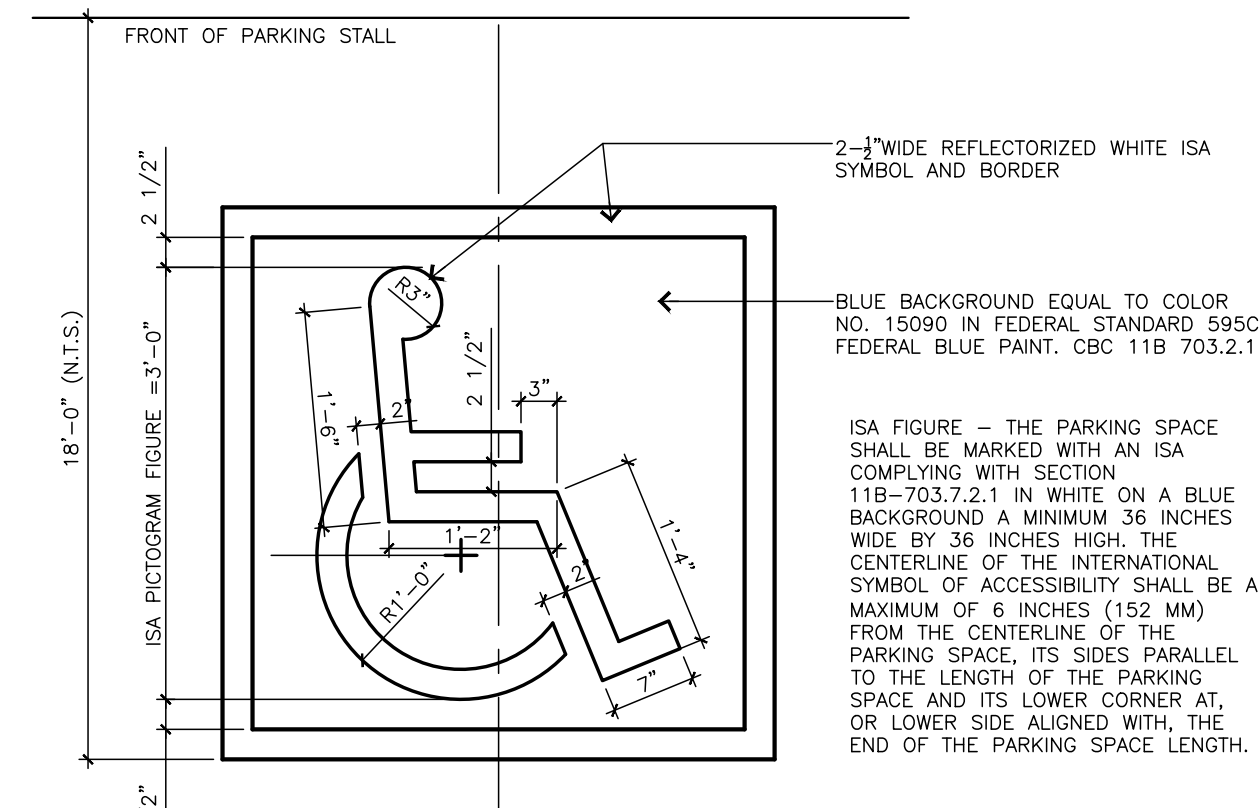
Accessible Parking Stall 17
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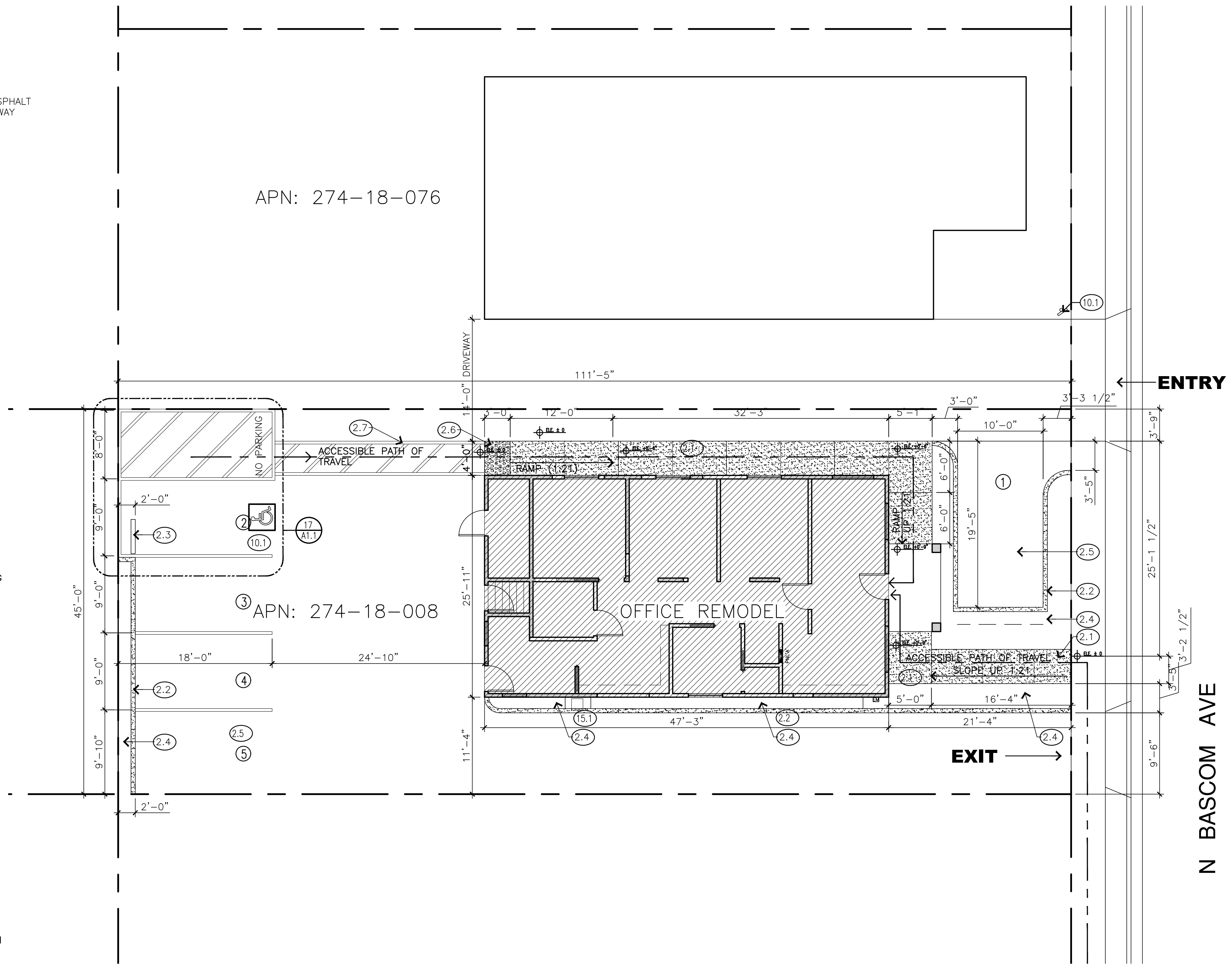
Site Entrance Signage 13
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Accessible Parking Sign 9
Scale: N.T.S.



International Symbol of Accessibility 5
Scale: N.T.S.



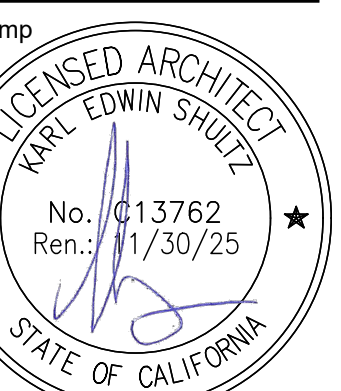
Site Plan 2
Scale: 1/8"=1'-0"

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RELEASE STATUS	DATE
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<input type="radio"/> PLAN CHECK	
<input type="radio"/> CONSTRUCTION	

REVISIONS

Esmaili Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128

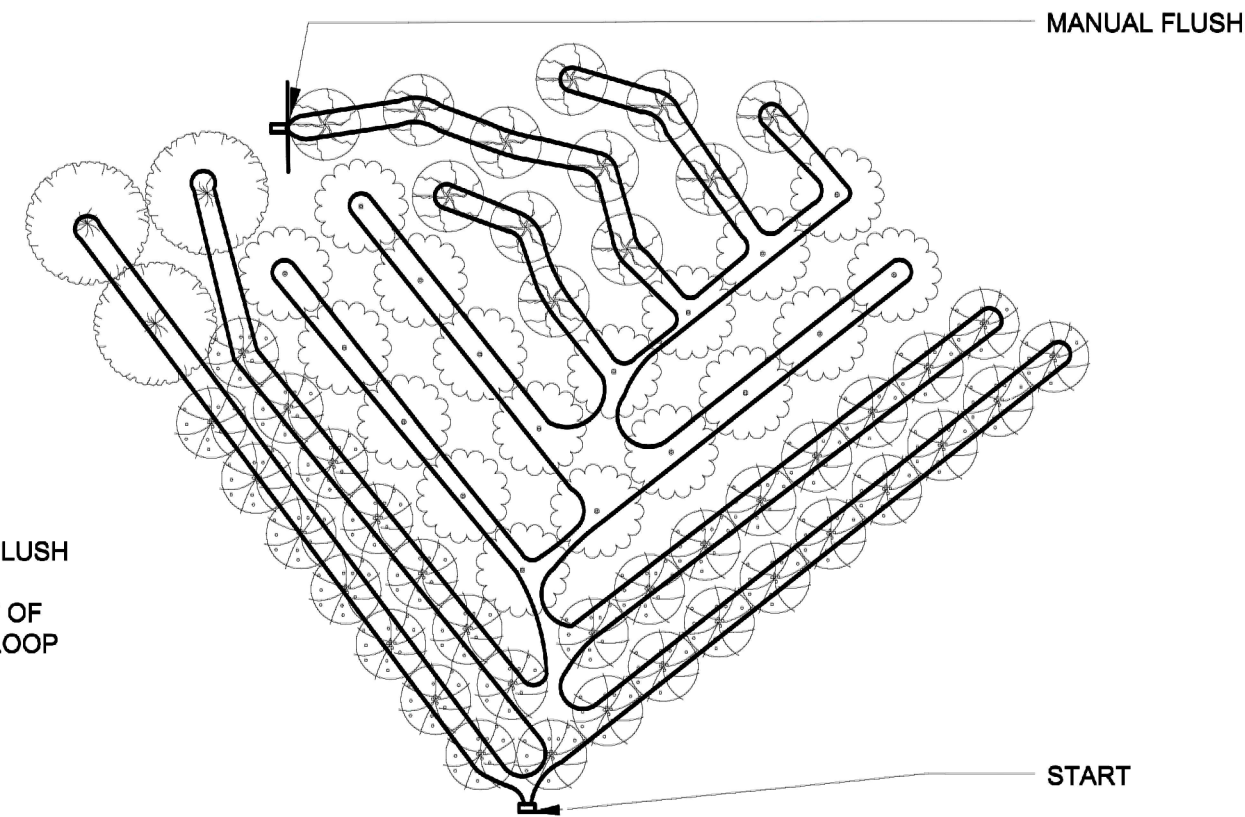


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SITE PLAN

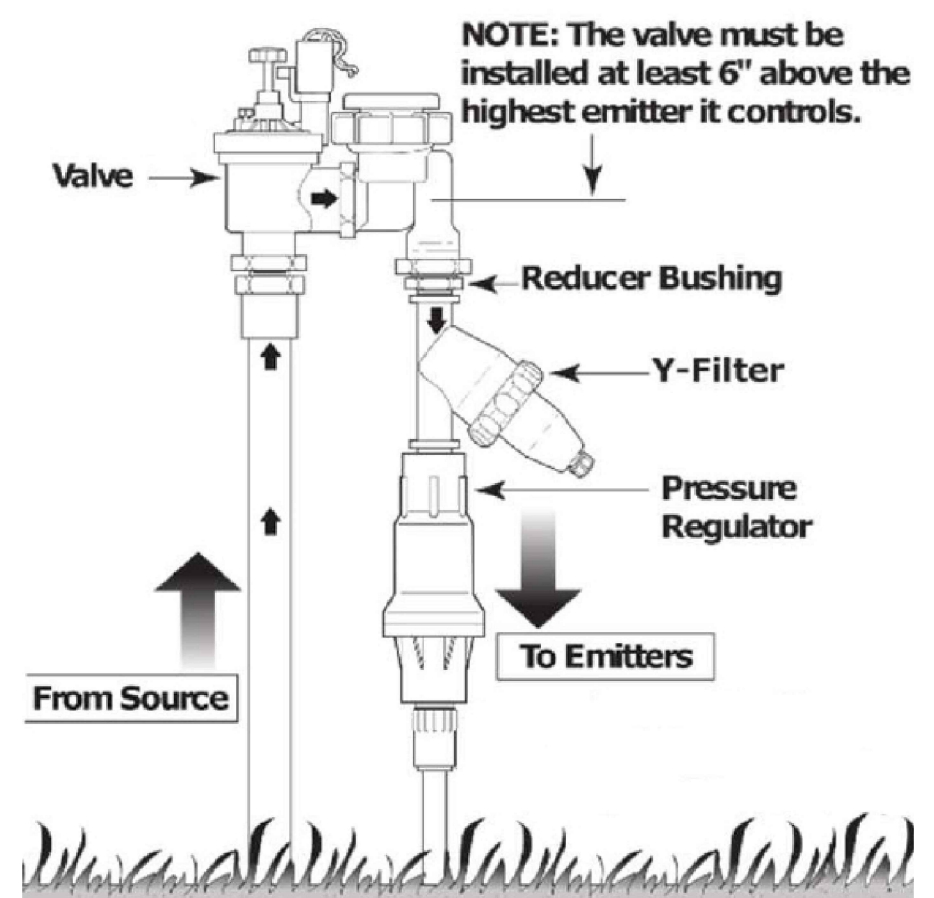
Date: 06-03-2024
 Project #: 2416
 Sheet No.:

A1.1

IRRIGATION NOTES:
 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE CRC 2016, CAL-OSHA, SANTA CLARA COUNTY, STATE OF CALIFORNIA, AND OTHER GOVERNING BUILDING AUTHORITIES.
 2. DIG SAFELY. UNDERGROUND HAZARDS MAY EXIST. CALL UNDERGROUND SERVICES ALERTS (USA) BEFORE YOU DIG.
 3. THE CONTRACTOR SHALL INSPECT THE SITE AND BE FAMILIAR WITH ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS SHOWN WHEN IT IS OBVIOUS THAT OBSTRUCTIONS, LANDSCAPE AREA AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF/HERSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES AND OBSTRUCTIONS. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL COSTS INCURRED DUE TO DAMAGE AND/OR REPLACEMENT OF THESE ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AMONG TRADES AND SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FEATURES CAUSED BY CONTRACTOR'S WORK. ALL REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
 4. PIPING, VALVES AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DRIP LINES MAY SHOW ANGLES BUT ARE TO CURVE SMOOTHLY WITHOUT KINKS OR ANGLE USING THE APPROPRIATE FITTING. DUE TO THE SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES.
 5. COORDINATE WITH OWNER/AUTHORIZED REPRESENTATIVE AND OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT, OR SLEEVES THROUGH OR UNDER PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR REQUIRED REVISIONS.
 6. THE IRRIGATION SYSTEM SHALL BE AN AUTOMATED, WATER EFFICIENT WATERING SYSTEM COMPLIANT WITH SANTA CLARA COUNTY CODES AND REGULATIONS AND THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. IRRIGATION SCHEDULES WILL BE REGULATED USING HUNTER PRO-HC HYDRAWISE 6-STATION SMART CONTROLLER WITH EVAPOTRANSPIRATION RATE AND WEATHER-STATION-BASED PREDICTIVE WATERING TO ADJUST OR SUSPEND IRRIGATION ACCORDING TO WEATHER CONDITIONS. HUNTER HC FLOW METER INSTALLED AS PER DETAIL.
 7. IRRIGATION SCHEDULES WILL BE DESIGNED AND IMPLEMENTED TO MEET THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. THE TOTAL ANNUAL APPLIED WATER SHALL NOT EXCEED THE MAXIMUM APPLIED WATER ALLOWANCE. CONTRACTOR TO SCHEDULE A MEETING WITH THE CLIENT FOR INSTRUCTION ON THE PROPER PROGRAMMING OF THE IRRIGATION CONTROLLER. IRRIGATION WATERING WILL OCCUR BETWEEN THE HOURS OF 8PM - 10AM UNLESS OTHERWISE DICTATED BY WEATHER, DROUGHT EMERGENCY, SYSTEM MAINTENANCE, REPAIR AND OR TESTING. USE MULTIPLE START TIMES IF NECESSARY TO PREVENT RUNOFF.
 8. THERE ARE HYDROZONES. THERE ARE 3 IRRIGATION STATIONS.
 9. THE VALVES HAVE A SHUTOFF BALL VALVE BEFORE THE VALVES AS PER DETAIL. ANTI-SIPHON VALVES MUST BE 6" MINIMUM ABOVE HIGHEST EMITTER OUTLET FOR EVERY ZONE.
 10. OPERATING WATER PRESSURE FOR NETAFIM TECHLINE CV MUST BE BETWEEN 14 AND 58 PSI. CONTACT THE LANDSCAPE ARCHITECT IF STATIC PRESSURE AT THE POINT OF CONNECTION IS BELOW 50 PSI OR ABOVE 120 PSI. WATER MAIN IS 3/4" WITH 23 GPM FLOW RATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL EMITTERS AND FITTINGS OPERATE AT PRESSURES WITHIN THE RANGES RECOMMENDED BY THE MANUFACTURERS.
 11. VALVE WIRE TO BE BURIED INSIDE CONDUIT OR WITH MAINLINE PVC ON UNDERSIDE OF PVC. TAPE OR ZIP-TIE WIRE TO MAINLINE AT 10 FOOT INTERVALS.
 12. DRIP EMITTERS MUST WATER MORE THAN 50% OF ROOT ZONE WITH NO RUNOFF. SHRUBS AND GRASSES GET NETAFIM TECHLINE CV AT THE EDGE OF ROOT BALL ON BOTH SIDES OF THE PLANT. ADD 1 ADDITIONAL 0.5 GPH DRIP EMITTER DIRECTLY AT THE ROOTBALL IF THE TECHLINE EMITTER DOES NOT ALIGN WITH THE ROOTBALL. OKAY TO USE 1/4" EMITTER LINE TO ENSURE WATER REACHES THE ROOT ZONE. EXTEND NETAFIM TECHLINE TWO EMITTERS PAST THE LAST PLANT SERVED BY THE LATERAL LINE WHERE THAT DOESN'T CONFLICT WITH HARDSCAPE.



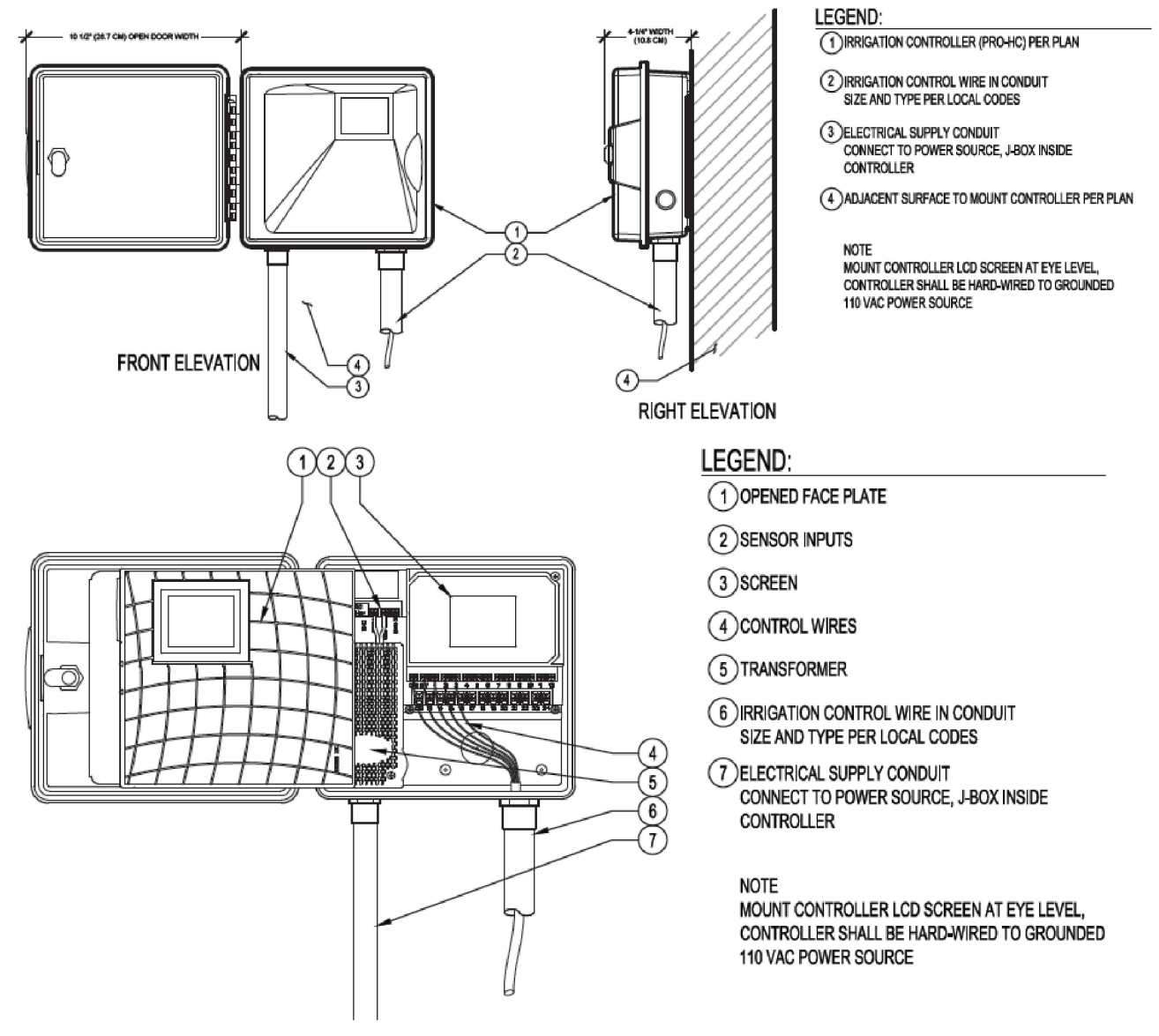
Drip Irrigation Schematic Layout 16



Anti-Siphon Valve Assembly 15

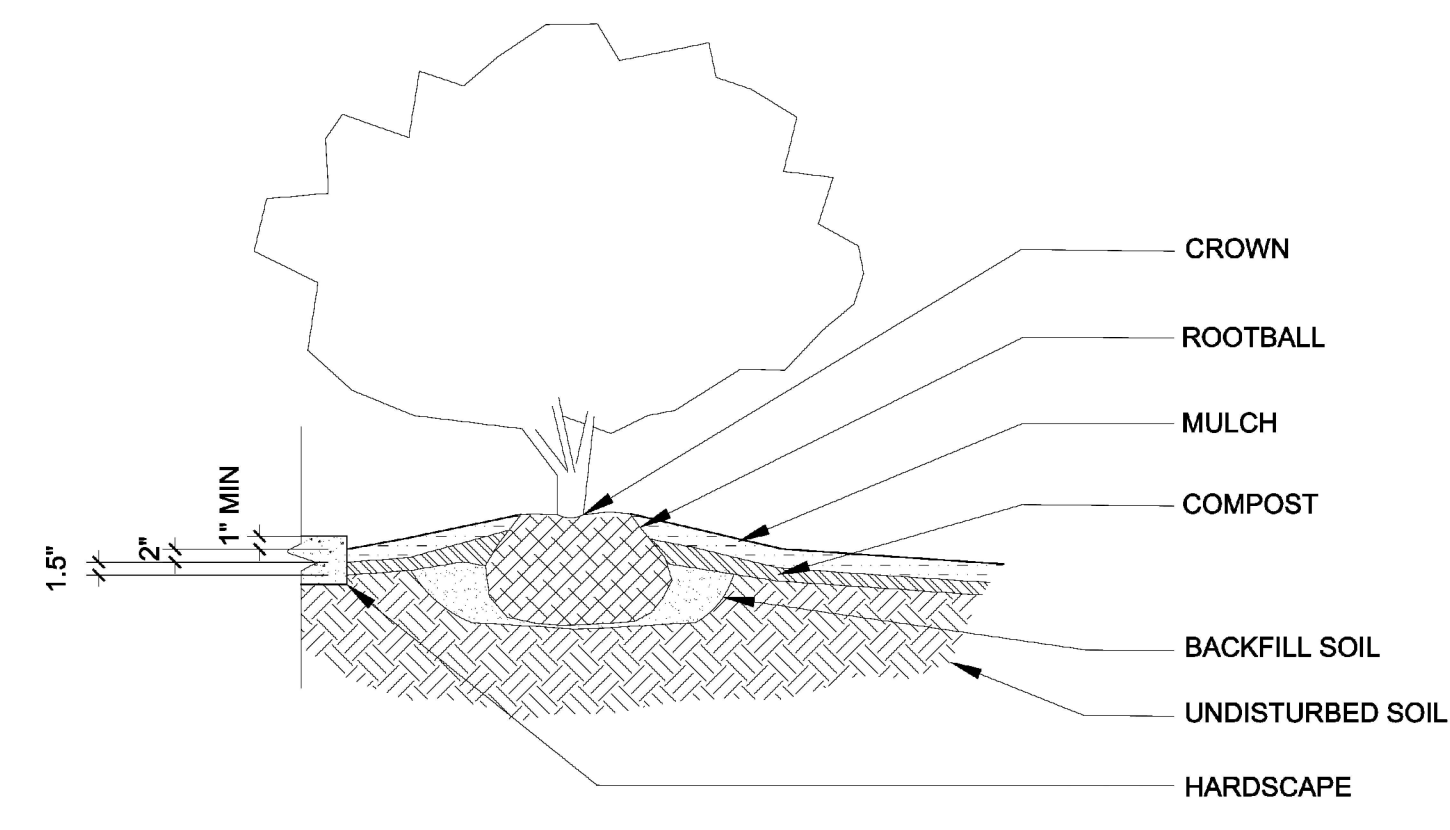
PLANTING NOTES:

- TO THE BEST OF MY ABILITY AND BASED ON MY PROFESSIONAL EXPERIENCE, I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.
- DIG SAFELY. UNDERGROUND HAZARDS MAY EXIST. CALL 811 UNDERGROUND SERVICE ALERTS (USA) BEFORE YOU DIG.
- CONTRACTOR SHALL COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION. CONTRACTOR TO MAINTAIN GOOD HOUSEKEEPING STANDARDS AND A SAFE JOB SITE. SITE TO BE CLEAN AT THE END OF EVERY WORK DAY.
- ALL CHANGES TO THE DRAWINGS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- WARRANTIES FOR PLANTS AND OTHER MATERIALS SHALL BE THE RESPONSIBILITY OF THE MANUFACTURERS AND THE CONTRACTORS WHO PERFORM THE INSTALLATION. THE LANDSCAPE ARCHITECT SHALL NOT WARRANT ANY MATERIALS.
- EXISTING PALM IS TO BE TRANSPLANTED. REMOVE OTHER EXISTING PLANTS, GRUB AND CLEAN ROOTS.
- INSPECT ALL PLANTS UPON DELIVERY. ONLY PLANTS THAT ARE HEALTHY AND IN ACCEPTABLE CONDITION WITH ADEQUATE FOLIAGE AND ROOTS TO THE BOTTOM OF THE CONTAINER ARE TO BE ACCEPTED. PLANTS SHALL CONFORM TO THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). PROTECT ALL PLANTS AGAINST HEAT, SUN, AND WIND WHILE BEING HELD ON THE SITE. WATER PLANTS THE SAME DAY AS DELIVERY. WATER PLANTS ON THE SAME DAY AS THEY ARE PLANTED. WATER TWICE DURING THE FIRST 24 HOURS AFTER THEY ARE PLANTED.
- PLANTING PLAN IS DIAGRAMMATIC. MINOR ADJUSTMENTS MAY NEED TO BE MADE IN THE FIELD. ALL PLANTS ARE TO BE LOCATED SUFFICIENTLY FAR FROM EDGE OF PLANTING BEDS SO THAT MATURE FOLIAGE WILL NOT ENCROACH ON HARDSCAPE. INSTALL PLANTS AND TREES IN ACCORDANCE WITH DETAILS. LOOSEN ROOTBALLS AND UNGIRDLE ROOTS THAT ARE CIRCLING. GUY AND STAKE TREES ON THE SAME DAY THEY ARE PLANTED. PRUNE STANDARD TREE SO THAT ALL BRANCHES ARE ABOVE 6' HIGH.
- FOUR CUBIC YARDS OF ORGANIC COMPOST PER 1,000 SQ.FT. TILLED TO A DEPTH OF 6". DO NOT TILL AROUND THE OAK TREE. TOP-DRESS WITH COMPOST WITHIN 10 FEET OF THE TREE PROTECTION FENCING. CONTRACTOR MUST GRUB AND CLEAN AREAS TO BE PLANTED. COMPACTED SOILS FROM CONSTRUCTION MUST BE MANUALLY TILLED. IF ADDITIONAL SOIL IS NEEDED TO RAISE GRADE AFTER THE REMOVAL OF ASPHALT, USE LANDSCAPE MIX FROM LYNSSO IN SAN CARLOS, CA OR SIMILAR. DO NOT PILE COMPOST OR SOIL AGAINST THE WALLS OF THE BUILDING OR THE PERIMETER WALL OF THE PROPERTY.
- PLANTINGS SHALL BE MULCHED WITH 3" DEPTH OF WOOD CHIP MULCH. NO 'GORILLA HAIR', 'PLAYGROUND MULCH', OR RECYCLED TIRES. KEEP MULCH CLEAR OF THE ROOTCROWN OF PLANTS. MULCH SHALL MEET PAVEMENT SMOOTHLY AND NOT BE HIGHER THAN THE LEVEL OF PAVEMENT WITHIN 12" OF THE EDGE OF THE PLANTING BED. DO NOT PILE MULCH AGAINST THE WALLS OF THE BUILDING OR THE PERIMETER WALL OF THE PROPERTY.
- NO PARKING OF VEHICLES OR STORAGE OF EQUIPMENT OR CHEMICALS ON BARE SOIL DURING CONSTRUCTION.
- PLANTS IN THE VISION TRIANGLES ARE ALL LESS THAN 3' HIGH OR HAVE BRANCHES ABOVE 6' HIGH.
- TOTAL LANDSCAPE AREA IS 1850 SQUARE FEET.
- WATER IS POTABLE. SUPPLIER IS MOUNTAIN VIEW WATER SERVICES.



Smart Controller 17

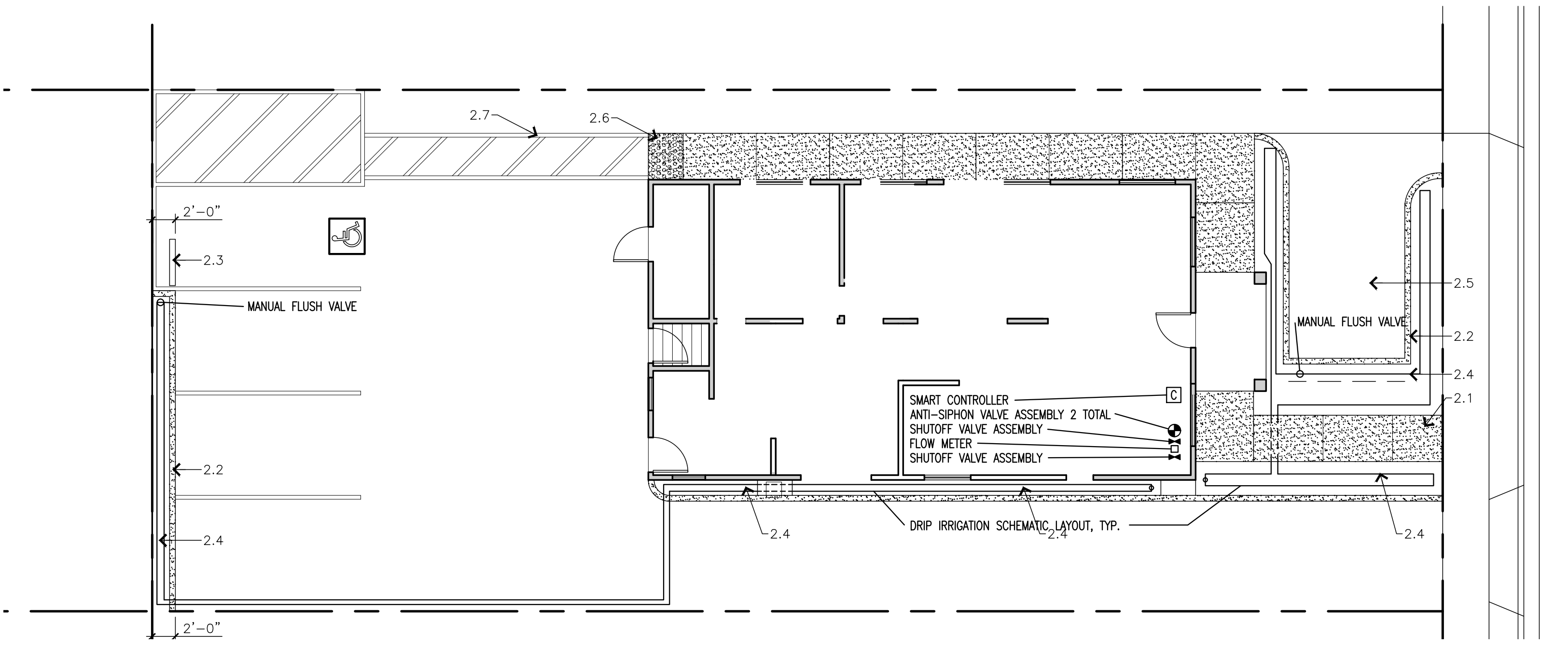
Planting Notes 13



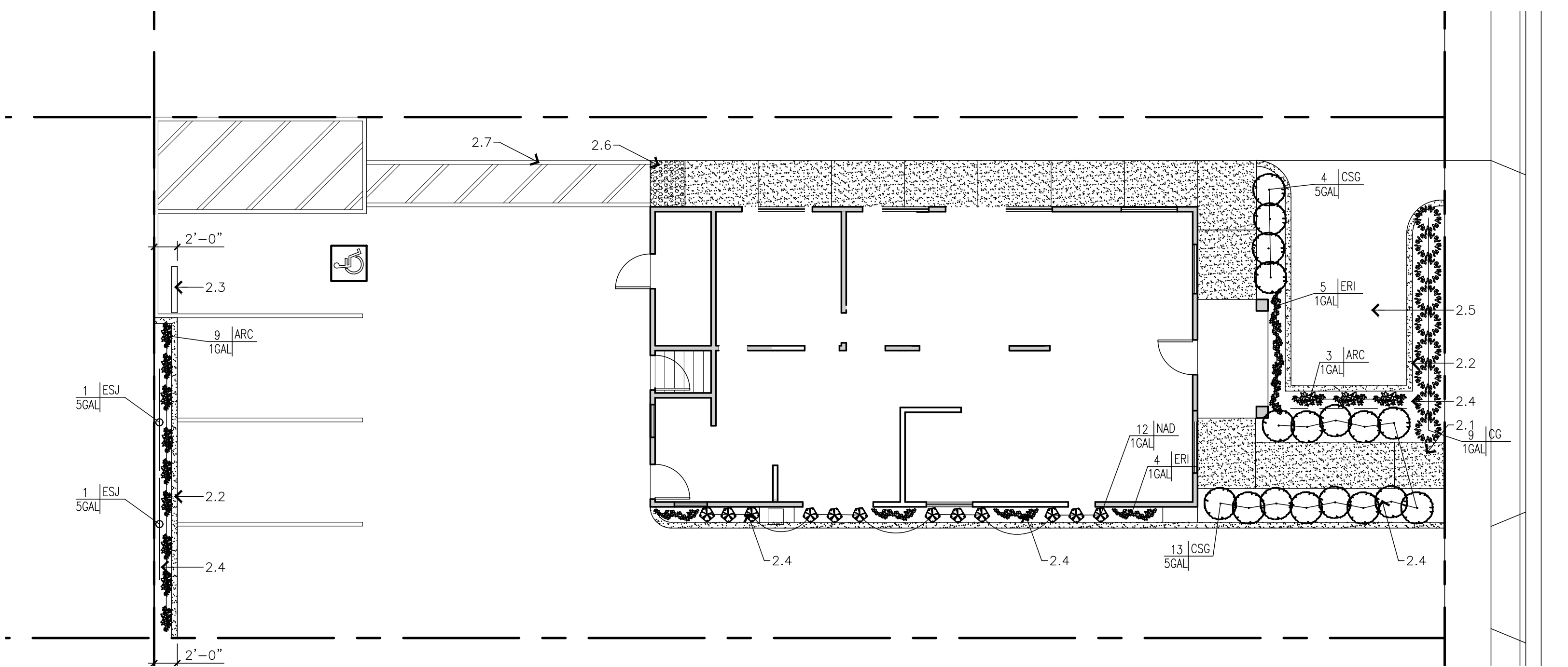
Planting Shrubs and Perennials 9

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
ARC	ARCTOSTAPHYLOS	EMERALD CARPET	1 GAL
ERI	ERIGERON GLAUJUS	SEASIDE DAISY	1 GAL
ESJ	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE ESPALIER	1 GAL
NAD	NANDINA DOMESTICA	HEAVENLY BAMBOO	1 GAL
CSG	COLEONEMA 'SUNSET GOLD'	BREATH OF HEAVEN	5 GAL
CG	CEANOTHUS GLORIOSUS 'ANCHOR BAY'	WILD LILAC	1 GAL

Plant Table 5



Irrigation Plan 3



Landscape Plan 2

Shultz & Associates
 30111 Paseo Padre Pkwy,
 Suite 309,
 Fremont, CA 94538
 karl@shultzassociates.com
 PHONE: 510-796-7801

THIS SHEET IS NOT TO BE USED ALONE. ALL OTHER SHEETS, SPECIFICATIONS, SCHEDULES, AND NOTES MUST BE REFERENCED TO THIS SHEET. STATUS IS NOTED IN RELEASE STATUS BOX AND ARCHITECT'S SIGNATURE AND DATE MUST BE PRESENT TO BE VALID.
 I, KARL SHULTZ, ARCHITECT, REGISTERED PROFESSIONAL ARCHITECT, LICENSE NO. 20722, CERTIFICATE OF REGISTRATION NO. 20722, STATE OF CALIFORNIA, HEREBY CERTIFY THAT I AM THE ARCHITECT OF RECORD FOR THIS PROJECT AND I AM THE AUTHOR OF THIS PLAN. I AM NOT PROVIDING ANY DESIGN OR CONSTRUCTION SERVICES TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. IT IS FOREGOING.

RELEASE STATUS DATE
 CLIENT REVIEW
 PLAN CHECK
 CONSTRUCTION

REVISIONS
 1
 2
 3
 4
 5
 6

Project:
Esmail Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128

Stamp
LICENSED ARCHITECT
 KARL EDWIN SHULTZ
 No. 213762
 Ren. 11/30/25
 STATE OF CALIFORNIA

Sheet Title:
LANDSCAPE AND IRRIGATION PLAN
 Date: 06-03-2024
 Project # 2416
 Sheet No.:

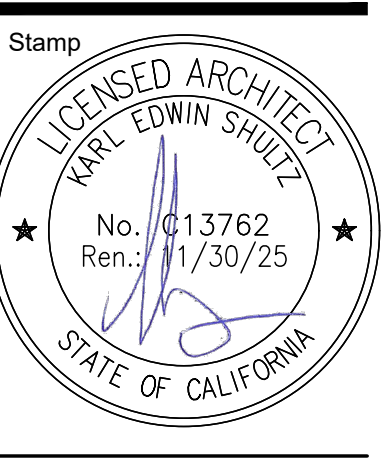
A1.2

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RELEASE STATUS	DATE
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<input type="radio"/> PLAN CHECK	_____
<input type="radio"/> CONSTRUCTION	_____

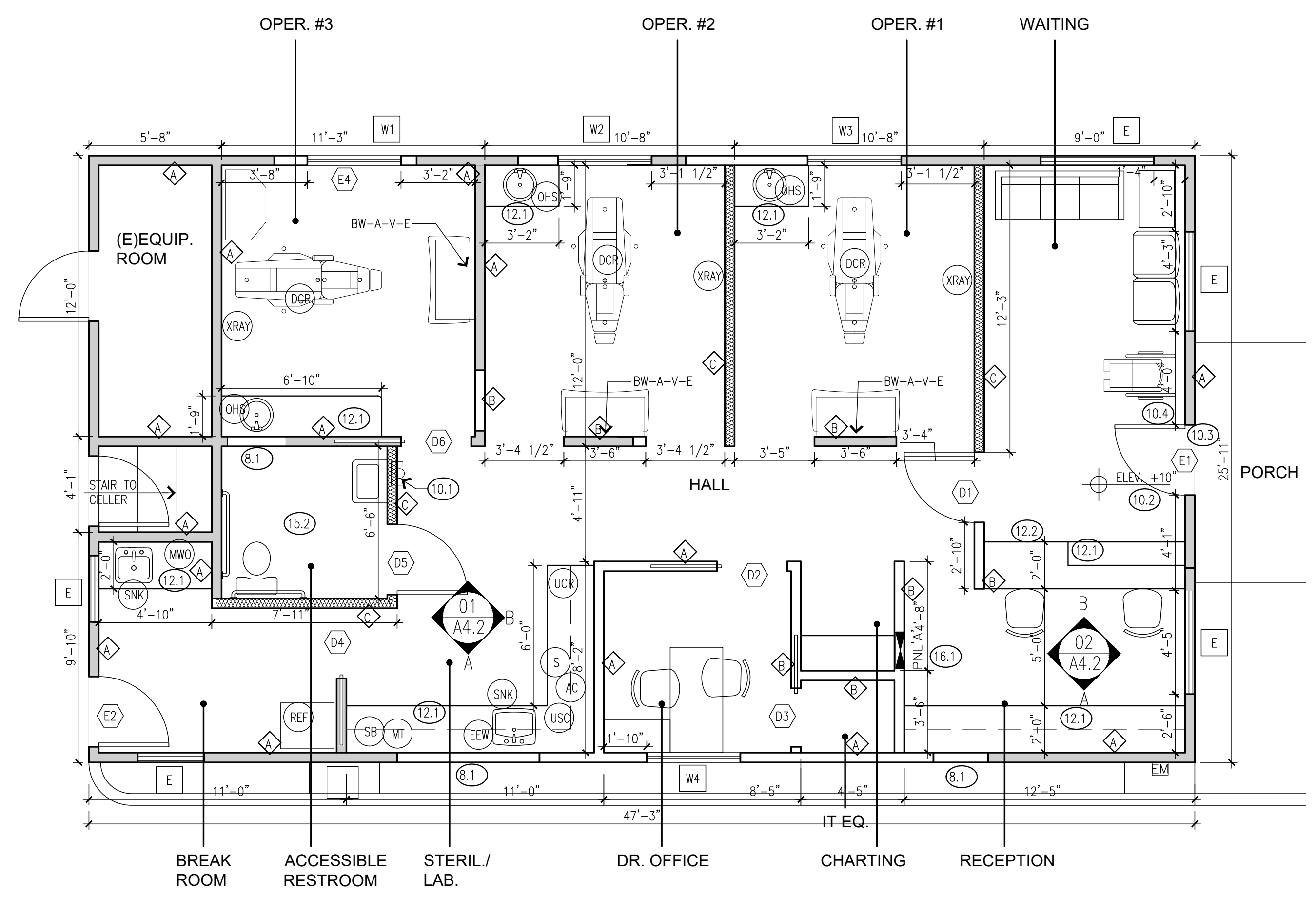
REVISIONS
▲
▲
▲
▲
▲

Project: **Esmaili Dental Corp.**
New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128



Sheet Title: _____
 FLOOR PLAN
 Date: 06-03-2024
 Project #: 2416
 Sheet No.: _____

A2.1



- ELECTRICAL AND PLUMBING FIXTURES NOT SPECIFIED IN THESE DOCUMENTS TO BE SELECTED BY THE OWNER FROM THE CONTRACTOR'S SUPPLIERS.
- GENERAL CONTRACTOR TO COORDINATE WITH DENTAL EQUIPMENT SUPPLIER FOR SIZE OF EQUIPMENT, EXACT POINT OF CONNECTION AND UTILITY SIZE REQUIREMENTS. LATEST EQUIPMENT SELECTION MAY BE DIFFERENT FROM THAT WHICH IS INDICATED IN THIS DOCUMENT.
- CONTRACTOR TO COORDINATE WITH CASEWORK FABRICATOR THE INSTALLATION AND CONNECTIONS FOR ELECTRICAL, WATER, AIR, VACUUM, AND DRAIN. PROVIDE SUPPORT BLOCKING AT WALL FRAMING FOR CABINET ANCHORAGE, COORDINATE BLOCKING LOCATION WITH CASEWORK FABRICATOR/INSTALLER.
- AT EQUIPMENT LOCATED UNDER THE FLOOR AND AT THE CEILING IN THE GARAGE, MAINTAIN 8"-2" CLEARANCE BETWEEN THE FLOOR AND UNDERSIDE OF EQUIPMENT AND ANY RELATED PIPING OR ELECTRICAL WORK.

Equipment Notes 14

REF. #	ITEM	CONTRACTOR TO PROVIDE & INSTALL	NOTES
AC	AUTOCLAVE	PROVIDE 220V OUTLET W/ DEDICATED CIRCUIT.	PROVIDED BY TENANT/EQUIPMENT SUPPLIER.
DCR	DENTAL CHAIR	PROVIDE 110V OUTLET.	PROVIDED BY EQUIPMENT SUPPLIER.
EEW	EMERGENCY EYE WASH.	PROVIDE 1/2" CW FOR EYE WASH.	
MT	MODEL TRIMMER	PROVIDE 1/2" CW W/ BALL VALVE & 1/2" FEM.	PROVIDED BY EQUIPMENT SUPPLIER.
MVF	MODEL VACUUM FORMER	PROVIDE 110V OUTLET @ +34" A.F.F. PROVIDE SWITCH ABOVE COUNTER.	PROVIDED BY EQUIPMENT SUPPLIER.
MWO	MICROWAVE OVEN	PROVIDE 110V OUTLET @ +60" A.F.F.	PROVIDED BY TENANT.
OHS	OPR., EXAM HAND SINK	PROVIDE 1/2" H&CW & 1-1/2" DRAIN.	SEE PLUMBING SHEET FOR SPEC. SEE SHEET NOTE #15.1
REF	REFRIGERATOR	PROVIDE 110V OUTLET @ +18" A.F.F.	PROVIDED BY TENANT.
S	STATUM	PROVIDE 110V OUTLET @ +24" A.F.F.	PROVIDED BY TENANT/EQUIPMENT SUPPLIER.
SB	SAND BLASTER	PROVIDE 110V OUTLET @ +34" A.F.F. & AIR.	PROVIDED BY TENANT/EQUIPMENT SUPPLIER.
SNK	SINK	PROVIDE 1/2" H&CW & 1-1/2" DRAIN.	SEE PLUMBING SHEET FOR SPEC. SEE SHEET NOTE #15.1
UCR	UNDER-COUNTER REFRIGERATOR	PROVIDE 110V OUTLET @ +18" A.F.F.	PROVIDED BY TENANT.
USC	ULTRASONIC CLEANER	PROVIDE 110V OUTLET.	PROVIDED BY TENANT.
XRAY	X-RAY	PROVIDE 110V DEDICATED CIRCUIT AND PROVIDE BACKING TO X-RAY PANEL. LOCATE FIRE SWITCH NEXT TO X-RAY UNIT. CONNECT TO LOW VOLTAGE FIRE BUTTON.	PROVIDED BY EQUIPMENT SUPPLIER.

Equipment Schedule 13

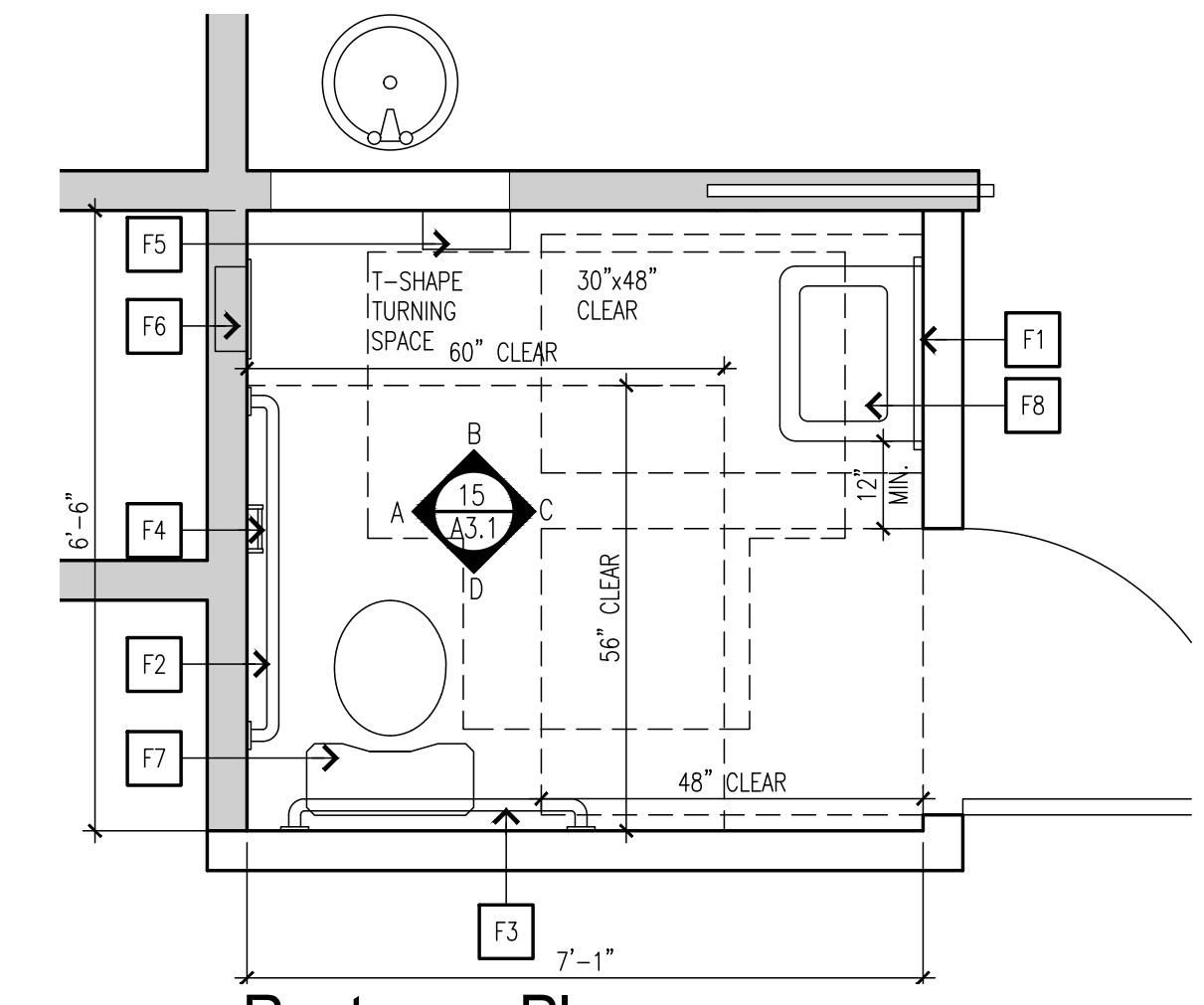
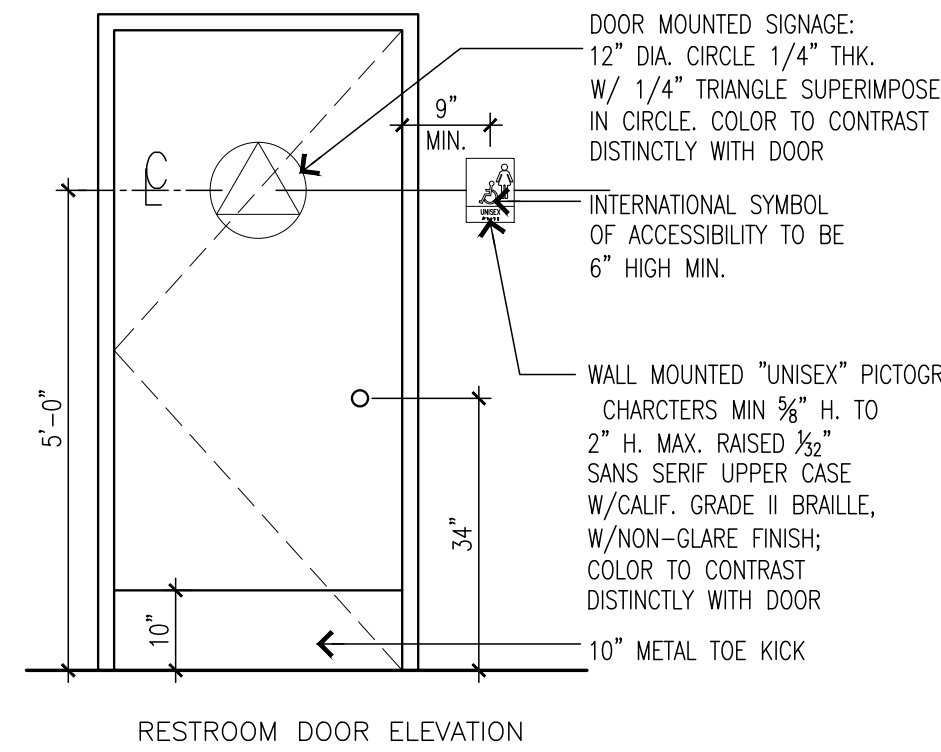
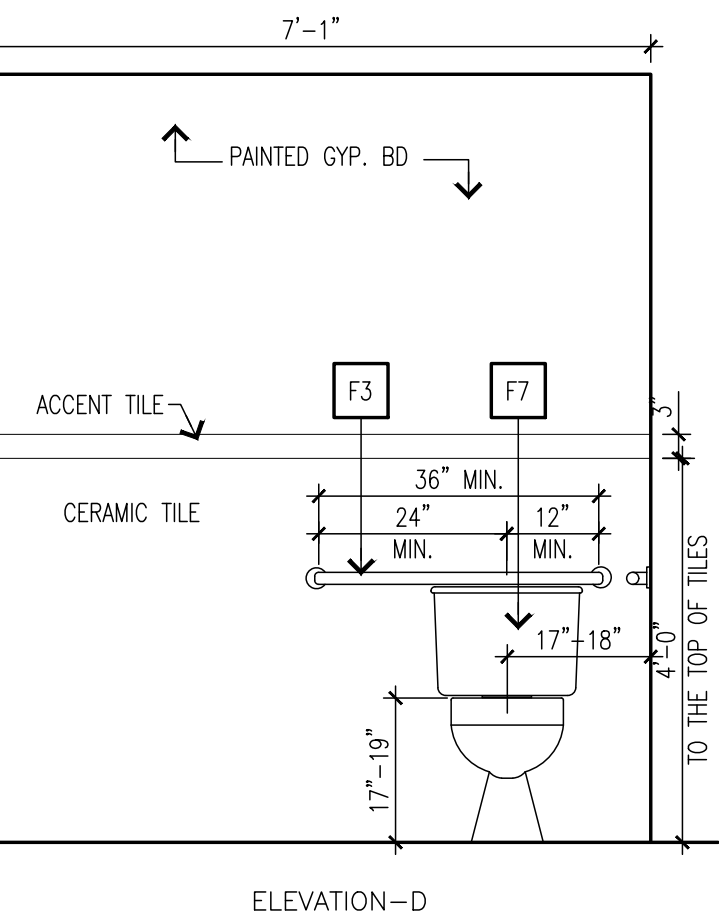
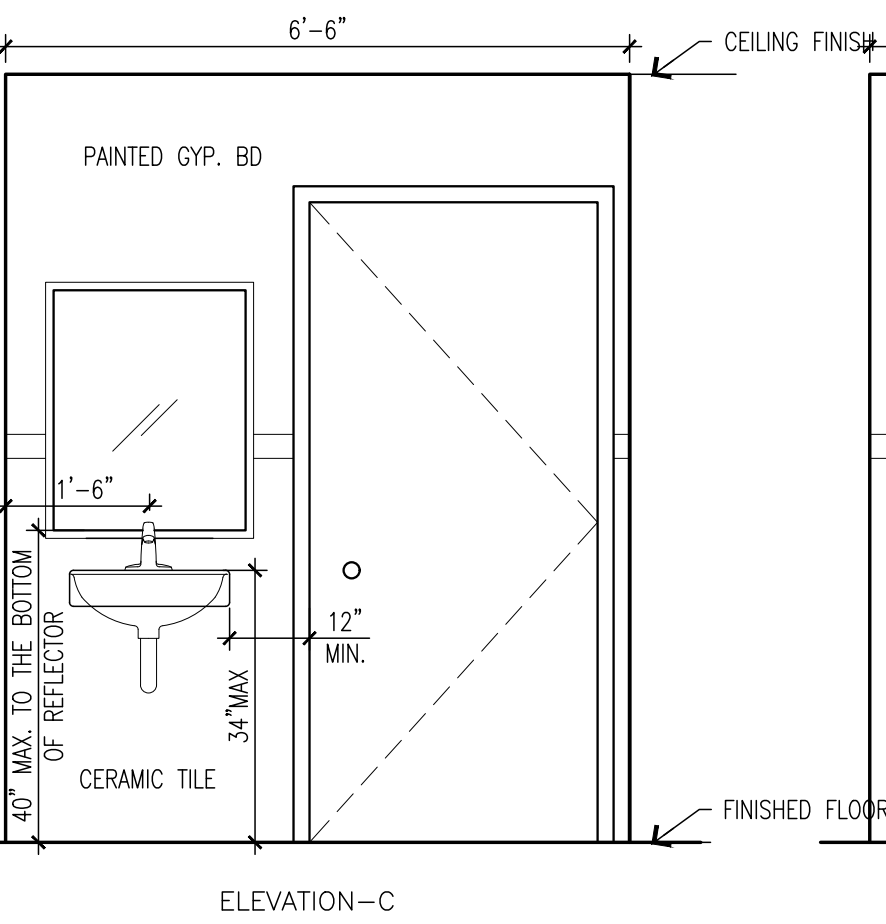
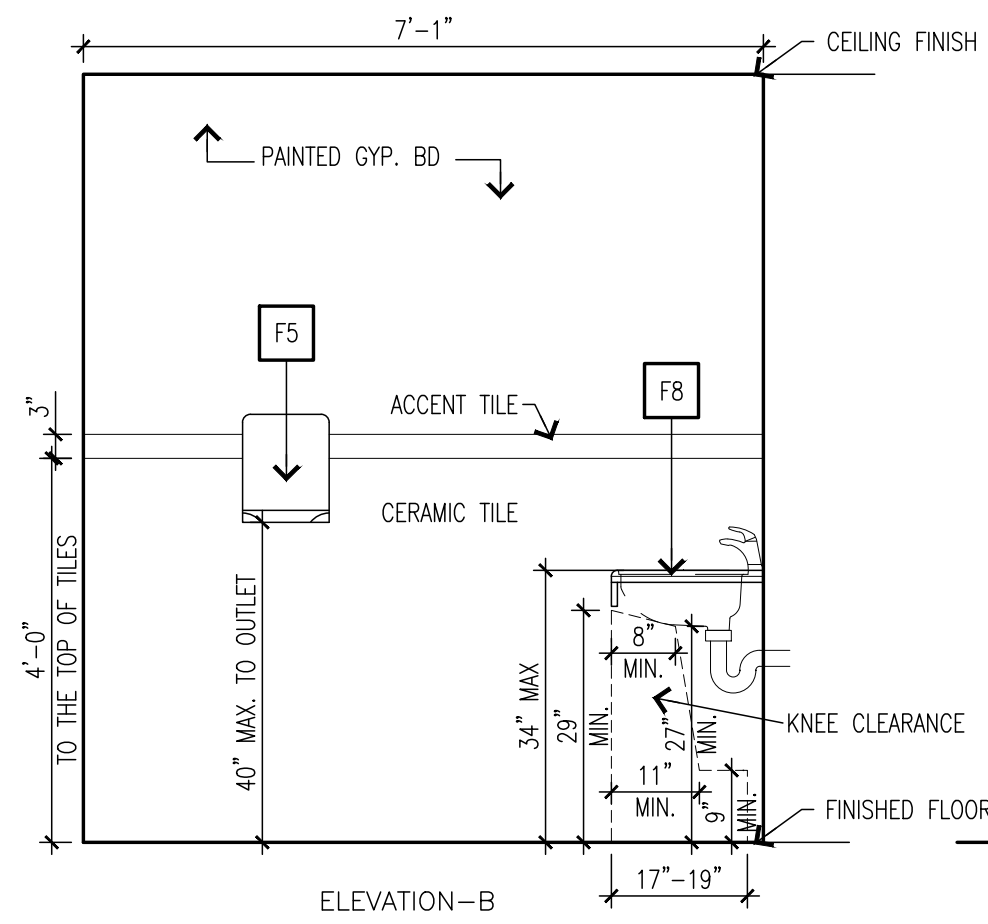
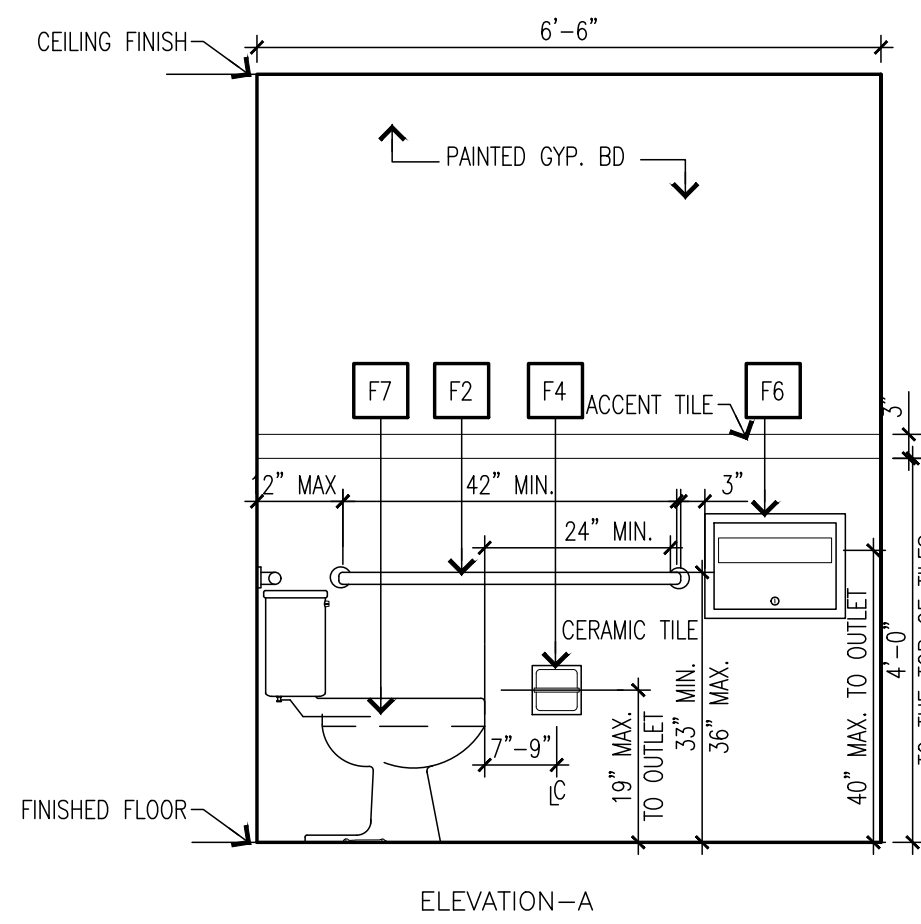
- REF EQUIPMENT TAG. SEE EQUIPMENT SCHEDULE 13/A2.1
 - 2.1 SHEET NOTE SEE 9/A2.1
 - BW-A-V-E A=COMPRESSED AIR, V=VACUUM, E=ELECTRICAL, BW=BOTTLED WATER, CONFIRM LOCATION WITH DENTAL EQUIPMENT SUPPLIER
 - E EXISTING DOOR, NO CHANGE
 - 1 DOOR NUMBER SYMBOL, SEE SHEET A3.1
 - E EXISTING WINDOW, NO CHANGE
 - W1 INTERIOR WINDOW, SEE SHEET A3.1.
 - EP ELECTRICAL SUB-PANEL.
- NEW WALL INFILL AFTER REMOVING DOOR/WINDOW. FINISH TO MATCH (E) WALL.
 - PROVIDE 2A-10BC FIRE EXTINGUISHER, W/ RECESSED CABINET AT +48" A.F.F.
 - PROVIDE READILY VISIBLE, DURABLE SIGN STATING "THIS DOOR MUST REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED." SIGNAGE TO BE INSTALLED ON OR ADJACENT TO DOOR. LETTERS SHALL BE NOT LESS THAN 1" HIGH ON CONTRASTING BACKGROUND.
 - PROVIDE ENTRANCE ACCESSIBILITY SIGN AT ENTRY DOOR. SEE DETAIL 5/A3.1.
 - PROVIDE EXIT SIGN W/ TACTILE LETTERS ON THE LATCH SIDE OF THE DOOR. SEE DETAIL 10/A3.1
 - CASEWORK TO BE SUPPLIED BY TENANT UNDER SEPARATE CONTRACT. TENANT TO COORDINATE COUNTER TOPS AND PLUMBING FIXTURE SELECTIONS WITH CASEWORK FABRICATOR. MAXIMUM WORKING COUNTER HEIGHT: +28" TO +34" A.F.F. TYP. U.N.O. EXACT HT. OF POWER & COM. OUTLETS LOCATED AT CASEWORK TO BE COORDINATED WITH TENANT AND CASEWORK SUPPLIER. +42" A.F.F. U.N.O.
 - PROVIDE 36" WIDE x 34" MAX. HT. ACCESSIBLE COUNTER AT FRONT DESK.
 - 48" X 30" ACCESSIBLE CLEAR FLOOR SPACE IN FRONT OF SINK, BASE CABINET UNDER SINK TO BE OPERABLE AND ACCESSIBLE FOR FORWARD REACH, TYP.
 - ALL SINK AND LAV. FAUCETS TO BE APPROVED AND LISTED BY C.E.C. FAUCET CONTROLS AND OPERATION MECHANISM ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST.
 - NEW TOILET ROOM. SEE 8/A3.1 FOR CLEARANCES AND FIXTURE MOUNTING HEIGHTS.
 - NEW LOCATION FOR ELEC. PANEL.

Sheet Notes 9

- Legend** 6
- EXISTING BUILDING SHELL TO REMAIN.
 - NEW PARTITION WALL W/ 5/8" GYP. BOARD O/ 3-5/8" METAL STUD EA. SIDE. SEE DETAIL 2/63.1. NOTE: ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH U.N.O.
 - NEW PARTITION WALL W/ 5/8" GYP. BOARD O/ 3-5/8" METAL STUD EA. SIDE W/ SOUND INSULATION. SEE DETAIL 2/A3.1
- Wall Legend** 5

Floor Plan 2
 Scale: 1/4"=1'-0"



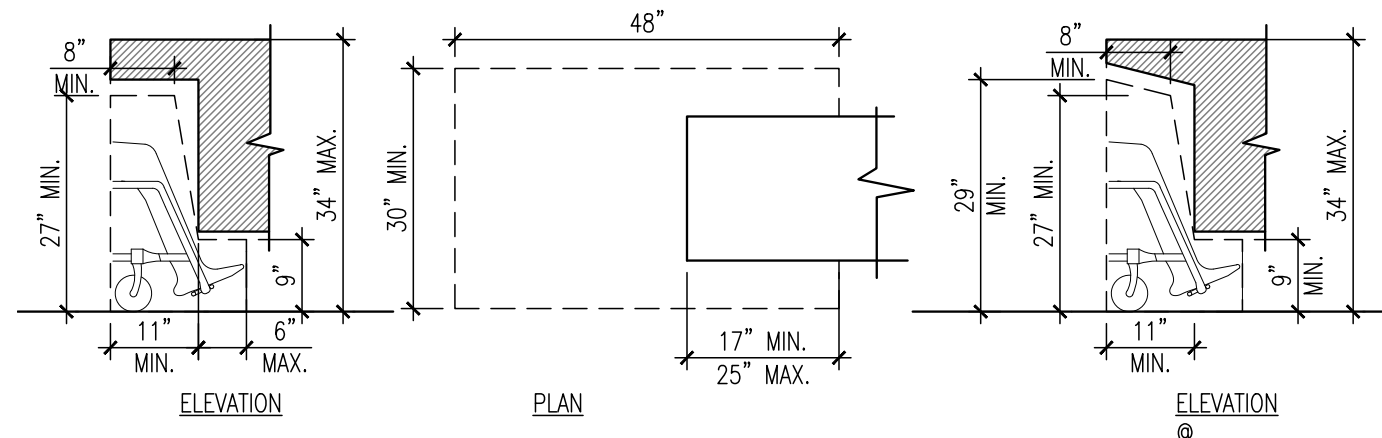


Restroom Plan

Scale: 1/2"=1'-0"

4

- FAUCET CONTROLS AND OPERATION MECHANISMS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL NOT EXCEED 5 LBS.
 - OPERABLE PARTS OF ALL FIXTURES OR ACCESSORIES TO BE LOCATED MAX. OF 40" ABOVE FLOOR.
 - ALL "MET WALLS" SHALL RECEIVE WATER RESISTANT GYPSUM BOARD.
 - FINISHES: ALL FIXTURES TO BE STANDARD WHITE.
 - PROVIDE 3/8" METAL STUDS FOR PLUMBING WALL SHIM AS REQUIRED TO MATCH STUD WALL THICKNESS.
- FIXTURE SCHEDULE:
 F1 BOBRICK B-165 SERIES 24"x36" MIRROR W/CHROME FRAME
 F2 BOBRICK B6106 x 42" GRAB BAR, 1 1/2" DIA. SEE DETAIL 6/A3.1 FOR MOUNTING SUPPORT.
 F3 BOBRICK B6102 x 36" GRAB BAR, 1 1/2" DIA. SEE DETAIL 6/A3.1 FOR MOUNTING SUPPORT.
 F4 BOBRICK B-6677, 600 SERIES, TOILET PAPER ROLL DISPENSER
 F5 BOBRICK B-4262, CONTURA SERIES, PAPER TOWEL DISPENSER
 F6 BOBRICK B-4221, CONTURA SERIES, SEAT COVER DISPENSER
 F7 WATER CLOSET: AMERICAN STANDARD WALL MOUNTED
 TANK TYPE: 1.6 GAL./FLUSH; FIXTURE: 2093.10 GLENWALL; BOWL: 17" HIGH
 F8 LAVATORY: AMERICAN STANDARD, LUCERNE, WALL HUNG
 FIXTURE: #0356.421, 20"x18"; FAUCET: 2385.007 RELIANT, SATIN FINISH
 TRAP: 1 3/4" X1" CHROME-PLATED P-TRAP
 SUPPLIES: SPEEDWAY SUPPLY KIT #GR1915 A



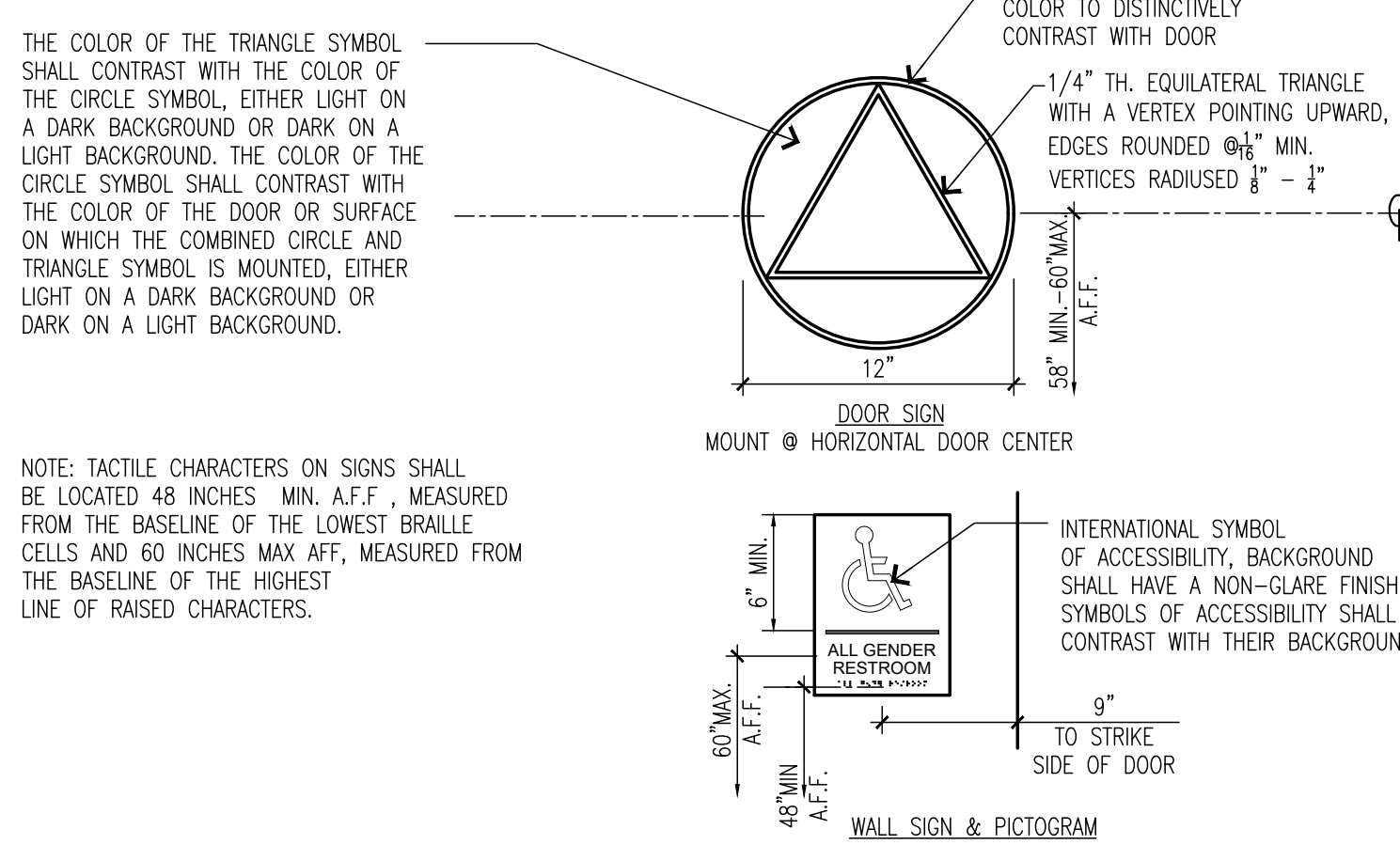
Knee Clearance

Scale: 1/2"=1'-0"

15

Fixture Schedule

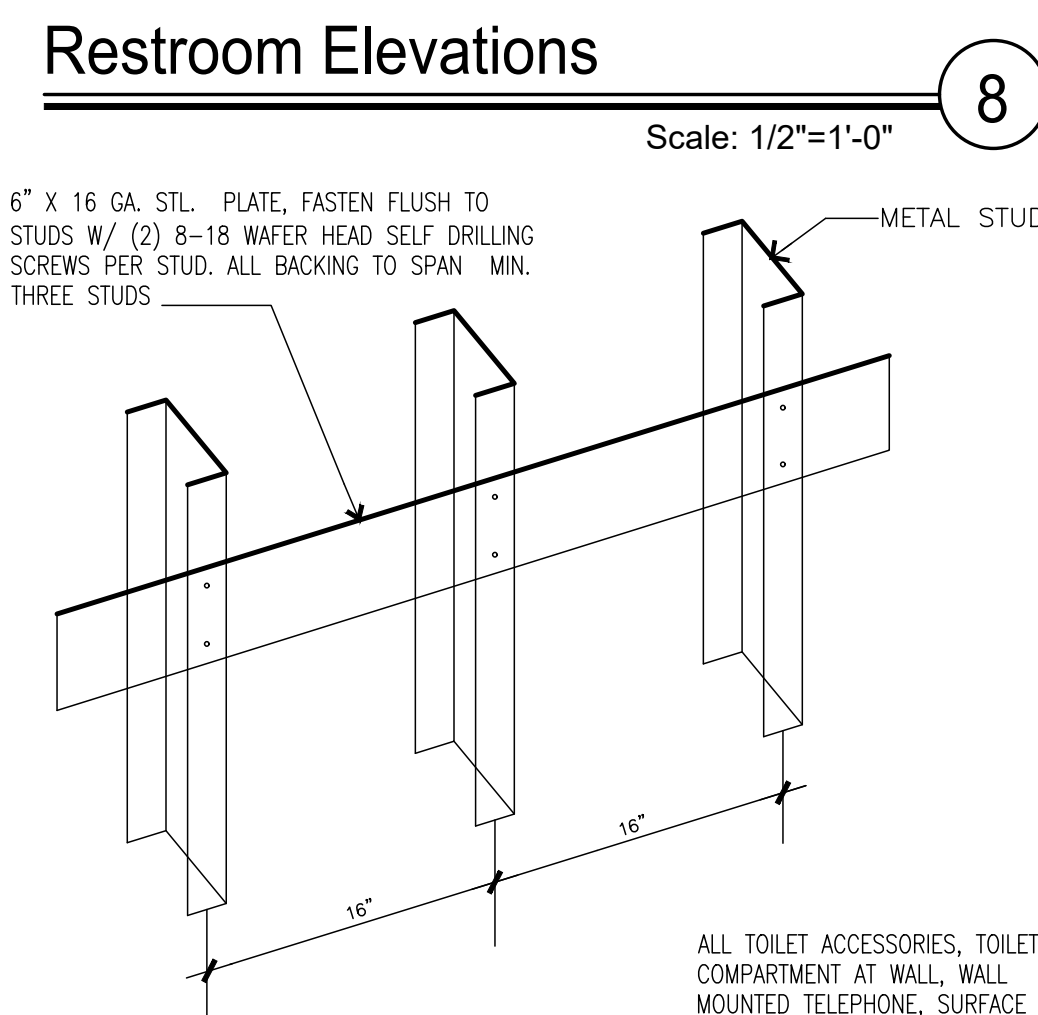
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Restroom Door Sign

Scale: 1-1/2"=1'-0"

11



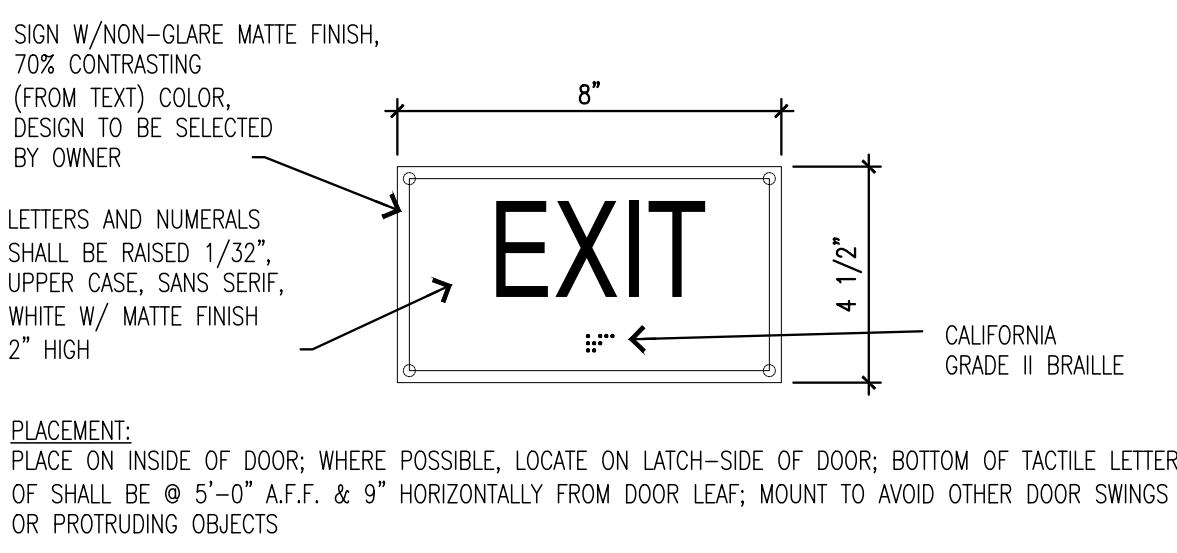
Backing Detail

7

Restroom Elevations

Scale: 1/2"=1'-0"

8



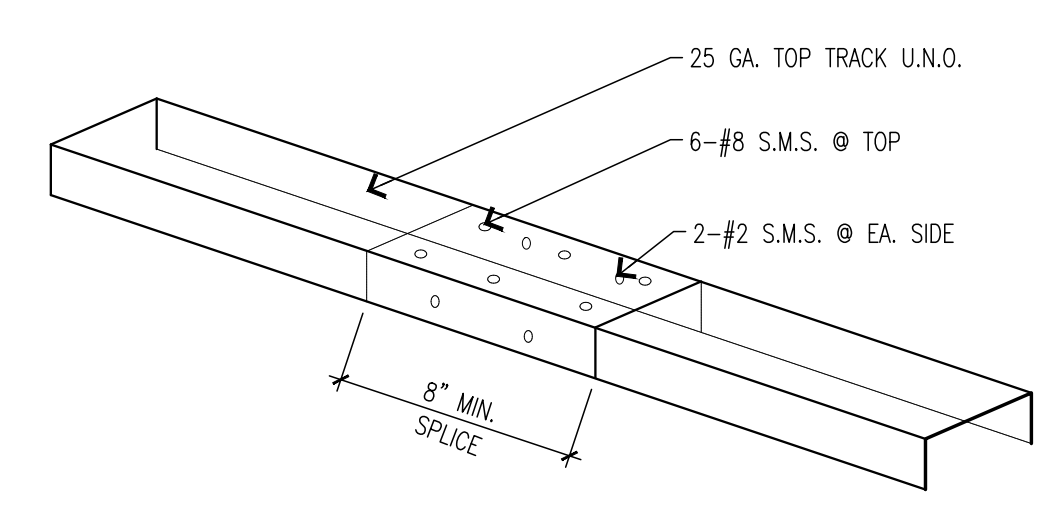
BUILDING EXIT SIGNAGE

NOTE: THIS SIGN IS IN ADDITION TO ILLUMINATED EXIT SIGNS SHOWN ON SHEET A6.1.

Exit Sign

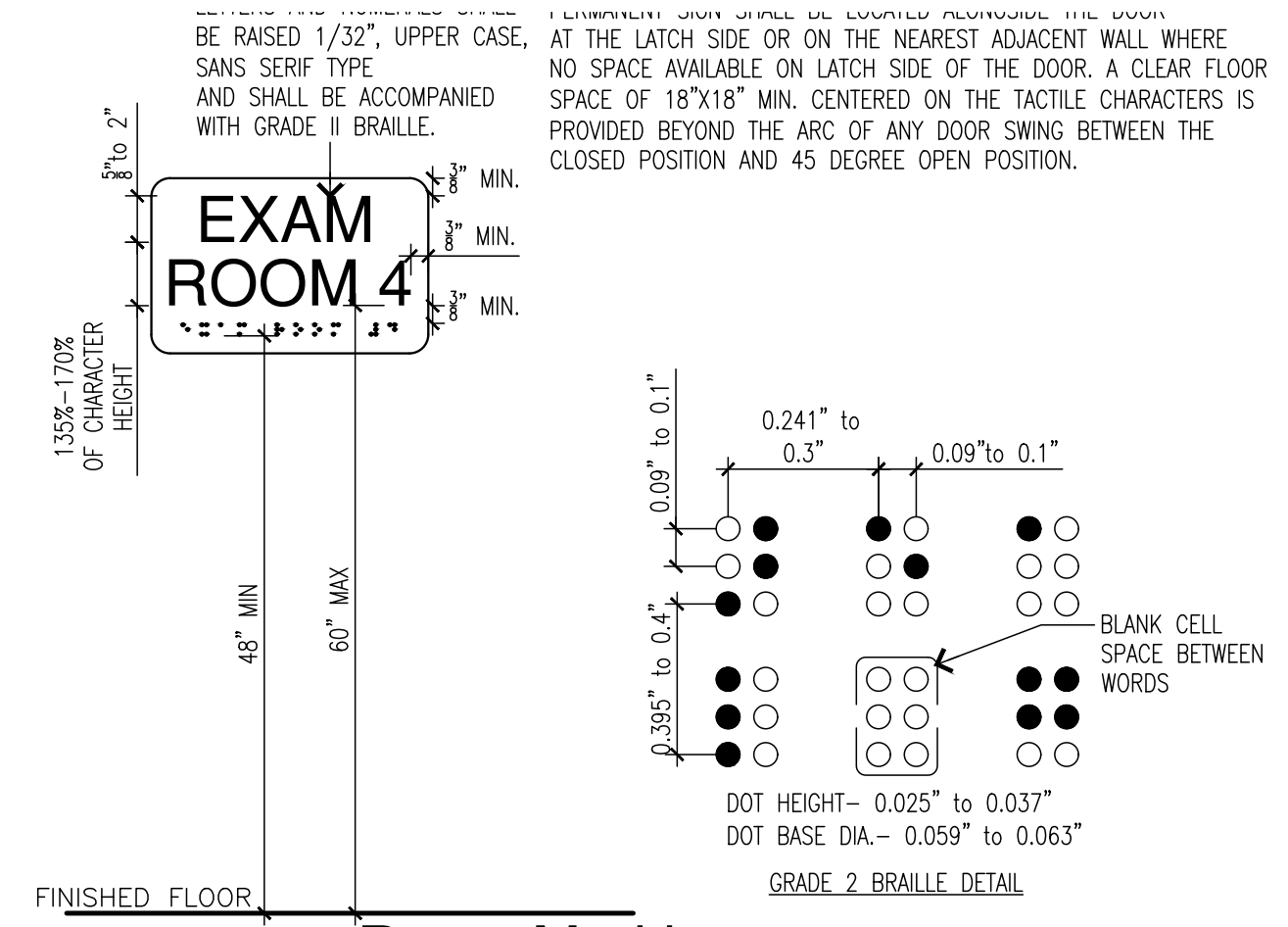
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10



Wall Top Track

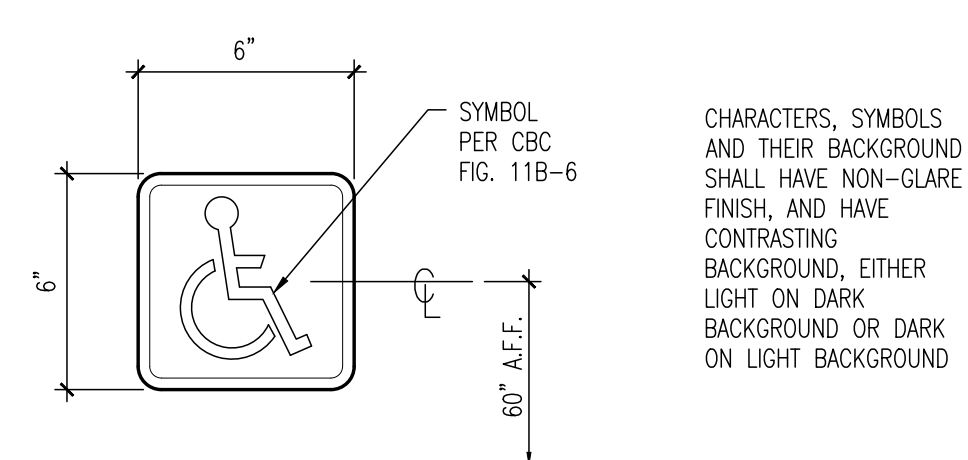
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Room Marking

Scale: 3"=1'-0"

9



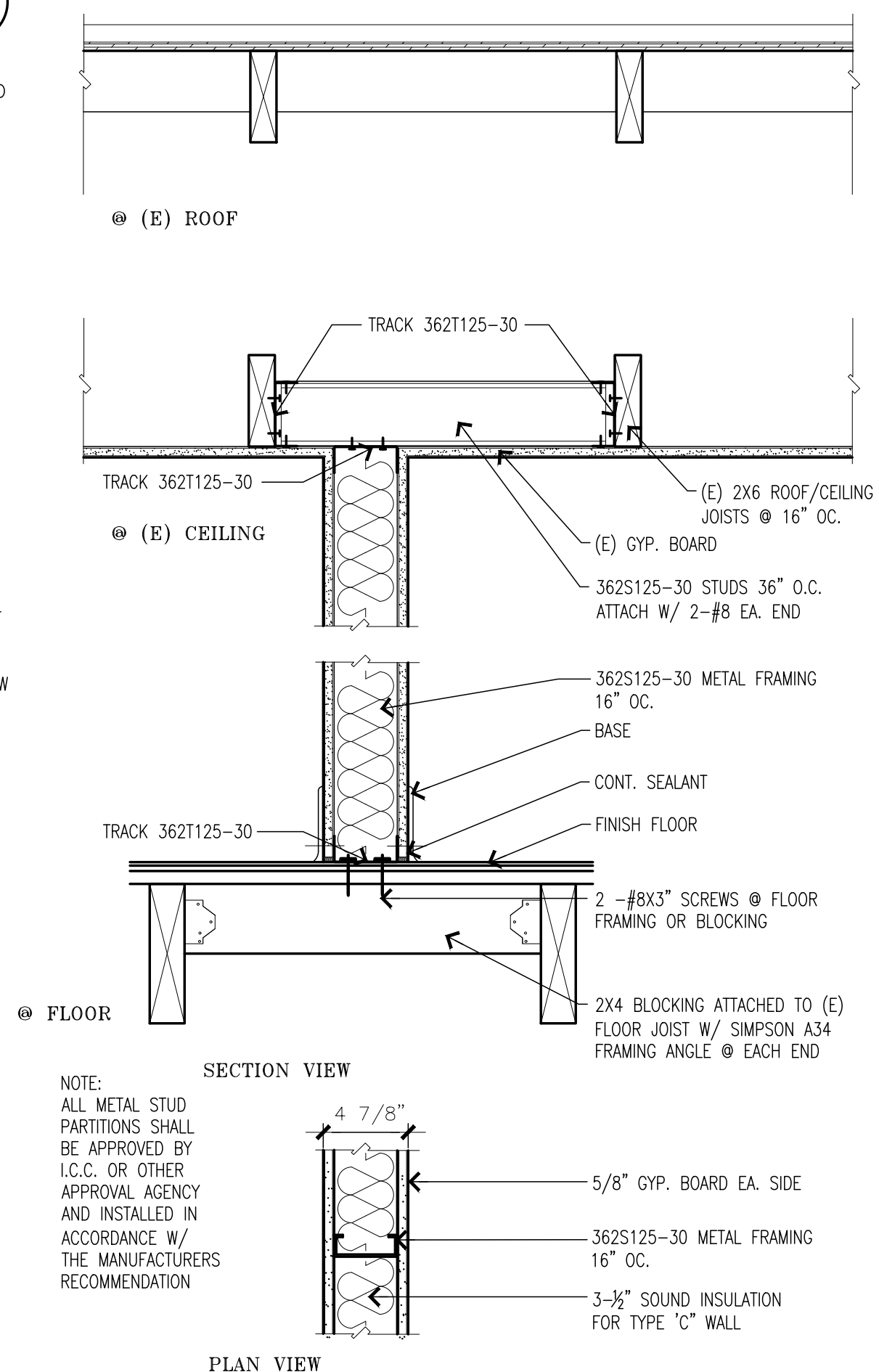
Entry Door Sign

5

Grab Bar Detail

Scale: 3"=1'-0"

6



Wall Type Typ.

Scale: 1-1/2"=1'-0"

2

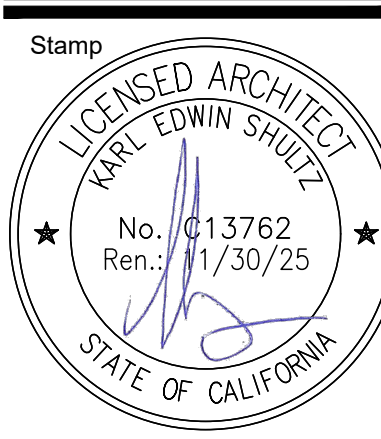
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 39111 Paseo Padre Pkwy.
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 Fremont, CA 94538
 PHONE: 510-796-7801

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<input type="radio"/> PLAN CHECK	
<input type="radio"/> CONSTRUCTION	

REVISIONS

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Esmaili Dental Corp.
New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128



Sheet Title:
DETAILS
 Date: 06-03-2024
 Project #: 2416
 Sheet No.:

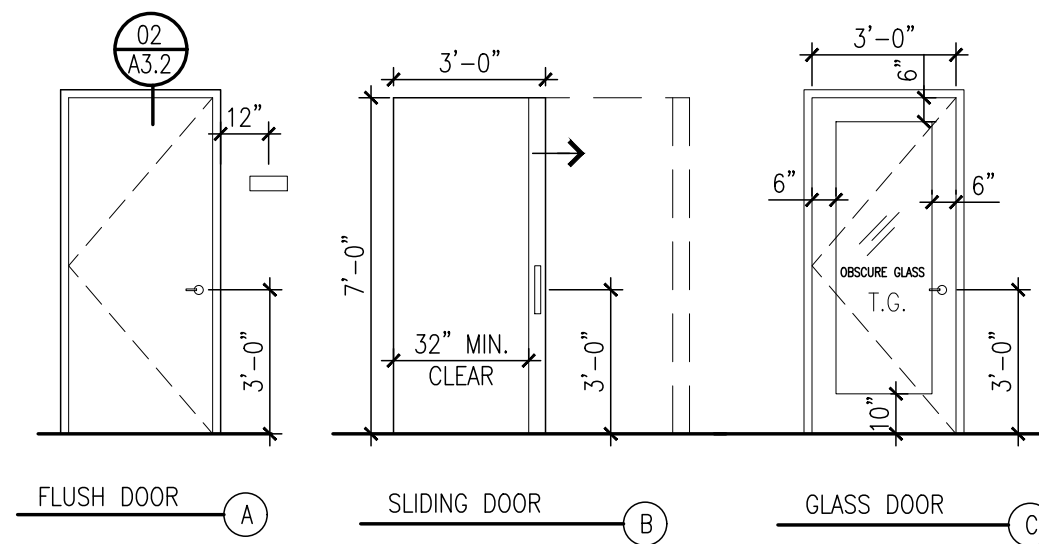
A3.1

DOOR SCHEDULE										
NUMBER	DOOR					FRAME		FIRE RATING	HARDWARE GROUP	REMARKS
	SIZE	TYPE	MATERIAL	GLAZING	FINISH	MATERIAL	FINISH			
D1	3'-0" X 7'-0" X 1-3/4"	C	SOLID CORE WOOD	1/2" T.G. OBSCURE	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	1A	
D2	3'-0" X 7'-0" X 1-3/4"	B	SOLID CORE WOOD	-	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	3	
D3	2'-6" X 7'-0" X 1-3/4"	B	SOLID CORE WOOD	-	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	3	
D4	3'-0" X 7'-0" X 1-3/4"	B	SOLID CORE WOOD	-	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	3	
D5	3'-0" X 7'-0" X 1-3/4"	A	SOLID CORE WOOD	-	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	2C	INSTALL ACCESSIBILITY SIGN ON OUTSIDE OF THE DOOR, 11/A3.1 FOR REFERENCE
D6	3'-0" X 7'-0" X 1-3/4"	B	SOLID CORE WOOD	-	PAINT T.B.D.	ALUM.	PAINT T.B.D.	-	3	
E1	3'-0" X 7'-0" X 1-3/4"	C	(E)WOOD	(E) T.G. OBSCURE	EXISTING	EXISTING	EXISTING	-	EXISTING	(E) DOOR, NO CHANGE REQUIRED. SEE 3/A3.2 FOR EXISTING THRESHOLD DETAIL.
E2	3'-0" X 6'-2" X 1-3/4"	A	SOLID CORE WOOD	-	PAINT T.B.D.	EXISTING	PAINT T.B.D.	-	EXISTING	

Door Schedule 14

WINDOW SCHEDULE									
NUMBER	WINDOW				FRAME		FIRE RATING	REMARKS	
	SIZE	TYPE	MATERIAL	GLAZING	MATERIAL	FINISH			
W1	4'-0" X 5'-0"	A	TINTED GLASS	DOUBLE PANE	METAL	TO MATCH (E)	-	WINDOW FRAME TO MATCH EXISTING WINDOWS	
W2	4'-0" X 5'-0"	A	TINTED GLASS	DOUBLE PANE	METAL	TO MATCH (E)	-	WINDOW FRAME TO MATCH EXISTING WINDOWS	
W3	4'-0" X 5'-0"	A	TINTED GLASS	DOUBLE PANE	METAL	TO MATCH (E)	-	WINDOW FRAME TO MATCH EXISTING WINDOWS	
W4	4'-0" X 5'-0"	A	TINTED GLASS	DOUBLE PANE	METAL	TO MATCH (E)	-	WINDOW FRAME TO MATCH EXISTING WINDOWS	

Window Schedule 13



Door Types 11

HARDWARE GROUP

GROUP 1 : (STANDARD INTERIOR DOOR)
 1 1 1/2 PAIR HINGES STANLEY FBB179, SATIN CHROME FINISH
 1 LOCKSET SEE OPERATING HARDWARE TYPE
 1 DOOR STOP TRIMCO 7276

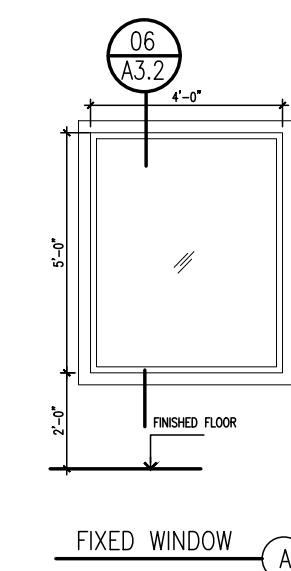
GROUP 2: (RESTROOM DOOR)
 1 1 1/2 PAIR HINGES HAGER BB1279
 1 LOCKSET SEE OPERATING HARDWARE TYPE
 1 DOOR STOP TRIMCO 7276
 1 DOOR CLOSER LCN 4010T SERIES; HINGE (PULL) SIDE MOUNT
 1 KICK PLATE (PUSH SIDE) TRIMCO; 10" HIGH; STAINLESS STEEL

GROUP 3: (SLIDING DOOR)
 OPERATING HARDWARE AS PER DOOR SUPPLIER
 POCKET ASSEMBLY AS PER DOOR SUPPLIER
 DOOR PULL HANDLE TRIMCO 1199 S.S.

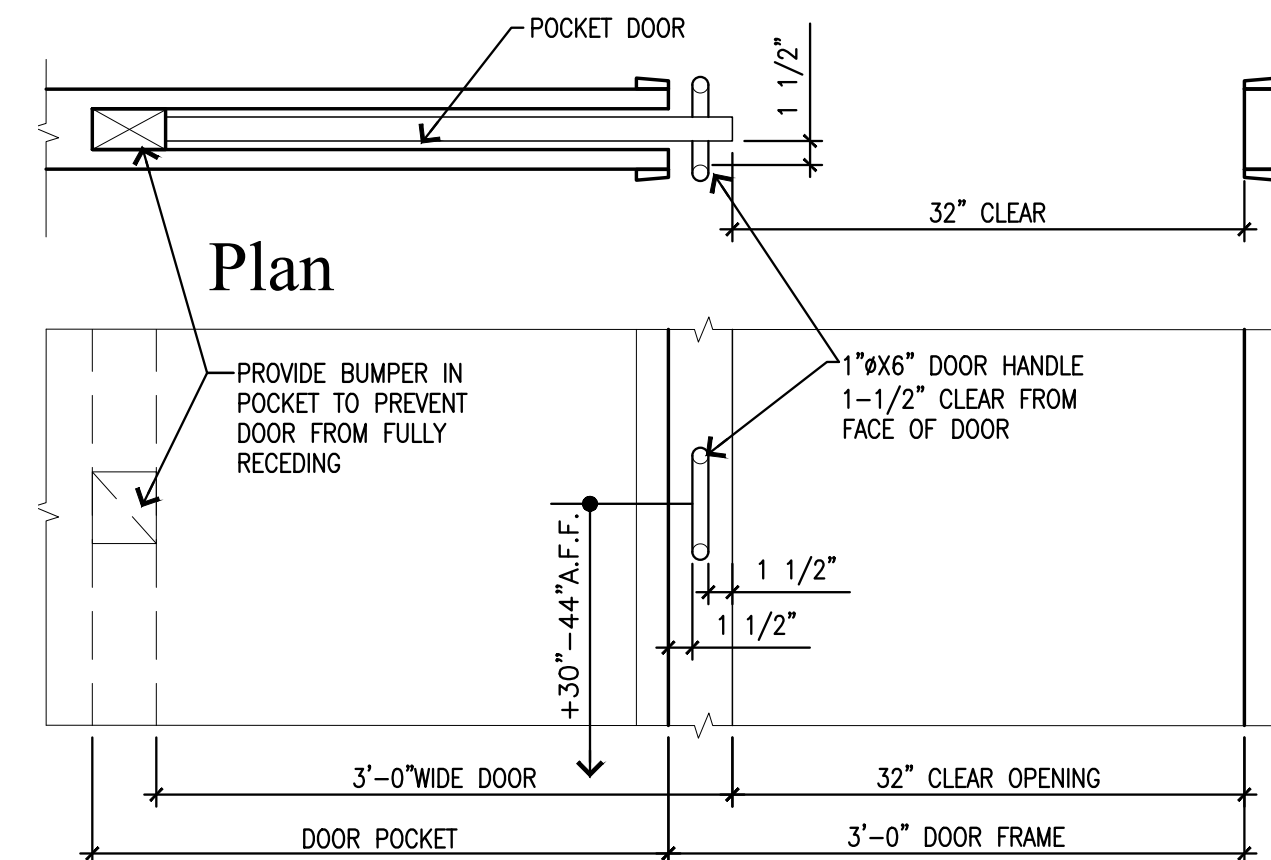
OPERATING HARDWARE TYPE

TYPE A (PASSAGE LOCK) - SCHLAGE SATURN AL10S, FINISH: 626
 TYPE B (ENTRANCE/OFFICE LOCK) - SCHLAGE SATURN ALSOPD, FINISH: 626
 TYPE C (BATH/PRIVACY LOCK) - SCHLAGE SATURN AL40S, FINISH: 626
 TYPE D (CLASSROOM LOCK) - SCHLAGE SATURN AL70PD, FINISH: 626
 TYPE E (STOREROOM LOCK) - SCHLAGE SATURN AL80PD, FINISH: 626

Hardware Types 10

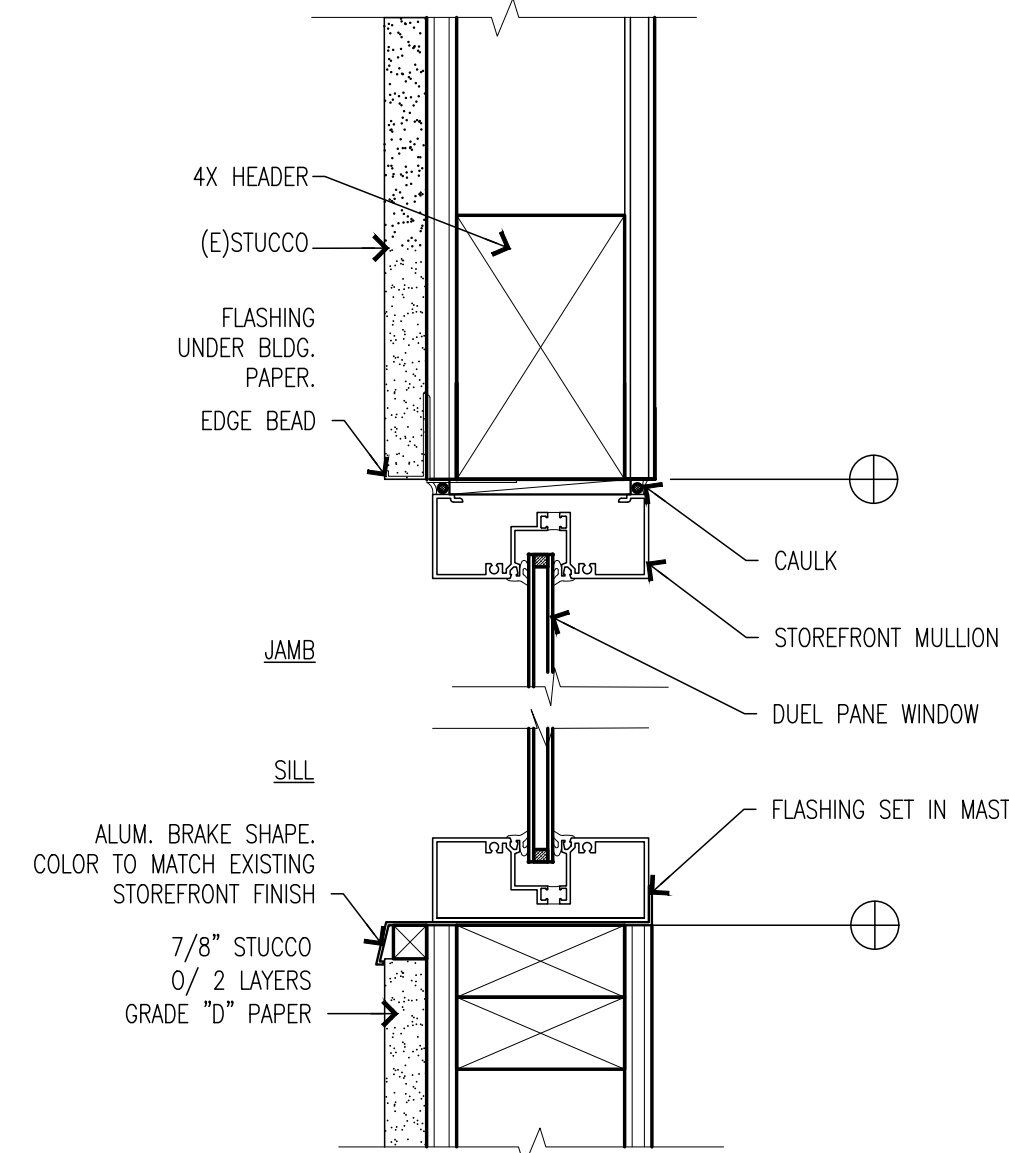


Window Type 9



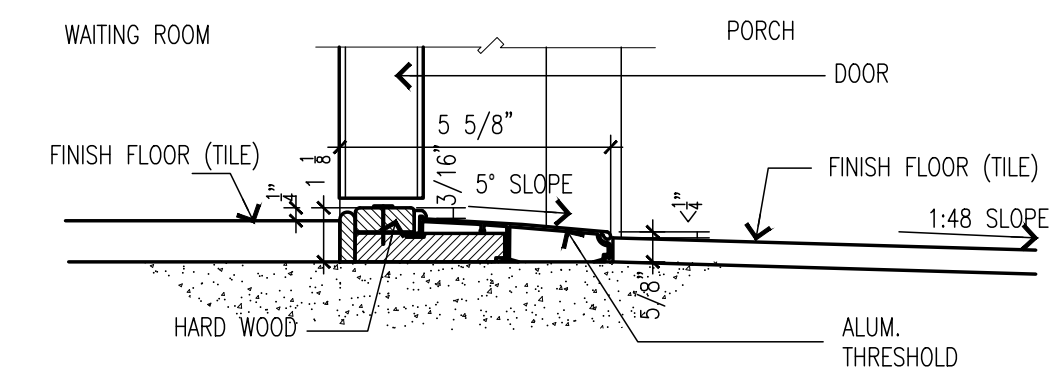
Sliding Door Detail 5

Window Detail Type C 6

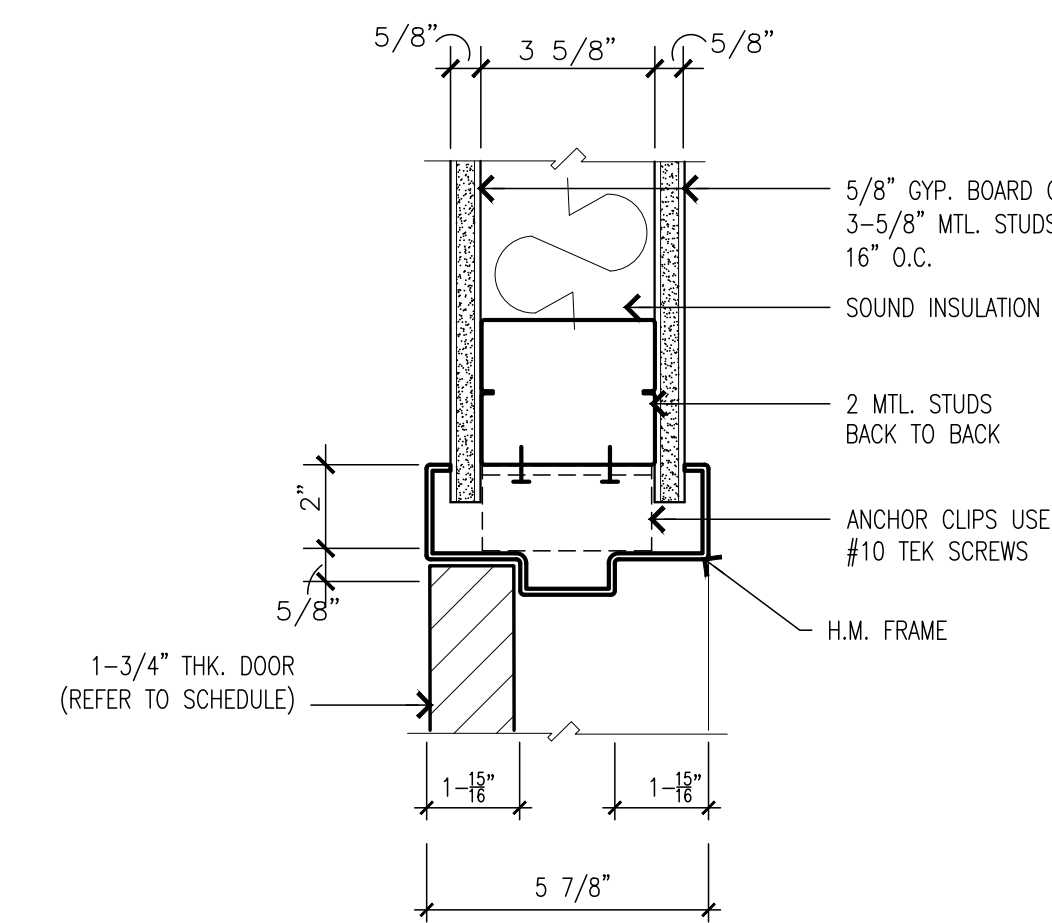


- ALL REQUIRED EXIT DOORS TO HAVE 32" CLEAR OPENING AT 90 DEGREES
- THRESHOLD SHALL BE NO HIGHER THAN 1/2" ABOVE FLOOR. EDGE TO BE BEVELED WITH A MAX. GRADIENT OF 1:2, IF MORE THAN 1/4".
- WIDTH AND CLEAR AREA ON THE SWING SIDE OF THE DOOR SHALL EXTEND 24" PAST STRIKE EDGE FOR EXTERIOR DOORS AND 18" PAST STRIKE SIDE FOR INTERIOR DOORS.
- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO PEOPLE WITH DISABILITIES SHALL BE IDENTIFIED BY AT LEAST ONE STANDARD SIGN AND DIRECTIONAL SIGNS AS REQUIRED.
- EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- DOORS WITH CLOSERS (TO COMPLY WITH CBC 11B-404.2.9) TO BE ADJUSTED TO HAVE MAXIMUM OPENING FORCE OF 5 LBS FOR INTERIOR, FOLDING, AND EXTERIOR DOORS AND MAX. 15 LBS FOR FIRE RATED DOORS
- OTHER THAN REQUIRED FIRE DOORS, INTERIOR AND EXTERIOR DOORS SHALL HAVE A MAXIMUM OPENING FORCE OF 5LBS.
- HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF WRIST TO OPERATE. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERATED BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, U-SHAPED HANDLES OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE.
- SAFETY GLAZING REQUIREMENTS AS PER CBC, SECTION 2406.

Door Notes 4



Threshold Detail 3



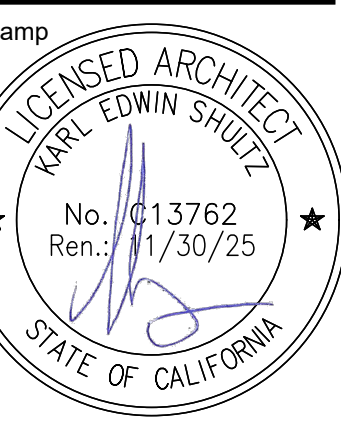
Door Jamb 2

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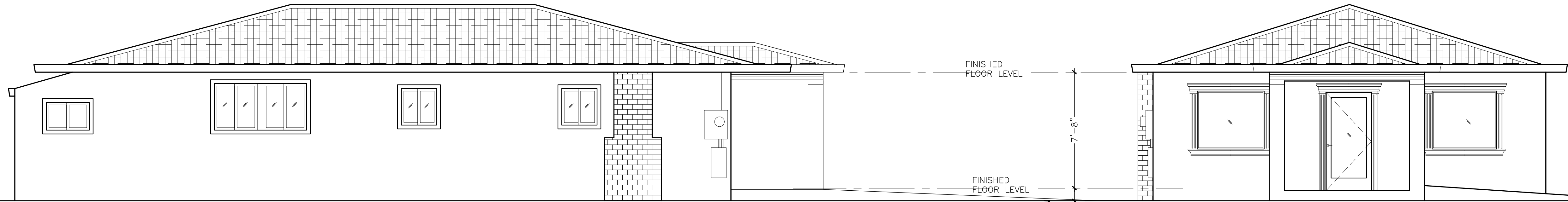
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<input type="checkbox"/> PLAN CHECK	
<input type="checkbox"/> CONSTRUCTION	

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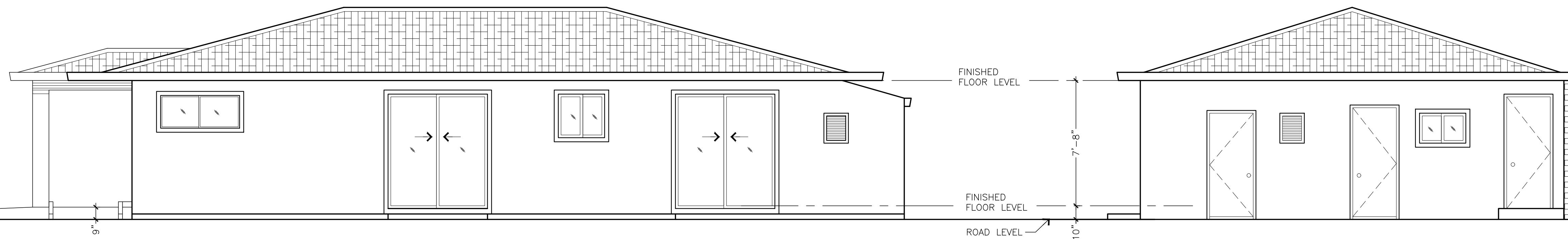


Sheet Title: DOOR AND WINDOW DETAILS
 Date: 06-03-2024
 Project #: 2416
 Sheet No.:



(E) EAST ELEVATION

(E) NORTH ELEVATION



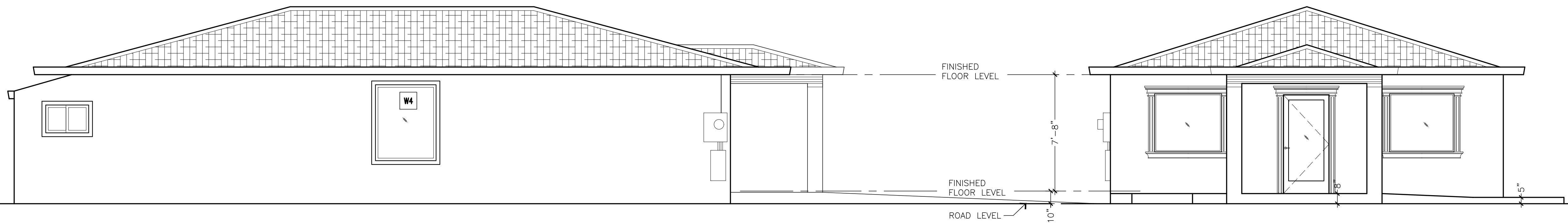
(E) WEST ELEVATION

(E) SOUTH ELEVATION

(E) Elevations

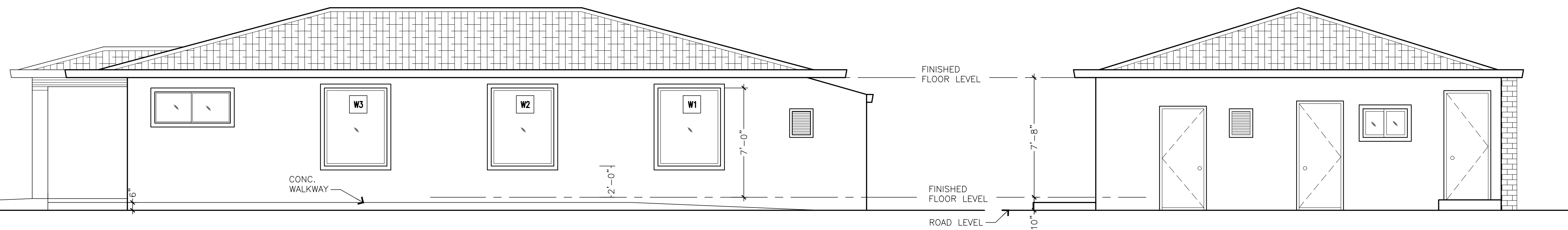
Scale: 1/4"=1'-0"

3



EAST ELEVATION

NORTH ELEVATION



WEST ELEVATION

SOUTH ELEVATION

New Elevations

Scale: 1/4"=1'-0"

1

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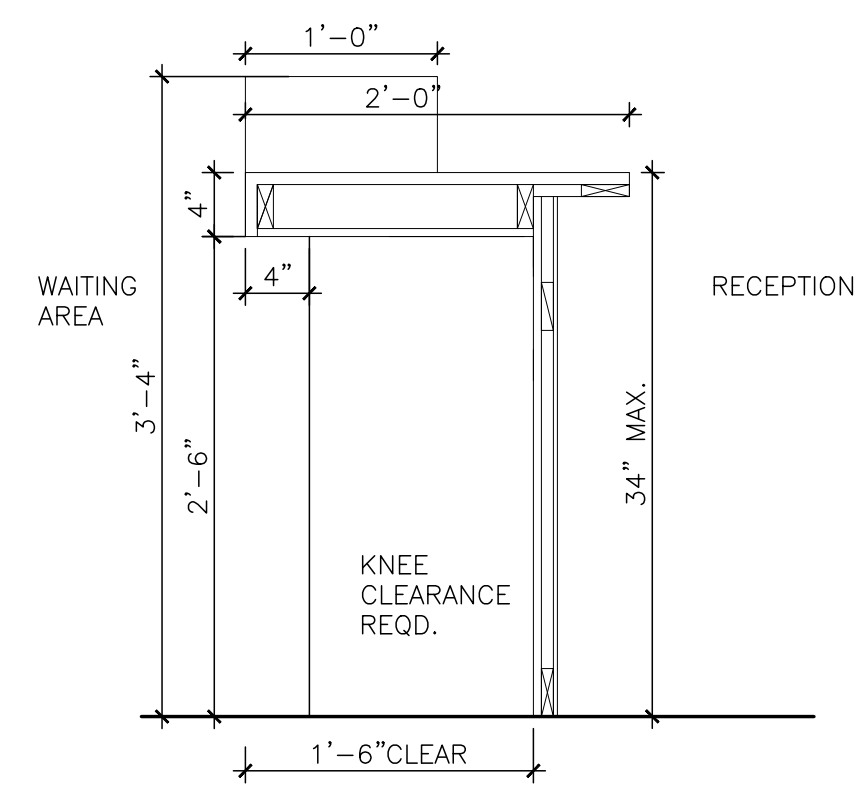
EXTERIOR ELEVATIONS

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Project #: 2416

Sheet No.:

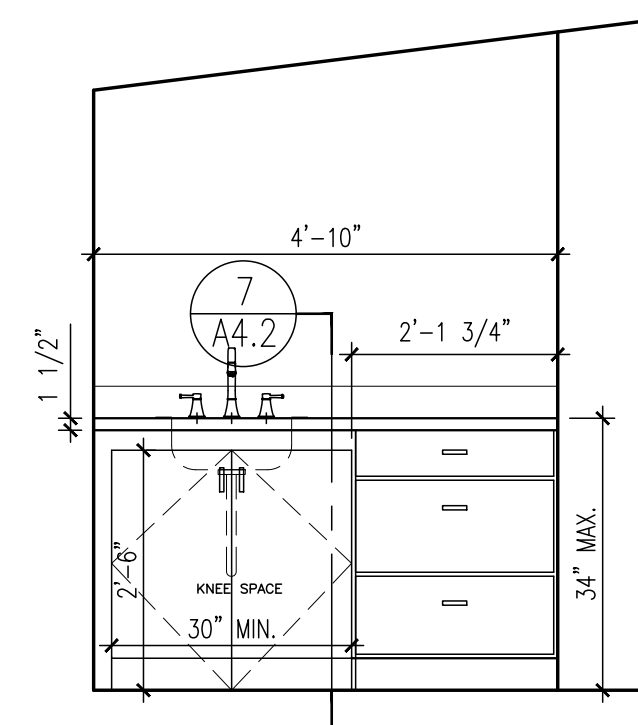
A4.1



Reception Desk

Scale: 1"=1'-0"

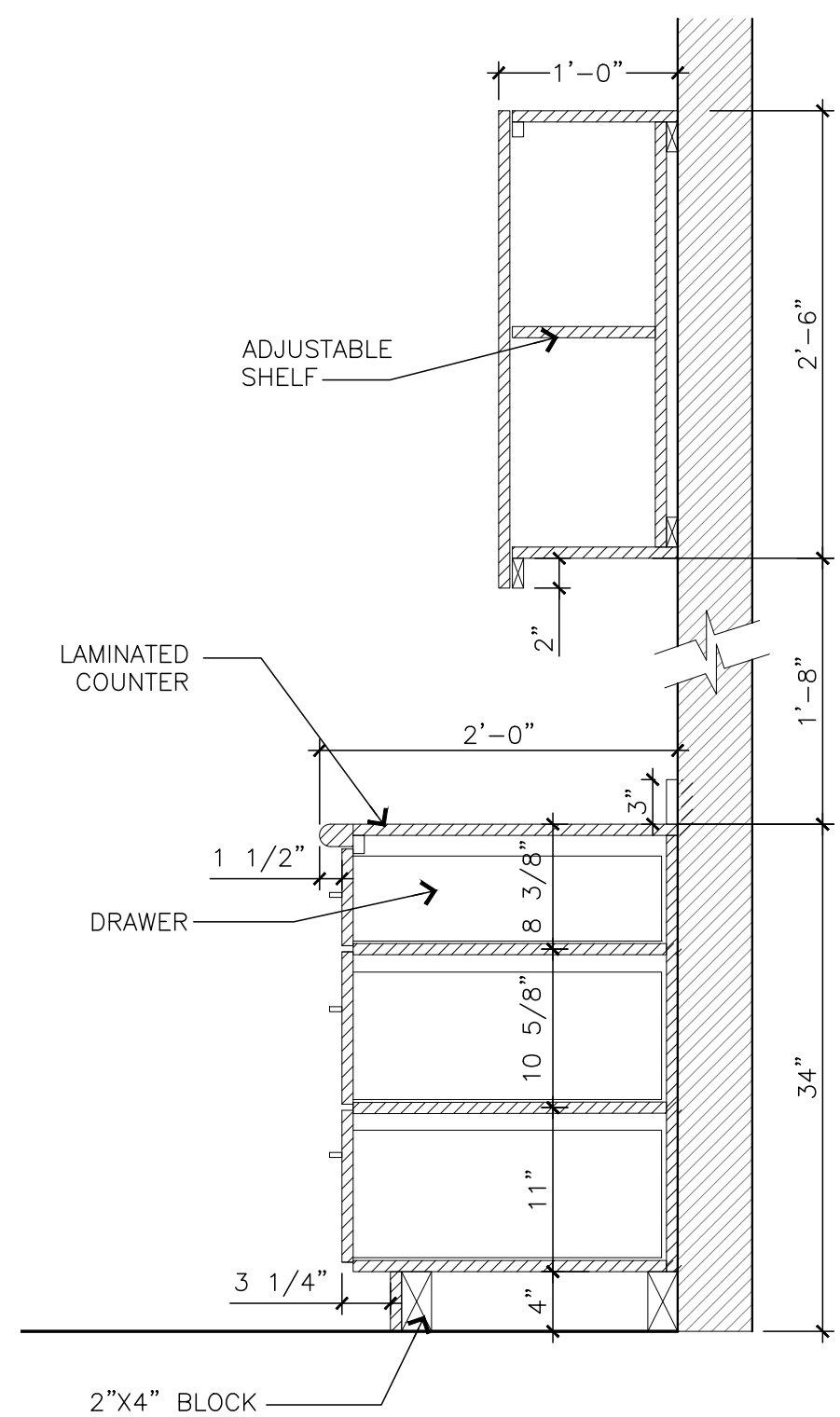
11



Break Room

Scale: 1/2"=1'-0"

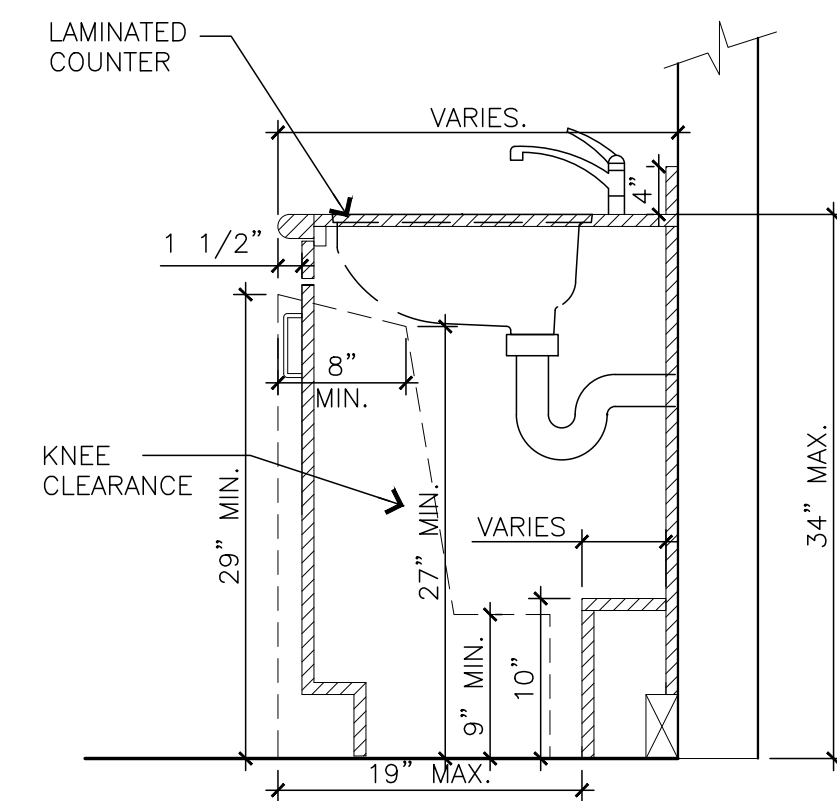
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Casework Section

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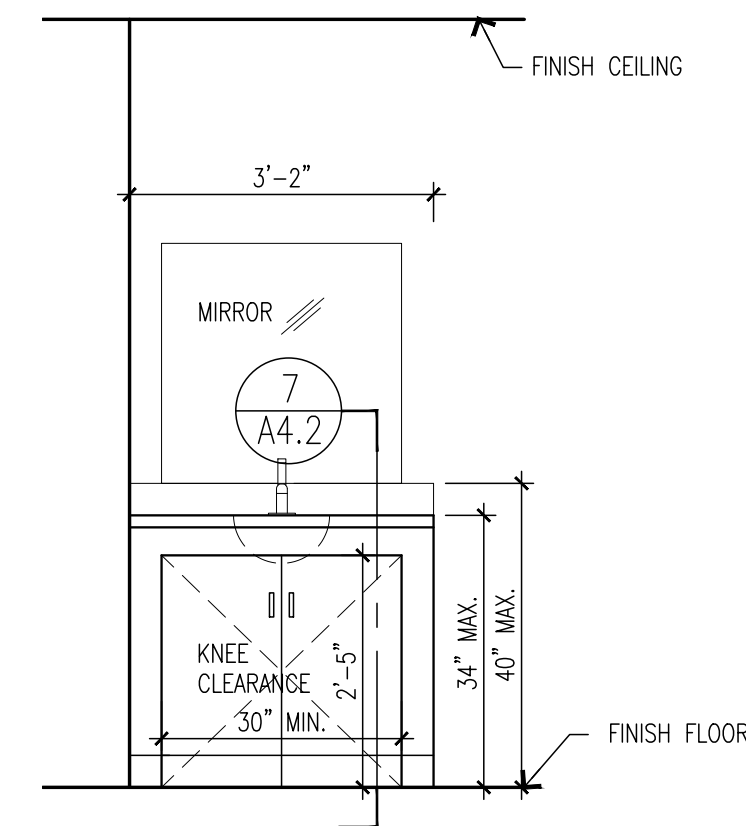
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Sink Section

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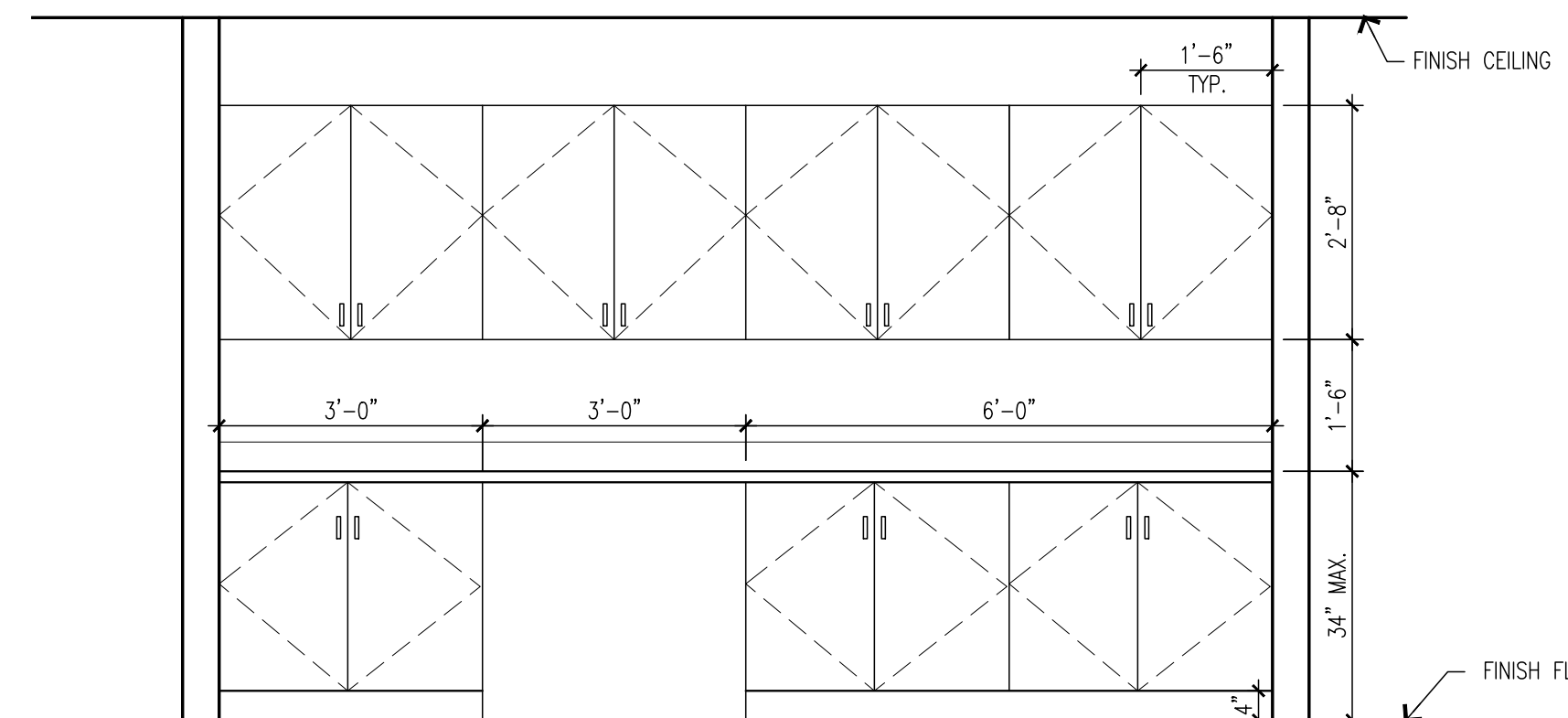
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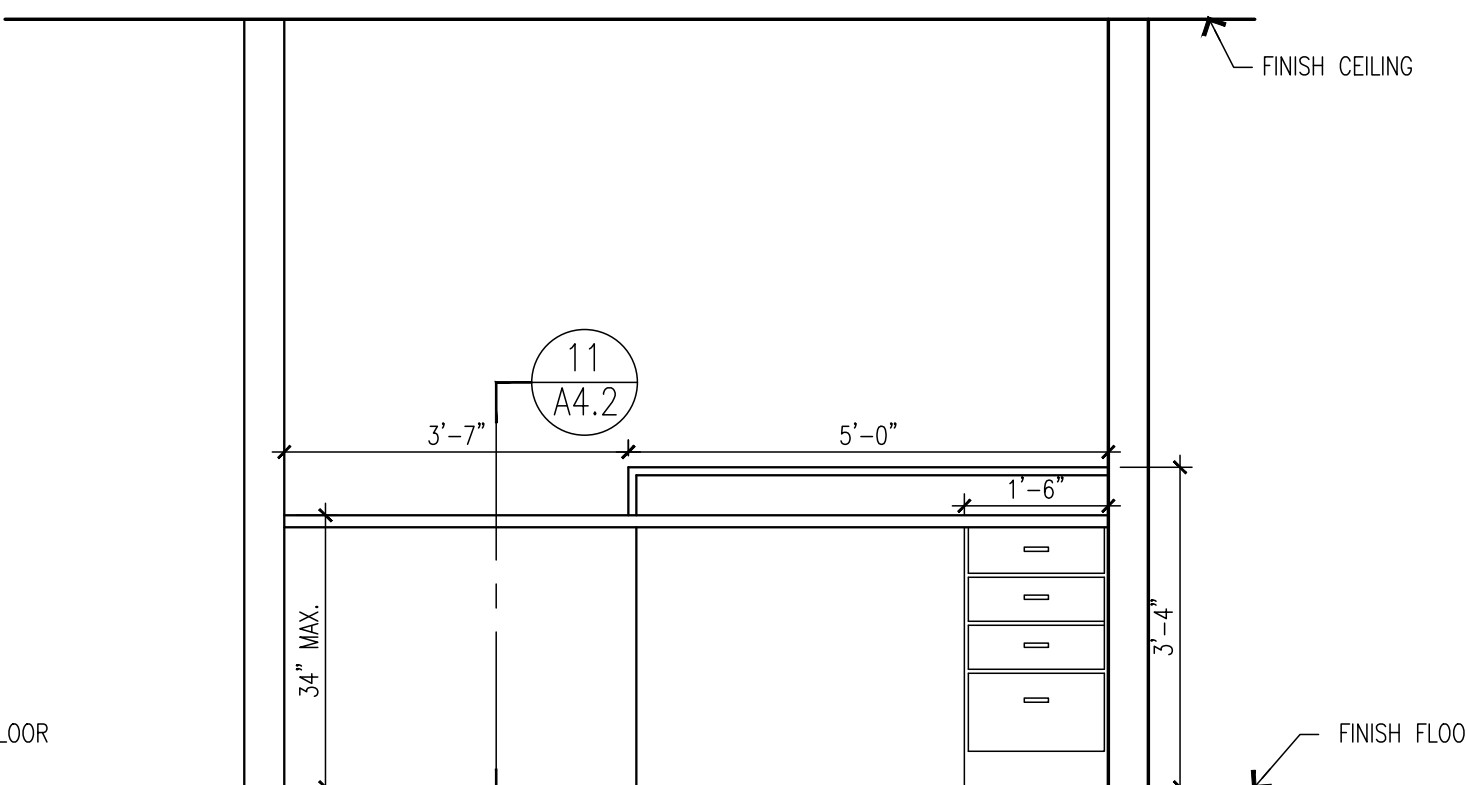
Oper. Rooms

Scale: 1/2"=1'-0"

3



ELEVATION A

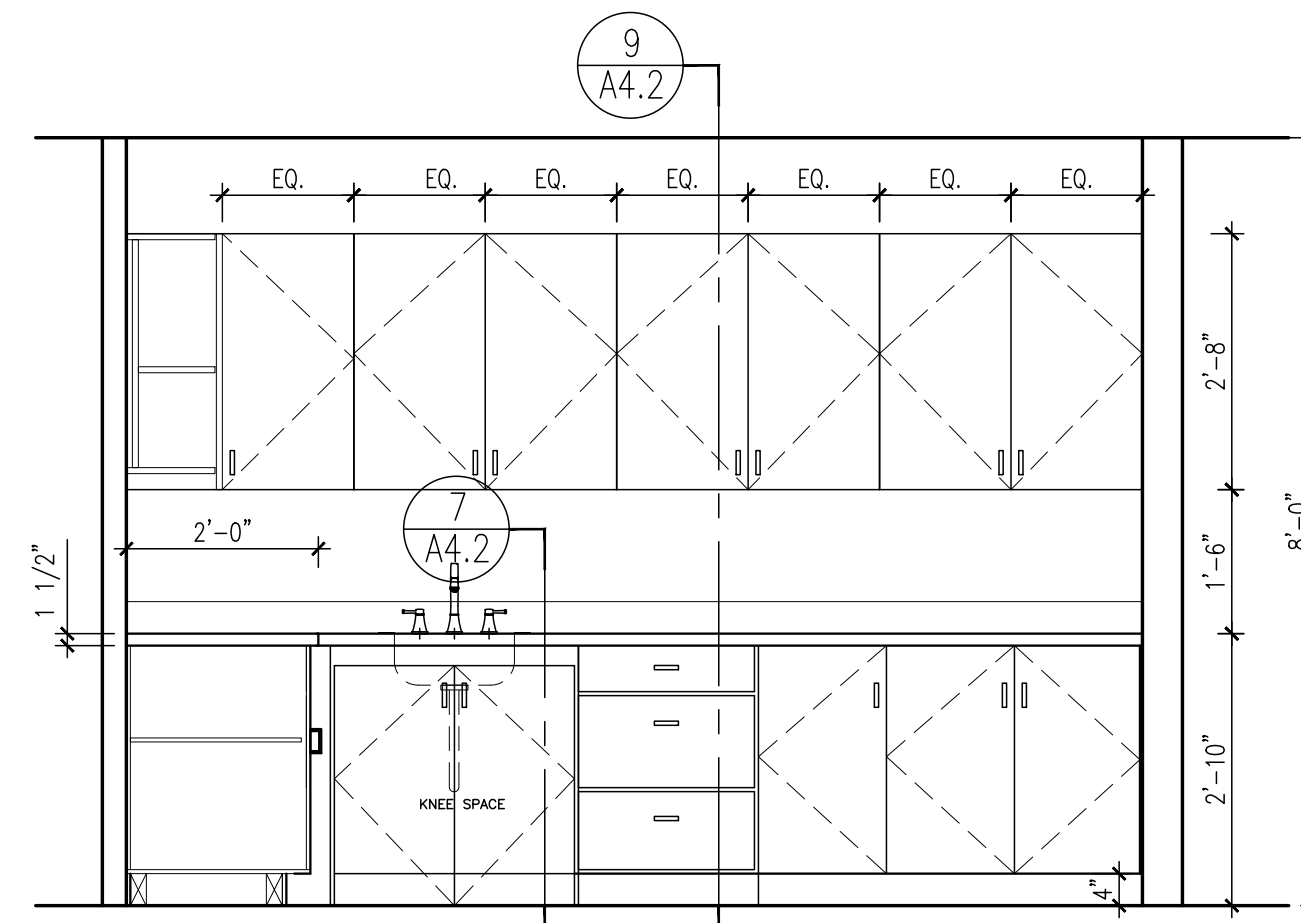


ELEVATION B

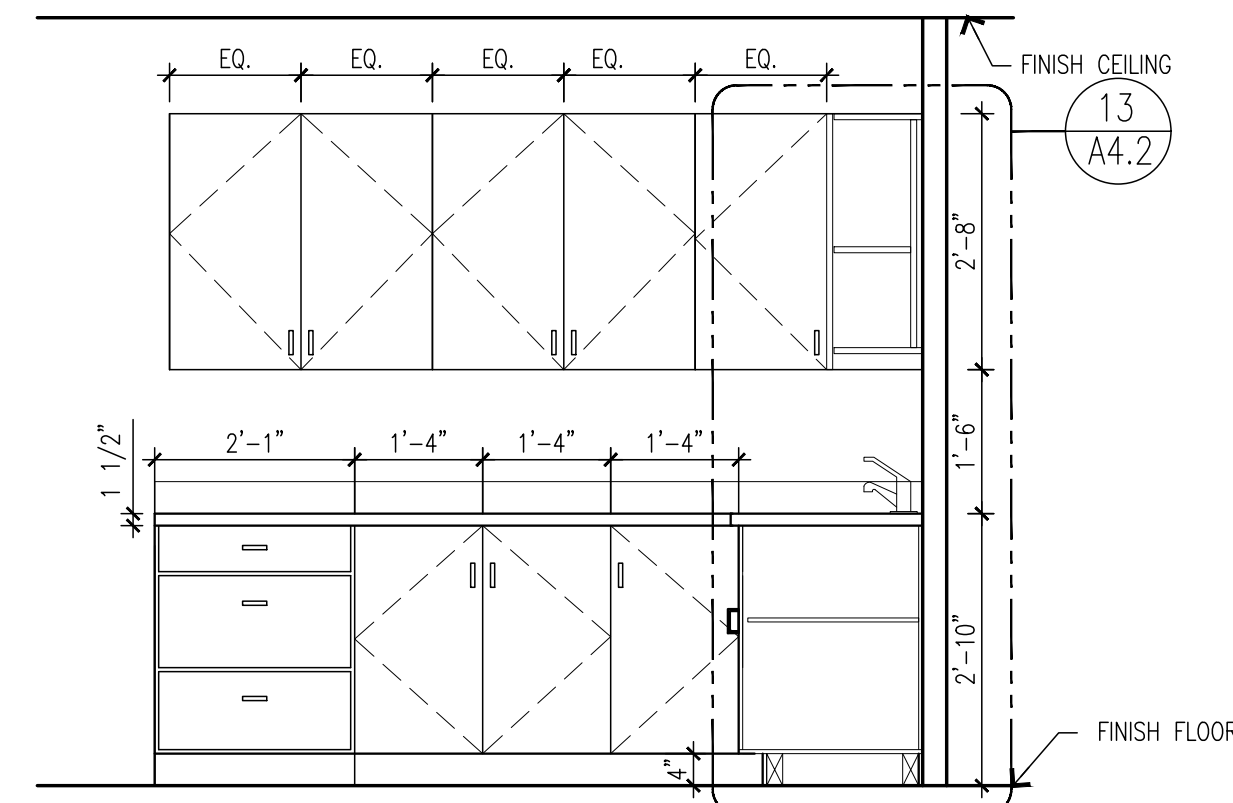
Reception Area

Scale: 1/2"=1'-0"

2



ELEVATION A



ELEVATION B

Steril.Rm.

Scale: 1/2"=1'-0"

1

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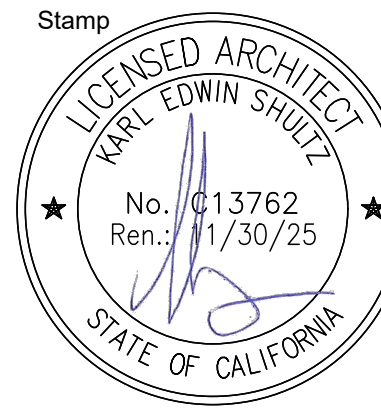
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Sheet Title:

INTERIOR
 ELEVATIONS
 DETAILS

Date: 06-03-2024

Project # 2416

Sheet No.:

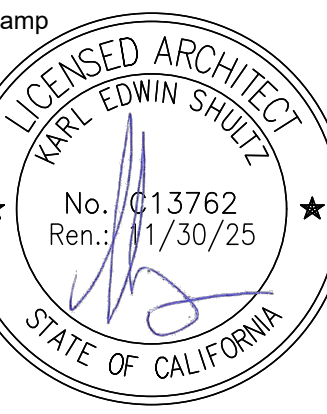
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<input type="radio"/> CONSTRUCTION	

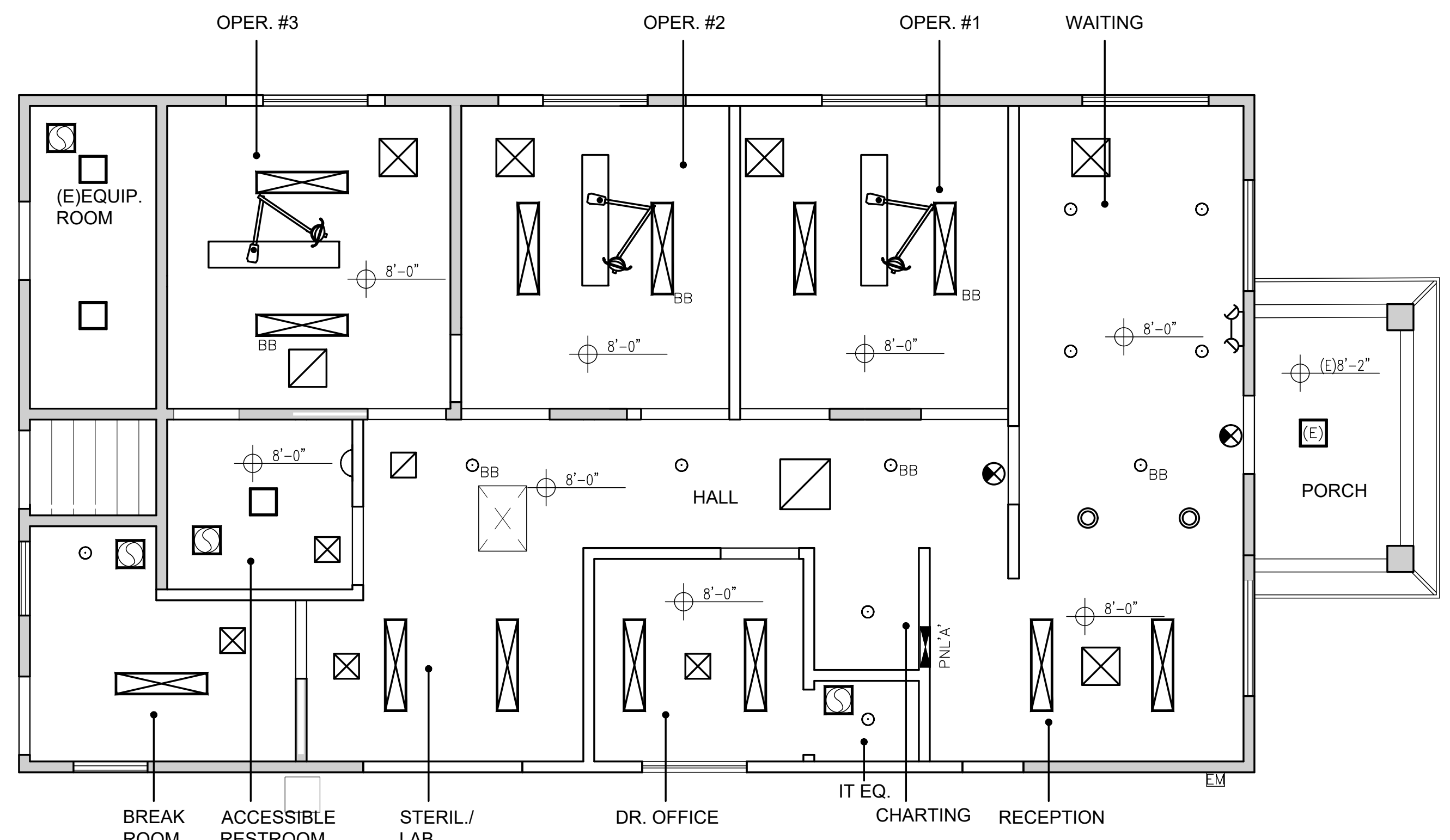
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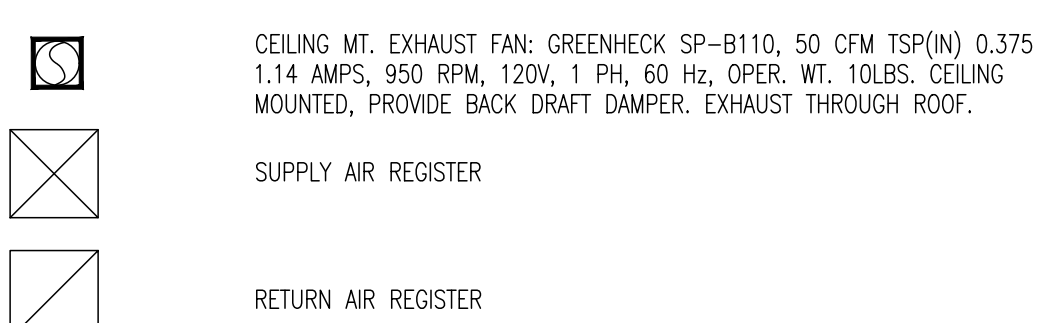
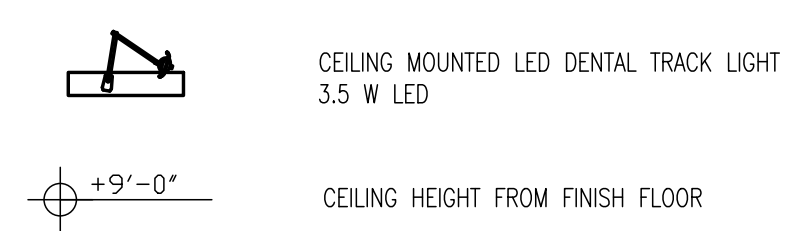


Sheet Title:
REFLECTED CEILING PLAN
 DETAILS
 Date: 06-03-2024
 Project #: 2416
 Sheet No.:

A6.1



Reflected Ceiling Plan
 Scale: 1/4"=1'-0" **2**



Ceiling Legend **9**

T-24 REF.#	FIXTURE SYMBOL	DESCRIPTION	LAMP / WATTS	NOTES
A	[Symbol]	1X4 LED FLAT PANEL LITHONIA: EPANL LED	37W LED 40K	
B	[Symbol]	1X4 LED FLAT PANEL LITHONIA: EPANL LED	37W LED 40K	WITH 90 MIN. EMERGENCY PACK
C	[Symbol]	LITHONIA LDN6 6" ROUND AL01 1000 SWW1 4000K L06 WR TRW LSS_MVOLT UGZ -90CRI	13W LED 4000K	
D	[Symbol]	LITHONIA LDN6 6" ROUND AL01 1000 SWW1 4000K L06 WR TRW LSS_MVOLT UGZ_EL_90CRI	13W LED 4000K	WITH 90 MIN. EMERGENCY PACK & REMOTE TEST SWITCH
E	[Symbol]	PENDANT LIGHT	18 WATTS 120V CCT:4000K	
F	[Symbol]	LIGHTOLOGY_BRINK SLIM BATHROOM VANITY LIGHT	10.9W LED	
G	[Symbol]	12x12 SURFACE MOUNTED FIXTURE JUNO JSFSQ 12W 13LM 40K	8W LED	
I	[Symbol]	EMERGENCY LIGHT LITHONIA LTG.-ELM		
	[Symbol]	EXIT LIGHT LITHONIA LTG.-LEPW1G120EL N		

Light Fixture Schedule **5**

CEC 517.13 EQUIPMENT GROUNDING CONDUCTOR FOR RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES

(A) WIRING METHODS

ALL BRANCH CIRCUITS SERVING PATIENT CARE SPACES SHALL BE PROVIDED WITH AN EFFECTIVE GROUND-FULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR A CABLE HAVING A METALLIC ARMOR OR SHEATH ASSEMBLY. THE METAL RACEWAY SYSTEM, METALLIC CABLE ARMOR, OR SHEATH ASSEMBLY SHALL ITSELF QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH 250.118.

(B) INSULATED EQUIPMENT GROUNDING CONDUCTORS AND INSULATED EQUIPMENT BONDING JUMBERS

(1) GENERAL

THE FOLLOWING SHALL BE DIRECTLY CONNECTED TO AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THAT IS CLEARLY IDENTIFIED ALONG ITS ENTIRE LENGTH BY GREEN INSULATION AND INSTALLED WITH THE BRANCH CIRCUIT CONDUCTORS IN THE WIRING METHODS AS PROVIDED IN 517.13(A):

- THE GROUNDING TERMINALS OF ALL RECEPTACLES OTHER THAN ISOLATED GROUND RECEPTACLES METAL OUTLET BOXES, METAL DEVICE BOXES, OR METAL ENCLOSURES
- ALL NON-CURRENT-CARRYING SURFACES OF FIXED ELECTRICAL EQUIPMENT LIKELY TO BECOME ENERGIZED THAT ARE SUBJECT TO PERSONAL CONTACT, OPERATING AT OVER 100 VOLTS METAL FACEPLATES, BY MEANS OF A METAL MOUNTING SCREW(S) SECURING THE FACEPLATE TO A METAL YOKE OR STRAP OF A RECEPTACLE OR TO A METAL OUTLET BOX
- EXCEPTION NO. 1: FOR OTHER THAN ISOLATED GROUND RECEPTACLES, AN INSULATED EQUIPMENT BONDING JUMPER THAT DIRECTLY CONNECTS TO THE EQUIPMENT GROUNDING CONDUCTOR IS PERMITTED TO CONNECT THE BOX AND RECEPTACLE(S) TO THE EQUIPMENT GROUNDING CONDUCTOR. ISOLATED GROUND RECEPTACLES SHALL BE CONNECTED IN ACCORDANCE WITH 517.16.
- EXCEPTION NO. 2: LUMINAIRES MORE THAN 2.3 M (7 1/2 FT) ABOVE THE FLOOR AND SWITCHES LOCATED OUTSIDE OF THE PATIENT CARE WORK AREA SHALL BE PERMITTED TO BE CONNECTED TO AN EQUIPMENT GROUNDING RETURN PATH COMPLYING WITH 517.13(A) OR (B).

(2) SIZING

EQUIPMENT GROUNDING CONDUCTORS AND EQUIPMENT BONDING JUMBERS SHALL BE SIZED IN ACCORDANCE WITH 2022 CEC 250.122.

Grounding Notes

Scale: None

5

CEC 210.8(B) GROUND-FULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONAL.

(B) OTHER THAN DWELLING UNITS

ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B)(1) THROUGH (B)(12) SHALL HAVE GROUND-FULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

BATHROOMS
KITCHENS OR AREAS WITH A SINK AND PERMANENT PROVISIONS FOR EITHER FOOD PREPARATION OR COOKING

ROOFTOPS
EXCEPTION: RECEPTACLES ON ROOFTOPS SHALL NOT BE REQUIRED TO BE READILY ACCESSIBLE OTHER THAN FROM THE ROOFTOP.

OUTDOORS

EXCEPTION NO. 1 TO (3) AND (4): RECEPTACLES THAT ARE NOT READILY ACCESSIBLE AND ARE SUPPLIED BY A BRANCH CIRCUIT DEDICATED TO ELECTRIC SNOW-MELTING, DEICING, OR PIPELINE AND VESSEL HEATING EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN ACCORDANCE WITH 426.28 OR 427.22, AS APPLICABLE.

EXCEPTION NO. 2 TO (4): IN INDUSTRIAL ESTABLISHMENTS ONLY, WHERE THE CONDITIONS OF MAINTENANCE AND SUPERVISION ENSURE THAT ONLY QUALIFIED PERSONNEL ARE INVOLVED, AN ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM AS SPECIFIED IN 590.6(B)(2) SHALL BE PERMITTED FOR ONLY THOSE RECEPTACLE OUTLETS USED TO SUPPLY EQUIPMENT THAT WOULD CREATE A GREATER HAZARD IF POWER IS INTERRUPTED OR HAVING A DESIGN THAT IS NOT COMPATIBLE WITH GFCI PROTECTION.

SINKS — WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK

EXCEPTION NO. 1 TO (5): IN INDUSTRIAL LABORATORIES, RECEPTACLES USED TO SUPPLY EQUIPMENT WHERE REMOVAL OF POWER WOULD INTRODUCE A GREATER HAZARD SHALL BE PERMITTED TO BE INSTALLED WITHOUT GFCI PROTECTION.

EXCEPTION NO. 2 TO (5): RECEPTACLES LOCATED IN PATIENT BED LOCATIONS OF CATEGORY 2 (GENERAL CARE) OR CATEGORY 1 (CRITICAL CARE) SPACES OF HEALTH CARE FACILITIES SHALL BE PERMITTED TO COMPLY WITH 517.21.

INDOOR DAMP AND WET LOCATIONS
LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES
GARAGES, ACCESSORY BUILDINGS, SERVICE BAYS, AND SIMILAR AREAS OTHER THAN VEHICLE EXHIBITION HALLS AND SHOWROOMS
CRAWL SPACES — AT OR BELOW GRADE LEVEL
UNFINISHED AREAS OF BASEMENTS

EXCEPTION TO (1) THROUGH (5), (8), AND (10): LISTED LOCKING SUPPORT AND MOUNTING RECEPTACLES UTILIZED IN CONNECTION WITH COMPARTMENT ATTACHMENTS INSTALLED FOR THE PURPOSE OF SERVING A CEILING LUMINAIRE OR CEILING FAN SHALL NOT BE REQUIRED TO BE GROUND-FULT CIRCUIT-INTERRUPTER PROTECTED. IF A GENERAL-PURPOSE CONVENIENCE RECEPTACLE IS INTEGRAL TO THE CEILING LUMINAIRE OR CEILING FAN, GFCI PROTECTION SHALL BE PROVIDED.

LAUNDRY AREAS
BATHUBS AND SHOWER STALLS — WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL

GFI Protection Notes

17

Electrical Notes

Scale: None

19

GENERAL

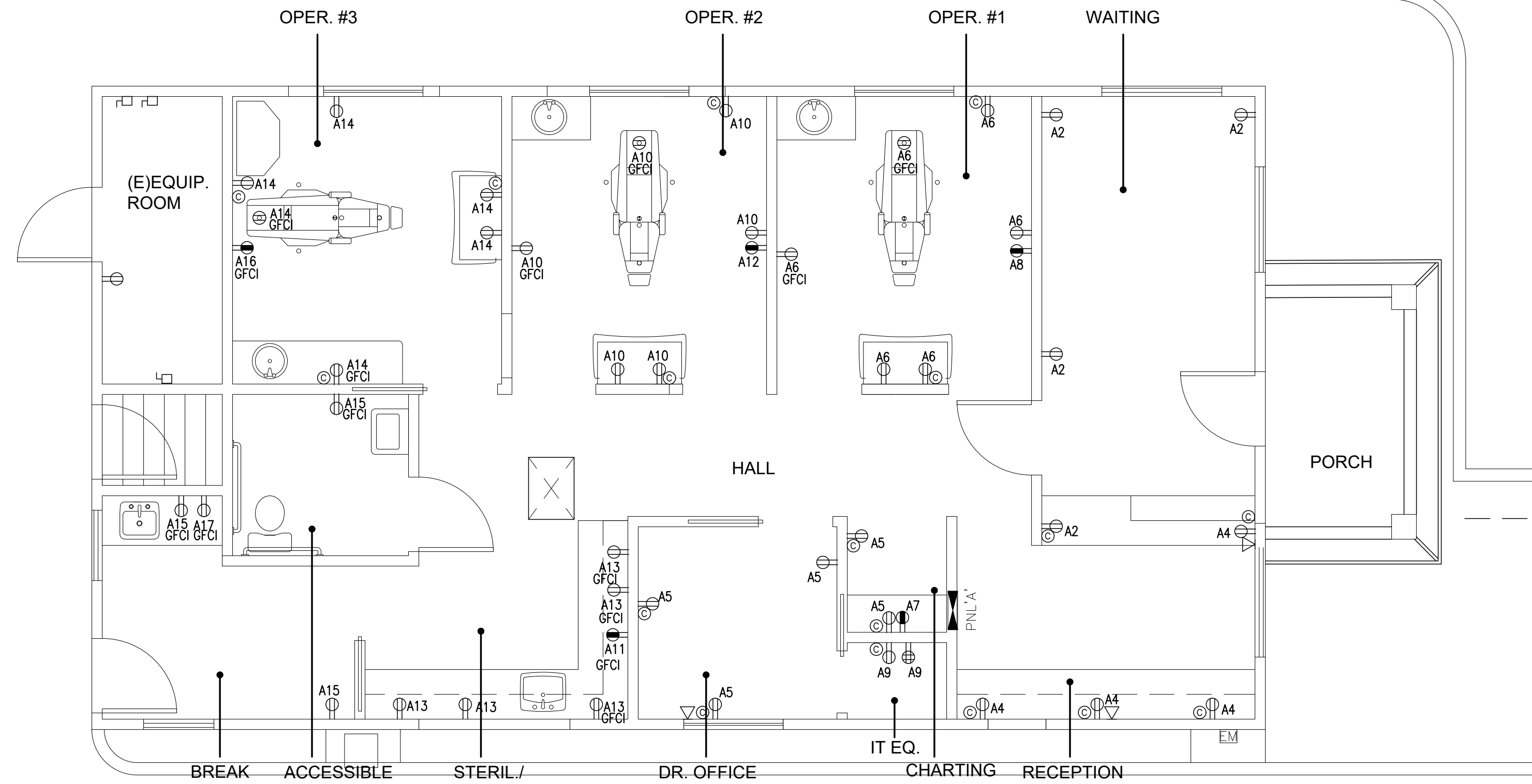
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND THOROUGHLY EXAMINE ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK PRIOR TO SUBMITTING BID. HE SHALL VERIFY ALL ELECTRICAL WORK SHOWN EXISTING AND SHALL INCLUDE ALL NECESSARY LABOR AND MATERIALS IN HIS PROPOSAL TO CONNECT SERVICES AND LIGHTING CIRCUITS TO PROVIDE FULLY OPERATIONAL SYSTEMS. ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO BID.
- CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM.
- TEST ALL ELECTRICAL SYSTEMS AS A WHOLE AT COMPLETION OF WORK TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
- COORDINATE ALL WORK WITH OTHER TRADES FOR THE EXTENT OF WORK AND OTHER TECHNICAL REQUIREMENTS.
- VERIFY EXISTING CONDITIONS IN THE FIELD. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE.
- ALL WORK PERFORMED SHALL COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE (C.E.C.) AND ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES ARE TO BE NEW AND BEAR UNDERWRITER'S LABORATORY LABEL (U.L.)
- ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL COMPLY WITH CURRENT U.B.C. REQUIREMENTS.
- ALL GROUNDING FOR ANY PURPOSE SHALL BE DONE IN STRICT COMPLIANCE WITH ARTICLE #250 OF THE CALIFORNIA ELECTRIC CODE (C.E.C.)
- ALL CONDUIT SHALL BE CONCEALED, MINIMUM SIZE SHALL BE 1/2" TRADE SIZE. ENT SHALL BE USED IN HUNG CEILING AND NON-MASONRY WALLS. INSTALLATION OF ALL FLEXIBLE METAL CONDUIT SHALL BE IN ACCORDANCE WITH NEC-350. CONDUIT PENETRATIONS FROM OUTSIDE WALL SHALL BE WATERPROOFED.

PRODUCTS

- ALL CONDUCTORS ARE TO BE COPPER WITH TYPE THHN INSULATION. PROVIDE QUALITY WIRES AS REQUIRED. USE #12 AWG MIN. U.O.N.
- ALL ELECTRICAL DISTRIBUTION AND OVER CURRENT PROTECTION EQUIPMENT MUST MEET OR EXCEED THE MINIMUM SHORT CIRCUIT CURRENT RATING CALCULATED BASED UPON THE ACTUAL RATING SUPPLIED BY THE UTILITIES.
- ALL FLOURESCENT FIXTURES SHALL HAVE ENERGY SAVING BALLASTS AND ENERGY SAVING LAMPS.
- TELEPHONE CONDUIT SHALL BE MIN. OF 3/4" CONDUIT FOR SINGLE OUTLETS AND MIN. 1" CONDUIT FOR DUAL (2) OUTLETS WITH A MAX. OF 2 OUTLETS PER RUN.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBEL, SIERRA OR LEVITON.

EXECUTION

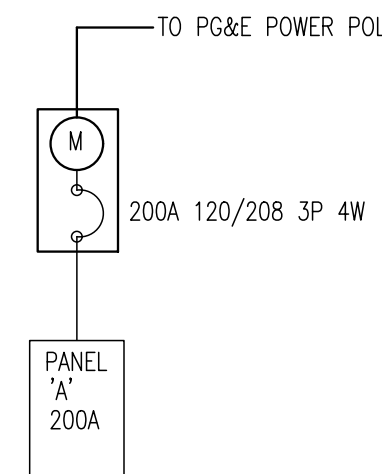
- WHERE GROUPED TOGETHER, INSTALL TELEPHONE AND ELECTRICAL WALL DEVICES AT 6" CENTER TO CENTER, U.O.N.
- FOR OUTLETS INDICATED AT SPECIAL MOUNTING HEIGHTS, THE HEIGHT DIMENSION IS MEASURED FROM THE FINISH FLOOR TO THE BOTTOM OF THE OUTLET MEASURED VERTICALLY.
- ALL FIXTURES CALLED OUT AS SURFACE MOUNTED SHALL BE SECURELY ATTACHED TO THE BUILDING WITHOUT EXCEPTION.
- MOUNT BOXES TO BUILDING STRUCTURE WITH SUPPORTING FACILITIES INDEPENDENT OF RACEWAYS ENTERING OR LEAVING BOXES. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH.
- ALL HALL SWITCHES SHALL BE MOUNTED AT A MAX. OF 48" ABOVE FINISHED FLOOR TO THE TOP OF BOX, U.O.N. ALL RECEPTACLES SHALL BE MOUNTED AT A MIN. OF 15" ABOVE FINISHED FLOOR TO THE BOTTOM OF BOX U.O.N.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT OF ALL DEVICES WITH APPROVED CABINETRY AND SHELVING DRAWINGS PRIOR TO ROUGH-IN.
- RECEPTACLE ELEVATION MINIMUM 15" TO BOTTOM OF BOX AFF FOR OUTLETS ON CIRCUITS OF 30 AMPERES OR LESS.



Elec. Power Plan

Scale: 1-1/2"=1'-0"

3



Single Line Diagram

Scale: None

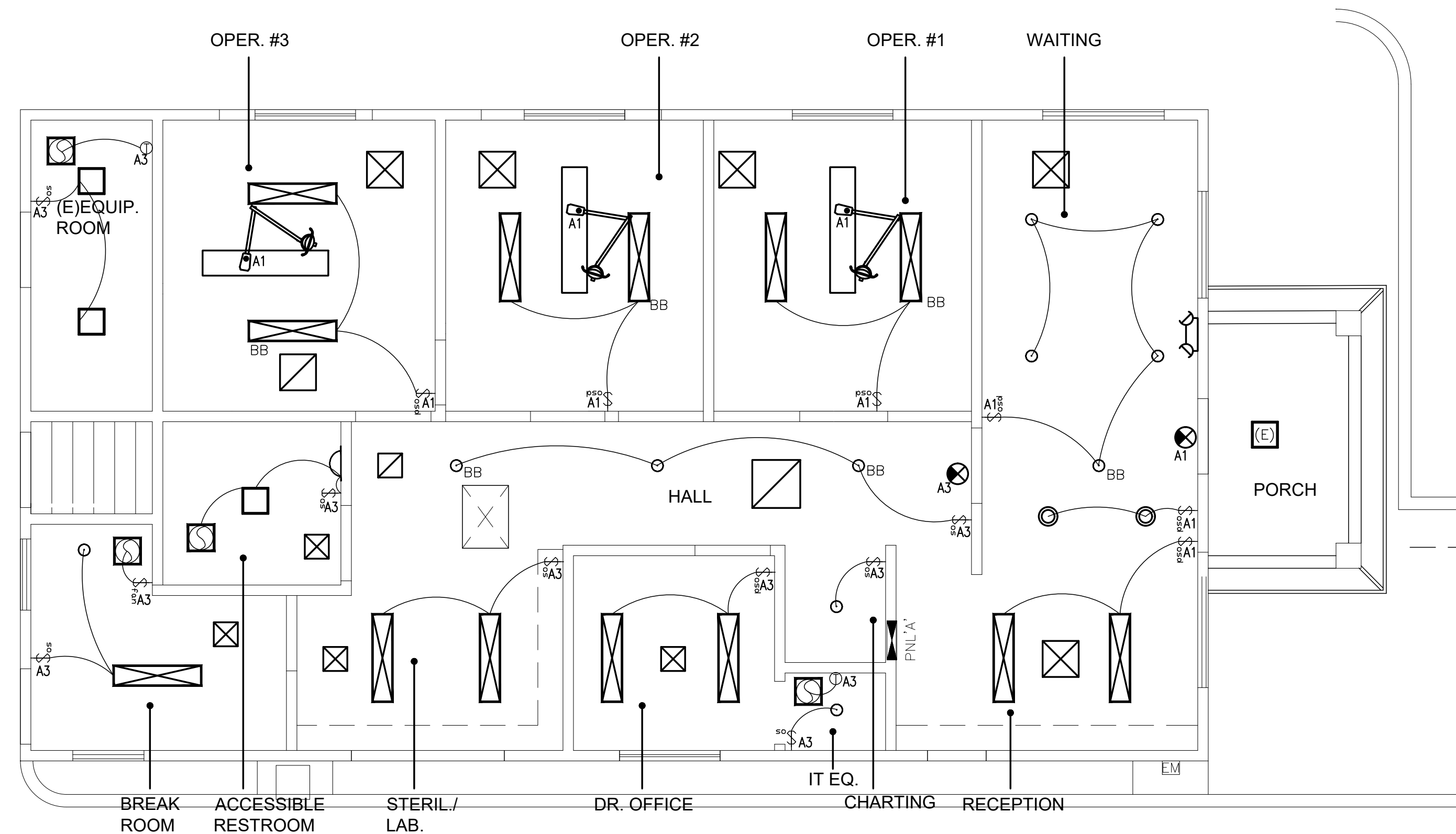
9

COPPER FEEDER SCHEDULE			
3 PHASE, 3 WIRE			
FEEDER NO.	AMPS	CONDUIT	CONDUCTORS
20-3	20	3/4"	3 #12, 1 #12 GND
40-3	40	3/4"	3 #8, 1 #10 GND
70-3	70	1"	3 #4, 1 #8 GND
125-3	125	1-1/4"	3 #1, 1 #6 GND
200-3	200	2"	3 #3/0, 1 #6 GND
200-3A	200	2"	3 #4/0, 1 #4 GND
200-3B	200	2"	3 #250 KCMIL, 1 #3 GND
200-3C	200	2-1/2"	3 #350 KCMIL, 1 #1 GND
400-3	400	(2) 2"	3 #3/0, 1 #3 GND IN EA.
1200-3	1200	(4) 2-1/2"	3 #350 KCMIL, 1 #3 GND IN EA.
3 PHASE, 4 WIRE			
100-4	100	1-1/2"	4 #1, 1 #8 GND
150-4	150	1-1/2"	4 #1/0, 1 #6 GND
1200-4	1200	(4) 3"	4 #350KCMIL, 1 #3/0 GND IN EA.

NOTES

- CONDUCTORS AND CONDUIT SIZES SHOWN IN SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION IN EMT CONDUIT.
- FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
- ELECTRICAL CONTRACTOR TO GET THE AIC FROM THE UTILITY AND PERFORM THE SHORT-CIRCUIT CALCULATION TO ALL PANELS PRIOR TO PURCHASE OF ANY EQUIPMENT.

LOCATION	WATTAGE (VA)						LTD	REC	MS	BKR	CR	#	OR	BKR	REC	LTD	WATTAGE (VA)						LOCATION		
	#A	#B	#C	#A	#B	#C											#A	#B	#C	#A	#B	#C			
LIGHTS	650	650	19					20	1	A	2	20				4	800	800					WAITING		
DR. OFFICE, CHARTING	650	650	16					4	20	3	B	4	20			4	800	800					RECEPTION		
DR. OFFICE, CHARTING	1000	1000						5	20	5	C	6	20			6	1200	1200					OPER.#1		
DEDICATED REC.	400	400						1	20	7	A	8	20			1	600	600					OP1 X-RAY		
IT EQUIPMENT	1000	1000						3	20	9	B	10	20			6	1200	1200					OPER.#2		
AUTOCLEAN	1000	1000						1	20	11	C	12	20			1	600	600					OP2 X-RAY		
STERIL/AB	1000	1000						5	20	13	A	14	20			6	1200	1200					OPER.#3		
BREAK & RESTROOM	500	500						3	20	15	B	16	20			1	600	600					OP3 X-RAY		
MICROWAVE OVEN	900	900						1	20	17	C	18	30			1	1000	1000					VACUUM		
WATER HEATER	1500	1500						1	30	19	A	20	2			2	25	25					COMPRESSOR		
HVAC	1000	1000						1	20	23	C	24	2			2	25	25							
										27	B	28													
										29	C	30													
										31	A	32													
										33	B	34													
										35	C	36													
										37	A	38													
										39	B	40													
										41	C	42													
SUBTOTALS	3550	3650	3900							#B	7250	#C	7700				3600	3600	3800						
TOTAL #A		7150																							
TOTAL LOAD		22100																							



Electrical Ceiling Plan

Scale: None

2

- Ⓢ OCCUPANCY SENSOR LIGHT CONTROL WITH MANUAL OVERRIDE. ALL CONTROL DEVICES TO BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER. LOCATE AT +48" AFF. TO TOP OF BOX.
- Ⓢ OCCUPANCY SENSOR WITH DIMMER LIGHT CONTROL WITH MANUAL OVERRIDE. ALL CONTROL DEVICES TO BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER. LOCATE AT +48" AFF. TO TOP OF BOX.
- Ⓢ WALL SWITCH +48" AFF TO TOP OF BOX.
- Ⓢ 110V. CEILING MOUNT OUTLETS
- Ⓢ EXHAUST FAN VENT
- Ⓢ CEILING MOUNT SPEAKERS TO BE SUPPLIED AND INSTALLED BY LOW VOLTAGE WIRING CONTRACTOR

Electrical Ceiling Legend

Scale: None

1



T-24 REF.#	FIXTURE SYMBOL	DESCRIPTION	LAMP / WATTS	NOTES
A	[Symbol]	1X4 LED FLAT PANEL, LITHONIA: EPANL LED	37W LED 40K	
B	[Symbol]	1X4 LED FLAT PANEL, LITHONIA: EPANL LED	37W LED 40K	WITH 90 MIN. EMERGENCY PACK
C	[Symbol]	LITHONIA LDN6 6" ROUND ALD1 1000 SWW1 4000K L06 WR TRW LSS_MVOLT UGZ __90CRI	13W LED 4000K	
D	[Symbol]	LITHONIA LDN6 6" ROUND ALD1 1000 SWW1 4000K L06 WR TRW LSS_MVOLT UGZ_EL_90CRI	13W LED 4000K	WITH 90 MIN. EMERGENCY PACK & REMOTE TEST SWITCH
E	[Symbol]	PENDANT LIGHT	18 WATTS 120V CCT:4000K	
F	[Symbol]	LIGHTOLOGY_BRINK SLIM BATHROOM VANITY LIGHT	10.9W LED	
G	[Symbol]	12x12 SURFACE MOUNTED FIXTURE JUNO JSFSQ 12IN 13LM 40K	8W LED	
I	[Symbol]	EMERGENCY LIGHT LITHONIA LTG.-ELM		
	[Symbol]	EXIT LIGHT LITHONIA LTG.-LEPW1G120EL N		

Light Fixture Schedule

Scale: None

5

THIS SHEET IS NOT TO BE USED ALONE UNLESS CONSTRUCTION STATUS IS NOTED IN RELEASE STATUS BOX AND ARCHITECT STAMP AND SIGNATURE APPEAR TO LEFT.
 THESE PLANS AND ANY PRINTS THEREOF, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF SHULTZ, ARCHITECT AND ARE FOR REPRODUCTION AND OR DISTRIBUTION OF THIS PLAN WITHOUT WRITTEN CONSENT OF THE ARCHITECT IS FORBIDDEN.

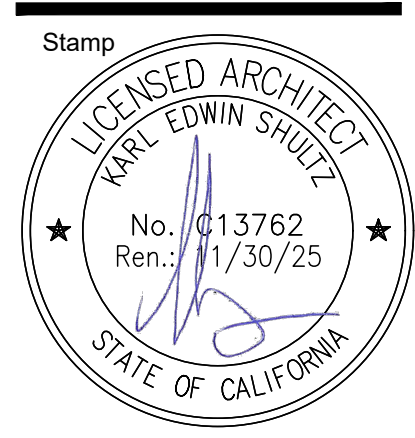
RELEASE STATUS DATE

- CLIENT REVIEW
- PLAN CHECK
- CONSTRUCTION

REVISIONS

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Project:
Esmaili Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128



Sheet Title:

ELECTRICAL CEILING PLAN

Date: 06-03-2024

Project # 2416

Sheet No.:

E2.2

1. THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH THE JOB CONDITIONS BEFORE SUBMITTING THE BID PROPOSAL.
2. MECHANICAL CONTRACTOR SHALL COMPLY WITH THE 2022 EDITION OF CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE, 2022 CALIFORNIA ELECTRIC CODE, AND LOCAL, STATE, FEDERAL SAFETY, OCCUPATIONAL AND HEALTH STANDARDS.
3. ALL LABOR, MATERIALS AND SUPPLIES NECESSARY FOR THE CONSTRUCTION AND COMPLETION OF THE WORK SHOWN ON THE DRAWINGS IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. MECHANICAL HVAC DRAWINGS ARE PREPARED BASED ON AVAILABLE INFORMATION AND SHALL NOT BE SCALED FOR EXACT LOCATIONS. FIELD CONDITIONS AND NON-INTERFERENCE WITH OTHER UTILITIES AND TRADES SHALL DETERMINE EXACT LOCATIONS.
5. ALL HVAC DUCTWORK, EQUIPMENT AND CONTROLS SHALL MEET THE CALIFORNIA ADMINISTRATION CODE TITLE 24 REQUIREMENTS FOR NON-RESIDENTIAL BUILDINGS.
6. ALL HVAC SYSTEMS SHALL BE PROVIDED WITH AN AUTOMATIC SETBACK TEMPERATURE CONTROLLER WHICH IS CAPABLE OF AT LEAST TWO SETBACK SETTINGS IN A 24 HOUR PERIOD. MOUNT THERMOSTAT AT 4'-0" A.F.F.
7. DUCT FABRICATION AND INSTALLATION, INCLUDING SUPPORTS, SHALL CONFORM TO THE 'HVAC DUCT CONSTRUCTION STANDARDS' AS PUBLISHED BY SMACNA 4TH EDITION, AND SHALL COMPLY WITH THE CMC 2022 EDITION.
8. ALL DIFFUSERS AND REGISTERS SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS.
9. ALL DIFFUSERS AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL REFLECTED CEILING PLANS.
10. FIRE AND SMOKE DAMPERS SHALL BE LABELED BY AN APPROVED AGENCY.
11. EQUIPMENT ACCESS SHALL CONFORM TO CMC 2022. CLEARANCES FROM COMBUSTIBLES SHALL BE AS INDICATED IN THE CMC AND CBC 2022 EDITION. WORKING SPACE CLEARANCES SHALL BE AS REQUIRED BY THE CEC 2022 EDITION.
12. PROVIDE A MINIMUM OF TEN (10) FEET BETWEEN OUTSIDE AIR INTAKES AND PLUMBING VENTS OR EXHAUST FAN OUTLETS.
13. PROVIDE A FULL SET OF SHOP DRAWINGS SHOWING ALL INSTALLATION DETAILS, FOR EQUIPMENT SUBMITTED FOR APPROVAL WITH DIFFERENT PHYSICAL SIZE OR ARRANGEMENT FROM THAT SHOWN ON THE DRAWINGS.
14. COORDINATE ALL CUTTING, FRAMING AND PATCHING WITH THE GENERAL CONTRACTOR.
15. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTING AND SPACE AVAILABLE FOR DUCT RUNS, EQUIPMENT LOCATIONS AND PENETRATIONS THROUGH EXISTING STRUCTURES.
16. LOW VOLTAGE WIRING TO THE THERMOSTAT TO BE PROVIDED BY THE HVAC SUBCONTRACTOR. WALL SWITCHES AND LIGHT SWITCHES CONTROLLING THE EXHAUST FANS SHALL BE PROVIDED AND WIRED BY THE ELECTRICAL CONTRACTOR.
17. PROVIDE FAN SUPPORT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
18. AT THE COMPLETION OF THE PROJECT, THE HVAC SYSTEMS SHALL BE PLACED IN OPERATION AND CYCLED THROUGH THE COMPLETE HEATING AND COOLING PROCESSES TO DEMONSTRATE THEIR FUNCTIONAL CAPABILITIES. ALL TESTING, ADJUSTING AND BALANCING SHALL BE IN ACCORDANCE WITH STANDARD PRACTICES.
19. ALL FACTORY MADE AIR DUCT, IF USED, WILL BE CLASS 1 OF 0 LISTED DUCTS.
20. APPROVED LINING MATERIALS, INSTALLED WITHIN DUCTS AND PLENUMS SHALL HAVE A MOLD, HUMIDITY AND EROSION RESISTANT SURFACE THAT MEET THE REQUIREMENTS OF CMC CHAPTER 16, PART II. CMC SECTION 605.0.
21. A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50 FOR MATERIALS EXPOSED WITHIN THE DUCTS OR PLENUMS. CMC SECTION 602.2
22. INSULATION MATERIALS APPLIED TO THE EXTERIOR OF THE DUCTS, LOCATED IN THE BUILDING, ARE TO HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION. CMC SECTION 605.0
23. ALL EQUIPMENT MUST BE LISTED BY AN APPROVED TESTING AGENCY AND INSTALLED IN ACCORDANCE WITH ITS INSTALLATION INSTRUCTIONS AND LISTING. CMC 303.1

1. TEMPORARY VENTILATION: THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. (CGC 5.504.1).
2. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM PER CGC 5.504.3.
3. FILTERS: IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST 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. CBC 5.504.5.3. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING. CBC 5.504.5.3.1
4. OUTSIDE AIR DELIVERY: FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENT 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, PER CBC 5.506.1.
5. CARBON DIOXIDE (CO₂) MONITORING: FOR BUILDINGS 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), PER CGC 5.506.2.
6. TESTING AND ADJUSTING: TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQFT OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO 303.1. PER CGC 5.410.4.
7. TESTING AND ADJUSTMENT REPORT: AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES PER CGC 5.410.4.4.
8. OPERATION AND MAINTENANCE MANUAL: PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS. PER CBC 5.410.4.5.
9. INSPECTIONS AND REPORTS: INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY PER CGC 5.410.4.5.1.

2022 CGC Measures

Scale: None

17

DUCT SYSTEMS HEATING AND COOLING QUICK-SIZING TABLE

TABLE 'A'

AIRFLOW CFM	SUPPLY OR RETURN MAIN DUCT SIZE	
200	8"ø	OR 6"X8"
300	9"ø	OR 8"X8"
400	10"ø	OR 10"X8"
500	11"ø	OR 14"X8"
600	12"ø	OR 16"X8"
700	13"ø	OR 18"X8"
800	14"ø	OR 22"X8"
1000	16"ø	OR 28"X8"
1200	17"ø	OR 32"X8"
1400	18"ø	OR 28"X10"
1600	20"ø	OR 32"X10"
1800	21"ø	OR 30"X12"
2000	22"ø	OR 34"X12"

TABLE 'B'

AIRFLOW CFM	SUPPLY BRANCH DUCT SIZE	
80	5"ø	
120	6"ø	OR 3-1/2"X10"
160	7"ø	

Duct Systems

14

Mechanical Notes

Scale: None

18

GALVANIZED SHEET METAL DUCT THICKNESS TABLE

(FOR LOW PRESSURE DUCTWORK W/ S.P. LESS THAN 2"W.G. LESS THAN 2000 FPM)

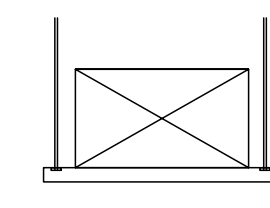
RECTANGULAR DIMENSION:	4"-18"	19"-30"	31"-54"	55"-84"
GAUGE:	26 ga.	24 ga.	22 ga.	20 ga.

ROUND DIMENSION:	3"-14"	15"-23"	24"-37"	27"-50"
GAUGE:	26 ga.	24 ga.	22 ga.	20 ga.

DUCT CONSTRUCTION SHALL COMPLY WITH 2016 CMC TABLES 6-1 & 6-2 AND APPENDIX A, UMC STANDARD 6-2 AND SMACNA CONSTRUCTION STANDARD, WHICHEVER THE MOST STRINGENT SHALL PREVAIL.

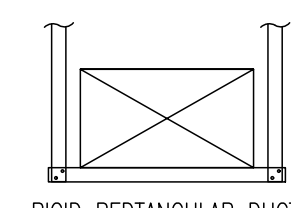
UPPER ATTACHMENT INTO CONCRETE SHALL BE WITH .145" x 1" HILTI X-DNI POWDER ACTUATED PINS. (CC-ES ESR-2269)

ALL-THREAD HANGER ROD WITH ACCESSORIES AS USED FOR LIGHT PIPE HANGER



RIGID ROUND DUCT

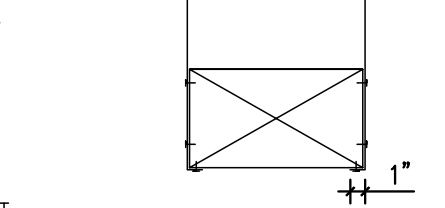
ANGEL-NOT LESS THAN 1"X17/8" (25.4 X 3 MM), SIZED TO MATCH DUCT.



FLEXIBLE ROUND DUCT

UPPER ATTACHMENT INTO WOOD SHALL BE WITH 3/8"X1-1/2" LAG SCREW, INTO BOTTOM CHORD OF ROOF TRUSS

SHEET-METAL STRAP 1" WIDE OF SAME METAL GAUGE AS DUCT.



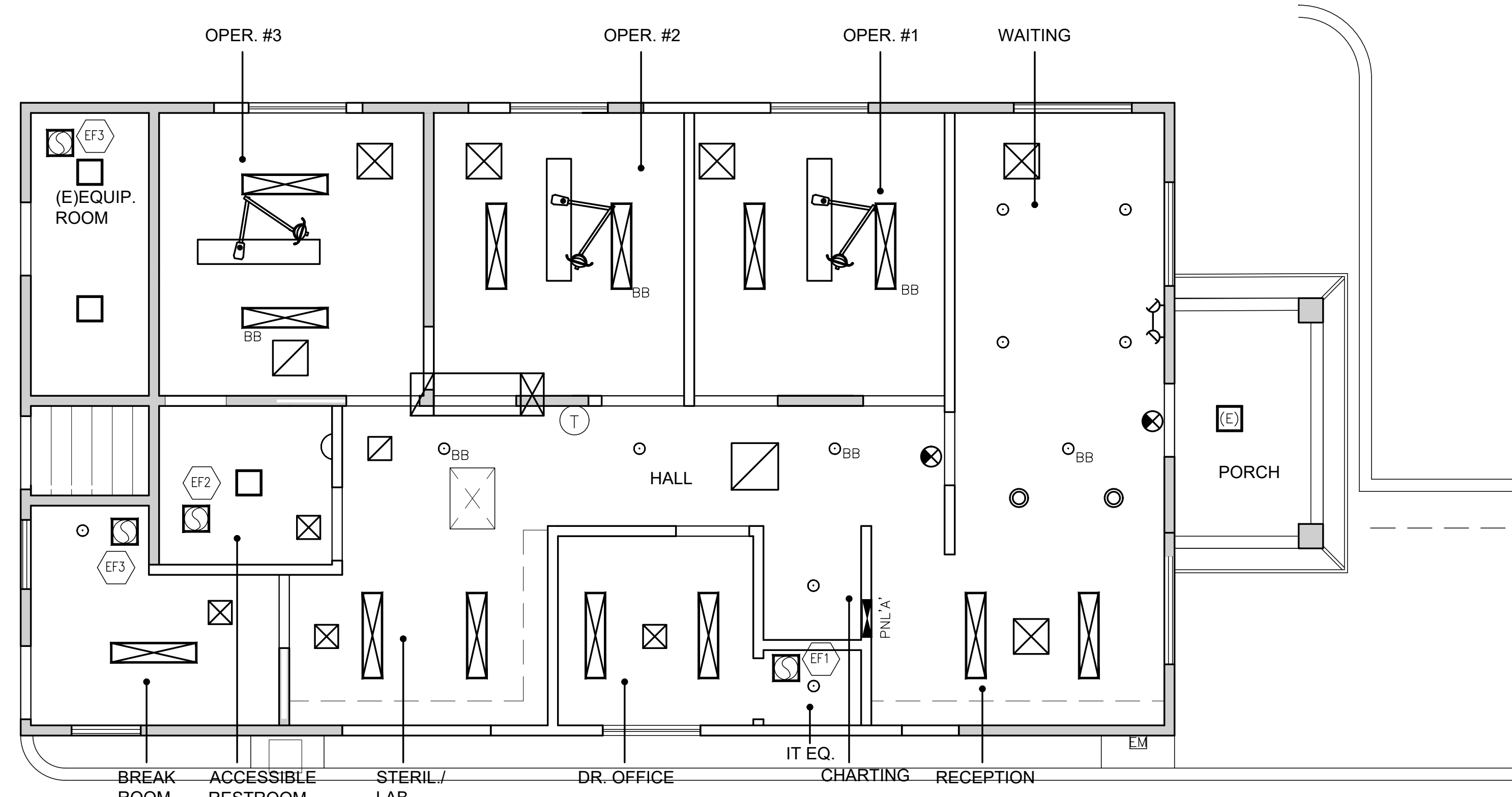
SHEET-METAL STRAP 1-3/8" WIDE OF 22 GAUGE GALVANIZED STEEL. UPPER ATTACHMENT SHALL BE TO LOWER CHORD OF ROOF TRUSS WITH TWO 8d NAILS EACH SIDE @ 4'-0" O.C.

MAXIMUM SAG 3/4" PER FOOT OF SUPPORT SPACING.

Duct Support Detail

Scale: None

9



Mechanical Floor Plan

Scale: 1/4"=1'-0"

2

- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- THERMOSTAT AT +48" A.F.F.
- CEILING MT. EXHAUST FAN: PROVIDE BACK DRAFT DAMPER. EXHAUST THROUGH ROOF.

EXHAUST FAN #	MAKE AND MODEL	CFM	DUCT SIZE	SONES	NOTES
EF1	BROAN XB50	50 CFM	4"ø	0.3	PROVIDE RELIEF VENT AT DOOR. CONNECT TO THERMOSTAT
EF2	BROAN XB80	80 CFM	6"ø	0.3	SEE BELOW FOR FAN MIN. SIZE REQUIREMENT.
EF3	BROAN XB110	110 CFM	6"ø	0.3	

TOILET ROOM MIN. EXHAUST SIZING: 70 SQ.FT.X8"=560 CU.FT. 560 X 4 AIR CHANGES/HR. = 2240 CU.FT. 2240 / 60 MIN. = 37.33 CFM MIN. REQ.

Mechanical Legend

Scale: None

1

1. DUCT WORK TO BE DESIGNED BUILT BASED ON EXISTING SUPPLY AND RETURN FEEDS TO THIS SUITE. APPROXIMATE AIR SUPPLY QUANTITIES ARE SHOWN AS SUGGESTIONS FOR DESIGN CRITERIA.
2. LICENSE MECHANICAL CONTRACTOR TO VERIFY ROOM REQUIREMENTS FOR THE DUCT WORK DESIGN. EXISTING MECHANICAL SYSTEM INFORMATION WAS NOT AVAILABLE FOR THE PREPARATION OF THESE DOCUMENTS.
3. WHEN APPLICABLE, ALL EXPOSED DUCTS SHALL BE FABRICATED FROM SHEET METAL CONCEALED DUCTWORK SHALL BE SHEET METAL OR CLASS I, UL 181 APPROVED, FLEXIBLE, DESIGNED FOR INTERIOR USE. RECTANGULAR DUCTS MAY BE SUBSTITUTED FOR THE ROUND DUCTS INDICATED, PROVIDED THAT THE EQUIVALENT DIAMETER IS EQUAL TO OR GREATER THAN AS SHOWN.
4. ALL TAKEOFFS SHALL BE 45 DEGREE FACTORY FORMED WYES, NESTED ELBOWS OR BOOT WYES.
5. ELBOWS SHALL BE SMOOTH RADIUS TYPE WITH R/W NO LESS THAN 1. IF SPACE DOES NOT ALLOW FULL RADIUS ELBOWS, THEN SPLITTER VANES SHALL BE USED TO ACHIEVE AN EQUAL OR LOWER FITTING LOSS COEFFICIENT.
6. ALL DUCTS SHALL BE SEALED. CONCEALED DUCTS SHALL BE MADE OR COVERED WITH FIBREGLASS INSULATION HAVING AN R-VALUE OF 4.2 OR GREATER (SUPPLY) OR 2.1 OR GREATER (RETURN).
7. SUPPLY DUCT LEAKAGE SHALL NOT EXCEED 5% OF DESIGN AIRFLOW.

Sheet Notes

Scale: None

5

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RELEASE STATUS DATE

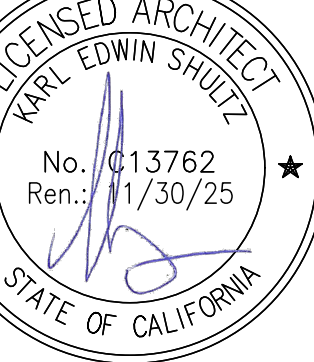
- CLIENT REVIEW
- PLAN CHECK
- CONSTRUCTION

REVISIONS

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- _____
- _____
- _____

Project: Esmaili Dental Corp.
New Dental Office
168 N. Bascom Ave.
San Jose, CA-95128

Stamp



Sheet Title:

MECHANICAL PLAN

Date: 06-03-2024

Project # 2416

Sheet No.:

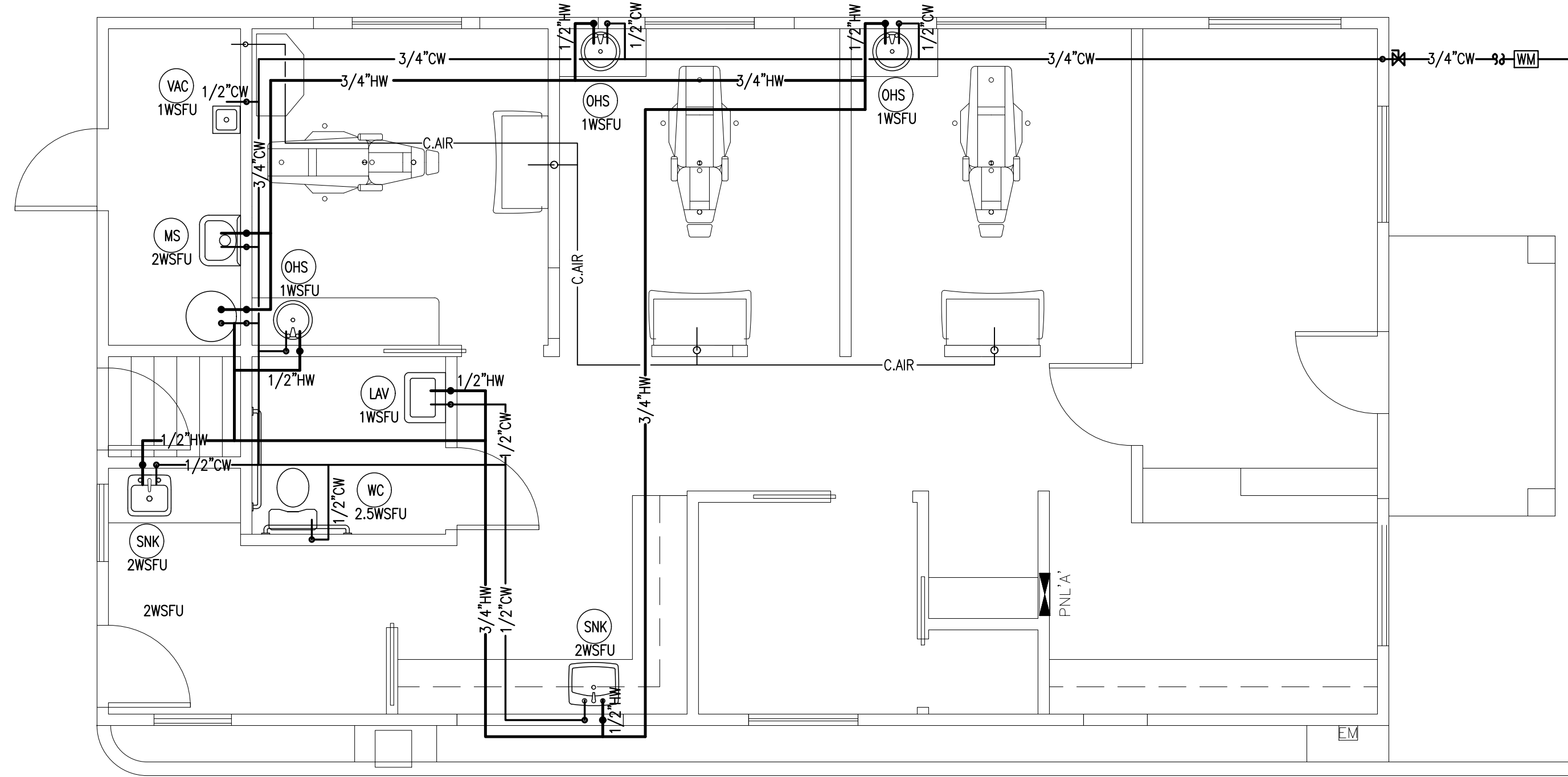
M2.1

PLUMBING GENERAL NOTES

- ALL PLUMBING WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL APPROVALS REQUIRED FROM REGULATING AGENCIES BEFORE STARTING WORK.
- ALL PLUMBING WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITIONS OF THE LOCAL PLUMBING CODE AND 2022 C.P.C. UNLESS OTHERWISE REQUIRED BY BUILDING DEPARTMENT.
- INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NON-RESIDENTIAL BUILDINGS INCLUDING FAUCET FLOW REGULATORS.
- OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION AND ADEQUACY OF ALL EXISTING PLUMBING LINES AND SERVICES SHOWN PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES.
- COORDINATE ALL TRENCHING AND CONCRETE SAW CUTTING REQUIRED WITH GENERAL CONTRACTOR.
- DOMESTIC WATER PIPING: ABOVE GROUND SHALL BE COPPER TYPE "L" BELOW GROUND OUTSIDE OF BUILDING SHALL BE TYPE "K".
- INSULATE DOMESTIC HOT WATER PIPING WITH ARMAFLEX CLOSED CELL FOAM PIPE INSULATION. MIN. WALL THICKNESS NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2" DIA. INSULATION THICKNESS SHALL NOT BE LESS THAN 2" FOR PIPE MORE THAN 2" DIA. 2022 CPC 609.12.2
- INSTALL SHUT-OFF VALVES ON ALL HOT AND COLD WATER LINES. ALL EXPOSED LINES TO BE CHROME PLATED.
- SOIL PIPING SHALL BE SERVICE WEIGHT COATED CAST IRON HUBLESS PIPE AND FITTINGS.
- SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM UNLESS OTHERWISE NOTED.
- ALL NEW PENETRATIONS THROUGH EXISTING ROOF SHALL BE FLASHED AND COUNTER FLASHED WATER TIGHT.
- CONNECT VENT RISERS ABOVE CEILING WHERE POSSIBLE TO MINIMIZE THE NUMBER OF VENTS THROUGH ROOF. ALL VENTS THROUGH ROOF SHALL TERMINATE A MINIMUM OF 10 FEET FROM ANY OUTDOOR AIR INTAKES AND BE OFFSET 5 FEET FROM PARAPET WALL.
- OFFSET VENTS AS REQUIRED TO AVOID CONFLICTS WITH STRUCTURES OR DUCTWORK. IF OFFSETS REQUIRE THAT HORIZONTAL SECTIONS OF THE VENT EXTEND ONE THIRD OF THEIR TOTAL LENGTH, INCREASE THE VENT PIPE ONE SIZE.
- ANY CONFLICTS, OMISSIONS, ETC. SHALL BE REPORTED TO THE ARCHITECTS/OWNERS REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK.
- CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS/DIMENSIONS PRIOR TO INSTALLING ANY WORK.
- AUTOMATIC TRAP PRIMERS SHALL BE INSTALLED FOR PROTECTION OF TRAP SEAL.
- PROVIDE WALL CLEANOUTS AT ALL SINKS AND WHERE WASTE LINE CHANGES SIZE.
- PROVIDE INSULATION AT WATER AND DRAIN LINES BELOW SINK IN RESTROOM PER 14/P2.1

SYMBOL	DESCRIPTION	MAKE & MODEL	CW	HW	W	V
WC	ACCESSIBLE WATER CLOSET	KOHLER MODEL K-31621-0 CIMARRON COMFORT HEIGHT 1.28 GPF. ELONGATED TOILET WITH CLASS FIVE TECHNOLOGY ELONGATED TOILET COMBINATION, POLISHED CHROME TRIP LEVER (LEFT HAND OR RIGHT HAND ON OPEN SIDE AWAY FROM WALL PER PLANS), 1.28 G.P.F., 16-3/8" HIGH BOWL USE WITH K-4650 LUSTRA OPEN FRONT SEAT.	1/2"	-	4"	2"
LAV	ACCESSIBLE WALL HUNG LAVATORY	KOHLER MODEL K-2005-0 KINGSTON WALL-MOUNT LAVATORY, 21"X18" VITREOUS CHINA LAVATORY WITH BACK WALL HANGER DRILLED 4" O.C. AND DRILLED FOR CONCEALED ARM CARRIER. INSTALL WITH K-15182-P-CP CORLAIS SINGLE CONTROL CENTERSET LAVATORY FAUCET WITH HIGH-TEMPERATURE LIMIT STOP, LOW FLOW AERATOR AT 0.4 GPM FLOW LIMIT.	1/2"	1/2"	2"	1-1/2"
OHS	OPERATORY HAND SINK	ELKAY SINK 15" DIA. FAUCET: SINGLE LEVER HANDLE TYPE 1.8 GPM FLOW LIMIT	1/2"	1/2"	2"	1-1/2"
SNK	STERIL. LAB & BREAK ROOM SINK	ELKAY STAINLESS STEEL SINK WITH STRAINER AND DROP-IN BASKET. FITTING: CHICAGO FAUCET, PULL-OUT SPRAYER, EYE WASH AND SOAP DISPENSER. 1.8 GPM FLOW RATE LIMIT. (TO BE SELECTED BY OWNER)	1/2"	1/2"	2"	1-1/2"
HWH	WATER HEATER	ELECTRIC TANK WATER HEATER. A.O.SMITH DEL. 20 3000 W. 208V SEE DETAIL 9/P2.1	3/4"	3/4"		
FS	12"X12" FLOOR SINK	ZURN OR EQ.			2"	1-1/2"
FCD	FLOOR CLEANOUT	JONESPEC SERIES 63250			2"-4"	
WCO	WALL CLEANOUT	JONESPEC SERIES 63150			2"-4"	

NOTE:
CONTRACTOR MAY SUBSTITUTE APPROVED EQUIVALENTS FOR SPECIFIED FIXTURES WITH OWNERS AND ENGINEER'S APPROVAL. PROVIDED ALL THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE ARE MET. CONTRACTOR TO SUBMIT CUT-SHEETS OF ALL FIXTURES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO INSTALLATION. COLOR SHALL BE VERIFIED BY OWNER.



Water Piping Plan

Scale: None

2

Plumbing Fixture Schedule

Scale: None

15

Plumbing Notes

Scale: None

19

PLUMBING MATERIAL SCHEDULE

SERVICE	LOCATION	PIPE MATERIAL	SLOPE
WATER	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS	1/32" PER 1'
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER FACTORY INSULATED WITH WROUGHT COPPER BRAZED JOINT FITTINGS	1/32" PER 1'
SEWER AND VENT	ABOVE GRADE	ASTM A888 SERVICE WEIGHT HUBLESS CAST IRON. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'
	BELOW GRADE	ASTM A888 SERVICE WEIGHT HUBLESS CAST IRON. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'
DENTAL AIR	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS	1/32" PER 1'
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER FACTORY INSULATED WITH WROUGHT COPPER BRAZED JOINT FITTINGS	1/32" PER 1'
DENTAL VACUUM	ABOVE GRADE	PVC SCHEDULE 40 NO HUB PIPE AND FITTINGS	1/4" PER 1'
	BELOW GRADE	PVC SCHEDULE 40 NO HUB PIPE AND FITTINGS	1/4" PER 1'
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS	1/8" PER 1'
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS	1/8" PER 1'

Plumbing Pipe Material Schedule

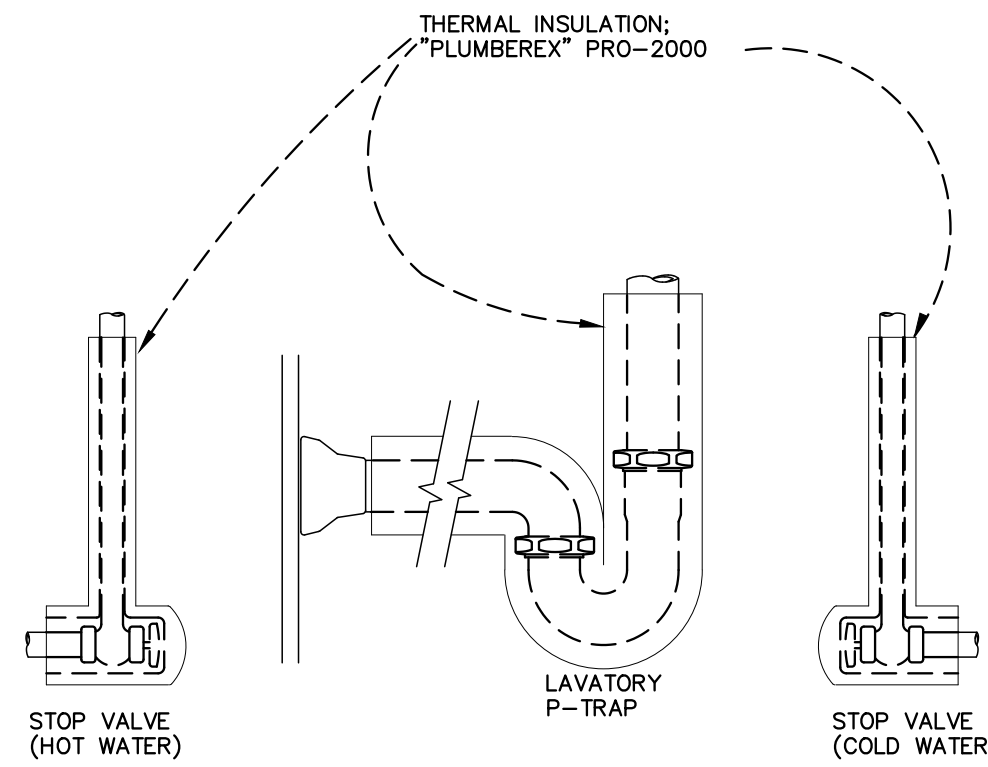
Scale: None

18

Pipe Insulation

Scale: None

14



SIZE	FIXTURE UNITS
1/2"	7
3/4"	20
1"	39
1 1/4"	78
1 1/2"	151
2"	370

ITEM	QUAN.	UNITS EA.	TOTAL UNITS
LAV. SINKS	1	1	1
TOILET	1	2.5	2.5
SINKS	2	2	4
MOP SINK	1	2	2
OPR. SINKS	3	1	3
VACUUM	1	1	1
TOTAL:			13.5 WSFU

EXISTING 3/4" METER
EXISTING 3/4" BUILDING SUPPLY
MAX. DISTANCE TO METER: 60'
MAX. ALLOWABLE UNITS @ 60 PSI: 20

Fixture Unit Loading

Scale: None

1

Shultz & Associates
39111 Paseo Padre Pkwy.
Suite 309
Fremont, CA 94538
www.shultzandassociates.com
PHONE: 510-796-7801

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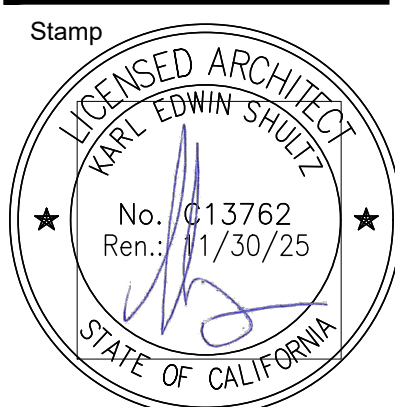
RELEASE STATUS DATE

- CLIENT REVIEW
- PLAN CHECK
- CONSTRUCTION

REVISIONS

NO.	DESCRIPTION
1	
2	
3	
4	
5	
6	

Project:
Esmaili Dental Corp.
New Dental Office
168 N. Bascom Ave.
San Jose, CA-95128



Sheet Title:

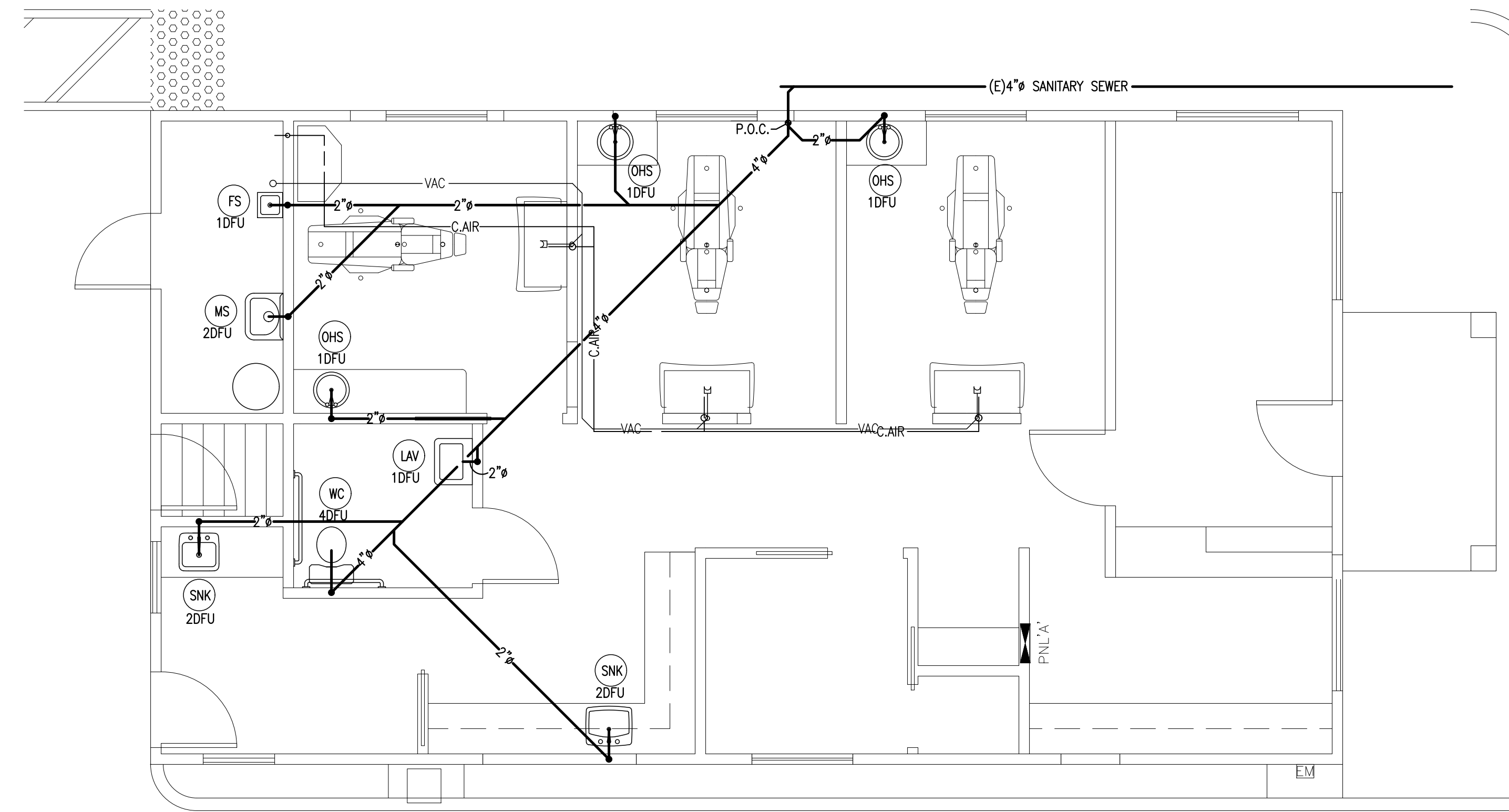
DOMESTIC WATER PIPING PLAN

Date: 06-03-2024

Project # 2416

Sheet No.:

P2.1



Sanitary & Vent Piping Plan

Scale: None

2

WASTE & VENT SIZING CHART		
SIZE	WASTE (1/4" PER FT) FIXTURE UNITS	VENT (1/4" PER FT) FIXTURE UNITS
1-1/2"	1	8
2"	8	24
3"	35	84
4"	216	256
5"	428	600
6"	720	1380

DRAINAGE FIXTURE UNITS (DFU)			
ITEM	QUAN.	UNITS EA.	TOTAL UNITS
LAV. SINK	1	1	1
TOILET	1	4	4
SINKS	2	2	4
MOP SINK	1	3	3
OPR. SINKS	3	1	3
FLOOR SINK	1	2	2
TOTAL:			17 D.F.U.

EXISTING 4" DIA. SANITARY SEWER.

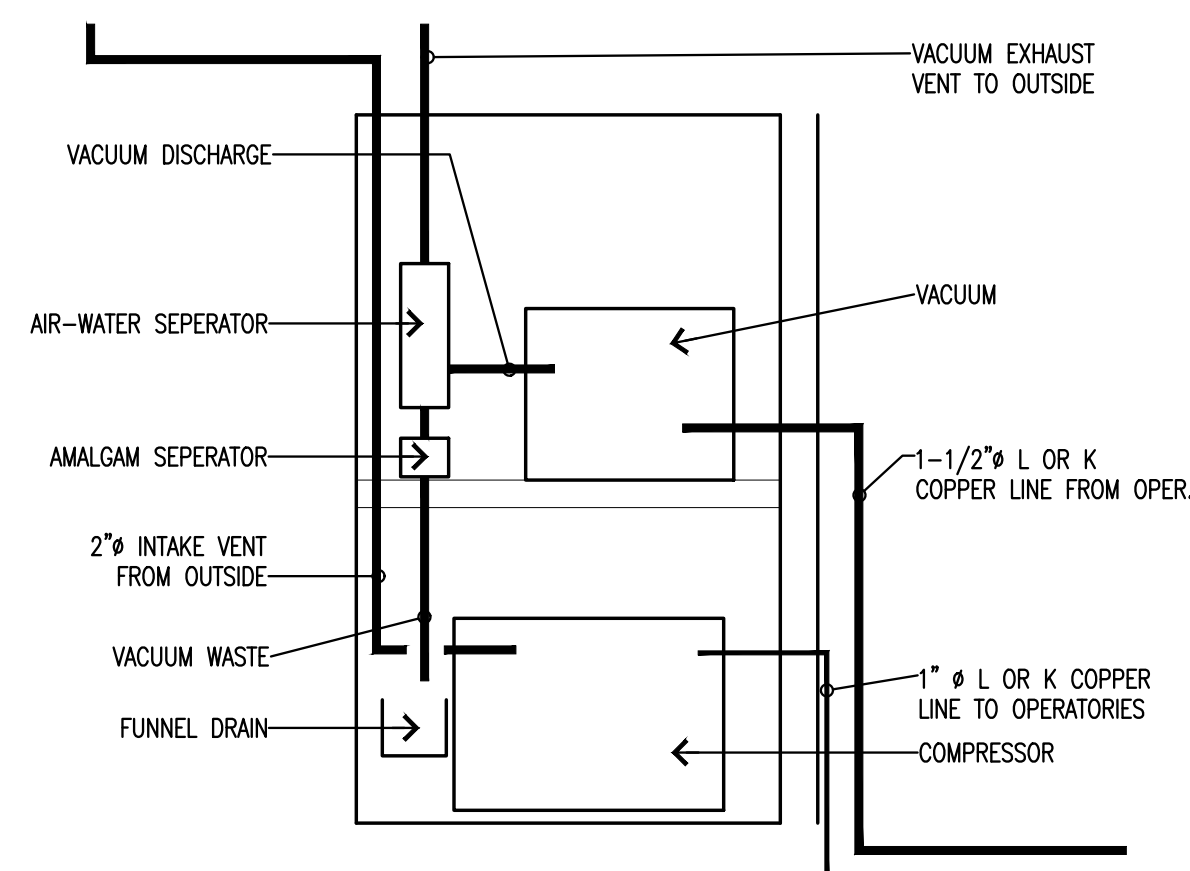
Fixture Unit Loading

Scale: None

1

- IT IS IMPORTANT TO MINIMIZE 90° ELBOWS IN THE SYSTEM. THESE WILL NOT ONLY CAUSE VACUUM LOSSES, BUT WILL ALSO PROVIDE A PLACE FOR SEDIMENT TO ACCUMULATE. A COMBINATION OF TWO 45° ELBOWS IS PREFERABLE TO A 90° ELBOW. A "Y" TEE FITTING SHOULD BE USED WHEN AVAILABLE TO BRANCH TWO LINES TOGETHER.
- OVERHEAD SYSTEMS REQUIRE THE NEXT LARGER VACUUM PUMP. THEY ALSO REQUIRE 1/2" BRANCH LINE, INSTEAD OF A 3/4" LINE FOR SUB-FLOOR SYSTEMS FROM THE OPERATORY. SEE E ABOVE FOR ADDITIONAL PROVISIONS OF BRANCH LINE PLUMBING.
- USE ONLY 3/4" PIPE WHEN ATTACHING NITROUS SCAVENGER LINES TO THE MAIN OR BRANCH LINE.
- IF THE OPERATORY BRANCH LINE RUNS MORE THAN 40 FEET AWAY FROM THE MAIN LINE OR THE MAIN LINE RUNS MORE THAN 50 FEET FROM THE VACUUM LOCATION, USE THE NEXT LARGER PIPE AS SHOWN IN THE FOLLOWING VACUUM LINE SIZING CHART.
- VACUUM LINES SHOULD BE SUPPORTED EVERY 6 FEET TO PREVENT SAG AND SHOULD BE SLOPED 1/4" FOR EVERY 10 FEET TOWARD THE VACUUM PUMP.
- WHEN DETERMINING VACUUM LINE SIZES WITHIN THE SYSTEM, USE THE NUMBER OF OPERATORIES BEING SUPPLIED BY BRANCH LINES, NOT THE NUMBER OF OUTLETS WITHIN THE OPERATORIES.

VACUUM LINE SIZING CHART	
NUMBER OF OPERATORIES SUPPLIED THROUGH LINE	MAIN LINE (PVC Sch40) PIPE DIAMETER IN. INCHES
1	3/4
2	1
3	1
4	1-1/4
5	1-1/4
6	1-1/2
7	1-1/2
8	1-1/2



Equip. Closet Diagram

Scale: None

9

Vacuum Piping Guidelines

Scale: None

5

THIS SHEET IS NOT TO BE USED ALONE. UNLESS CONSTRUCTION STATUS IS NOTED IN RELEASE STATUS BOX AND ARCHITECT STAMP AND SIGNATURE APPEAR TO LEFT.
 THESE PLANS AND PRINTS HEREBY, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF SHULTZ, ARCHITECT AND ARE FOR REPRODUCTION AND OR DISTRIBUTION OF THIS PLAN WITHOUT WRITTEN CONSENT OF THE ARCHITECT IS FORBIDDEN.

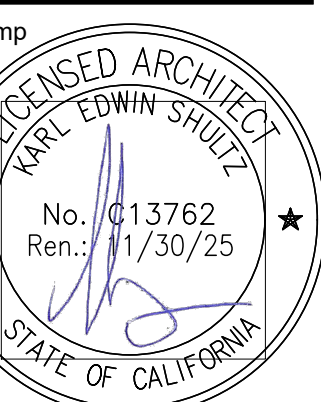
RELEASE STATUS DATE

- CLIENT REVIEW
- PLAN CHECK
- CONSTRUCTION

REVISIONS

- ▲
- ▲
- ▲
- ▲
- ▲
- ▲

Project:
Esmaili Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128



Sheet Title:

SANITARY WASTE & VENT PIPING PLAN

Date: 06-03-2024

Project #: 2416

Sheet No.:

P2.2

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

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.
Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

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 Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sanat Roy
Signature Date: 2024-06-20
Company: Roy Associates
Address: 39510 Paseo Padre Parkway, #250
City/State/Cip: Fremont CA 94538

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. 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: Sanat Roy
Signature Date: 2024-06-20
Company: Shultz & Associates
Address: 39111 Paseo Padre Parkway Suite #309
City/State/Cip: Fremont CA 94538

F. INDOOR LIGHTING FIXTURE SCHEDULE
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.

Table with 10 columns: 01 Name or Item Tag, 02 Complete Luminaire Description, 03 Modular (Track) Fixture, 04 Small Aperture & Color Change, 05 Watts per luminaire², 06 How is Wattage determined, 07 Total Number of Luminaires, 08 Excluded per 140.6(a)3 / 170.2(e)2C, 09 Design Watts, 10 Field Inspector Pass/Fail.

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 automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority 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 luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.

Table with 12 columns: 01 Building Level Controls, 02 Mandatory Demand Response 110.12(c), 03 Field Inspector Pass/Fail, 04 Area Level Controls, 05 Complete Building or Area Category Primary Function Area, 06 Manual Area Controls, 07 Multi-Level Controls, 08 Shut-Off Controls, 09 Primary/Sky lit Daylighting, 10 Secondary Daylighting, 11 Interlocked Systems, 12 Field Inspector Pass/Fail.

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
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.

Table with 6 columns: 01 Area Description, 02 Complete Building or Area Category Primary Function Area, 03 Allowed Density (W/ft²), 04 Area (ft²), 05 Allowed Wattage (Watts), 06 Additional Allowance / Adjustment Area Category/PAF.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

A. GENERAL INFORMATION
Table with 4 columns: 01 Project Location (city), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area (ft²), 05 Total Unconditioned Floor Area (ft²), 06 # of Stories (Habitable Above Grade).

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 141.0(b)2 / 180.2(b)4 for alterations.

Table with 5 columns: 01 Scope of Work, 02 Conditioned Spaces, 03 Unconditioned Spaces, 04 Calculation Method, 05 Area (ft²), 06 Calculation Method, 07 Area (ft²).

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Table with 9 columns: 01 Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts), 02 Complete Building, 03 Area Category, 04 Additional, 05 Tailored, 06 Total Allowed (Watts), 07 Adjustments, 08 PAF Lighting Control Credits, 09 Total Adjusted (Watts), 10 Compliance Results.

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

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

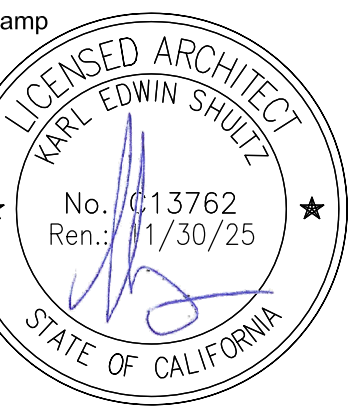


THIS SHEET IS NOT TO BE USED ALONE... SHULTZ & ASSOCIATES 2025... 39111 Paseo Padre Pkwy. Suite 309 Fremont, CA 94538

RELEASE STATUS DATE
CLIENT REVIEW
PLAN CHECK
CONSTRUCTION

REVISIONS
1
2
3
4

Esmaili Dental Corp.
New Dental Office
168 N. Bascom Ave.
San Jose, CA-95128



Sheet Title:
TITLE 24
ENERGY
ANALYSIS
(LIGHTING)

Date: 06-03-2024
Project # 2416
Sheet No.:

T24-L1

I. VENTILATION AND INDOOR AIR QUALITY

See Standards Tables 120.1-A and 120.1-B.
For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
120.2(e) requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.
These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCI forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table with 2 columns: O1, O2. Row 1: Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block. Yes. Plan sheet or construction document location M-Sheets.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Sanat Roy
Signature: Sanat Roy
Company: Roy Associates
Address: 39510 Paseo Padre Parkway, #250
City/State/Zip: Fremont CA 94538

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable 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.

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)(4) 170.2(c)(4)L or requirements in 141.0(b)(2) 180.2(b)(2) for altered space conditioning systems.

Table with 9 columns: O1 to O9. Rows for System Name, System Zoning, Conditioned Floor Area, Thermostats, Shut-Off Controls, Isolation Zone, Demand Response, Supply Air Temp. Reset, Window Interlocks per.

FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)(3) 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and 120.2(e)(3)(i) 160.2 160.3(a)(3)(i) 170.2(g)(4)(i) 170.2(g)(4)(ii) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table.

Table with 16 columns: O1 to O16. Rows for System Name, System Design OA CFM, System Design Transfer Air CFM, Air Filtration per 120.1(c) 141.0(b)(2) and 160.2(c)(2)1.

J. VENTILATION AND INDOOR AIR QUALITY

Table with 10 columns: Space Name or Item Tag, Occupancy Type, Conditioned Floor Area, # of Shower heads/ toilets, # of people, Required Min OA CFM, Required Min CFM, Provided per Design CFM, DCV or Sensor Controls per 120.1(d)(3), 120.1(d)(5), and 120.1(e)(3) 160.2(c)(5D) 160.2(c)(5E) 160.2(c)(5D).

FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
Air filtration requirements apply to the following three system types per 120.1(c)(11): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

A. GENERAL INFORMATION

Table with 4 columns: O1 to O4. Rows for Project Location (city), Climate Zone, Occupancy Types Within Project, Total Conditioned Floor Area, Total Unconditioned Floor Area, # of Stories (Habitable Above Grade).

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) and 180.2(b)(2) for alterations.

Table with 3 columns: O1, O2, O3. Rows for Air System(s), Heating Air System, Cooling Air System, Mechanical Controls, Mechanical Controls (existing to remain, altered or new), Chillers, Boilers, Wet System Components, Water Economizer, Pumps, System Piping, Cooling Towers, Ductwork (existing to remain, altered or new), Ventilation, Zonal Systems/Terminal Boxes.

ALERT! Healthcare facilities must be ventilated in accordance with Chapter 4 of the CMC as amended by OSHPD and do not need to show compliance with Title 24, Part 6 ventilation requirements in Table J.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

Table with 9 columns: O1 to O9. Rows for System Summary, Pumps, Fans/Economizers, System Controls, Ventilation, Terminal Box Controls, Distribution, Cooling Towers, Compliance Results.

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This section does not apply to this project.

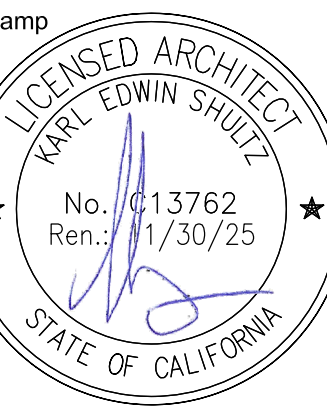
G. PUMPS

This section does not apply to this project.

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RELEASE STATUS DATE
CLIENT REVIEW
PLAN CHECK
CONSTRUCTION
REVISIONS

Esmaili Dental Corp.
New Dental Office
168 N. Bascom Ave.
San Jose, CA-95128



Sheet Title:
TITLE 24
ENERGY ANALYSIS (MECHANICAL)
Date: 06-03-2024
Project #: 2416
Sheet No.:

STATE OF CALIFORNIA
Domestic Water Heating System
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
 Project Name: Esmaili Dental Corp. Report Page: (Page 5 of 6)
 Date Prepared: 6/20/2024

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.
 Additional Remarks: These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3899-0624-0401
 Schema Version: rev 20220101 Report Generated: 2024-06-20 11:30:55

STATE OF CALIFORNIA
Domestic Water Heating System
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
 Project Name: Esmaili Dental Corp. Report Page: (Page 6 of 6)
 Project Address: 168 N. Bascom Avenue Date Prepared: 6/20/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sanat Roy
 Signature Date: 2024-06-20
 CEV/HERS Certification/Identification (if applicable):

Company: Roy Associates
 Address: 39510 Paseo Padre Parkway, #250
 City/State/Zip: Fremont CA 94538
 Phone: 510-794-8091

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available to the enforcement agency for all applicable 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: Shultz & Associates
 Date Signed: 2024-06-20
 Address: 39111 Paseo Padre Parkway Suite #309
 City/State/Zip: Fremont CA 94538
 Phone: (510) 796-7801

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STATE OF CALIFORNIA
Domestic Water Heating System
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-E
 Project Name: Esmaili Dental Corp. Report Page: (Page 3 of 6)
 Date Prepared: 6/20/2024

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM
 This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

Item	Requirement	Compliance
13	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members. • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.	<input type="checkbox"/>
14	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated	<input checked="" type="checkbox"/>
15	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.	<input type="checkbox"/>

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
105-140	0.22 - 0.28	100	Minimum Insulation Required			
			1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

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 Project Name: Esmaili Dental Corp. Report Page: (Page 4 of 6)
 Date Prepared: 6/20/2024

H. DOMESTIC HOT WATER CONTROLS
 This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

Item	Yes	No	Not Applicable	Requirement
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Systems with capacity > 167,000 BTU/h equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per 110.3(c)2 unless systems serve healthcare facility.
04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(e) or 180.1(b)3 for additions.
05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Combustion air positive shut-off shall be provided per 160.4(3) on all newly installed commercial boilers as follows: • Boilers with input capacity ≥ 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Boiler combustion air fans with motor ≥ 10 hp shall meet one of the following: • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to ≤ 30% of the total design wattage at 50% of the design air volume.
08	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Newly installed boilers with an input capacity [d gte] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations ≤ 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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CERTIFICATE OF COMPLIANCE NRCC-PLB-E
 Project Name: Esmaili Dental Corp. Report Page: (Page 1 of 6)
 Project Address: 168 N. Bascom Avenue Date Prepared: 6/20/2024

A. GENERAL INFORMATION

01	Project Location (city)	San Jose	02	Climate Zone	4
03	Occupancy Types Within Project (select all that apply): • Healthcare Facility • Office • Support Areas • All Other Occupancies				

B. PROJECT SCOPE
 This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply): <input checked="" type="checkbox"/> New system (DHW system being installed for the first time) <input type="checkbox"/> System Alteration (equipment, distribution or controls)		
System Type ^{1,2}		System Components
<input checked="" type="checkbox"/> Individual System (serving nonresidential spaces)		<input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls

¹ FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS
 Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

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

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 Project Name: Esmaili Dental Corp. Report Page: (Page 2 of 6)
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E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT
 This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04		05	06					
System Name	Exception to 140.5(c)/170.2(d)3		Gas Service Water Heating System ≥ 1MMBtu/h ¹	Capacity-weighted Average Efficiency %					
AO SMITH DEL-20			<input type="checkbox"/>						
07	08	09	10	11	12	13			
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
AO SMITH DEL-20	Consumer Rated Electric Storage	20	0	FHR ≥ 75	0.97	0.93	UEF		

¹ FOOTNOTE: In systems ≥ 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

Item	Yes	No	Not Applicable	Requirement
18	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External ≥ R-16 OR External ≥ R-3.5. Label required per 110.3(c)3
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating ≥ 6.8 KBTU/h or 2 kW has been specified per 110.3(c)6
21	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

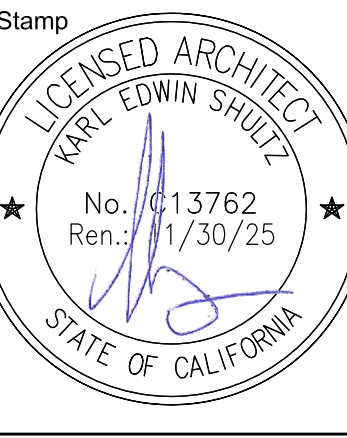
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RELEASE STATUS DATE
 CLIENT REVIEW
 PLAN CHECK
 CONSTRUCTION

REVISIONS
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Project:
 Esmaili Dental Corp.
 New Dental Office
 168 N. Bascom Ave.
 San Jose, CA-95128



Sheet Title: TITLE 24 ENERGY ANALYSIS (WATER HEATER)
 Date: 06-03-2024
 Project #: 2416
 Sheet No.: