

<div><div><div>element</div><div>lone</div><div>architecture</div></div><div><div>23990 clawiter road</div><div>hayward, california 94545</div><div>tel. 650.420.1075</div></div></div>				<div><div>NEW STORAGE FACILITY</div><div>23187 CONNECTICUT STREET,</div><div>HAYWARD CA</div></div> <div><div>OWNER:</div><div>ALAMEDA COUNTY</div><div>MOSQUITO ABATEMENT CENTER</div><div>23187 CONNECTICUT STREET</div><div>HAYWARD, CA</div></div> <div><div><div>PREPARED BY</div><div>ARCHITECT</div><div>CARLOS CASTILLO</div><div>No. C34699</div><div>Exp. 11-30-2023</div><div>STATE OF CALIFORNIA</div></div></div>			
<div>All drawings and written material appearing herein constitute the original and unpublished work of element one architects and the same may not be duplicated, used, or disclosed without the written consent of element one</div>							
GENERAL NOTES		OUTLINE SPECS		ARCHITECT OF RECORD		PROJECT DATA	
<div><div><div><div>1.</div><div>CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. ANY DISCREPANCIES IDENTIFIED ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.</div><div>IF DURING CONSTRUCTION OF THE WORK, ANY DISCREPANCIES, ERRORS, OR CONFLICTS ON THE DRAWINGS OR SPECIFICATIONS ARE DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY FOR INSTRUCTIONS FOR RESOLUTION OF THE PROBLEM.</div><div>CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY UNFORESEEN CONDITIONS NOT SHOWN ON DRAWINGS INCLUDING: BUILDING STRUCTURAL ELEMENTS, SUPPORTS, SHEAR WALLS, AND OTHER ESSENTIAL BUILDING SYSTEM COMPONENTS.</div></div><div><div><div>2.</div><div>CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY AT ALL TIMES AND SHALL PROVIDE FOR SAFE PASSAGE AROUND ALL WORK AREAS.</div></div><div><div><div>3.</div><div>ADJACENT PREMISES WILL BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL SCHEDULE ALL NOISY OPERATIONS WITH OWNER AND TENANTS. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ABATE, DUST, ETC.</div></div><div><div><div>4.</div><div>CONTRACTOR SHALL REPAIR ALL EXISTING FACILITIES AND CONDITIONS DAMAGED AS A RESULT OF THEIR WORK.</div></div><div><div><div>5.</div><div>CONTRACTOR SHALL REMOVE ALL RUBISH FROM SITE. ITEMS NOTED TO BE SALVAGED SHALL BE DELIVERED TO LOCATION DESIGNATED BY OWNER. PROVIDE DAILY CLEAN-UP OF CONSTRUCTION AREA.</div></div><div><div><div>6.</div><div>CONTRACTOR SHALL PROVIDE ALL DEMOLITION, SAUCUITTING, EXCAVATING, SHORING, ETC. AS REQUIRED TO PROVIDE NEW WORK AS SHOWN.</div></div><div><div><div>7.</div><div>ALL WORK SHALL CONFORM TO APPLICABLE STATE, LOCAL, REGIONAL, AND FEDERAL CODES, LAWS, AND ORDINANCES, INCLUDING:<div><div>2022 CALIFORNIA BUILDING CODE (CBC)</div><div>2022 CALIFORNIA MECHANICAL CODE (CMC)</div><div>2022 CALIFORNIA PLUMBING CODE (CPC)</div><div>2022 CALIFORNIA ELECTRICAL CODE (CEC)</div><div>2022 CALIFORNIA FIRE CODE (CFC)</div><div>2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN)</div><div>2022 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS</div><div>2022 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 - NATIONAL FIRE ALARM CODE</div><div>2022 ADA</div><div>OSHA</div></div></div></div><div><div><div>8.</div><div>ALL MATERIALS SHALL BE INSTALLED PER THEIR MANUFACTURER'S RECOMMENDATIONS.</div></div><div><div><div>9.</div><div>DETAILS NOT SHOWN ON DRAWINGS SHALL BE CONSTRUCTED TO MATCH SIMILAR CONDITIONS THAT ARE SHOWN, SPECIFIED, OR EXISTING.</div></div><div><div><div>10.</div><div>DIMENSIONS ARE GIVEN TO FACE OF STUD, OR FACE OF FINISH, OR CENTERLINE OF INDIVIDUAL ELEMENTS AS SHOWN UNLESS NOTED OTHERWISE.</div></div><div><div><div>11.</div><div>INSTALL SOLID BLOCKING BEHIND ALL WALL MOUNTED EQUIPMENT, FIXTURES, HARDWARE, ACCESSORIES, TYP, INCLUDING BUT NOT LIMITED TO LAVATORIES, GRAB BARS, TOILET PARTITIONS, SHELVEING.</div></div><div><div><div>12.</div><div>CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UTILITIES WITH UTILITY COMPANIES.</div></div><div><div><div>13.</div><div>HOURS OF CONSTRUCTION SHALL BE VERIFIED WITH CITY BUILDING & POLICE DEPARTMENTS.</div></div><div><div><div>14.</div><div>DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE NOT SHOWN OR DIMENSIONAL DISCREPANCIES ARE IDENTIFIED ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING.</div></div><div><div><div>15.</div><div>PROVIDE TYPE AND QUANTITY OF FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT HAVING JURISDICTION.</div></div><div><div><div>16.</div><div>CONTRACTOR SHALL PROVIDE ALL TEMPORARY FENCING AND CONTROLS REQUIRED TO CONDUCT SAFE PASSAGE OF PEDESTRIANS, AUTOMOBILES AND DELIVERY VEHICLES ON OR AROUND CONSTRUCTION AREAS.</div></div><div><div><div>17.</div><div>CONTRACTOR SHALL TAKE MEASURES NECESSARY TO ABATE DUST AND NOISE AS A RESULT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL KEEP ADJACENT PROPERTY, PUBLIC AND PRIVATE STREETS CLEAN. SEE CONDITION OF APPROVAL 11/COA2</div></div><div><div><div>18.</div><div>CONTRACTOR SHALL TAKE MEASURES NECESSARY TO CONTROL PESTS AND VERMIN. ANY EVIDENCE OF TERMITES INFESTATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.</div></div><div><div><div>19.</div><div>NOT USED</div></div><div><div><div>20.</div><div>NOT USED</div></div><div><div><div>21.</div><div>NOT USED</div></div><div><div><div>22.</div><div>NOT USED</div></div><div><div><div>23.</div><div>CONTRACTOR SHALL PROVIDE ALL CODE REQUIRED ACCESS PANELS, ACCESS DOORS, OPENINGS NEEDED TO SERVICE AND REPAIR EQUIPMENT AND APPLIANCES, INCLUDING: CLEANING OF HEATING SURFACES, REPLACE FILTERS, BLOWERS, MOTORS, BURNERS, CONTROLS, AND VENT CONNECTIONS; LUBRICATION OF MOVING PARTS; ADJUSTMENT AND CLEANING OF BURNERS, PILOTS, AND THE PROPERT FUNCTIONING OF EXPLOSION VENTS, FIRE DAMPERS WHERE PROVIDED, UNLESS OTHERWISE SPECIFIED; NOT LESS THAN 30 INCHES IN DEPTH, WIDTH AND HEIGHT OF WORKING SPACE SHALL BE PROVIDED.</div></div><div><div><div>24.</div><div>NA.</div></div><div><div><div>25.</div><div>BUILDING SIGNAGE IS NOT A PART OF THIS PERMIT. SIGNAGE DESIGN PACKAGE SHALL BE SUBMITTED TO AGENCIES HAVING JURISDICTION FOR PERMIT.</div></div><div><div><div>26.</div><div>THE CONTRACTOR SHALL PROVIDE A MINIMUM ONE (1) YEAR WARRANTY, ON ALL WORK AND MATERIALS PROVIDED STARTING AT THE DATE OF COMPLETION AS INDICATED IN THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR. REFER TO SPECIFICATIONS AND PLANS FOR ADDITIONAL WARRANTY AND MAINTENANCE REQUIREMENTS, WHERE OCCURS.</div></div><div><div><div>27.</div><div>CONTRACTOR SHALL MAINTAIN ON SITE AT ALL TIMES, ALL APPROVED CURRENT DRAWINGS INCLUDING ALL REVISIONS AND ADDENDA.</div></div><div><div><div>28.</div><div>THE ARCHITECT WILL NOT HAVE CONTROL OVER OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE ARCHITECT WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE ARCHITECT WILL NOT HAVE CONTROL OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.</div></div><div><div><div>29.</div><div>UPON RECEIPT OF CITY APPROVED DRAWINGS, CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND NOTIFY ARCHITECT IMMEDIATELY OF ANY MARK-UPS, REDLINES, OR REVISIONS TO THESE DRAWINGS MADE BY CITY OR LOCAL AGENCIES DURING THE PLAN CHECK PROCESS.</div></div><div><div><div>30.</div><div>GENERAL CONTRACTOR IS RESPONSIBLE FOR ACCESS TO JOB SITE FROM PUBLIC WAY AS REQUIRED FOR CONSTRUCTION. THIS MAY INCLUDE BUT NOT LIMITED TO GRAVEL ACCESS ROADS AND TRUCK WASH-OFF FACILITIES.</div></div><div><div><div>31.</div><div>CONTRACTOR SHALL COMPLETE ALL WORK IN A NEAT, WORKMAN LIKE AND PROFESSIONAL MANNER.</div></div><div><div><div>32.</div><div>CONTRACTOR SHALL COORDINATE ALL TRADES NECESSARY TO COMPLETE THE WORK OUTLINED IN THESE DOCUMENTS.</div></div><div><div><div>33.</div><div>THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIRES THE REMOVAL OF ARCHITECTURAL BARRIERS IN EXISTING FACILITIES WHERE SUCH REMOVABLE IS READILY ACHIEVABLE. THE CLIENT ACKNOWLEDGES THAT THE DEFINITION OF "READILY ACHIEVABLE" CONTAINED IN THE ADA IS FLEXIBLE AND SUBJECT TO INTERPRETATION ON A CASE BY CASE BASIS. THE REQUIREMENTS OF THE ADA WILL THEREFORE BE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS. THE DESIGN PROFESSIONAL WILL USE HIS OR HER REASONABLE PROFESSIONAL EFFORTS AND JUDGMENT TO INTERPRET APPLICABLE ADA REQUIREMENTS AND TO ADVISE THE CLIENT AS TO THE MODIFICATIONS TO THE CLIENT'S FACILITY THAT MAY BE REQUIRED TO COMPLY WITH THE ADA. SUCH INTERPRETATION AND ADVICE WILL BE BASED ON WHAT IS KNOWN ABOUT ADA INTERPRETATIONS AT THE TIME THE SERVICE IS RENDERED. THE DESIGN PROFESSIONAL, HOWEVER, CANNOT AND DOES NOT WARRANT OR GUARANTEE THAT THE CLIENT'S FACILITY WILL FULLY COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS BY REGULATORY BODIES OR COURT DECISIONS.</div></div><div><div><div>34.</div><div>PROVIDE KNOX BOX AT LOCATION SPECIFIED BY FIRE DEPT. CONTACT LOCAL FIRE DEPT. FOR ORDERING INFORMATION.</div></div><div><div><div>35.</div><div>PROJECT ARCHITECT OR ENGINEER SHALL REVIEW ALL DEFERRED DRAWINGS, PLACE A SHOP DRAWING REVIEWED STAMP ON EACH SHEET, THEN SUBMIT THE DOCUMENTS TO THE BUILDING DEPT. FOR THEIR REVIEW AND APPROVAL.</div></div><div><div><div>36.</div><div>CONTRACTOR SHALL INSTALL FIRE BLOCKING IN CONCEALED AREAS AS REQUIRED IN ALL NEW CONSTRUCTION (INCLUDING FURRED WALL ELEMENTS). BLOCKING SHALL BE LOCATED AT ALL FLOOR LEVELS, CEILING LEVELS AND AT 10-FOOT INTERVALS BOTH VERTICAL & HORIZONTAL.</div></div><div><div><div>37.</div><div>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETED BUILDING THAT DOES NOT ALLOW THE UNINTENDED INTRUSION OF WATER INTO THE BUILDING STRUCTURE OR INTERIOR SPACE. THE GENERAL CONTRACTOR IS TO PROVIDE LABOR AND MATERIALS TO FIND AND REPAIR ANY CONDITIONS ALLOWING THE INTRUSION OF WATER.</div></div><div><div><div>38.</div><div>PRIOR TO UNDERTAKING ANY DEMOLITION OR REMOVAL OF EXISTING BUILDING MATERIAL FROM THE JOB SITE, THE GENERAL CONTRACTOR SHALL OBTAIN THE REQUIRED APPROVALS AND OR PERMITS FROM THE LOCAL AGENCIES MONITORING AIR QUALITY AND THE PRESENCE OF HAZARDOUS MATERIALS FOR THE PLANNED DEMOLITION AND CONSTRUCTION WORK.</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>		<div><div>NOTE : SPECIFIC MANUFACTURERS AND PRODUCTS ARE GIVEN FOR PURPOSES OF DESCRIBING LEVEL OF QUALITY OR DESIGN. PROPOSED SUBSTITUTIONS WILL BE CONSIDERED PER PROJECT MANUAL REQUIREMENTS</div><div><div>DIVISION 1 - GENERAL</div><div><div><div>1.</div><div>DEBRIS DIVERSION</div><div>65% MINIMUM OF CONSTRUCTION WASTE SHALL BE DIVERTED FROM LANDFILLS TO RECYCLING FACILITIES, OR RE-PURPOSING. CONTRACTOR TO PROVIDE DOCUMENTATION TO ENFORCING AGENCY FOR PRE-APPROVAL OF WASTE MANAGEMENT PLAN. REFER TO GREEN BUILDING SHEETS</div></div><div><div><div>2.</div><div>GREEN BUILDING REQ.</div><div>REFER TO SHEET GREEN BLDG SHEETS GB1, GB2 AND GB3 FOR CALIFORNIA GREEN BUILDING MANDATORY REQUIREMENTS</div></div></div></div><div><div>DIVISION 4 - MASONRY</div><div><div><div>1.</div><div>STANDARD CONCRETE MASONRY UNITS</div><div>8X8X16 PRECISION UNITS, STANDARD COLOR. CMU SHALL BE MANUFACTURED WITHIN 500 MILES OF THE PROJECT SITE AND SHALL CONTAIN MIN 60% RECYCLED PRE-CONSUMER AGGREGATE</div></div></div><div><div>DIVISION 5 - METALS</div><div><div><div>1.</div><div>EXT. METAL FABRICATIONS</div><div>ALL EXTERIOR METAL FABRICATIONS TO BE HOT DIPPED GALVANIZED OR POWDER COATED MATCHING PAINT COLOR</div></div></div><div><div>DIVISION 7 - THERMAL AND MOISTURE PROTECTION</div><div><div><div>1.</div><div>SINGLE PLY ROOFING</div><div>GAF SINGLE PLY TPO ROOFING, EVERGUARD EXTREME TPO, 60 MIL, SINGLE PLY WHITE COOL ROOF TPO MEMBRANE MECHANICALLY FASTENED, 1/2" CLASS 1 GYPSUM CORE ROOF BOARD (DENSECK PRIME OR EQUAL)</div></div><div><div><div>4.</div><div>URB</div><div>AT PLASTER ON FRAMING: 2 LAYERS GRADE D' BUILDING PAPER FIRST LAYER OF WRAP SHOULD BE INSTALLED IN SHINGLED WEATHERLAP FASHION AND BE FULLY APPLIED PRIOR TO INSTALLATION OF SECOND LAYER. WEATHERLAP AND STAGGER SECOND LAYER BOTH HORIZONTALLY AND VERTICALLY OVER THE FIRST LAYER.</div></div><div><div><div>5.</div><div>SASH</div><div>WIR GRACE VTCOR PLUS OR EQUAL, PROVIDE SASH SADDLES AND SHEET METAL SADDLES AS AT ALL PARAPET INTERSECTIONS AND ROOF TO WALL TRANSITIONS. WIR GRACE ULTRA, AT ROOF RELATED FLASHINGS AND UNDER METAL COPINGS, OR AT OTHER HIGH TEMPERATURE AREAS, PROVIDE GRACE ULTRA (HIGH TEMP SASH)</div></div><div><div><div>6.</div><div>SEALANTS</div><div>EXTERIOR APPLICATIONS (NON-TRAFFIC) - PROVIDE DOW CORNING 790 / 795 OR GE'S SILPRUF SILICONE SEALANT. EXTERIOR APPLICATIONS (FOOT TRAFFIC) - PROVIDE SIKAS SIKAFLEX-2C SL. APPLICATIONS IN CONTACT WITH MEMBRANE WATERPROOFING AND FLASHINGS SHALL BE COMPATIBLE WITH WATERPROOFING PRODUCTS AS APPROVED IN WRITING FROM THE WATERPROOFING MANUFACTURER.</div></div></div></div><div><div>DIVISION 8 - DOORS AND WINDOWS</div><div><div><div>1.</div><div>DOORS AND HARDWARE</div><div>REFER TO DOOR SCHEDULE SHEET A4J</div></div><div><div><div>2.</div><div>ROLL-UP DOOR</div><div>OVER-HEAD 610 SERIES, ELECTRIC OPERATOR WITH CAU NON-INSULATE SLATS, COLOR: GRAY</div></div><div><div><div>3.</div><div>SKYLIGHTS</div><div>VELUX, OR EQUAL, 24"x28" FLAT, CURB MOUNTED, THERMALLY EFFICIENT</div></div></div></div><div><div>DIVISION 9 - FINISHES</div><div><div><div>1.</div><div>PAINT</div><div>PREP AS REQUIRED, 2 COATS, TYP. COLOR PER OWNER OR MATCH ADJACENT SURFACE</div></div></div><div><div>DIVISION 10 - SPECIALTIES</div><div><div><div>1.</div><div>FIRE EXTINGUISHER</div><div>PROVIDE 2A10BC FIRE EXTINGUISHER ON BRACKET # 440" ABOVE FINISH FLOOR TO OPERABLE PART. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AND SHALL BE MOUNTED ON A WALL OR POST AT EACH USABLE STAIRWAY AND SUCH THAT THE TRAVEL DISTANCE TO ANY EXTINGUISHER DOES NOT EXCEED 75 FEET.</div></div></div></div></div></div></div></div></div></div></div></div></div></div>		<div>ARCHITECT OF RECORD: CARLOS CASTILLO, C34699</div> <div><div>1.</div><div>OWNER SHALL NOTIFY BUILDING OFFICIAL IN WRITING IF ARCHITECT OF RECORD IS CHANGED OR SUBSTITUTED.</div></div> <div><div>2.</div><div>DEFERRED APPROVAL. ITEMS SHALL FIRST BE SUBMITTED TO THE ARCHITECT OF RECORD FOR REVIEW AND COORDINATION AND FOLLOWING COMPLETION OF ARCHITECT'S REVIEW SHALL BE SUBMITTED TO CITY AND/OR FIRE DEPARTMENT FOR APPROVAL. SUBMITTALS SENT TO THE CITY FOR APPROVAL SHALL BEAR THE ARCHITECT'S REVIEW STAMP WITH NO EXCEPTIONS TAKEN.</div></div>		<div><div>SCOPE OF WORK:</div><div>CONSTRUCT NEW 1115 SF STORAGE BUILDING ON SITE. BUILDING TO BE USED TO SHELTER (2) 600 GALLON FISH TANKS AS WELL AS STORAGE FOR THE FISHERY EQUIPMENT</div><div><div>OCCUPANCY GROUP:</div><div>5-2</div></div><div><div>NUMBER OF OCCUPANTS:</div><div>1115 SF / 300 SF/OCC * 4 OCCUPANTS</div></div><div><div>TYPE OF CONSTRUCTION:</div><div>V-B, NON - SPRINKLED</div></div><div><div>NEW BUILDING AREA:</div><div>1115 SF</div></div><div><div>CITY OF HAYWARD:</div><div>NEW BUILDING SHALL COMPLY WITH CITY OF HAYWARD REACH CODE ORDINANCE 22-11</div></div></div>	
		MANDATORY MEASURES		INDEX OF DRAWINGS			
		SYMBOLS & ABBREVIATIONS		PROJECT DIRECTORY			
		VICINITY MAP		REVISIONS			
				COVER			
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1 PARKING	THE FOLLOWING TABLE ESTABLISHES THE NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED:
TOTAL NUMBER OF PARKING SPACES	NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2% OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EA. 100 (OR FRACTION THEREOF) OVER 1000

ONE IN EVERY SIX (6), OR FRACTION OF SIX, REQUIRED ACCESSIBLE SPACES SHALL BE A VAN PARKING SPACE 144 INCHES WIDE MINIMUM AND SERVED BY AN ACCESS AISLE 60 INCHES WIDE MINIMUM AND SHALL BE DESIGNATED AS "VAN ACCESSIBLE".

EXCEPTION: VAN PARKING SPACES SHALL BE PERMITTED TO BE 120 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 36 INCHES WIDE MINIMUM.

SURFACE SLOPES OF PARKING SPACES AND ACCESS AISLE(S) FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4 INCH PER FOOT (1:48/2% GRADIENT) IN ANY DIRECTION.

- A. EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A PERMANENTLY AFFIXED REFLECTORIZED SIGN. CONSTRUCTED OF FORGECAST ON STEEL, WITH BEADED TEXT, OR EQUAL, DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL NOT BE SMALLER THAN 10.50 INCHES IN AREA AND SHALL BE CENTERED AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE BOTTOM OF THE SIGN (LOEDEST SIGN IF MULTIPLE). AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE BELOW THE SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE \$250" FOR VAN ACCESSIBLE SPACES. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE STATING "VAN ACCESSIBLE". MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY SIGN.
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- B. AN ADDITIONAL SIGN SHALL BE POSTED EITHER 1) IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO AN OFF-STREET PARKING FACILITY OR 2) POSTED IMMEDIATELY ADJACENT TO ON-SITE ACCESSIBLE PARKING AND VISIBLE FROM EACH PARKING SPACE. THE SIZE OF THE SIGN SHALL NOT BE LESS THAN 10 INCHES WIDE X 22 INCHES HIGH WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT, WHICH CLEARLY STATES THE FOLLOWING:
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- C. IN ADDITION TO THE ABOVE REQUIREMENTS, THE SURFACE OF EACH PARKING SPACE SHALL HAVE A SURFACE IDENTIFICATION OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, 36" WIDE BY 36" INCHES HIGH MINIMUM, IN WHITE ON A BLUE BACKGROUND. THE CENTERLINE OF THE SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDE PARALLEL TO THE LENGTH OF THE PARKING SPACE, AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH.
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- D. ACCESSIBLE PARKING SIGN AND \$250.00 FINE SIGN AS SHOWN ABOVE AT EACH ACCESSIBLE STALL, TYP. PROVIDE "VAN ACCESSIBLE" SIGN AT VAN ACCESSIBLE STALLS. VAN ACCESSIBLE STALLS ARE LOCATED TO THE RIGHT OF LOADING AREAS ACCESSIBLE ROUTE 48" WIDE MIN.
- E. CURB RAMP REQUIRED WHEN WALK IS AT DIFFERENT LEVEL THAN PARKING ELEVATION PER NOTE 2 THIS SHEET. PROVIDE DETECTABLE WARNING PER NOTE 2-6 THIS SHEET. RAMP RUN MAX. SLOPE IS 1:12. SIDE FLARE MAX. SLOPE IS 1:10.
- F. PAINT BORDER OF LOADING AREA BLUE.
- G. 4" WIDE STRIPES, 36" O.C. TYP. - COLOR TO CONTRAST W/ PARKING SURFACE, PREFERABLY BLUE OR WHITE.
- H. TYPICAL INTL. SYMBOL OF ACCESSIBILITY EMBLEM, SEE BELOW FOR MORE INFO.
- I. 12" MIN. HIGH WHITE LETTERING STATING, "NO PARKING" TYP.
- J. ONE IN EVERY 6 (OR FRACTION THEREOF) ACCESSIBLE SPACES SHALL BE 144 INCHES WIDE AND SHALL BE DESIGNATED "VAN ACCESSIBLE".
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- K. ACCESSIBLE ROUTE 48" WIDE MIN. SEE TYP. NOTES ABOVE.
- L. ACCESS AISLE MUST BE PROVIDED ON PASSENGER SIDE FOR SINGLE STALL.
- M. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- N. PAINT BORDER OF LOADING AREA BLUE.
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- O. 2% MAXIMUM SLOPE IN ANY DIRECTION THROUGHOUT PARKING STALL AND LOADING AREA.
- P. 12'-0" ø VAN ACCESSIBLE STALL.
- Q. 2% MAX. SLOPE IN ANY DIRECTION THROUGHOUT PARKING STALL AND LOADING AREA.
- R. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- S. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- T. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- U. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- V. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- W. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- X. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- Y. 12" HIGH WHITE LETTERING STATING, "NO PARKING".
- Z. 12" HIGH WHITE LETTERING STATING, "NO PARKING".

1. ACCESSIBLE SPACE, DOUBLE DIAGONAL TYPE.
2. NOTES: THE ACCESS AISLES FOR VAN ACCESSIBLE PARKING SPACES TO BE PLACED ON THE SIDE OPPOSITE THE DRIVER'S SIDE WHEN THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE (I.E. THE PASSENGER SIDE OF THE VEHICLE).
3. 96" MIN. VERTICAL CLEARANCE IS PROVIDED AT THE PARKING SPACE AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH SPACES FROM SITE ENTRANCE(S) AND EXIT(S).
4. CURB RAMP(S).
5. A. CURB RAMP(S) SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSES A CURB. THE PREFERRED AND RECOMMENDED LOCATION FOR CURB RAMP(S) IS IN THE CENTER OF THE CROSSEWALK OF EACH STREET CORNER, WHERE IT IS NECESSARY TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSEWALKS, THE LOWER END OF THE CURB RAMP SHALL TERMINATE WITHIN SUCH CROSSEWALKS.
6. B. CURB RAMP(S) SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
7. C. BUILT-UP CURB RAMP(S) SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.
8. D. CURB RAMP(S) AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS EXCLUDING ANY FLARED SIDES.
9. E. THE SLOPE OF CURB RAMP(S) SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL. THE SLOPE OF THE FINISHED OR FLARED SIDES OF CURB RAMP(S) SHALL NOT EXCEED 1 VERTICAL TO 10 HORIZONTAL GRADIENT (10%).
10. F. A LEVEL LANDING OF 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE.
11. G. ALL CURB RAMP(S) SHALL HAVE A DETECTABLE WARNING SURFACE. DETECTABLE WARNING SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL AND THE FULL DEPTH OF THE CURB RAMP EXCLUDING THE FLARED SIDES. DETECTABLE WARNING SHALL BE YELLOW AND COLOR SHALL APPROXIMATE F8 335338 OF SAS (ANSI STD 335.5). DETECTABLE WARNING(S) SHALL PROVIDE A 10% MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES PER CBC 11B-105.113.2.
12. DETECTABLE WARNING SURFACES SHALL BE DURABLE, SLIP-RESISTANT MATERIAL AND CONSIST OF RAISED TRUNCATED DOMES WITH A BASE DIAMETER OF 0.8 INCHES MINIMUM AND 0.92 INCHES MAXIMUM AND A TOP DIAMETER OF 0.45 INCHES MINIMUM AND 0.41 INCHES MAXIMUM, A HEIGHT OF 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF 2.5 INCHES MINIMUM AND 2.4 INCHES MAXIMUM IN CONFORMANCE WITH FIGURE CBC 11B-105.1.
13. ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CBC) TITLE 24 PART 1 CHAPTER 3, ARTICLES 3.1, 3.2, 3.3, AND 4.
14. THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
15. I. CURB RAMP(S) SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.
16. J. IF DIAGONAL CURB RAMP(S) HAVE RETURN CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMP(S) SHALL HAVE 48 INCHES MINIMUM CLEAR SPACE. IF DIAGONAL CURB RAMP(S) ARE PROVIDED AT MARKED CROSSINGS, THE 48 INCH CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMP(S) HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24 INCH LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

17. 2% MAX. SLOPE IN ANY DIRECTION THROUGHOUT PARKING STALL AND LOADING AREA.
18. 12'-0" ø VAN ACCESSIBLE STALL.
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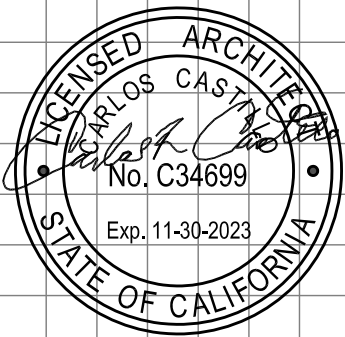
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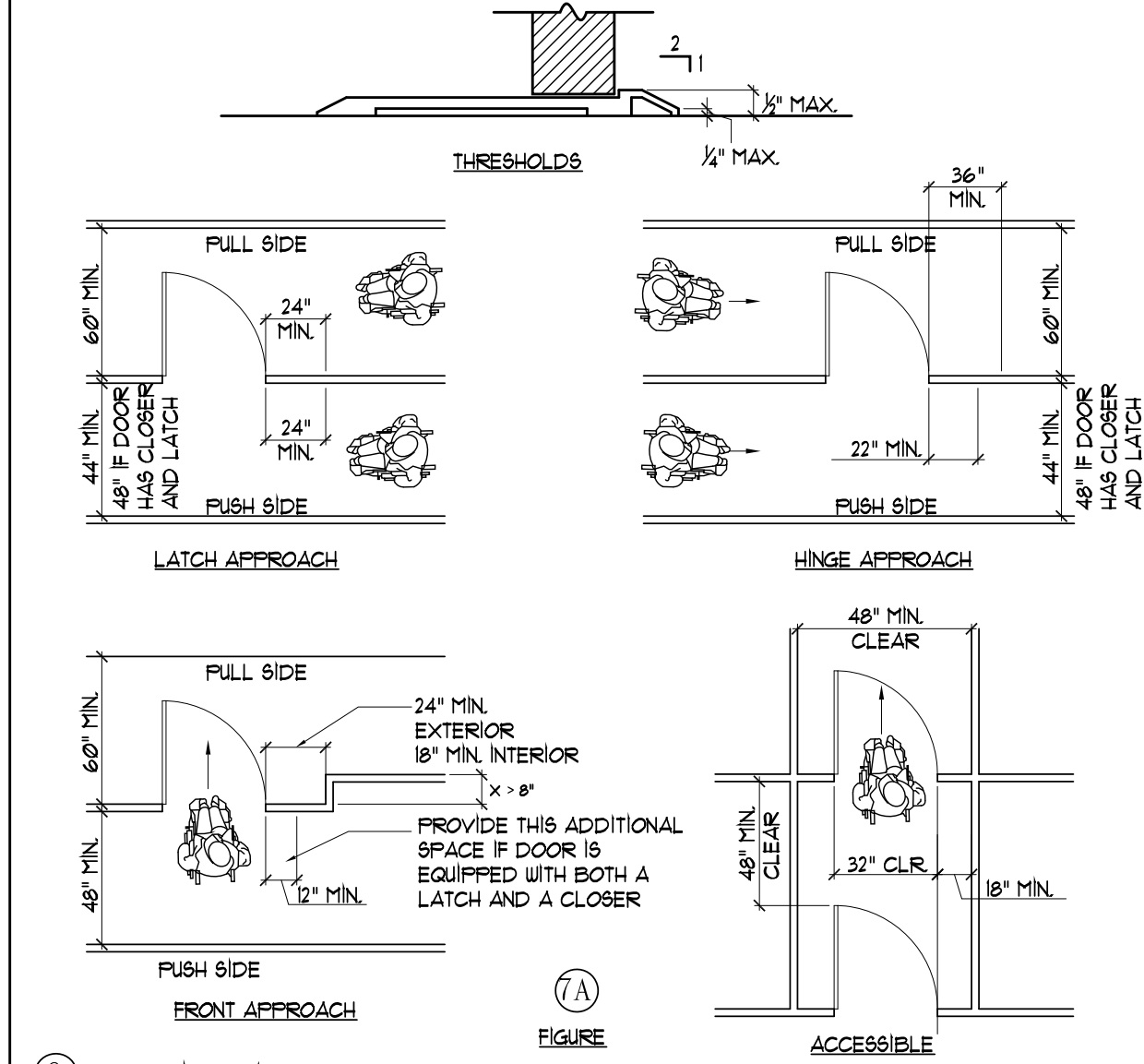
REVISIONS

REV #	DATE	DESCRIPTION
△	2/3/23	1st City Submittal
△	4/7/23	City PC Response
△	5/12/23	City PC Resp #2
△		
△		
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Title
**ACCESSIBILITY
COMPLIANCE**

Job #:
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Print Date: date



8. PROTRUDING OBJECTS

- A. PROJECTIONS FROM WALLS WITH LEADING EDGE BETWEEN 27 INCHES AND 80 INCHES ABOVE FLOOR MAY PROJECT 4 INCHES MAXIMUM. LEADING EDGE AT OR BELOW 21 INCHES MAY PROJECT ANY AMOUNT. FREE STANDING PROJECTIONS WITH LEADING EDGE BETWEEN 27 INCHES + 80 INCHES ABOVE FLOOR MAY PROJECT 12 INCHES MAX. PROJECTIONS MAY NOT REDUCE MANEUVERING SPACE, OR CLEAR WIDTH OF AN ACCESSIBLE ROUTE.

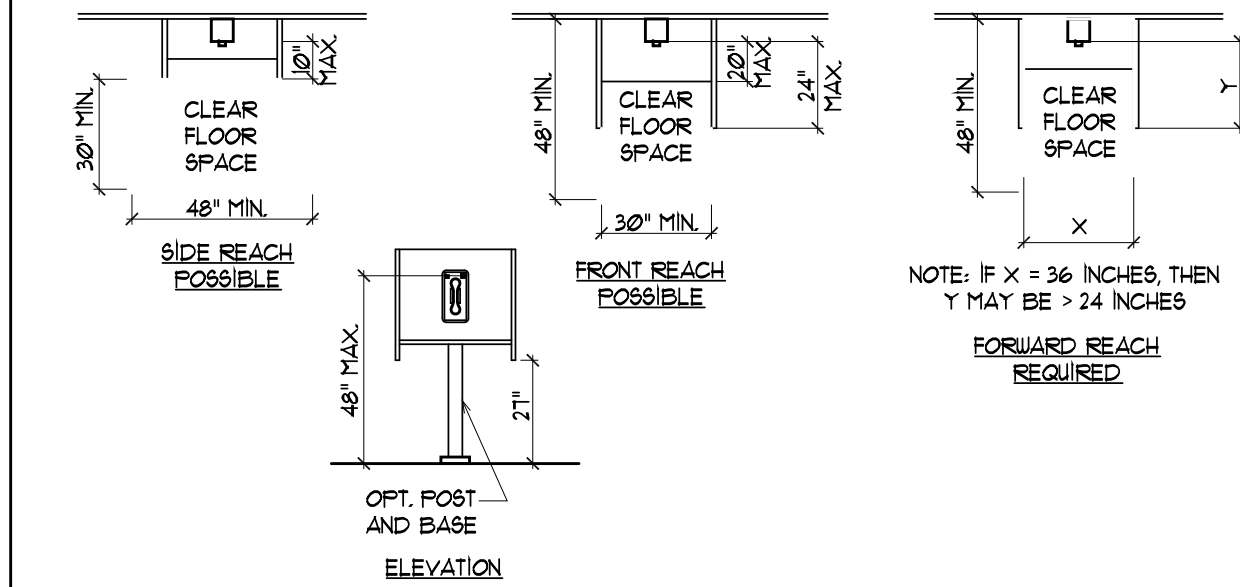
- B. HEAD ROOM: 80 INCHES MINIMUM

9. ELECTRICAL

- A. ELECTRICAL RECEPTACLES (30 AMPS OR LESS) AND COMMUNICATION RECEPTACLES SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX AND NO LESS THAN 5" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO FINISH FLOOR OR WORKING PLATFORM
- B. SWITCHES AND CONTROLS FOR LIGHTS, APPLIANCES, COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX AND NO LESS THAN 5" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO FINISH FLOOR OR WORKING PLATFORM
- C. FIRE ALARM INITIATING DEVICES SHALL BE NO SHORTER THAN 42 INCHES AND NO HIGHER THAN 48 INCHES ABOVE THE FLOOR, GROUND OR SIDEWALK

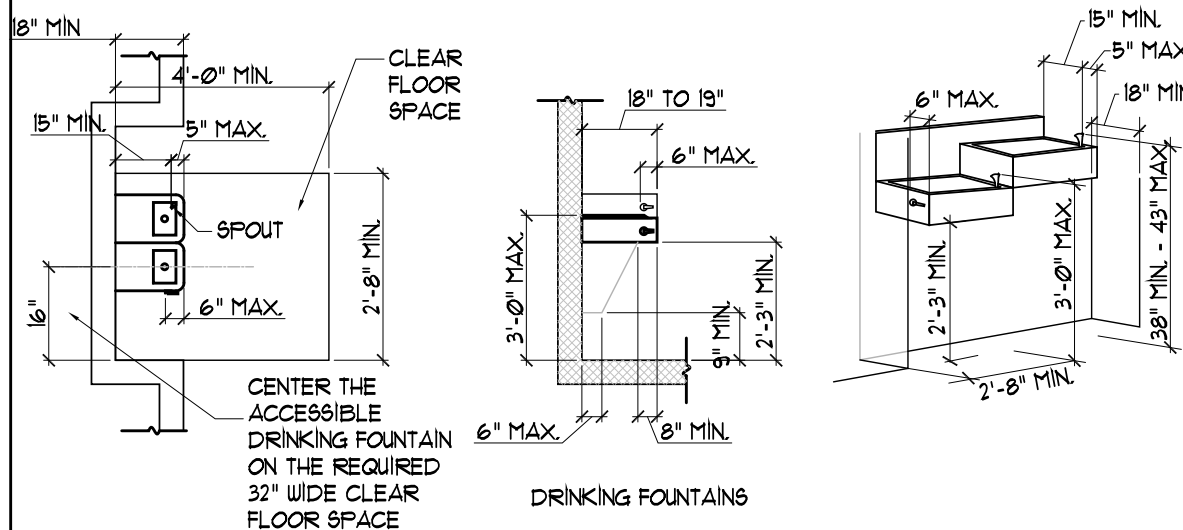
10. PUBLIC TELEPHONES

- A. AT ONE OR MORE SINGLE TELEPHONE UNITS OR ONE BANK OF TELEPHONES (2 OR MORE ADJACENT TELEPHONE UNITS), AT LEAST 50% OF TELEPHONE UNITS, BUT NOT LESS THAN 1 PER FLOOR OR LEVEL, SHALL BE WHEELCHAIR ACCESSIBLE.
- B. A CLEAR FLOOR OR GROUND SPACE AT LEAST 30 INCHES BY 48 INCHES THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT WHEELCHAIR ACCESSIBLE TELEPHONE BAY ENCLOSURES, AND FIXED SEATS SHALL NOT IMPEDE APPROACHES BY PEOPLE WHO USE A WHEELCHAIR WHERE A PARALLEL APPROACH IS PROVIDED, THE DISTANCE FROM THE EDGE OF THE TELEPHONE ENCLOSURE TO THE FACE OF THE TELEPHONE UNIT SHALL BE 10 INCHES MAXIMUM
- C. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE NO HIGHER THAN 48 INCHES FOR BOTH FORWARD REACH AND SIDE REACH
- D. TELEPHONE EQUIPMENT FOR HEARING IMPAIRED PERSONS. ALL PUBLIC TELEPHONES SHALL BE EQUIPPED WITH A VOLUME CONTROL. VOLUME CONTROL TELEPHONES SHALL BE EQUIPPED WITH A RECEIVER THAT GENERATES A MAGNETIC FIELD IN THE AREA OF THE RECEIVER CAP. SUCH TELEPHONES SHALL BE CAPABLE OF A GAIN ADJUSTABLE UP TO 20 dB MINIMUM FOR INCREMENTAL VOLUME CONTROL. PROVIDE AT LEAST ONE INTERMEDIATE STEP OF 12 dB OF GAIN MINIMUM. PUBLIC TELEPHONES WITH VOLUME CONTROL SHALL BE HEARING AND COMPATIBLE AND SHALL BE IDENTIFIED BY A SIGN CONTAINING A DEPICTION OF A TELEPHONE HANDSET WITH RADIATING SOUND WAVES. SEE FIGURE 6A.



11. DRINKING FOUNTAINS

- A. THE SPOUT SHALL BE LOCATED 15" MIN FROM THE VERTICAL SUPPORT AND 5" MAX FROM THE FRONT EDGE OF THE UNIT. THE FLOW OF WATER SHALL BE ACTIVATED BY A MANUALLY OPERATED SYSTEM THAT IS FRONT MOUNTED OR SIDE MOUNTED AND LOCATED WITHIN SIX INCHES OF THE FRONT EDGE OF THE FOUNTAIN OR AN AUTOMATIC ELECTRONICALLY CONTROLLED DEVICE. SPOUT OUTLET SHALL BE 36 INCHES MAXIMUM ABOVE FINISH FLOOR OR GROUND.
- B. A SECOND DRINKING FOUNTAIN SHALL BE PROVIDED WITH A SPOUT HEIGHT OF 38" MIN AND 43" MAX FOR PEOPLE WHO HAVE DIFFICULTY BENDING OR STOOPING.
- C. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 INCHES HIGH. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT, WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 5 DEGREES MAXIMUM.



12. SANITARY FACILITIES

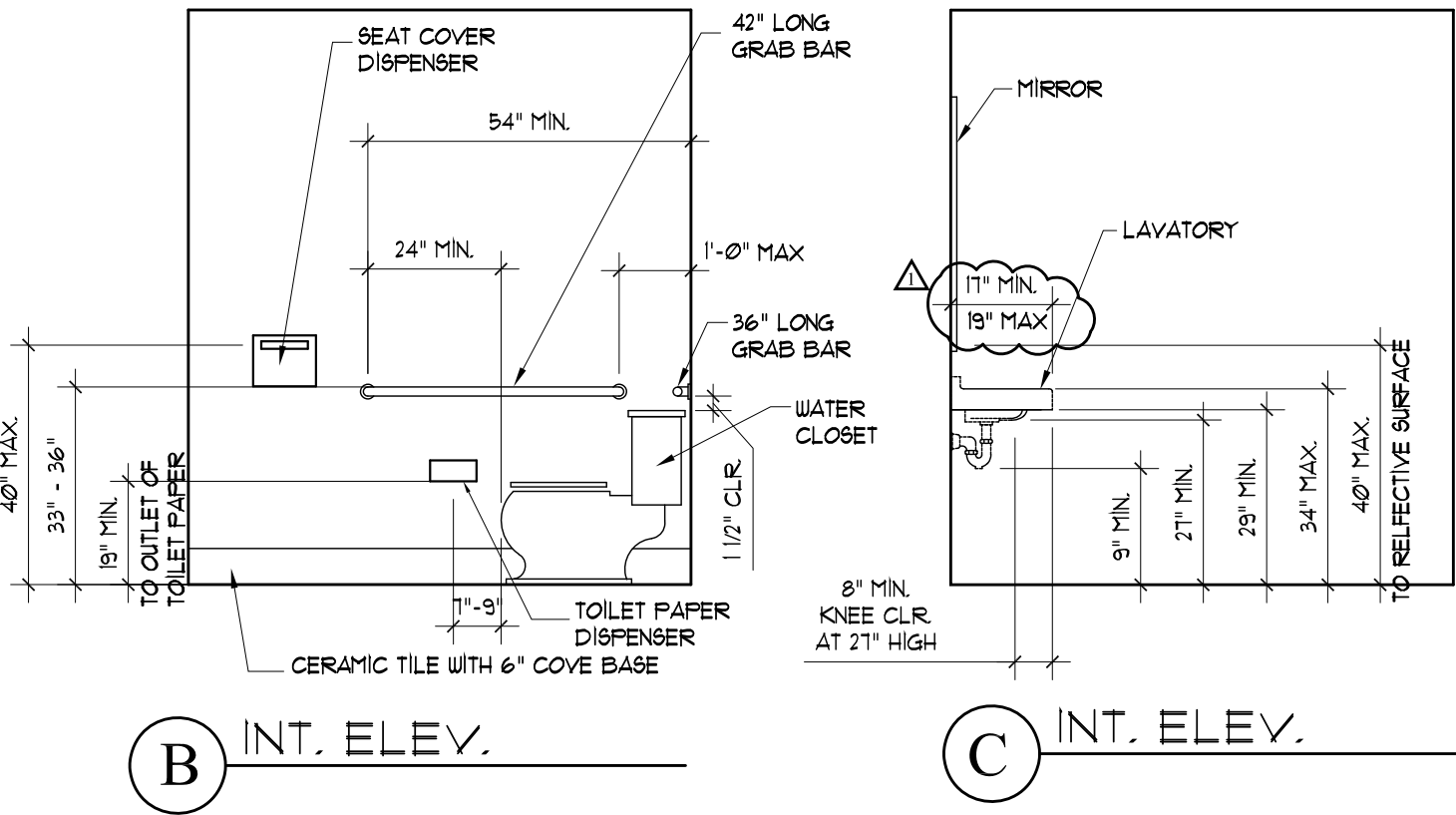
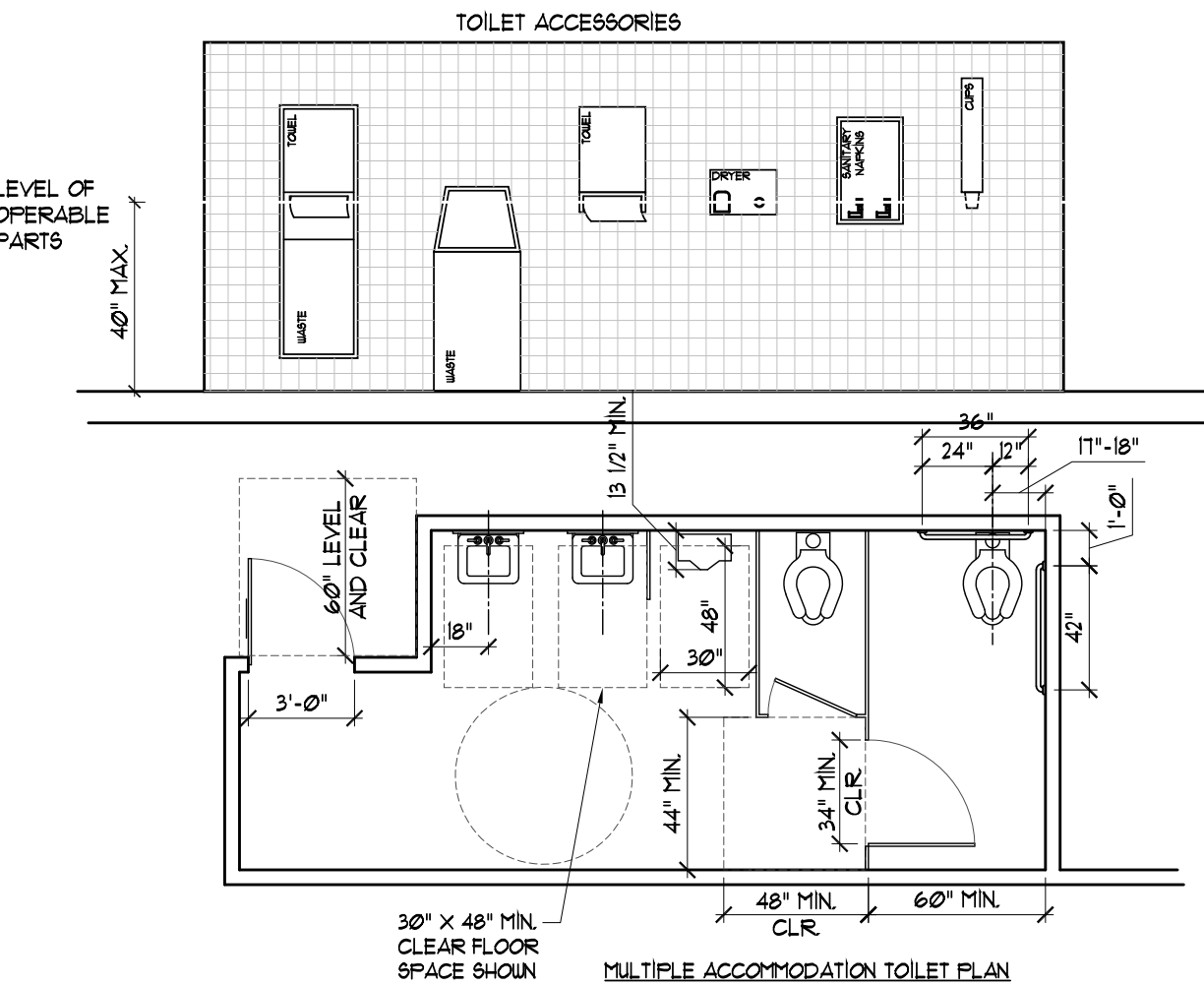
A. GEOMETRIC SYMBOLS

NOTE: ALL SINGLE ACCOMMODATION SANITARY FACILITIES ARE TO BE DESIGNATED "ALL GENDER."

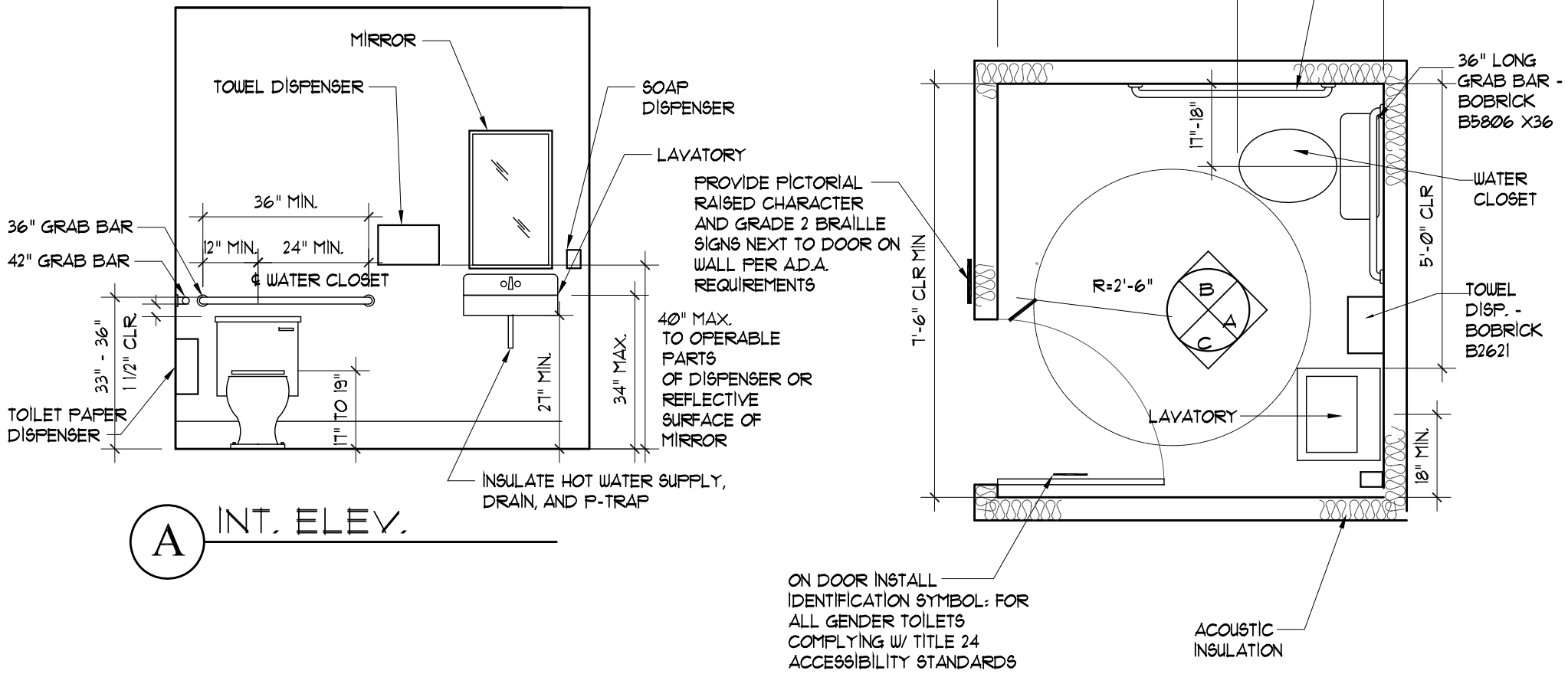
1. DOORWAYS LEADING TO MEN'S MULTIPLE ACCOMMODATION SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND VERTICES POINTING UPWARD. WOMEN'S MULTIPLE ACCOMMODATION SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK WITH EDGES 12 INCHES IN DIAMETER. NO BRAILLE TO BE INSTALLED ON DOOR FACES. ALL LETTERS AND NUMBERS ON DOOR FACES SHALL BE FLUSH WITH BACKGROUND.
2. "ALL GENDER" SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK, 12 INCH DIAMETER WITH A 1/4 INCH THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER EDGES SHALL BE EASED OR ROUNDED AT 1/8 INCH MINIMUM OR CHAMFERED AT 1/8 INCH MAXIMUM. VERTICES SHALL BE RADIUS BETWEEN 1/8 INCH MINIMUM AND 1/4 INCH MAXIMUM. NO BRAILLE TO BE INSTALLED ON DOOR FACES. ALL LETTERS AND NUMBERS ON DOOR FACES SHALL BE FLUSH WITH BACKGROUND.
3. GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS ON SANITARY DOORS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 58 INCHES MINIMUM AND 60 INCHES MAXIMUM AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE ON THE SIGN ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. THE BORDER DIMENSION OF THIS PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
5. RAISED LETTERS SHALL BE PROVIDED IN CONFORMANCE WITH SECTION 1B-103.2 AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1B-103.3. TACTILE SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR OR DOUBLE DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" (76mm) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

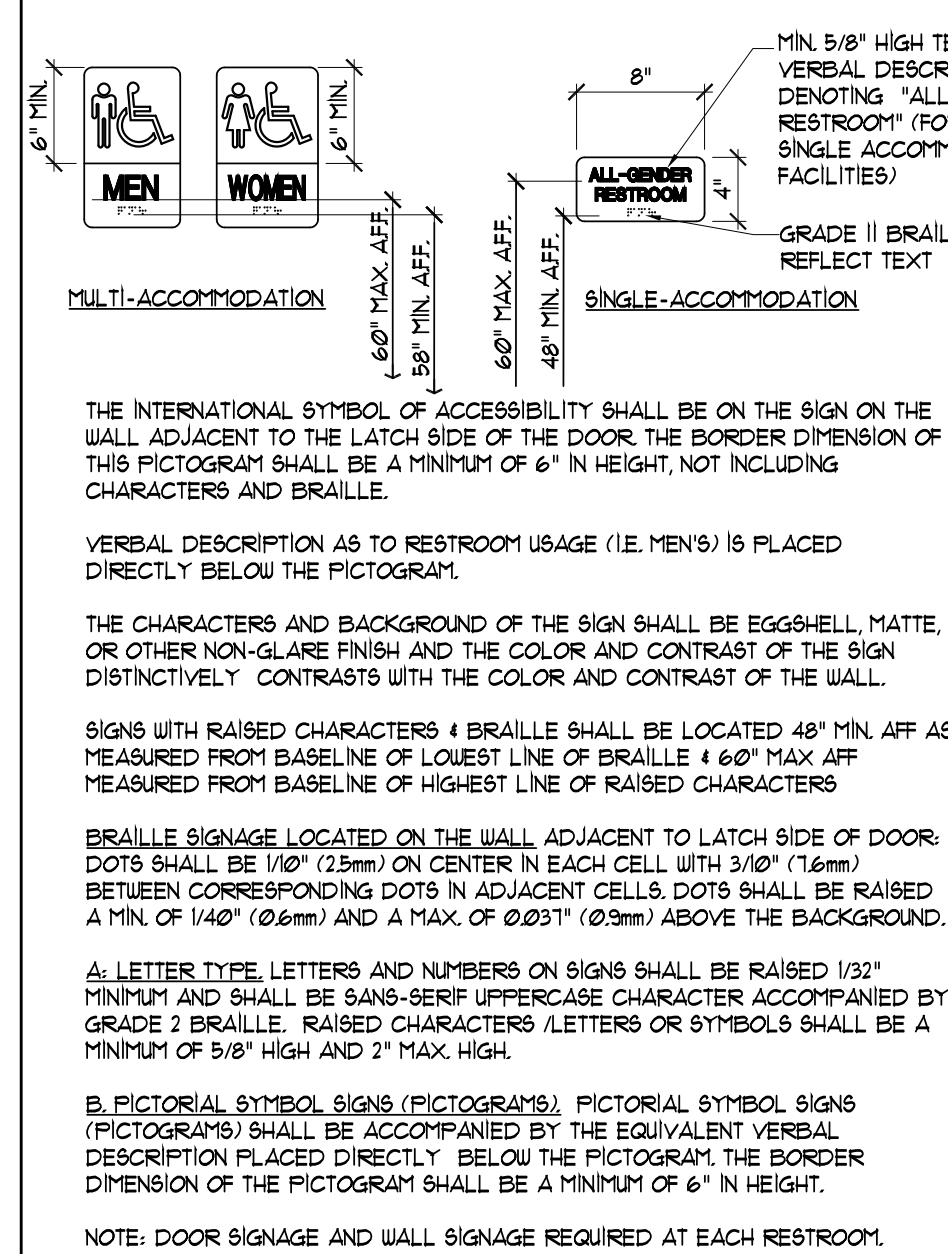
- a. CHARACTER TYPE: CHARACTER ON SIGNS SHALL BE RAISED 1/32" (0.8mm) MIN. AND SHALL BE 5/8" SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
- b. CHARACTER SIZE: RAISED CHARACTERS SHALL BE MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTERS AND BE A MIN. OF 5/8" (15.9mm) AND A MAX. OF 2" (51mm) HIGH BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
- c. PICTORIAL SYMBOL SIGNS (PICTOGRAMS): PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE PICTOGRAM SHALL HAVE A FIELD HEIGHT OF 6" (153mm) MINIMUM.
- B. ACCESSIBLE COMPARTMENT DOORS SHALL BE EQUIPPED WITH AN AUTOMATIC CLOSING DEVICE. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING, OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
- C. WATER CLOSET: FLUSH CONTROLS ARE TO BE HAND OPERABLE WITH A MINIMUM OPERATING FORCE OF 5 LBF OR AUTOMATIC. THE HANDLE SHALL BE 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND IS TO BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS.
- D. URINALS: PROVIDE URINALS WITH A RIM 11 INCHES MAXIMUM ABOVE THE FINISH FLOOR. URINALS SHALL BE 1 1/2 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. FLUSH CONTROLS ARE TO BE HAND OPERABLE WITH A MINIMUM OPERATING FORCE OF 5 LBF OR AUTOMATIC. THE HANDLE SHALL BE 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
- E. LAVATORY: PROVIDE A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES WIDE TO 8 INCHES MINIMUM DEPTH AT THE TOP. PROVIDE FOR THE CLEARANCE AT LEAST 30 INCHES WIDE, 12 INCHES ABOVE THE FLOOR AND 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY. PROVIDE A CLEAR FLOOR SPACE 30 INCHES X 48 INCHES IN FRONT OF LAVATORY. THE CLEAR SPACE MAY EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. INSULATE HOT WATER AND DRAIN PIPES UNDER LAVATORIES. NO SHARP OR ABRASIVE SURFACES ARE ALLOWED UNDER LAVATORIES. FAUCET CONTROLS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE NECESSARY TO OPERATE CONTROLS IS NOT TO EXCEED 5 LBF.
- F. ACCESSORIES: WHERE TOILET, SANITARY WIPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FLOOR.
- a. MOUNT MIRRORS WITH THE BOTTOM EDGE OF REFLECTIVE SURFACE NO MORE THAN 40 INCHES FROM THE FINISH FLOOR.
- b. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 1'-3" INCHES OF THE FRONT EDGE OF THE TOILET SEAT MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET SHALL BE 18" MINIMUM ABOVE THE FINISH FLOOR.
- G. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED FOR GRAB BARS WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE. THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE SPECIFICATIONS OF THE AMERICAN DISABILITIES ACT AND THE STATE OF CALIFORNIA TITLE 24.
- H. SINGLE RESTROOM ACCOMMODATION: A CLEAR FLOOR SPACE OF AT LEAST 60 INCHES IN DIAMETER IS REQUIRED FOR SINGLE ACCOMMODATION TOILET ROOMS.



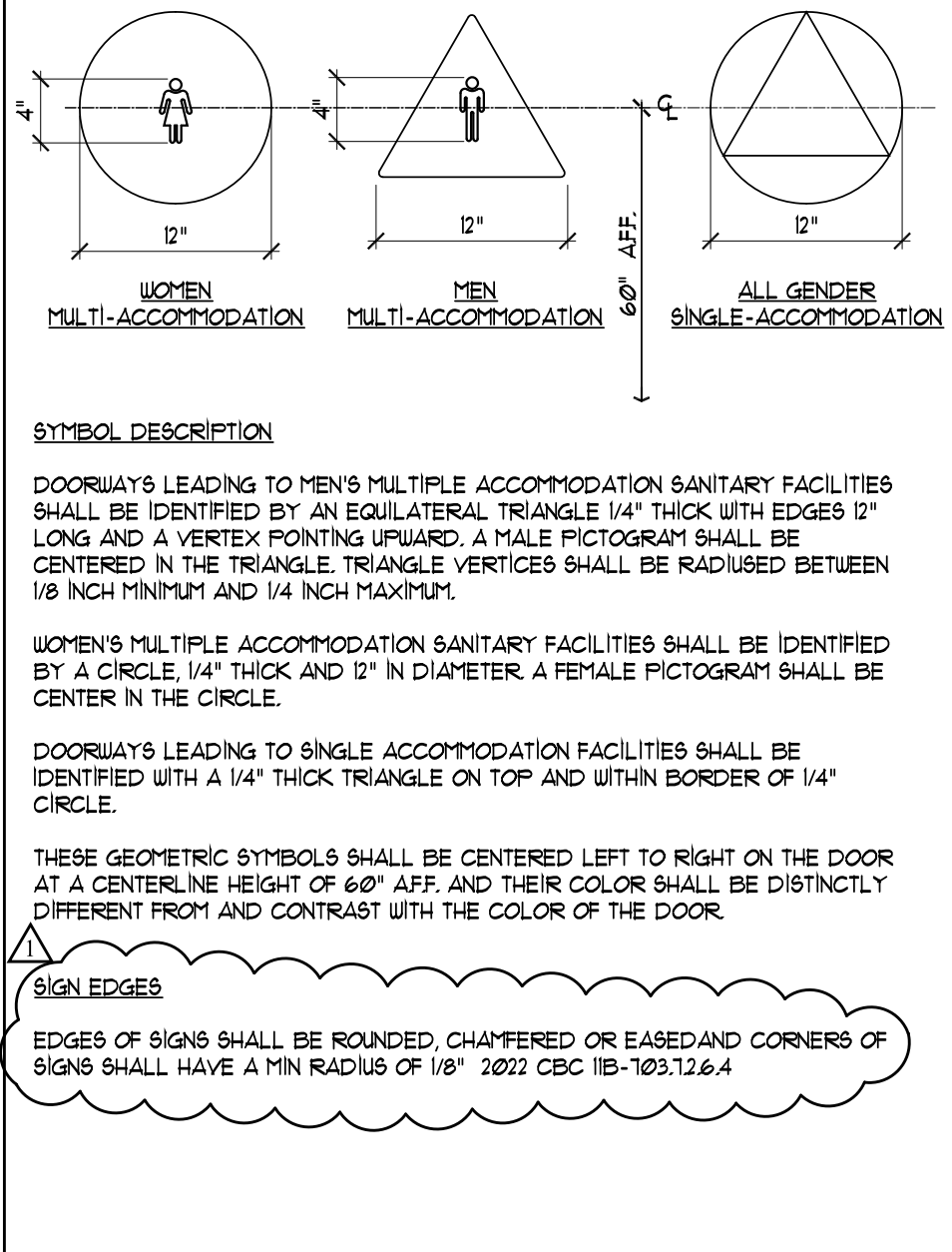
NOTE: THESE FIGURES ARE ILLUSTRATIVE ONLY AND DO NOT DELINEATE THE ONLY MEANS OF COMPLIANCE. REFER TO PLANS FOR EXACT LAYOUT OF TOILET ROOMS.
NOTE: ANY MODEL NO. OR SPECIFICATIONS FOR TOILET ROOM ACCESSORIES ON OTHER SHEETS SUPERSEDE THOSE ON THIS SHEET.



WALL MOUNTED SIGNAGE



DOOR MOUNTED SIGNAGE





REACH CODE CHECKLIST

FOR NEW NON-RESIDENTIAL BUILDINGS

This includes offices, hotels and motels, and all other non-residential buildings

The Reach Code is a local ordinance adopted in Hayward which modifies the CA Building Code (CalGreen) to reduce natural gas use in new construction. The Reach Code also amends CalGreen to expand the requirements for parking spaces for Electric Vehicle (EV) charging. For new residential buildings, please use the [Reach Code Checklist for Residential Buildings](#). For checklists, background information and the full text of the Reach Code, please see the City of Hayward website here: <https://www.hayward-ca.gov/reach-code>

PART 1: ELECTRIFICATION (EITHER CHECKLIST 1A OR CHECKLIST 1B MUST BE COMPLETED)

CHECKLIST 1A: ALL-ELECTRIC APPROACH

- WHERE ALL-ELECTRIC INFRASTRUCTURE IS INSTALLED, THE DESIGN FOR THE BUILDING SHALL INCLUDE THE FOLLOWING:

(Check each item as you confirm it in the plans)

- ☒ All-electric end uses
- ☒ No fuel gas (such as natural gas or propane) appliances (use heat pumps for water heaters and HVAC)
- ☒ No fuel gas meters, piping or infrastructure
- ☒ Compliance with CalGreen and CA Energy Code

CHECKLIST 1B: ELECTRIC READINESS APPROACH

- WHERE FUEL GAS INFRASTRUCTURE IS INSTALLED, THE DESIGN FOR THE BUILDING SHALL INCLUDE THE FOLLOWING:
 - ☐ Sufficient electrical capacity to facilitate future full building electrification (including reserved circuit breakers, electrical conduit, subpanels, panels, switchboards, and transformers)
 - ☐ Physical space for future electric heating appliances (including equipment footprint and associated ducting)
 - ☐ Construction documents must depict plans for electrification infrastructure and appliances.
 - ☐ Compliance with CalGreen and CA Energy Code

PART 2: EV CHARGING READINESS

CHECKLIST 2A – OFFICES

- Is the new building an office? ☐ YES ☒ NO
If you checked "yes," complete checklist below. If you checked "no," continue to CHECKLIST 2B for hotels and motels, or CHECKLIST 2C for all other use buildings.

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Permit Center Hours: Please see website for operating hours

- ☐ A minimum of 20% of parking spaces shall be provided with a Level 2 Ready and Electric Vehicle Charging Station (EVCS) (see definitions of Level 2 EV Ready and EVCS in 'DEFINITIONS' section below).
- ☐ A minimum of 50% of parking spaces shall be provided with a Level 2 Ready and EVCS or are Level 2 EV Capable.
- ☐ Automatic Load Management Systems (ALMS) shall be permitted to reduce load when multiple vehicles are charging.

CHECKLIST 2B – HOTELS AND MOTELS

- Is the new building a hotel or a motel? ☐ YES ☒ NO
If you checked "yes," complete checklist below. If you checked "no," continue to CHECKLIST 2A for offices, or CHECKLIST 2C for all other non-residential buildings.
- ☐ A minimum of 15% of parking spaces shall be provided with a Level 2 Ready and EVCS.
- ☐ A minimum of 40% of parking spaces shall be provided with a Low Power Level 2 Ready and EVCS or are Low Power Level 2 EV Ready.
- ☐ ALMS shall be permitted to reduce load when multiple vehicles are charging.

CHECKLIST 2C – OTHER NON-RESIDENTIAL BUILDINGS

- Is the new building non-residential other than an office, hotel, or motel? ☒ YES ☐ NO
If you checked "yes," complete checklist below. If you checked "no," see previous checklists.
- ☒ A minimum of 10% of parking spaces shall be provided with a Level 2 Ready and EVCS.
- ☐ A minimum of 20% of parking spaces shall be provided with a Level 2 Ready and EVCS or are Level 2 EV Capable.
- ☐ ALMS shall be permitted to reduce load when multiple vehicles are charging.

DEFINITIONS:

- 'Automatic Load Management Systems (ALMS),' A control system designed to manage load across one or more electric vehicle supply equipment (EVSE), circuits, or panels, and share electrical capacity and/or automatically manage power at each connection point. ALMS systems must be designed to deliver no less than 3.3 kVa (208/240 volt, 16-ampere) to each EV Capable, EV Ready, or EVCS space served by the ALMS, and meet the requirements of California Electrical Code, Article 625. The connected amperage to the building site for the EV charging infrastructure shall not be lower than the required connected amperage per California Green Building Standards Code, Title 24 Part 11.
- 'Direct Current Fast Charging (DCFC),' A parking space provided with electrical infrastructure that meets the following conditions:
 - A minimum of 48 kVa (480 volt, 100-ampere) capacity wiring.
 - Electric vehicle supply equipment (EVSE) located within three (3) feet of the parking space providing a minimum capacity of 80-ampere.
- 'Electric Vehicle Charging Station (EVCS),' A parking space that includes installation of electric vehicle supply equipment (EVSE) at an EV Ready Space. An EVCS space may be used to satisfy EV Ready space requirements. EVSE shall be installed in accordance with the California Electrical Code, Article 625.

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- 'Level 2 EV Capable,' A parking space provided with electrical infrastructure that meets the following requirements:
 - Conduit that links a listed electrical panel with sufficient capacity to a junction box or receptacle located within three (3) feet of a parking space.
 - The conduit shall be designed to provide at least 8.3 kVa (208/240 volt, 40-ampere) per parking space. Conduit shall have a minimum nominal trade size of 1 inch inside diameter and may be sized for multiple circuits as allowed by California Electrical Code. Conduit shall be installed at a minimum in spaces that will be inaccessible after construction, either trenched underground or where penetrations to walls, floors, or other partitions would otherwise be required for future installation of branch circuits, and such additional elements deemed necessary by the Building Official. Construction documents shall indicate future completion of conduit from the panel to the parking space, via the installed inaccessible conduit.
 - The electrical panel shall reserve a space for a 40-ampere overcurrent protective device space(s) for EV charging, labeled in the panel directory as "EV CAPABLE."
 - Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.
 - The parking space shall contain signage with at least a 12" font adjacent to the parking space indicating the space is EV Capable.
- 'Level 2 EV Ready,' A parking space that is served by a complete electric circuit with the following requirements:
 - A minimum of 8.3 kVa (208/240 Volt, 40-ampere) capacity wiring.
 - A receptacle labeled "Electric Vehicle Outlet" or electric vehicle supply equipment located within three (3) feet of the parking space. If Electric Vehicle Supply Equipment (EVSE) is provided the minimum capacity of the EVSE shall be 30-ampere.
- 'Low Power Level 2 EV Ready,' A parking space that is served by a complete electric circuit with the following requirements:
 - A minimum of 4.1 kVa (208/240 Volt, 20-ampere) capacity wiring.
 - A receptacle labeled "Electric Vehicle Outlet" or electric vehicle supply equipment located within three (3) feet of the parking space. If EVSE is provided the minimum capacity of the EVSE shall be 16-ampere.
 - Conduit oversized to accommodate future 'Level 2 EV Ready' (208/240 Volt, 40-ampere) at each parking space.

PART 3: EXCEPTIONS FOR NON-RESIDENTIAL BUILDINGS

The building may be exempt from the EV Charging Readiness requirements under the following conditions:

- If there is no local utility power supply, or the local utility is unable to supply adequate power.
- If a building permit applicant provides documentation detailing that the increased cost of utility service or on-site transformer capacity would exceed an average of \$4,500 per parking space, the applicant shall provide EV infrastructure up to a level that would not exceed this cost for utility service or on-site transformer capacity.
- Spaces accessible only by automated mechanical car parking systems are excepted from providing EV charging infrastructure.

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- One Direct Current Fast Charging (DCFC) station may be substituted for up to five (5) EVCS to meet the EV charging readiness requirements. Where ALMS serve DCFC stations, the power demand from the DCFC shall be prioritized above Level 2 spaces.

PART 4: SIGNATURE LINE

This form has been completed by: Gerry Nicol, Element One Architecture

Gerry Nicol
Signature

4-6-2023
Date

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element one

architecture

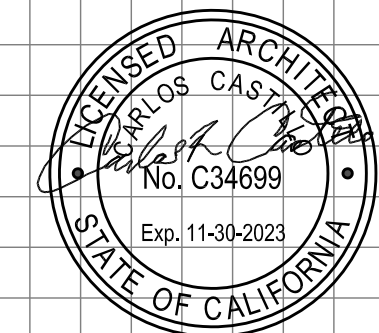
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hayward, california 94545
tel. 650.420.1075

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NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV #	DATE	DESCRIPTION
△	2/3/23	1st City Submittal
△1	4/7/23	City PC Response
△2	5/12/23	City PC Resp #2
△		
△		
△		

Title **REACH CHECKLIST**

Job #: 00000

Print Date: date

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A0.3

STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 1 of 7)

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 1 of 7)

Project Address:

Date Prepared:

2023-05-15T03:28:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	04	Building Occupancies	Warehouse
02	Climate Zone	3	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	1115	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B

01

☒

Provide Solar Ready Area no exceptions

The project has allocated a solar zone on the roof plan per requirements in [§110.10\(b\)](#), as documented in Table F.

☐

Exception to Solar Ready Area: Installed Solar Photovoltaic System

The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.

☐

Exception to Solar Ready Area: Installed Solar Water Heating System

The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.

☐

Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure

The project is a multifamily occupancy where all thermostats in each dwelling unit comply with [§110.12\(a\)](#) AND at least one additional measure listed in Exception 4 to [§110.10\(b\)1B](#) is installed, as documented in Table I.

☐

Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport

Plan sheet showing roof designed for vehicular traffic, parking or heliport

☐

Exception to Solar Ready Area: Roof too small

The project is new construction and has a total roof area <= 533 square feet¹

☐

Exception to Solar Ready Area: Number of building stories

The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

¹FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

Registration Number:

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 107841-0523-0003

Schema Version: rev 20220101

Report Generated: 2023-05-15 00:28:04

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Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 2 of 7)

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 2 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone		OR	Installed PV System		OR	Installed SWH System		OR	Smart Tstat and Alternative EE Measure		Compliance Results
01	02		03	04		05	06		07	08	
Required Minimum Area (ft²)	<= Designated Area (ft²)		Required Minimum DC Power Rating (Watts)	<= Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	<= Designed/Rated Solar Savings Fraction		JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)			(See Tables G or J)			(See Table H)			(See Table I)		
156.6	<= 160	OR	<=	OR	<=		OR				
Roof plan, Detail 2/A2.1			Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c) .								COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table I.											Not Applicable

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.

Registration Number:

Generated Date/Time:

Documentation Software: Energy Code Ace

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(Page 3 of 7)

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New Storage Building for ACMAD

Report Page:

(Page 3 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System							
01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof¹ (ft²)	Roof Area < 70% Solar Access² (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area³ (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
Total Min Size PV System Required for all Spaces (kWdc):							
Total Size PV System in Design (kWdc):							
¹ FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.							
² Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools .							
³ As specified by CBC Section 503.1.4.							

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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 Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCI. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number:

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 107841-0523-0003

Schema Version: rev 20220101

Report Generated: 2023-05-15 00:28:04

STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 4 of 7)

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 4 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

F. ALLOCATED SOLAR ZONE

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Required Minimum Solar Zone							
01	02	03	04	05	06	07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylight) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access Low-Sloped Area (<= 2:12 pitch) (ft²) Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	1076	32	156.6				156.6

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steeep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)1B A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3 B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Proposed Solar Zone	Sheet A2.1 - Roof Plan	Low slope		Yes	Yes	Yes	Yes	80	160	COMPLIES

Registration Number:

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 5 of 7)

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 5 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per [§110.10\(c\)](#).

Roof plan, Detail 2/A2.1

¹FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per [§110.10\(b\)1B](#). Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

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Report Version: 2022.0.000

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 6 of 7)

Project Name:

New Storage Building for ACMAD

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(Page 6 of 7)

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2023-05-15T03:28:03-04:00

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Form/Title

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Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 7 of 7)

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 7 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.

Allocated Solar Zone		OR	Installed PV System		OR	Installed SWH System		OR	Smart Tstat and Alternative EE Measure		Compliance Results
01	02		03	04		05	06		07	08	
Required Minimum Area (ft²)	<= Designated Area (ft²)		Required Minimum DC Power Rating (Watts)	<= Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	<= Designed/Rated Solar Savings Fraction		JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)			(See Tables G or J)			(See Table H)			(See Table I)		
156.6	<= 160	OR	<=	OR	<=		OR				
Roof plan, Detail 2/A2.1			Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c) .								COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table I.											Not Applicable

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.

Registration Number:

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 8 of 7)

Project Name:

New Storage Building for ACMAD

Report Page:

(Page 8 of 7)

Date Prepared:

2023-05-15T03:28:03-04:00

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Required Minimum Solar Zone							
01	02	03	04	05	06	07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylight) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access Low-Sloped Area (<= 2:12 pitch) (ft²) Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	1076	32	156.6				156.6

Designated Solar Zone Subareas

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Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steeep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)1B A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3 B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Proposed Solar Zone	Sheet A2.1 - Roof Plan	Low slope		Yes	Yes	Yes	Yes	80	160	COMPLIES

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-SAB-E

(Page 9 of 7)

Project Name:

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(Page 10 of 7)

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(Page 11 of 7)

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Proposed Solar Zone	Sheet A2.1 - Roof Plan	Low slope		Yes	Yes	Yes	Yes	80	160	COMPLIES

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(Page 12 of 7)

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

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Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag										



REV #	DATE	DESCRIPTION
A		

	2/3/23	1st City Submitt
	4/7/23	City PC Respon
		
		
		
		

Title

GREEN BLDG
CODE

Job #: 00000

Print Date: _____ date

[illegible]

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y
RESPON. PARTY

YES
NOT APPLICABLE
CALIFORNIA LAWYER (IN ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

element | one
architecture

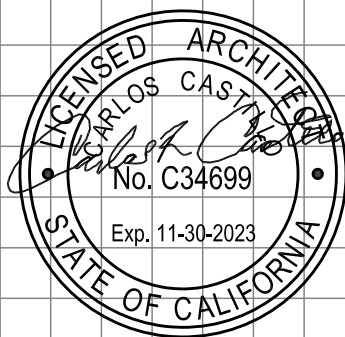
23990 clawler road
hayward, california 94545
tel. 650.420.1075

All drawings and written material appearing herein constitute the original and unpublished work of element one architecture and the same may not be duplicated, used, or disclosed without the written consent of element one

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV. #	DATE	DESCRIPTION
--------	------	-------------

△	2/3/23	1st City Submittal
△	4/7/23	City PC Response
△		
△		
△		

Title
GREEN BLDG
CODE

Job #:

00000

Print Date: date

GB3

Y	NA	RESPON. PARTY
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AO.1 & G.C.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT^{1,2}

Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURH-TML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter	
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (c)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

Y	NA	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification
- Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/PHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material>

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/PHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material>

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
- Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS:

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y	NA	RESPON. PARTY
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5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/PHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material>

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/PHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material>

5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 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 a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the *California Energy Code*, Section 120(c)(4).

5.506.3 Carbon dioxide (CO₂) monitoring in classrooms. (DAS-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

- The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
- When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
- A monitor shall provide notification through a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
- The monitor or sensor shall measure carbon dioxide levels at minimum 15-minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
- The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
- The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcing authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DAS-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or a mixed envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- Within the 65 CNEL noise contour of an airport.

Exceptions:

- L_n or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
- L_n or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_n noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{dn}-1hr during any hour of operation shall have building, addition or alteration exterior walls and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toilnoise.org/PDF/CaseStudies/stc_joc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y	NA	RESPON. PARTY
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multilayer seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel, or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psi minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psi, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- Certification by a national or regional green building program or standard publisher.
- Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade.
- Other programs acceptable to the enforcing agency.

Notes:

- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

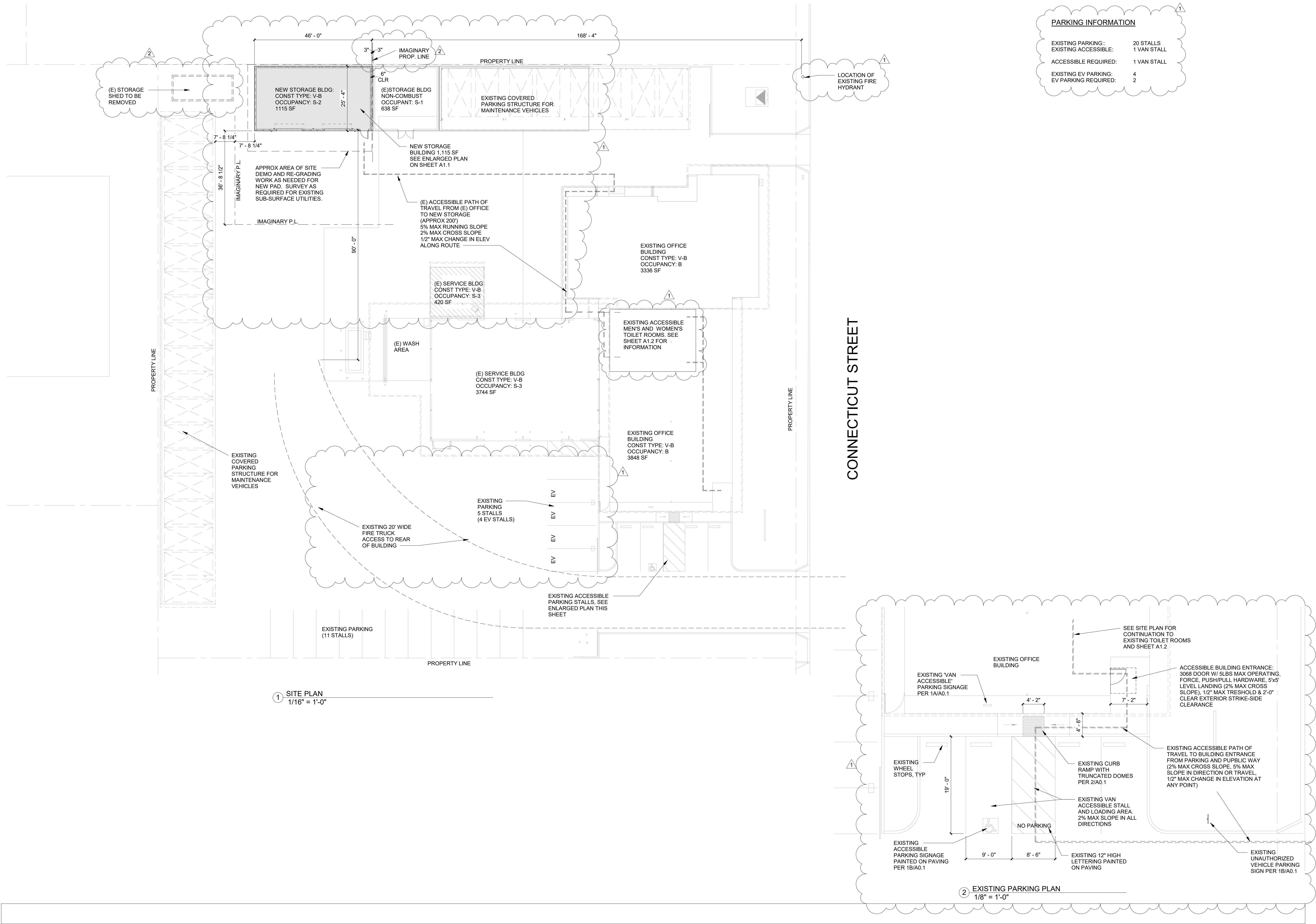
[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



PARKING INFORMATION	
EXISTING PARKING::	20 STALLS
EXISTING ACCESSIBLE:	1 VAN STALL
ACCESSIBLE REQUIRED:	1 VAN STALL
EXISTING EV PARKING:	4
EV PARKING REQUIRED:	2

element | one

architecture

23990 clawiter road
hayward, california 94545
tel. 650.420.1075

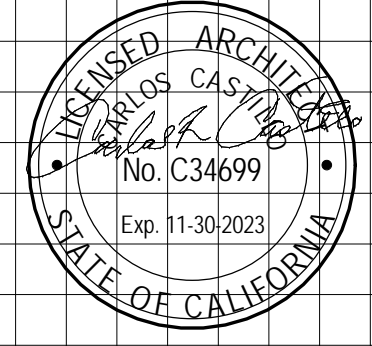
All drawings and written material appearing herein
constitute the original and unpublished work of
element one architecture and the same may not
be duplicated, used, or disclosed without the
written consent of element one

NEW STORAGE FACILITY

23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

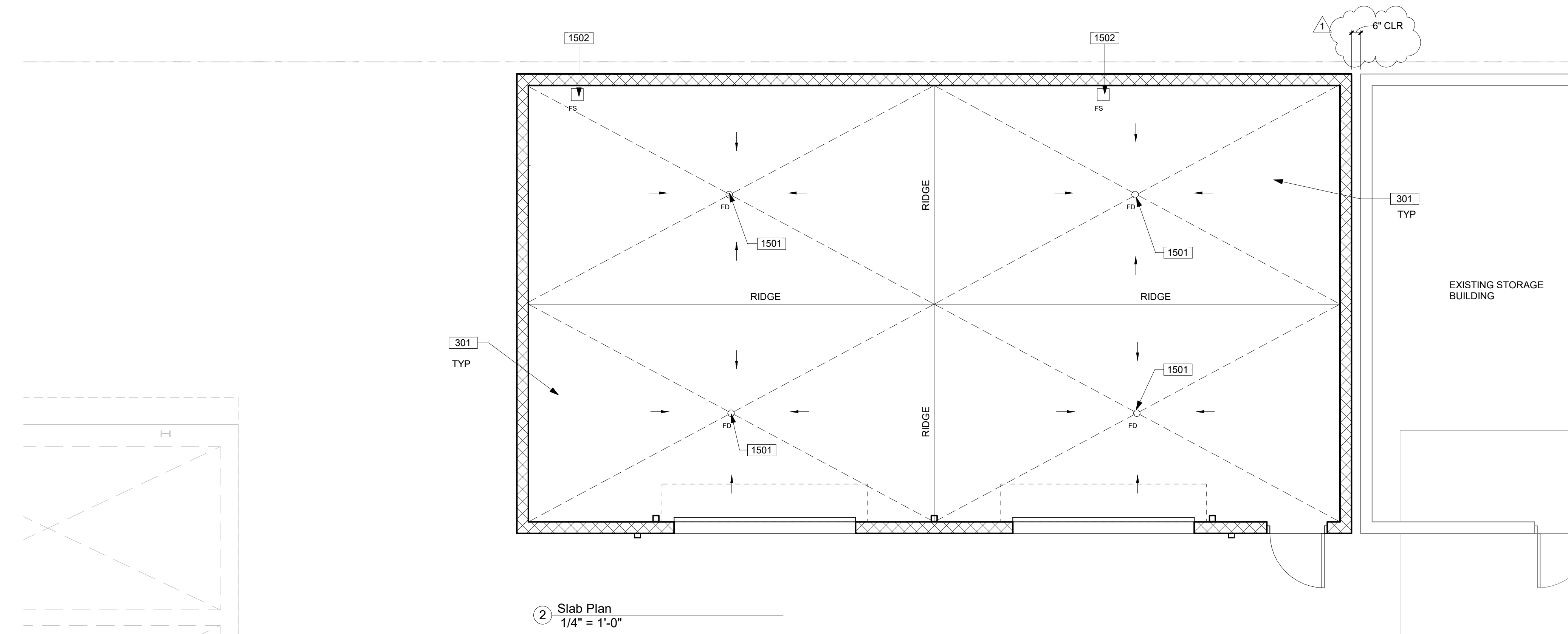
REV #	DATE	DESCRIPTION
1	2/3/23	1st City Submittal
1	4/7/23	City PC Response
2	5/12/23	City PC Resp #2

Title
SITE PLAN

Job #:: 00000

Print Date: date

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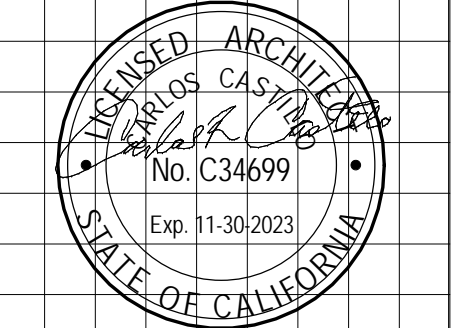
Keynote Legend	
Key Value	Keynote Text
101	5'X5' CLEAR LANDING AT DOOR. 2% MAX SLOPE IN ANY DIRECTION, 1/2" MAX THRESHOLD WITH 1:2 BEVEL
102	CLEAR LANDING AT DOOR: 5'-0" DEEP BY WIDTH OF DOOR PLUS 2'-0" AT LATCH SIDE ON PULL SIDE OF DOOR - 2% MAX SLOPE IN ANY DIRECTION, 1/2" MAX THRESHOLD WITH 1:2 BEVEL
201	3" WIDE TRUNCATED DOMES PER 2/A0.1 ON ALL SIDES OF LANDING
301	REINFORCED SUBGRADE SLAB OVER 2" SAND OVER BASE ROCK AND PREPARED SUBGRADE - REFER TO STRUCTURAL DRAWINGS. SLOPE 1-2% TO DRAIN
401	(N) 8X8X16 SOLID GROUTED CMU WALL PER STRUCTURAL PLANS. SLOPE 2% TO FLOOR DRAINS AS SHOWN.
402	(E) ADJACENT BUILDING MASONRY WALL TO REMAIN. MAINTAIN 6" CLEAR SEPARATION FROM EXISTING TO NEW CONSTRUCTION
501	STRUCTURAL STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
801	HOLLOW METAL DOOR AND FRAME, 5LBS MAX OPENING FORCE - PAINT SEMI-GLOSS TO MATCH ADJACENT SURFACE
802	AUTOMATIC ROLL-UP DOOR. SEE OUTLINE SPEC ON A0
1501	FLOOR DRAIN, CONNECT TO SANITARY SEWER PER PLUMBING PLANS
1502	FLOOR SINK, SEE PLUMBING DWGS
1503	RWL FROM SCUPPER ABOVE, SECURE TO WALL, PAINT TO MATCH ADJACENT WALL COLOR. SLASH TO CONCRETE AT GRADE
1603	100 AMP PANEL MOUNTED TO WALL. REFER TO ELECTRICAL PLANS

All drawings and written material appearing herein constitute the original and unpublished work of element one architecture and the same may not be duplicated, used, or disclosed without the written consent of element one

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV #	DATE	DESCRIPTION
△	2/3/23	1st City Submittal
△1	4/7/23	City PC Response
△2	5/12/23	City PC Resp #2
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△		
△		

Title

FLOOR PLAN,
SLAB PLAN

Job #:	00000
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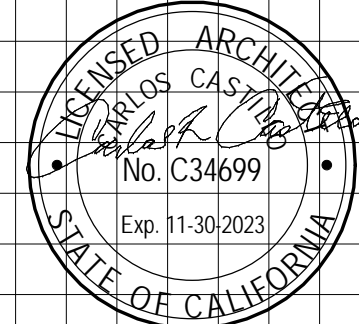
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NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

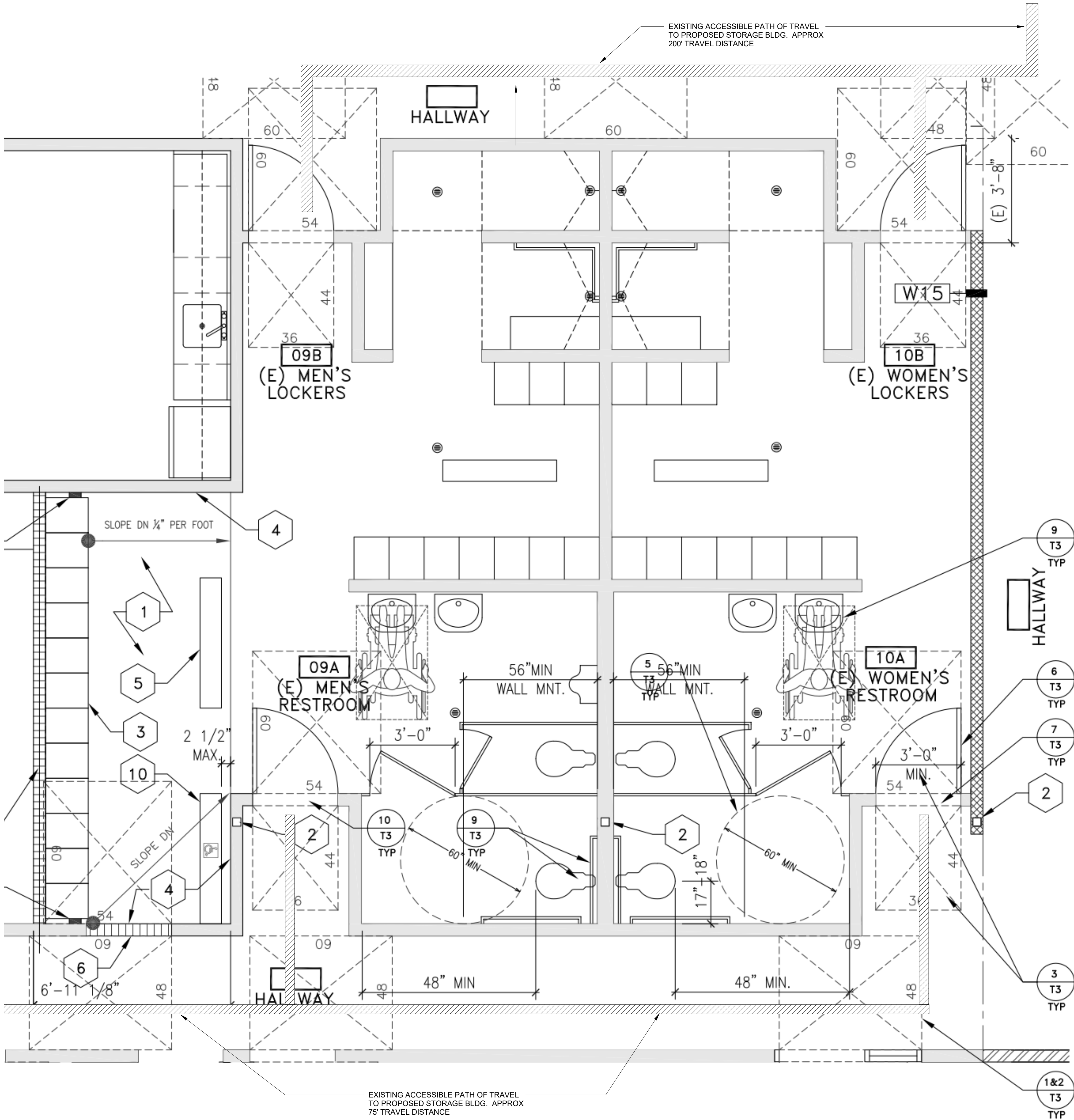
REV #	DATE	DESCRIPTION
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△	4/7/23	City PC Response
△	5/12/23	City PC Resp #2
△		
△		
△		

Title
EXISTING
TOILET ROOMS

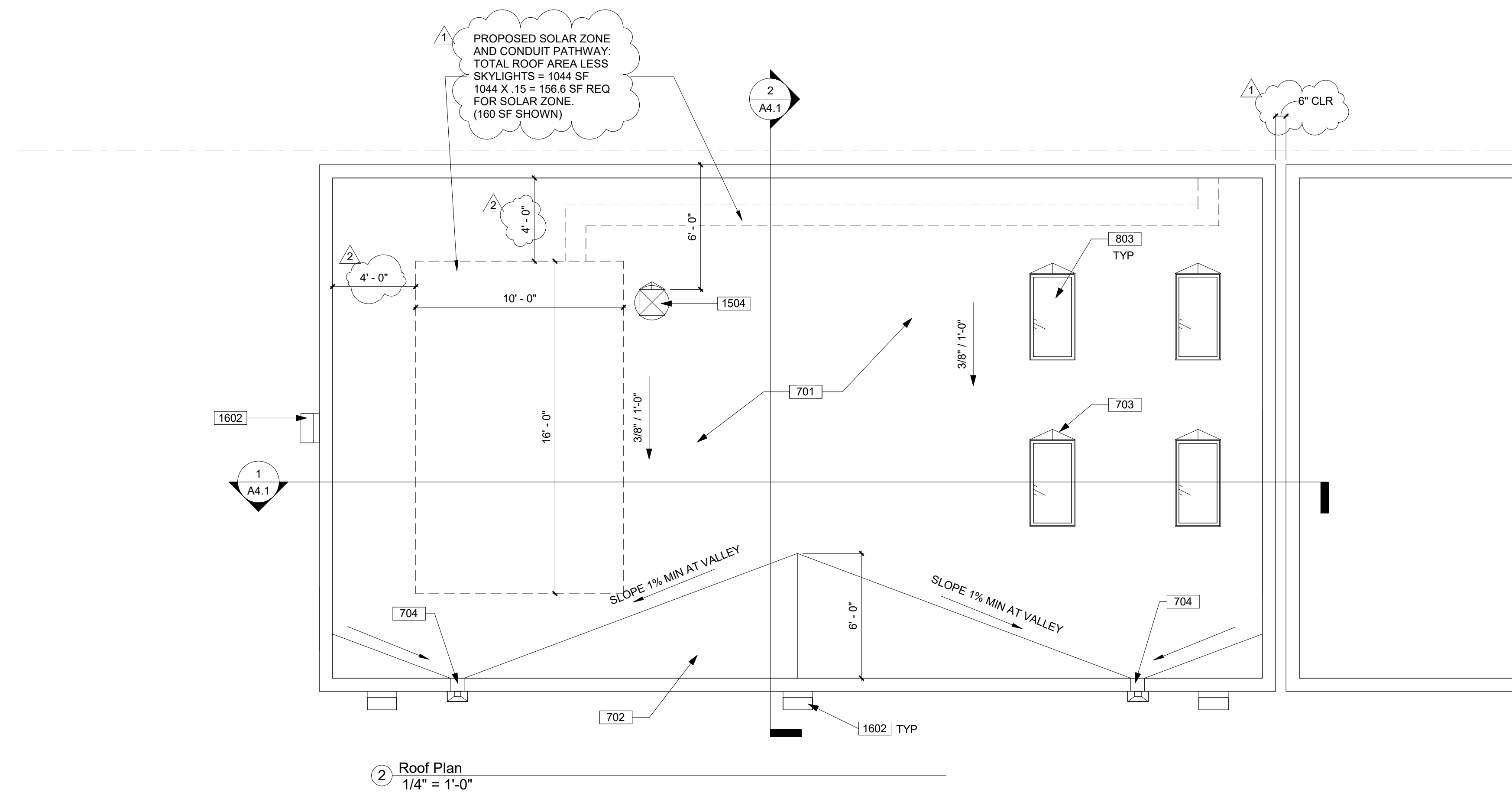
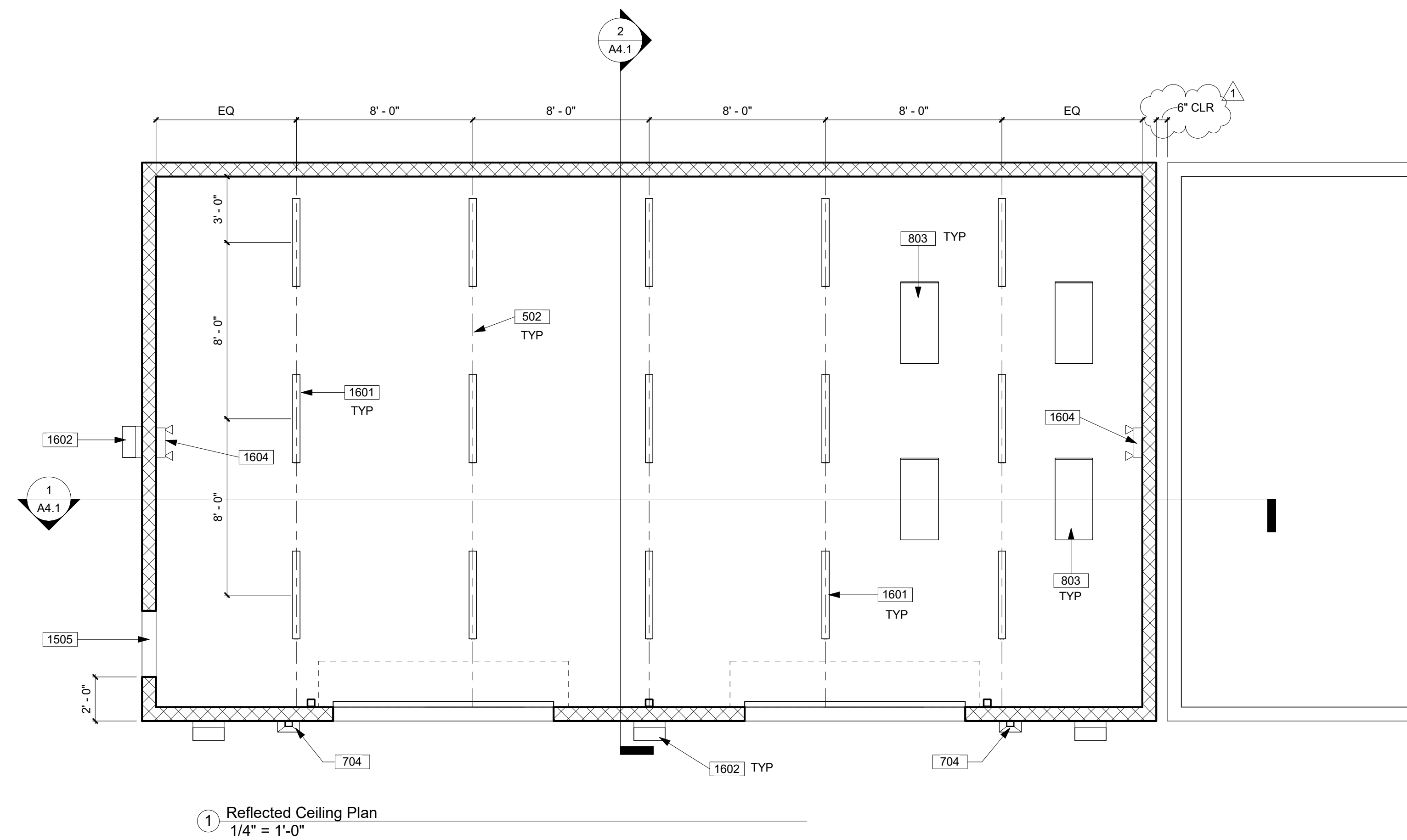
Job #:

Print Date:

A1.2



1 EXISTING TOILET ROOMS
1/2" = 1'-0"



Keynote Legend	
Key Value	Keynote Text
502	STEEL ROOF STRUCTURE
701	SINGLE PLY ROOFING SYSTEM PER OUTLINE SPEC ON SHEET A0, OVER VERO METAL DECK PER STRUCTURAL DWGS. SLOPE AS SHOWN
702	DRAINAGE CRICKET
703	CRICKET AT SKYLIGHT
704	THRU-WALL DRAIN AND GSM SCUPPER PER DETAIL 4/A5.1
803	4'X2' CURB-MOUNTED SKYLIGHT
1504	ROOF MOUNTED EXHAUST FAN. INSTALL PER MFR RECOMMENDATIONS, REFER TO MECHANICAL PLANS
1505	21"X36" LOUVER PER MECHANICAL PLANS. PAINT TO MATCH WALL COLOR
1601	4' LED LIGHT MOUNTED TO UNDERSIDE OF STEEL BEAM, REFER TO ELECTRICAL PLANS
1602	LED WALL WALL PACK PER ELECTRICAL
1604	EMERGENCY LIGHTING WITH BATTERY BACK-UP PER ELECTRICAL PLANS

element | one

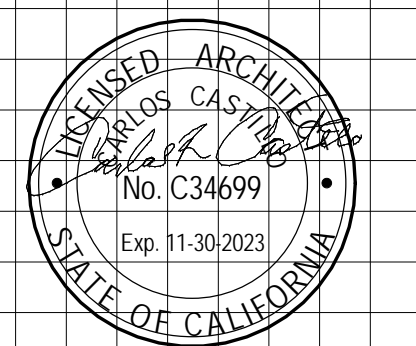
architecture

23990 clawiter road
hayward, california 94545
tel. 650.420.1075

All drawings and written material appearing herein constitute the original and unpublished work of element one architecture and the same may not be duplicated, used, or disclosed without the written consent of element one

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:
ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

IV #	DATE	DESCRIPTION
1	2/3/23	1st City Submittal
2	4/7/23	City PC Response
	5/12/23	City PC Resp #2

title
RCP & ROOF
PLAN

Lab #:	00000
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Print Date: date

A2.1

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

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ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

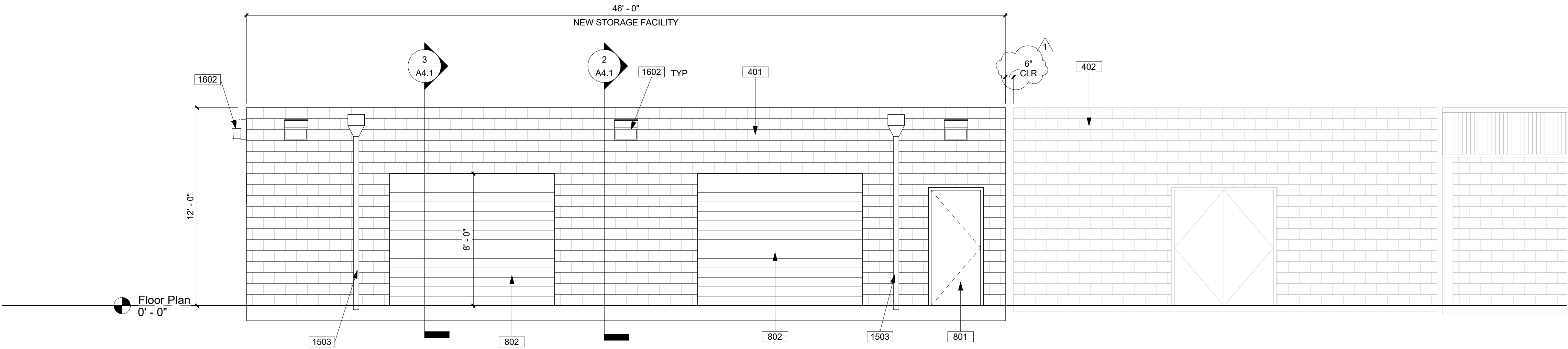
REV #	DATE	DESCRIPTION
△	2/3/23	1st City Submittal
①	4/7/23	City PC Response
②	5/12/23	City PC Resp #2
△		
△		

Title
Elevations

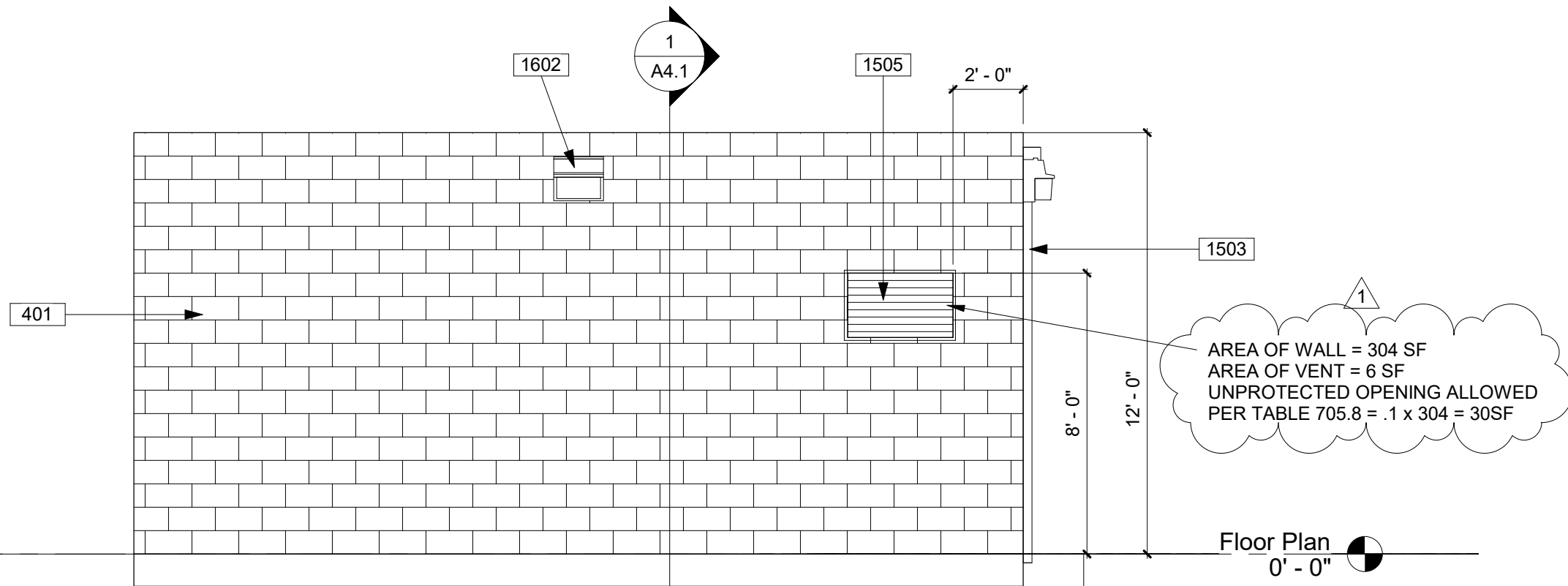
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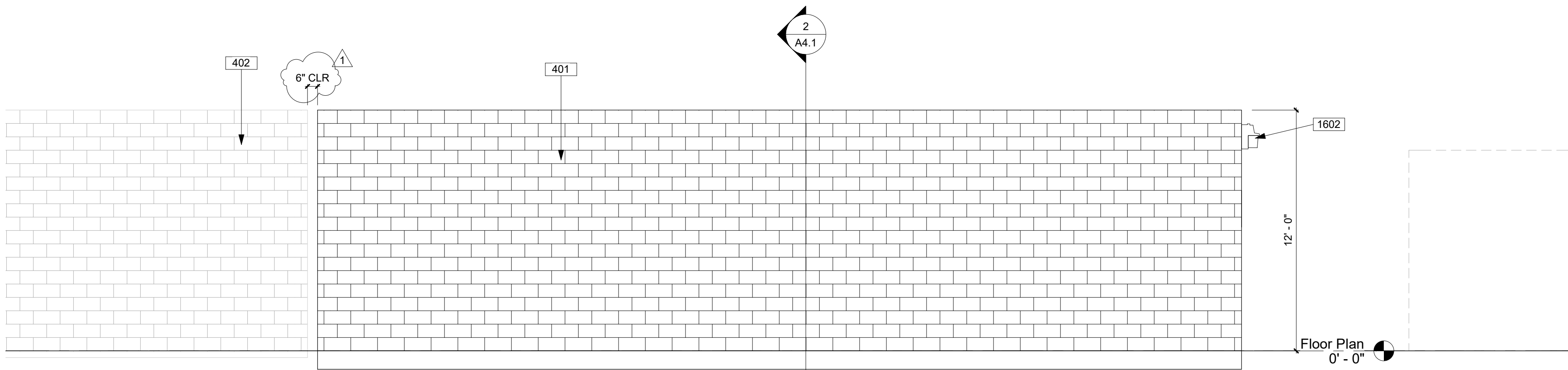
A3.1



① SOUTH ELEVATION
1/4" = 1'-0"



② WEST ELEVATION
1/4" = 1'-0"



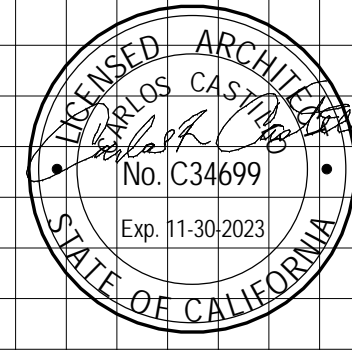
③ NORTH ELEVATION
1/4" = 1'-0"

Keynote Legend	
Key Value	Keynote Text
401	(N) 8X8X16 SOLID GROUTED CMU WALL PER STRUCTURAL PLANS. SLOPE 2% TO FLOOR DRAINS AS SHOWN.
402	(E) ADJACENT BUILDING MASONRY WALL TO REMAIN. MAINTAIN 6" CLEAR SEPARATION FROM EXISTING TO NEW CONSTRUCTION
801	HOLLOW METAL DOOR AND FRAME, 5LBS MAX OPENING FORCE - PAINT SEMI-GLOSS TO MATCH ADJACENT SURFACE
802	AUTOMATIC ROLL-UP DOOR. SEE OUTLINE SPEC ON A0
1503	RWL FROM SCUPPER ABOVE, SECURE TO WALL, PAINT TO MATCH ADJACENT WALL COLOR. SLASH TO CONCRETE AT GRADE
1505	21"X36" LOUVER PER MECHANICAL PLANS. PAINT TO MATCH WALL COLOR
1602	LED WALL WALL PACK PER ELECTRICAL

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

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REVISIONS

REV #	DATE	DESCRIPTION
△	2/3/23	1st City Submittal
①	4/7/23	City PC Response
△	5/12/23	City PC Resp #2
△		
△		

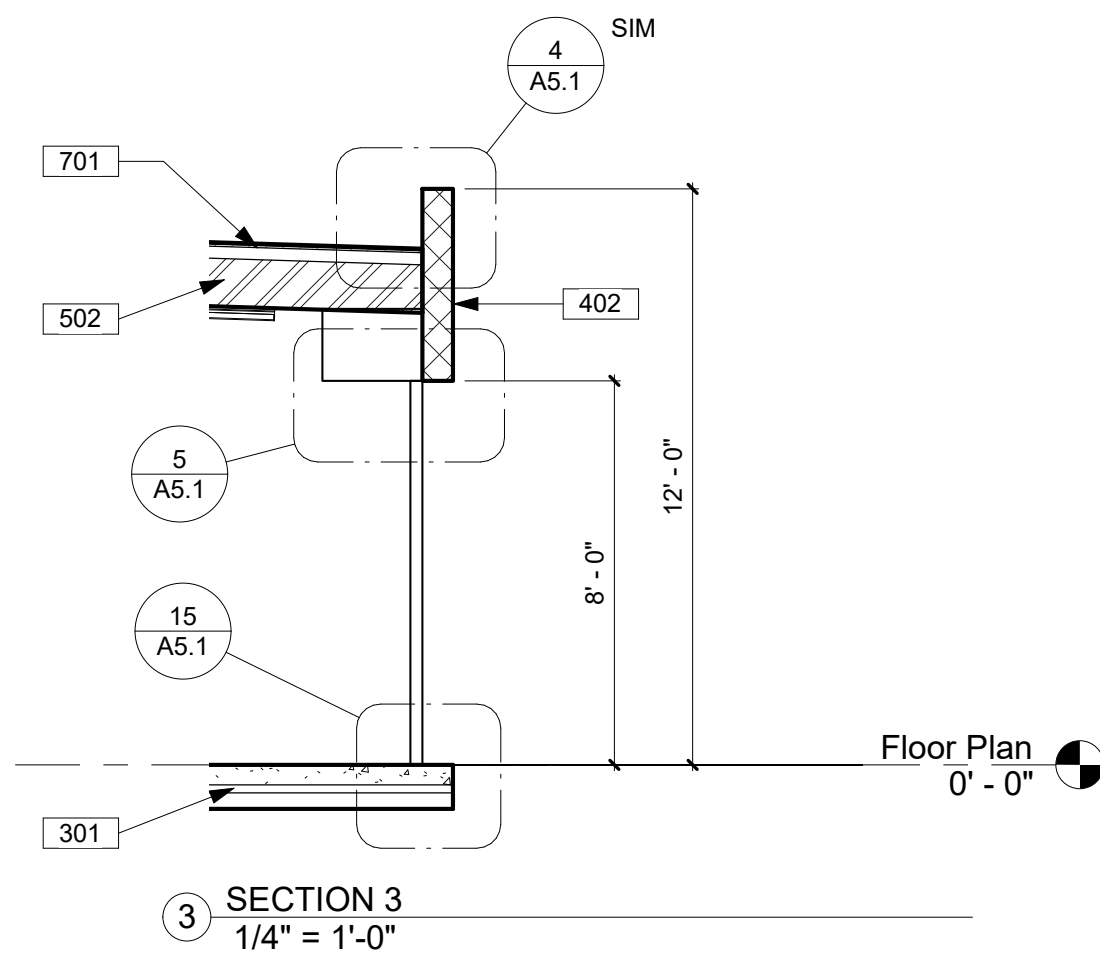
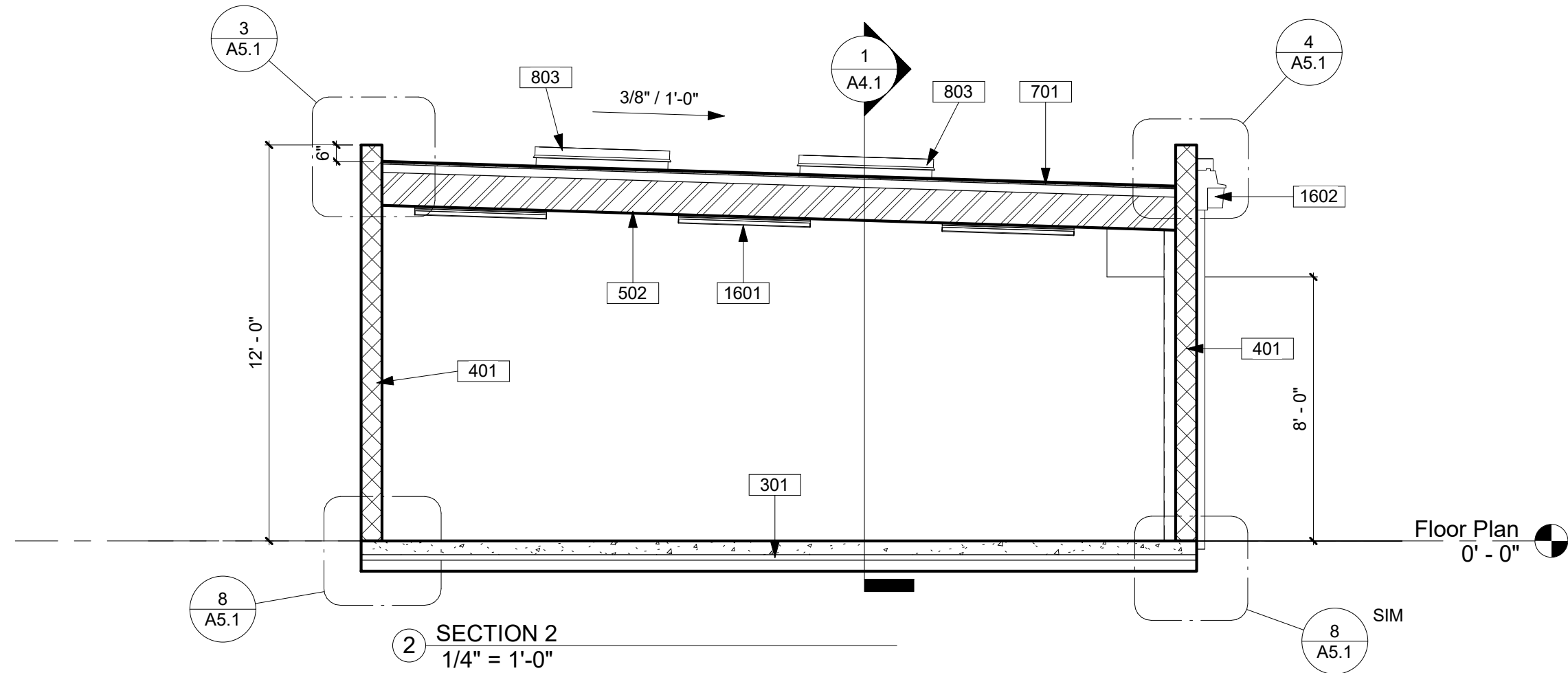
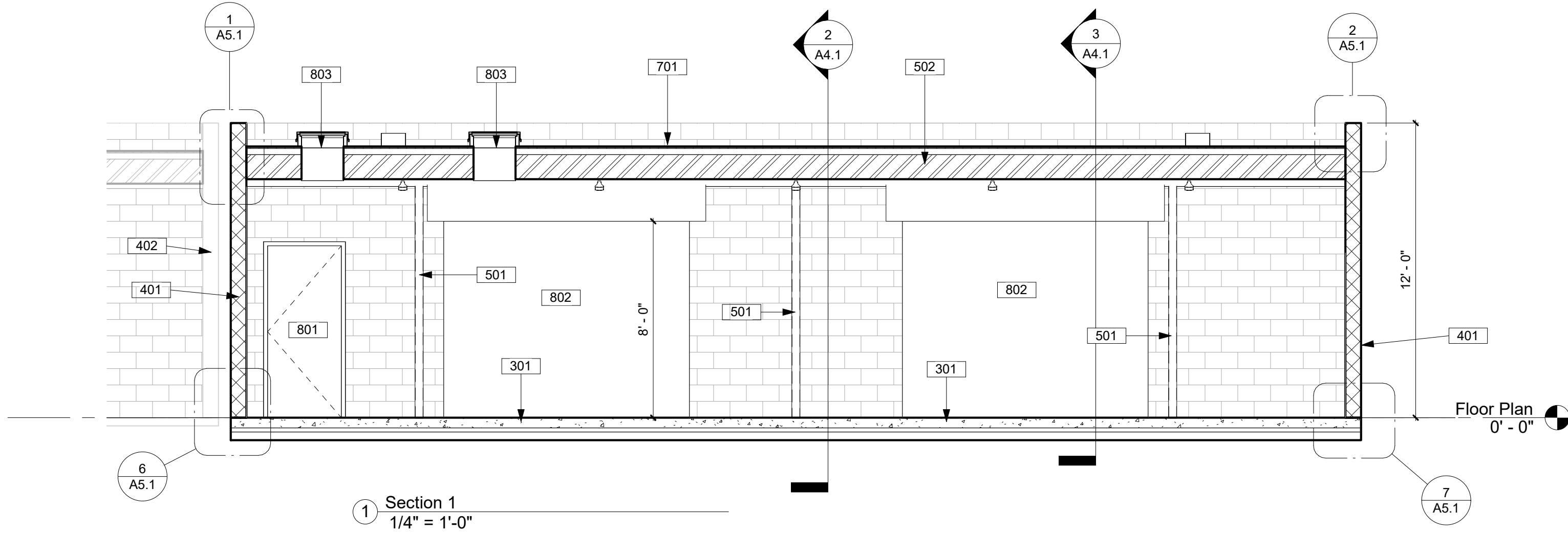
Title
**SECTIONS,
DOOR SCHED**

Job #; 00000

Print Date: date

A4.1

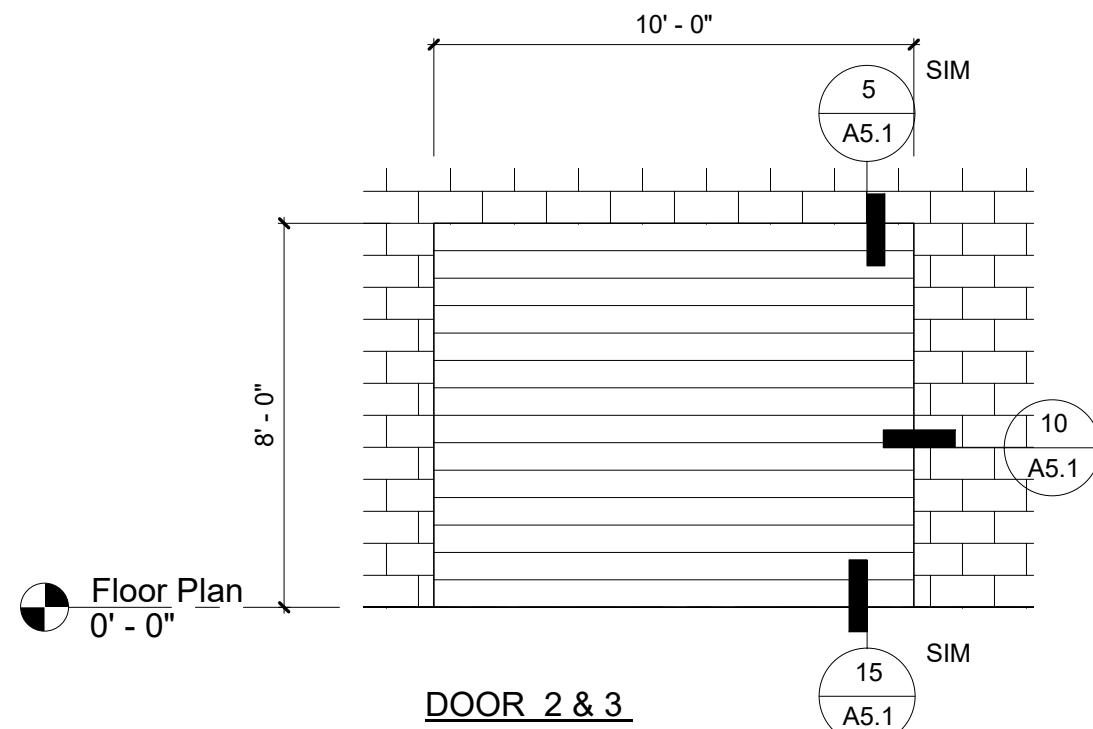
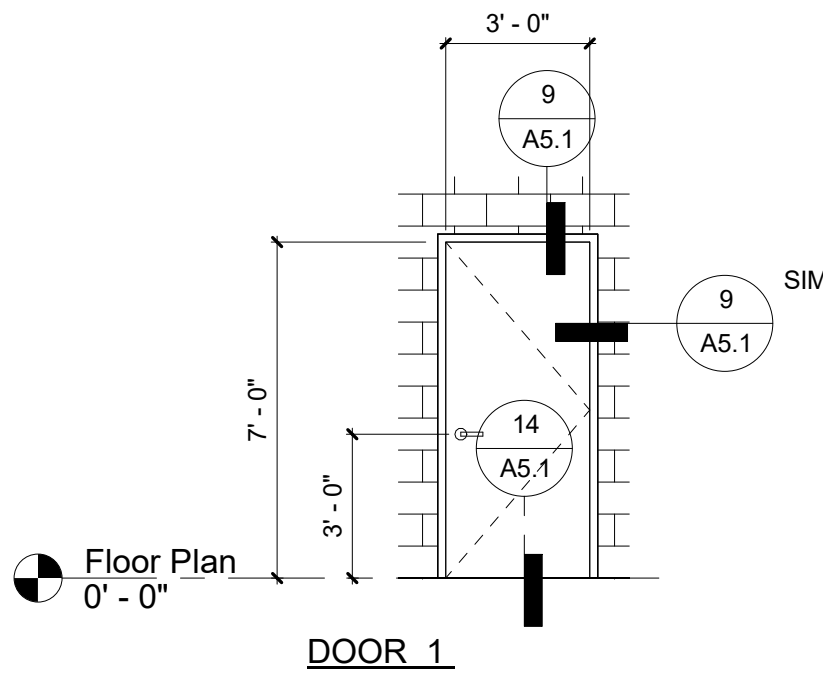
Keynote Legend	
Key Value	Keynote Text
301	REINFORCED CONCRETE SLAB OVER 2" SAND OVER BASE ROCK AND PREPARED SUBGRADE - REFER TO STRUCTURAL DRAWINGS. SLOPE 1-2% TO DRAIN
401	(N) 8X8X16 SOLID GROUTED CMU WALL PER STRUCTURAL PLANS. SLOPE 2% TO FLOOR DRAINS AS SHOWN.
402	(E) ADJACENT BUILDING MASONRY WALL TO REMAIN. MAINTAIN 6" CLEAR SEPARATION FROM EXISTING TO NEW CONSTRUCTION
501	STRUCTURAL STEEL COLUMN - REFER TO STRUCTURAL DRAWINGS
502	STEEL ROOF STRUCURE
701	SINGLE PLY ROOFING SYSTEM PER OUTLINE SPEC ON SHEET A0, OVER VERO METAL DECK PER STRUCTURAL DWGS. SLOPE AS SHOWN
801	HOLLOW METAL DOOR AND FRAME, 5LBS MAX OPENING FORCE - PAINT SEMI-GLOSS TO MATCH ADJACENT SURFACE
802	AUTOMATIC ROLL-UP DOOR. SEE OUTLINE SPEC ON A0
803	4'X2' CURB-MOUNTED SKYLIGHT
1601	4' LED LIGHT MOUNTED TO UNDERSIDE OF STEEL BEAM, REFER TO ELECTRICAL PLANS
1602	LED WALL WALL PACK PER ELECTRICAL



Door Schedule														
Door Number	Width	Height	Thickness	Door			Fire Rating	Hardware	Frame					Comments
				Material	Finish	Under Cut			Type	Material	Finish	Jamb	Head	
1	3' - 0"	7' - 0"	0' - 2"	Hollow Metal	Paint	No	NA	See Spec	Welded	Metal	Paint	9/A5.1	9/A5.1	
2	10' - 0"	8' - 0"	0' - 0 3/4"	Insulated Roll-Up	Per Spec	NA		See Spec			See Spec	15/A5.1	5/A5.1	
3	10' - 0"	8' - 0"	0' - 0 3/4"	Insulated Roll-Up	Per Spec	NA		See Spec			See Spec	15/A5.1	5/A5.1	

General Notes

- THE MAXIMUM FORCE FOR PUSHING / PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
 - INTERIOR HINGED DOORS AND GATES = 5 LBS
 - REQUIRED FIRE DOORS = 15 LBS
 - EXTERIOR HINGED DOORS = 5 LBS
- FIRE DOORS SHALL BE LABELED SHOWING MANUFACTURER, TESTING AUTHORITY AND RATING IN ACCORDANCE WITH NFPA 80.



HINGES: 1 1/2 PAIR HAGER BB1191NRP BEARING BUTTS, 4 1/2" x 4 1/2", STAINLESS STEEL
LOCKSET: SCHLAGE ND53 ENTRANCE LOCK, WITH SPARTA LEVER HANDLE, SATIN NICKEL FINISH
CYLINDER: BEST 6 PIN
WEATHERSTRIPPING: PEMKO S88
CLOSER: LCN DELAYED ACTION BARRIER FREE 5 LBS. MAX OPERATING FORCE
THRESHOLD: PEMKO 274 H.C. ACCESSIBLE (1/2" MAX, WITH 1:2 BEVEL), MILL FINISH
DOOR STOP: IVES FS17
DOOR BOTTOM: PEMKO 412 SURFACE MOUNT

DOOR: OVERHEAD DOOR MFR, 625 SERIES, INSULATED, COLOR: GREY
FRAME : DOOR MFR STANDARD
OPERATION: ELECTRIC WITH CHAIN HOIST OVER-RIDE
LOCK: SLIDE BOLT

GENERAL NOTES

1. **THE** NOTES AND SPECIFICATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
2. **CODE-** CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE CALIFORNIA BUILDING CODE, 2022 EDITION AND STANDARDS REFERENCED THEREIN.
3. **GENERAL DETAILS-** AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS.
4. **DISCREPANCIES-** THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.
5. **SHORING-** IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING(S). CONSTRUCTION LOADS SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING.
6. **EXCAVATION-** THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
7. **OTHER TRADES-** SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
8. **BACKFILL-** WHERE REQ'D BACKFILL AROUND THE EXTERIOR PERIMETER OF WALL SHALL NOT BE PLACED UNTIL AFTER THE COMPLETION OF THE ELEVATED FLOOR SYSTEM, SUPPORTED BY THE WALLS. AS A MINIMUM, DO NOT PROCEED WITH BACKFILL UNTIL SEVEN (7) DAYS AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS, UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING, WHERE WATERPROOFING OCCURS.
9. **BRACING-** TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED. (DESIGNED BY OTHERS)
10. **WELDING-** ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE; SEE SPECIFICATIONS FOR WELDING PROCESS TO BE USED. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE PLANS OR WHERE SPECIFICALLY APPROVED BY THE ENGINEER.
11. **MATERIALS AND WORKMANSHIP WARRANTY-** CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS AND CORRECT POOR WORKMANSHIP WITH NO ADDITIONAL COSTS TO THE OWNER, AND SHALL REMEDY ANY DEFECTS IN MATERIAL OR WORKMANSHIP WHICH APPEAR IN ONE YEAR FROM THE DATE OF COMPLETION OF THE JOB. THIS WARRANTY APPLIES TO THE WORK DONE BY THE SUBCONTRACTORS AS WELL AS THE WORK DONE BY THE EMPLOYEES OF THE CONTRACTOR.
12. **SAFETY-** THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY, AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
13. **INSPECTIONS-** ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE FOR SPECIAL INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.
14. **SHOP DRAWINGS-** SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERCEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

INSPECTION NOTES

REQUIRED VERIFICATION AND INSPECTION OF SOILS			
VERIFICATION AND INSPECTION TASK		Continuous	Periodic
1.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2.	Verify excavations are extended to proper depth and have reached proper material.	-	X
3.	Perform classification and testing of compacted fill materials.	-	X
4.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	-	-
5.	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X

Inspections per Table(s) 1705.6, 1705.7 and 1705.8 required

REQUIRED VERIFICATION AND INSPECTION FOR CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC
1.	Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X
2.	Inspection of reinforcing steel welding in accordance with Table 1705.2.2, item 2b.	-	-
3.	Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	-	X
4.	Inspection of anchors post-installed in hardened concrete members ^a .	-	X
5.	Verifying use of required design mix.	-	X
6.	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-
7.	Inspection of concrete and shotcrete placement for proper application techniques.	X	-
8.	Inspection for maintenance of specified curing temperature and techniques.	-	X
9.	Inspection of prestressed concrete:	-	-
a.	Application of prestressing forces (PT Tendon stressing)	-	-
b.	Grouting of bonded prestressing tendons in the seismic force-resisting system	-	-
10.	Erection of precast concrete members.	-	-
11.	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	X
12.	Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X
13.	Inspection of adhesive anchors in horizontal and upwardly inclined positions. ^c	-	X
^a Where applicable, see also Section 1705.11, Special inspections for seismic resistance			
^b Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 308.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.			
^c Installation of all adhesive anchors in horizontal and upwardly inclined positions shall be performed by an ACI/CRSI certified adhesive anchor installer.			

REQUIRED VERIFICATION AND INSPECTION FOR STEEL CONSTRUCTION			
VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC
1.	Material verification of high-strength bolts, nuts and washers:		
a.	Identification markings to conform to ASTM standards specified in the approved construction documents	-	X
b.	Manufacturer's certificate of compliance required.	-	X
2.	Inspection of high-strength bolting:		
a.	Snug-tight joints.	-	X
b.	Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation	-	X
c.	Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	-	-
3.	Material verification of structural steel and cold-formed steel deck:		
a.	For structural steel, identification markings to conform to AISC 360.	-	X
b.	For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	-	X
c.	Manufacturer's certified test reports.	-	X
4.	Material verification of weld filler materials:		
a.	Identification markings to conform to AWS specification in the approved construction documents.	-	X
b.	Manufacturer's certificate of compliance required.	-	X
5.	Inspection of Welds		
a.	Structural steel and cold-formed steel deck:		
1)	Complete and partial joint penetration groove welds.	-	-
2)	Multipass fillet welds.	-	-
3)	Single-pass fillet welds > 5/16".	-	-
4)	Plug and slot welds.	-	-
5)	Single-pass fillet welds ≤ 5/16".	-	X
6)	Floor and roof deck welds.	-	X
b.	Reinforcing steel:		
1)	Verification of weldability of reinforcing steel other than ASTM A 706.	-	X
2)	Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special structural walls of concrete and shear reinforcement.	X	-
3)	Shear reinforcement.	X	-
4)	Other reinforcing steel.	-	X
6.	Inspection of steel frame joint details for compliance:		
a.	Details such as bracing and stiffening.	-	-
b.	Member locations.	-	-
c.	Application of joint details at each connection.	-	-
^a Where applicable, see also section 1705A.11, Special inspections for seismic resistance.			

ABBREVIATIONS

SYMBOL	DEFINITION
Ø	AT
A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
A.S.T.M.	AMERICAN STANDARD FOR TESTING AND MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
B.	BOTTOM
B.C.T.	BETWEEN
BLDG.	BUILDING
C.G.S.	CENTROID OF TENDON
C.I.P.	CAST-IN-PLACE CONCRETE
C.B.C.	CALIFORNIA BUILDING CODE
C.J.	CONSTRUCTION JOINT
C.C.	CENTERLINE
CL	CLEAR
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTR.	CENTER
CTR'D.	CENTERED
CU.FT.	CUBIC FEET
CU.IN.	CUBIC INCH
CU.YD.	CUBIC YARD
db	BAR DIAMETER
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.L.	DEAD LOAD
DN.	DOWN
DWG.(S)	DRAWING(S)
E.A.	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEV.	ELEVATOR
ENGR.	ENGINEER
E.O.R.	ENGINEER OF RECORD
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
E-W	EAST-WEST
EXT.	EXTERIOR
F.O.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH
FLR.	FLOOR
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.B.	GRADE BEAM
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
IN.	INCH(ES)
INT.	INTERIOR
JT.	JOINT
K.	KIP (1,000 LBS)
K/FT, K/	KIPS PER FOOT
LG.	LONG
LIN.	LINEAR
L.L.	LIVE LOAD
L.P.	LOW POINT
LT.WT.	LIGHT WEIGHT
M.B.	MACHINE BOLT
M.D.	MID-DEPTH
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.A.	NEUTRAL AXIS
NO., #	NUMBER
N-S	NORTH-SOUTH
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG.	OPENING
OPP.	OPPOSITE
ORIG.	ORIGINAL
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	POST-TENSIONING
R.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCE(D) / REINFORCING
REQ'D.	REQUIRED
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
S.M.D.	SEE MECHANICAL DRAWINGS
S.E.D.	SEE ELECTRICAL DRAWINGS
S.L.D.	SEE LANDSCAPE DRAWINGS
SEC.	SECTION
SHT.	SHEET
SH.	SIMILAR
S.J.	SLAB JOINT
S.O.G.	SLAB-ON-GRADE
SPECS.	SPECIFICATIONS
SO.	SQUARE
TAG.	STAGGER(ED)
STD.	STANDARD
STL.	STEEL
STR.	STRAIGHT
SYM.	SYMMETRICAL
T (T)	TOP
T.S.	STRUCTURAL TUBE
TYP.	TYPICAL
U.B.C.	UNIFORM BUILDING CODE
U.N.O.	UNLESS NOTED OTHERWISE
W/	WITH
W.J.	WALL JOINT

FOUNDATION NOTES:

1. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. ALL BACKFILL SHALL HAVE 95% COMPACTION.
2. **ALLOWABLE SOIL BEARING PRESSURE-**
ALLOWABLE FOUNDATION PRESSURE:..... 1,500 PSF (TABLE 1806A.2 CBC 2022)
D.L. + L.L. CONTINUOUS
D.L. + L.L. WIND OR SEISMIC 2,000 PSF
COEFFICIENT OF SLIDING FRICTION..... 0.30
3. FOOTINGS SHALL BE EMBEDDED A MINIMUM OF 24" BELOW LOWEST ADJACENT GRADE AND SHALL BEAR ON COMPACTED SUBGRADE.
4. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.

STRUCTURAL OBSERVATIONS

THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THIS STRUCTURAL DESIGN, OR ANOTHER REGISTERED ENGINEER OR ARCHITECT DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN SECTION 1702. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR & THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE & IDENTIFYING ANY REPORTED DEFICIENCIES THAT TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

- STRUCTURAL OBSERVATIONS SHALL BE PERFORMED AT THE FOLLOWING STAGES OF CONSTRUCTION:
- PRIOR TO POURING OF FOUNDATION & SLAB ON GRADE..
 - COMPLETE INSTALLATION OF C.M.U. WALLS AND ROOF BEAMS..

STRUCTURAL OBSERVATION DOES NOT WAIVE NOR REPLACE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR. STRUCTURAL OBSERVATION IS NOT AN INSPECTION. IT IS FAMILIARIZATION WITH THE PROGRESS & QUALITY OF THE WORK AND CLARIFICATION OF THE DOCUMENTS & GENERAL CONFORMANCE TO DESIGN INTENT. SEE "INSPECTION NOTES" FOR INSPECTION CRITERIA & NOTE THAT CONTINUOUS SPECIAL INSPECTION PERFORMED BY A QUALIFIED DEPUTY IS REQUIRED FOR ALL PRIMARY STRUCTURAL ELEMENTS, ETC. THE CONTRACTOR & INSPECTOR WILL ASSURE THAT CERTIFIED RECORD OF CONTINUOUS SPECIAL INSPECTION OF THE WORK TO BE OBSERVED IS MADE AVAILABLE TO THE OBSERVER BEFORE REQUESTING OBSERVATION. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED.

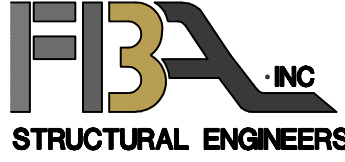
DESIGN DATA

SEISMIC DESIGN: DESIGN IS IN ACCORDANCE TO ASCE 7-18 & CBC 2022

DESCRIPTION	DATA
SEISMIC FORCE RESISTING SYSTEM	SPECIAL REIN. CONC. SHEARWALLS
RESPONSE MODIFICATION COEFFICIENT	R = 5.0
OCCUPANCY CATEGORY	II
IMPORTANCE FACTOR	I = 1.0
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION-SHORT PERIOD	S _s = 1.73 g
MAPPED SPECTRAL RESPONSE ACCELERATION-1sec. PERIOD	S ₁ = 0.66 g
SHORT-PERIOD SITE COEFFICIENT	F _a = 1.2
LONG-PERIOD SITE COEFFICIENT	F _v = --
DESIGN SPECTRAL RESPONSE ACCELERATION-SHORT PERIOD	S _{ms} = 1.39g
DESIGN SPECTRAL RESPONSE ACCELERATION-1 SECOND	S _m = --
SEISMIC DESIGN CATEGORY	D
SEISMIC FORCE AMPLIFICATION FACTOR	Ω _s = 2.5
SEISMIC RESPONSE COEFFICIENT	C _s = 0.277
DESIGN BASE SHEAR	V = 30 KIPS
ANALYSIS PROCEDURE USED	ELF.A

INDEX

- General Notes SC-1.1
Material Notes & Specifications SC-1.2
General Details SC-1.3
C.M.U. Wall Sections and Details SC-1.4
C.M.U. Wall Sections and Details SC-1.5
Foundation Plan and Roof Framing Plan... SC-2.0



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△	4/7/23	Plan Check Response
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△		
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Title
GENERAL NOTES

Job #; 2023-01

Print Date: 4-7-2023

SC-1.1

MATERIAL NOTES AND SPECIFICATIONS

CONCRETE AND REINFORCEMENT

1. **CONCRETE PLACEMENT AND QUALITY:** SPECIFIED IN PROJECT SPECIFICATIONS.
2. **DEBRIS:** REMOVE ALL DEBRIS FROM FORMS BEFORE POURING.
3. **SEGREGATION OF AGGREGATES:** CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARYING LENGTH SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THAT THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
4. **INSERTS:** ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
5. **DOWELING:** ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS, WALLS, BEAMS, OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE. USE A THIRTY SIX (36) BAR DIAMETER LAP WHERE NOT SPECIFICALLY INDICATED ON PLANS OR DETAILS.
6. **SPLICES:** VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. SPICE BARS IN MEMBERS SUCH AS SPANDRELS, BEAMS, ETC., AS FOLLOWS: TOP BARS AT CENTERLINE OF SPAN, BOTTOM BARS AT THE SUPPORT. ALL REINFORCING STEEL SHALL BE SECURELY WIRED AND PROPERLY SUPPORTED ABOVE GROUND AND AWAY FROM THE FORMS. SPLICES IN HORIZONTAL WALL BARS SHALL BE CLASS B (30" MIN.) & SHALL BE STAGGERED BY 5'-0" MIN. HORIZONTAL SPLICES IN TWO CURTAINS WHERE USED SHALL NOT OCCUR IN THE SAME LOCATION AND SHALL BE STAGGERED 5'-0" MIN.
7. **CONSTRUCTION JOINTS:** CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF CONSTRUCTION JOINT LOCATIONS IN SLABS AND BEAMS.
8. **TEMPERATURE AND SHRINKAGE REINFORCEMENT:** SHALL HAVE A LAP OF THIRTY (30) BAR DIAMETERS, BUT NOT LESS THAN 18 INCHES, AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN FIVE (5) FEET APART.
9. **REBAR GRADES:** ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A706 OR *ASTM A615* MEETING ACI 318-11 SEC. 21.1.5. AS FOLLOWS:

#3 & SMALLER BARS.....GRADE 60

#4 & LARGER BARS.....GRADE 60

* BILLET STEEL A615 GRADES 40 & 60 REINFORCEMENT SHALL BE PERMITTED TO BE USED IN MOMENT FRAMES & CONCRETE WALLS IF (1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI, AND (2) THE RATIO OF THE ACTUAL ULTIMATE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
10. **WELDED WIRE FABRIC:** WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.
11. **WELDING:** TACK WELDING OF REBAR IS NOT PERMITTED UNLESS CALLED FOR OR APPROVED BY THE ENGINEER.
12. **REBAR COVER:** MINIMUM REBAR COVER FOR PRESTRESSED CONCRETE SHALL BE AS SHOWN IN THIS TABLE:

EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE (-)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8 INCH
EXPOSED TO EARTH OR WEATHER:		
NO. 5 AND SMALLER BARS	1-1/2"	1/4 INCH
NO. 6 AND LARGER BARS	2"	1/4 INCH
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
STRUCTURAL SLABS & WALLS	1"	1/8 INCH
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS)	1-1/2"	1/4 INCH
SLABS-ON-GRADE	1-1/2"	1/4 INCH

13. **TOLERANCES FOR REBAR PLACEMENT:** TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS TWO (2) INCHES, EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE TOLERANCES SHALL BE ±1/2 INCH.

CONCRETE (cont'd.)

14. **CONCRETE QUALITY:**SHALL BE AS SHOWN IN TABLE BELOW: FOR SLABS & WALLS, PROVIDE NORMAL WEIGHT CONCRETE WITH PROVEN SHRINKING CHARACTERISTICS OF LESS THAN 0.04%, ATTAINING MIN. COMPRESSIVE STRENGTH AT 28 DAYS (F'c), U.N.O.

CONCRETE USE	STRENGTH AT 28 DAYS U.N.O.	SLUMP	W/C RATIO	AGGREGATE SIZE	AGGREGATE TYPE	FLY ASH AND/ OR SLAG %
SLAB ON GRADE	3000 PSI	4"	0.45 MAX.	1"	HARDROCK	20%
CONTINUOUS AND SPREAD FOOTINGS	3000 PSI	4"	0.50 MAX.	1"	HARDROCK	50%
15. **CONCRETE WEIGHT:**ALL CONCRETE SHALL BE OF REGULAR WEIGHT, 150 POUNDS PER CUBIC FOOT UNLESS NOTED OTHERWISE.
16. **AGGREGATE:** SIZE OF AGGREGATE SHALL CONFORM TO ASTM C33-03.

3/4".....ASTM SIZE 67

1".....ASTM SIZE 57
17. **CEMENT:**SHALL BE TYPE II.
18. **CONCRETE AGE:**NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY TESTING AGENCY.
19. **WET SET:** REINFORCEMENT MAY NOT BE WET SET IN CONCRETE POURS.
20. **ROUGHENED SURFACES:**WHERE INDICATED ON THE DRAWINGS, ROUGHENED SURFACES SHALL BE PROVIDED BY MEANS OF HEAVY RAKING OR GROOVING. SURFACES SHALL BE ROUGHENED TO A 1/4" AMPLITUDE. OTHER METHODS MAY BE ACCEPTABLE PENDING WRITTEN APPROVAL FROM THE ENGINEER. ALL INTERFACING SURFACES MUST BE CLEAN AND FREE OF LOOSE MATERIALS.
21. **ADMIXTURES:**NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE MIX WITHOUT THE APPROVAL OF THE ENGINEER, UNLESS NOTED OTHERWISE. ADMIXTURES OR CONCRETE CONTAINING CHLORIDES SHALL NOT BE USED IN THE POST-TENSIONED SLABS.

COMPATIBILITY: VERIFY COMPATIBILITY OF CURING COMPOUND WITH FINISHES TO BE APPLIED AFTER CURING PERIOD. NOTIFY THE OWNER'S REPRESENTATIVE'S CONSULTANT OF INCOMPATIBILITIES. CORRECT AS DIRECTED BY THE OWNER'S REPRESENTATIVE'S CONSULTANT PRIOR TO PROCEEDING WITH CURING OPERATIONS.
22. **WATER:**FRESH, CLEAN, POTABLE, FREE FROM OIL, INJURIOUS MATERIALS, ACIDS, ALKALIS, SALTS, ORGANIC MATTER OR OTHER DELETRIIOUS SUBSTANCES.
23. **CURING AND SEALING MATERIALS:** CLEAR WATER-BASED CURE-SEAL-HARDENER, MEMBRANE FORMING, 20% SOLIDS, COMPLYING WITH ASTM C-309, TYPE I, CLASS B, EUCLID CHEM-ICAL COMPANY "DIAMOND CLEAR VOX", (NO KNOWN EQUAL).
24. **NON-SHRINK GROUT:**ASTM C-1107
25. **EPOXY:** SIMPSON SET-XP (ESR-2508) OR APPROVED EQUAL.

MASONRY

1. **CONCRETE MASONRY UNITS:** ALL BLOCKS SHALL CONFORM TO GRADE N UNITS GIVEN IN ASTM C90, LATEST EDITION, AND IN ADDITION SHALL HAVE A LINEAR SHRINKAGE OF 0.065% MAXIMUM FROM SATURATED TO THE OVEN DRY CONDITION. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN (28) DAYS WHEN PLACED IN THE STRUCTURE. PROVIDE ALL BOND BEAM UNITS, LINTELS, ETC., AS REQUIRED.
2. **DEFECTIVE UNITS:** DO NOT USE CHIPPED OR CRACKED BLOCKS. IF ANY SUCH BLOCKS ARE DISCOVERED IN ANY FINISHING WALL, THEY SHALL BE PROMPTLY REMOVED AND REPLACED WITH NEW BLOCKS TO THE APPROVAL OF THE ENGINEER.
3. **CEMENT:** SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I OR TYPE II, AND SHALL BE ENTIRELY OF ONE MANUFACTURER.
4. **WATER:** WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.
5. **AGGREGATES:** SAND FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE. SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO ASTM C404, TABLE 1, COARSE AGGREGATE, EXCEPT WHEN OTHER GRADINGS ARE SPECIFICALLY APPROVED BY THE ENGINEER.

MASONRY (cont'd.)

6. **QUICKLIME:** QUICKLIME SHALL CONFORM TO ASTM C5.
7. **MORTAR:** SHALL BE TYPE M UNLESS OTHERWISE NOTED.
8. **GROUT:** FOR PUMPING SHALL BE FLUID CONSISTENCY AND SHALL NOT HAVE LESS THAN (5) SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. THE MIX SHALL BE REVIEWED BY THE ENGINEER. FLUID CONSISTENCY SHALL MEAN A CONSISTENCY AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS.
9. **ADMIXTURES:** THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUSTAINING DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER. THE USE OF ADMIXTURES IN MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FIRE CLAY, DIRT, AND OTHER DELETERIOUS MATERIALS IS PROHIBITED.
10. **MIXING:** PLACE THE SAND, CEMENT AND WATER IN THE MIXER IN THAT ORDER FOR EACH BATCH OF MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST 2 MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS, BUT IN NO CASE LESS THAN 10 MINUTES. USE MIXERS TO SECURE A UNIFORM CAPACITY. BATCHES REQUIRING FRACTIONAL SACKS WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHED FOR EACH SUCH BATCH. RETEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RETEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN ONE HOUR AFTER INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON THE BOARDS TO A SLUMP OF 2-3/4 INCHES PLUS OR MINUS 1/4 INCH USING A TRUNCATED CONE 4 INCHES BY 2 INCHES; 6 INCHES HIGH.
11. **CONSTRUCTION JOINTS:** WHEN GROUTING IS STOPPED FOR A PERIOD OF ONE HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1-1/2 INCHES MINIMUM BELOW THE UPPER-MOST UNIT.
12. **ALIGNMENT OF VERTICAL CELLS:** ALL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3 INCHES BY 3 INCHES, EXCEPT WHERE OPEN END UNITS ARE USED.
13. **LAYING:** IN PLACING MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLIDLY FILL ALL HEAD JOINTS. LAY ALL MASONRY WITH COMMON OR RUNNING BOND. HOLD RAKING TO A MINIMUM.
14. **WALL CLEANING AND PROTECTION:** REMOVE CONCRETE SCUM AND GROUT STAINS ON THE WALL IMMEDIATELY. AFTER THE WALL IS CONSTRUCTED, DO NOT SATURATE WITH WATER FROM CURING OR, ANY OTHER PURPOSE. CHECK ALL JOINTS FOR TIGHTNESS AND, WHERE CRACKS ARE VISIBLE, CHIP OUT THE MORTAR, TUCK POINT AND TOOL TO MATCH ADJACENT JOINT.
15. **REINFORCEMENT:** REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT. SEE STRUCTURAL NOTES & DETAILS FOR SIZE, GRADE, LAPS, ETC.
16. **GROUT QUALITY:** GROUT FILL FOR CELLS SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN (3) PARTS SAND, TO (2) PARTS PEA GRAVEL, 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE. GROUT FILL USING COARSER AGGREGATE MAY BE USED IF THE MIX IS PROPERLY DESIGNATED AND APPROVED BY THE ENGINEER. THE MAXIMUM SIZE OF AGGREGATE USED SHALL NOT EXCEED 1/5 THE LEAST LATERAL DIMENSION OF THE CELL TO BE FILLED. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT (28) DAYS. REPLACE 30% OF CEMENT CONTENT WITH WITH FLY ASH OR SLAG.
17. **GROUTING:** ALL WALLS SHALL HAVE ALL CELLS FILLED SOLID WITH GROUT.
18. **DOWELS:** ALL VERTICAL WALL REINFORCEMENT SHALL HAVE DOWELS EQUAL IN SIZE EMBEDDED INTO FOOTING UNLESS NOTED OTHERWISE ON THESE PLANS.
19. **STRENGTH:** ULTIMATE COMPRESSIVE STRENGTH (f'm) SHALL BE 1,500 PSI MINIMUM.

MAXIMUM HEIGHT: MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN 5 FEET UNLESS PROPER HIGH-LIFT PROCEDURES ARE USED.
20. **MASONRY REBAR LAP LENGTH:**

BAR SIZE

#4..... 24"

#5..... 30"

#6..... 36"

#7..... 42"

#8..... 48"
21. **REINFORCING COVER:** 2 INCHES THROUGHOUT.

STRUCTURAL STEEL NOTE & STEEL DECK SECHEDULE

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL BE SUPPLIED, DETAILED, FABRICATED & ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS LATEST EDITION.

a. WF BEAMS ASTM A992

b. STEEL TUBES ASTM A500 GR B.

c. STEEL ANGLE ASTM A36

CHANNELS & MISC. STEEL SECTIONS

d. BASE PLATES ASTM A36

& SHEAR TABS

e. BOLTS ASTM A325N

f. WELDED STUDS ASTM A307
2. WELDING SHALL CONFORM TO AWS SPECIFICATION & BE PERFORMED BY CERTIFIED WELDERS.

a. DECKING, GRATING, AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A446, GRADE A. THE STEEL SHALL HAVE A METAL PROTECTIVE COATING OF ZINC CONFORMING TO ASTM A525 CLASS G60.

b. WELD STEEL DECK & GRATING TO SUPPORTS AS FOLLOWS:

1. PLUG WELDS WITH EFFECTIVE FUSION DIAMETER OF 1/2" AT EACH FLUTE AT EACH SUPPORT INCLUDING END SUPPORTS.

2. PLUG WELDS WITH EFFECTIVE FUSION DIAMETER OF 1/2" @ 12" o.c. AT ALL PANEL EDGE FLUTES LANDING ON BEAMS PARALLEL TO FLUTES.

3. MIN. BEARING OF STEEL DECK ON SUPPORTS SHALL BE 2"
3. ALL EXPOSED STEEL TO BE PAINTED WITH ZINC-RICH PAINT. SEE ARCH. DWGS FOR FINISH COATING REQUIREMENTS.



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SC-1.2

1. AT CONTRACTOR'S OPTION USE EITHER SAW CUT OR PLASTIC STRIP CONTROL JOINT
2. LOCATE CONTROL AND CONSTRUCTION JOINTS TO ENCLOSE APPROXIMATELY SQUARE AREAS (WIDTH TO LENGTH RATIOS OF ENCLOSED AREA SHALL NOT EXCEED 1.33)
NO GREATER THAN 300 SQ. FT.

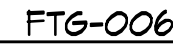
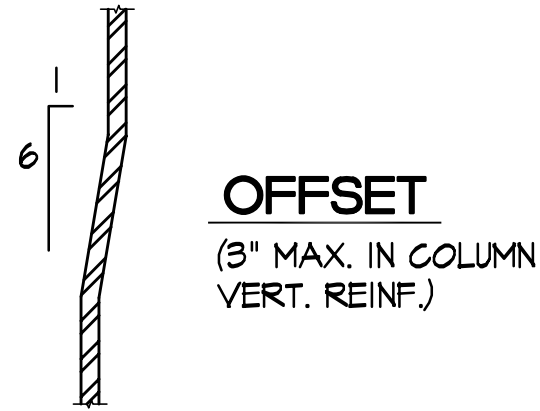


Diagram illustrating the 180° hook detail. The diagram shows a horizontal bar with a 180° hook. Key dimensions and labels include:

- DETAILING** and **DIMENSION** labels at the top.
- Hook** label at the top right.
- A or G** label at the top right, indicating the hook length.
- d** label for the bar diameter.
- 4d OR 2 1/2" MIN.** label for the development length of the hook.
- 180°** label at the bottom, indicating the hook angle.



90°		Grades 40-50-60 ksi			
STIRRUPS (TIES SIMILAR)	BAR SIZE	D (in.)	90° Hook	135° Hook	
			Hook A or G (in.)	Hook A or G (in.)	H Approx. (in.)
	#3	1½	4	4	2½
	#4	2	4½	4½	3
	#5	2½	6	5½	3¾
	#6	4½	1'-0"	8	4½
	#7	5¼	1'-2"	9	5½
	#8	6	1'-4"	10½	6

SCALE: $1\frac{1}{2}"=1'-0"$

7

4

1



SCALE: $\frac{3}{8}'' = 1'-0''$

8

TENSION LAP SPLICE FOR GRADE 60 BARS (TOP BARS) _{1, 2}

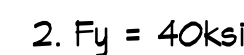
TENSION LAP SPLICE FOR GRADE 60 BARS,

- 1 - TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THEM.
- 2 - ABOVE TABLES ARE BASED UPON MINIMUM CLEAR COVER GREATER THAN 1.0db AND MINIMUM CLEAR SPACING GREATER THAN 2db. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.
- 3 - USE CLASS B FOR ALL BAR SPLICES, U.N.O.
- 4 - FOR CLASS "A" LAP LENGTHS TO BE USED, THE FOLLOWING SHALL BE MET.
 - 1) ONE-HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
 - 2) STAGGER SPLICES BY THE LARGER OF THE REQUIRED LAP LENGTH OR 5'-0" MIN.

135° SEISMIC STIRRUP/TIE
HOOK DIMENSIONS
ALL GRADES

2

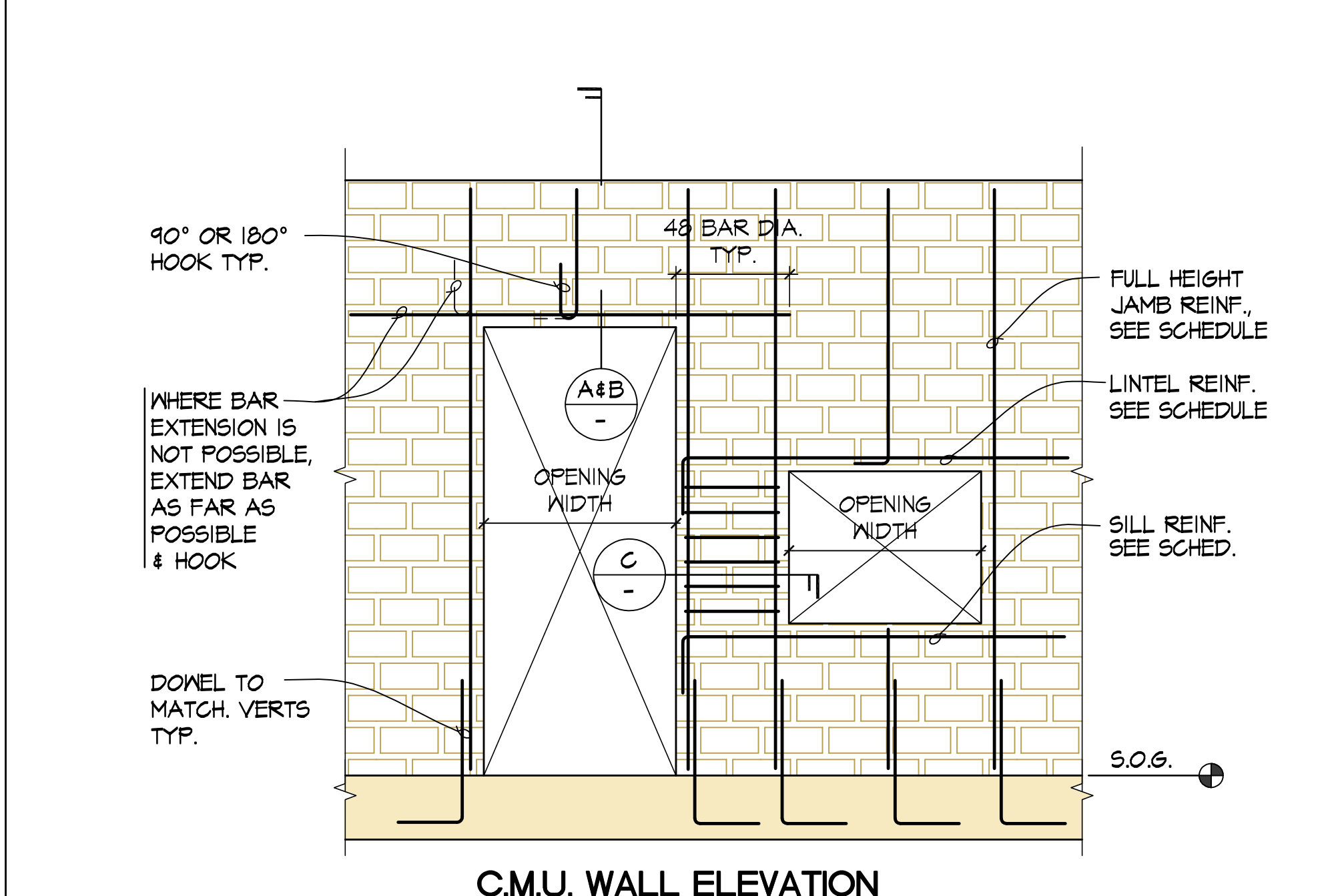
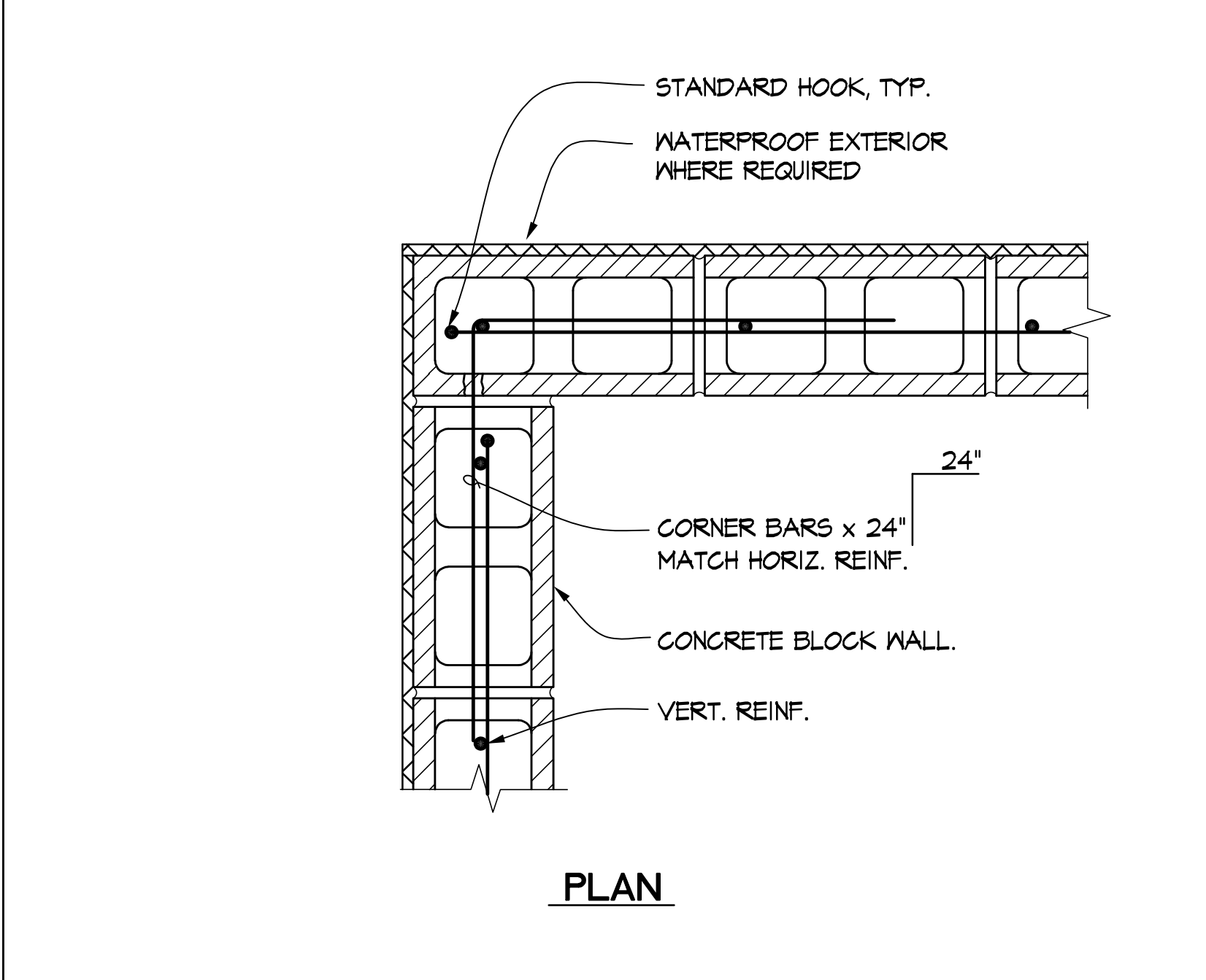
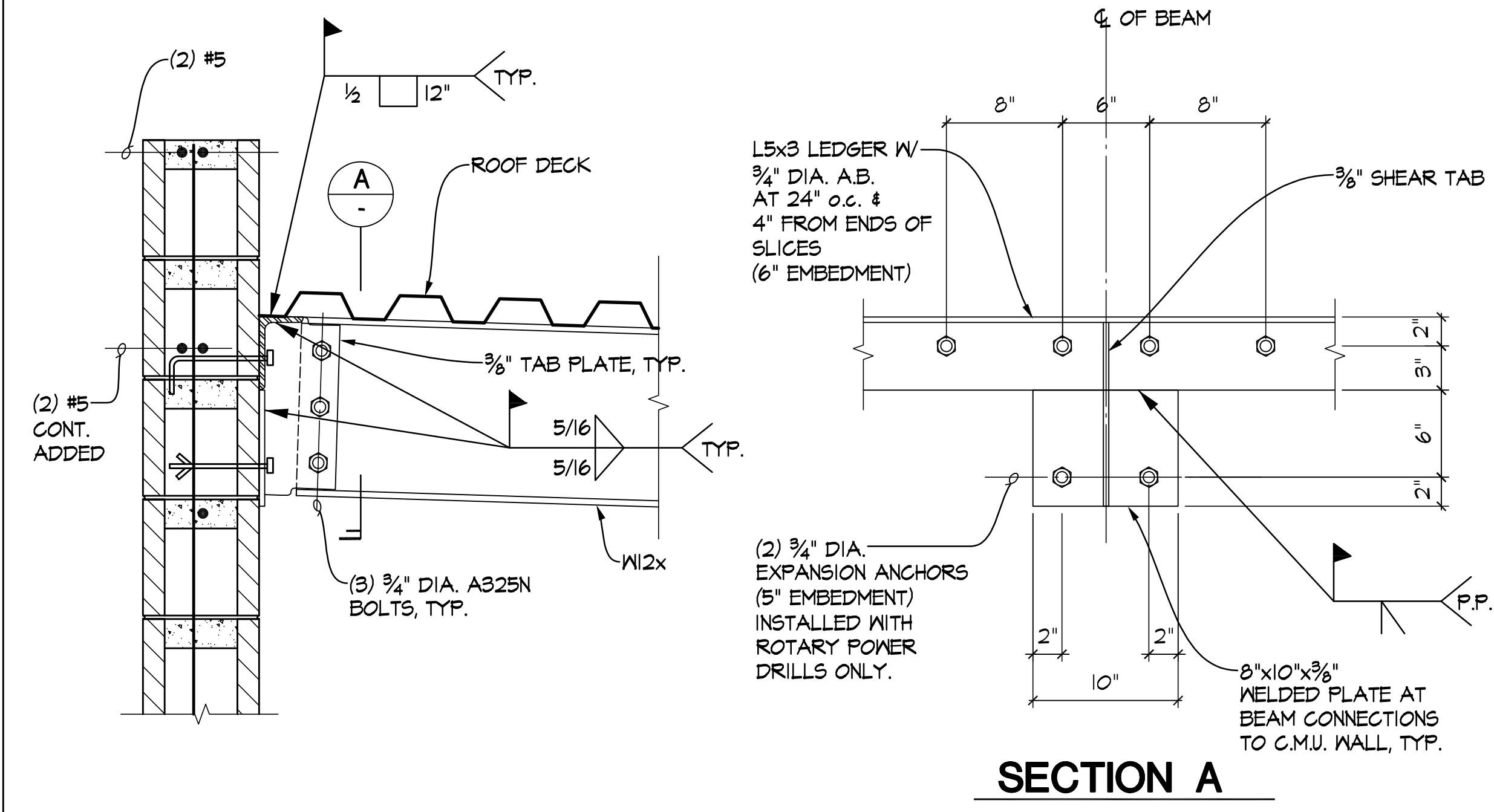
ℓc	2,500 PSI	3,000 PSI	4,000 PSI	5,000 PSI
BAR SIZE	EMBED. (in.)	EMBED. (in.)	EMBED. (in.)	EMBED. (in.)
#3 ⁽²⁾	6	6	6	6
#4	12	11	10	9
#5	15	14	12	11
#6	18	17	15	13
#7	21	20	17	15
#8	24	22	19	17
#9	27	25	22	20



9

6

3



CONNECTION DETAILS

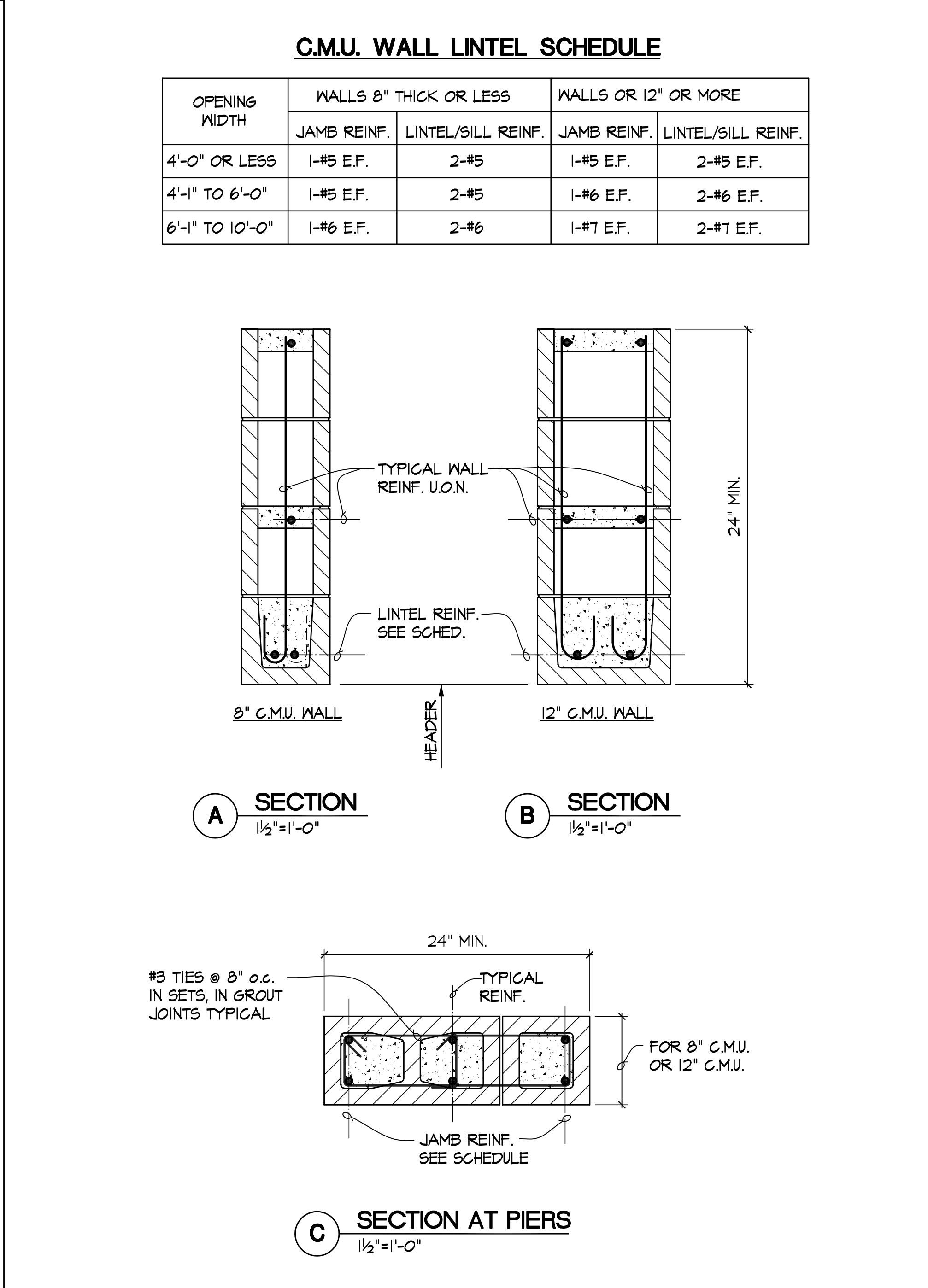
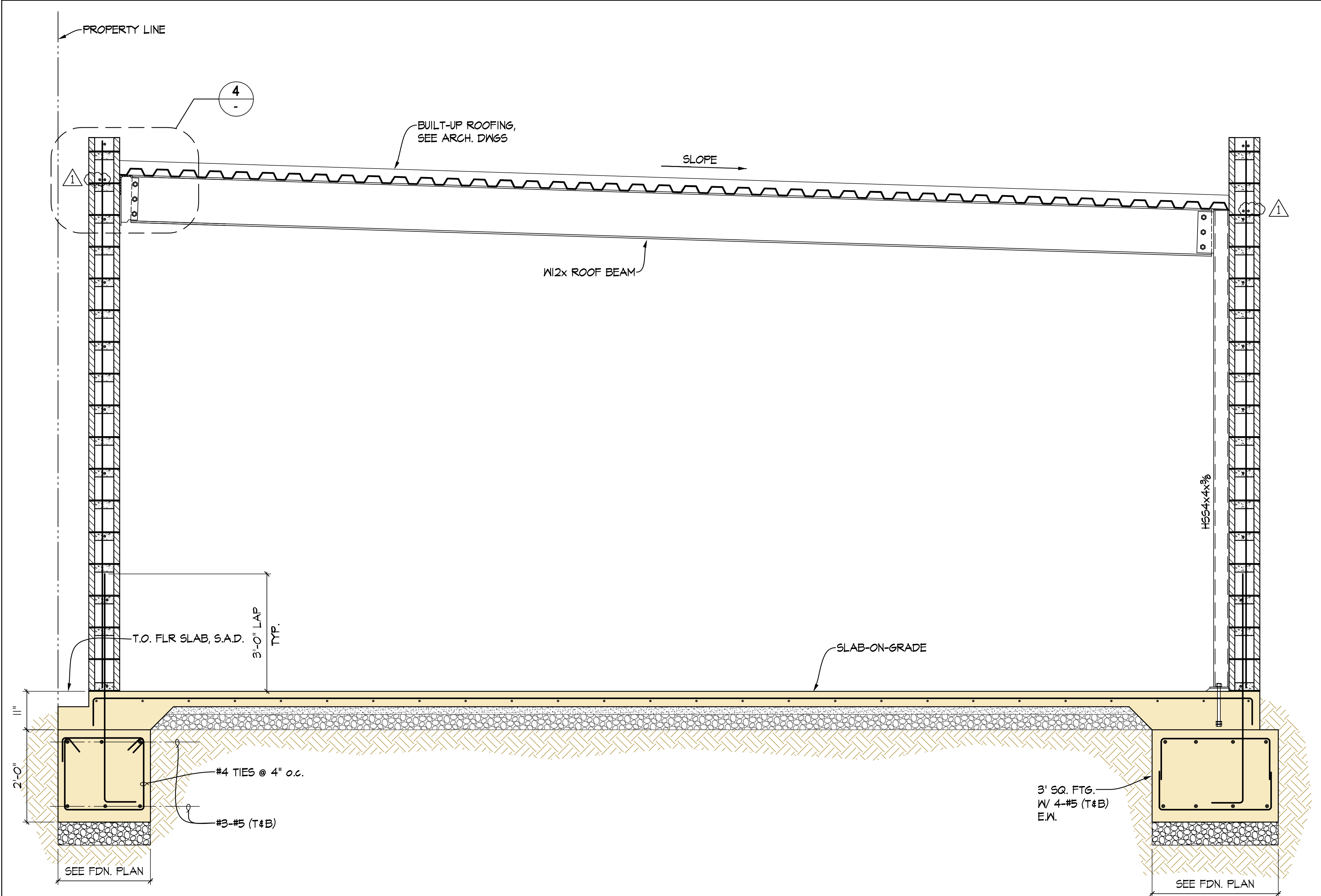
SCALE: 1/2"=1'-0"

4

C.M.U. WALL CORNER DETAIL

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

2



BUILDING SECTION

SCALE: 3/4"=1'-0"

3

TYPICAL C.M.U. WALL LINTEL DETAILS

SCALE: AS NOTED

1

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Title

CMU SECTIONS & DETAILS

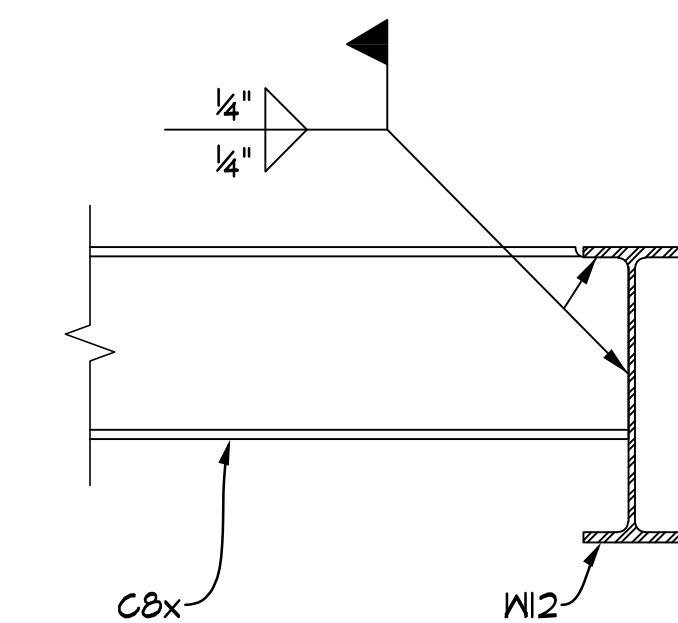
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2023-01

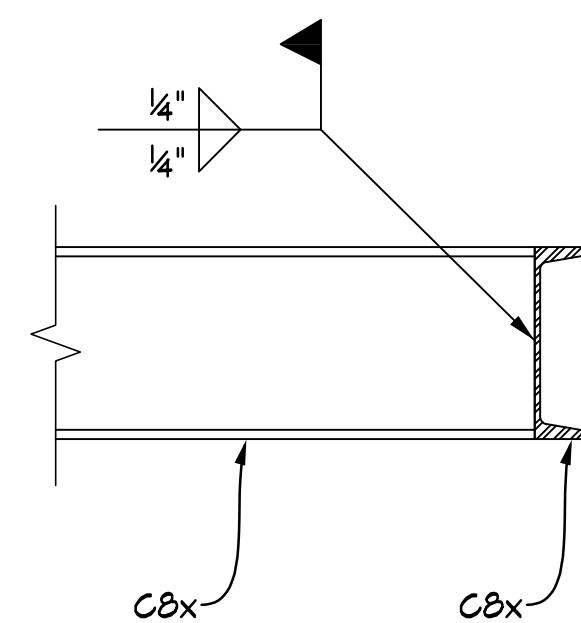
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SC-1.4



A CHANNEL TO W.F. BEAM

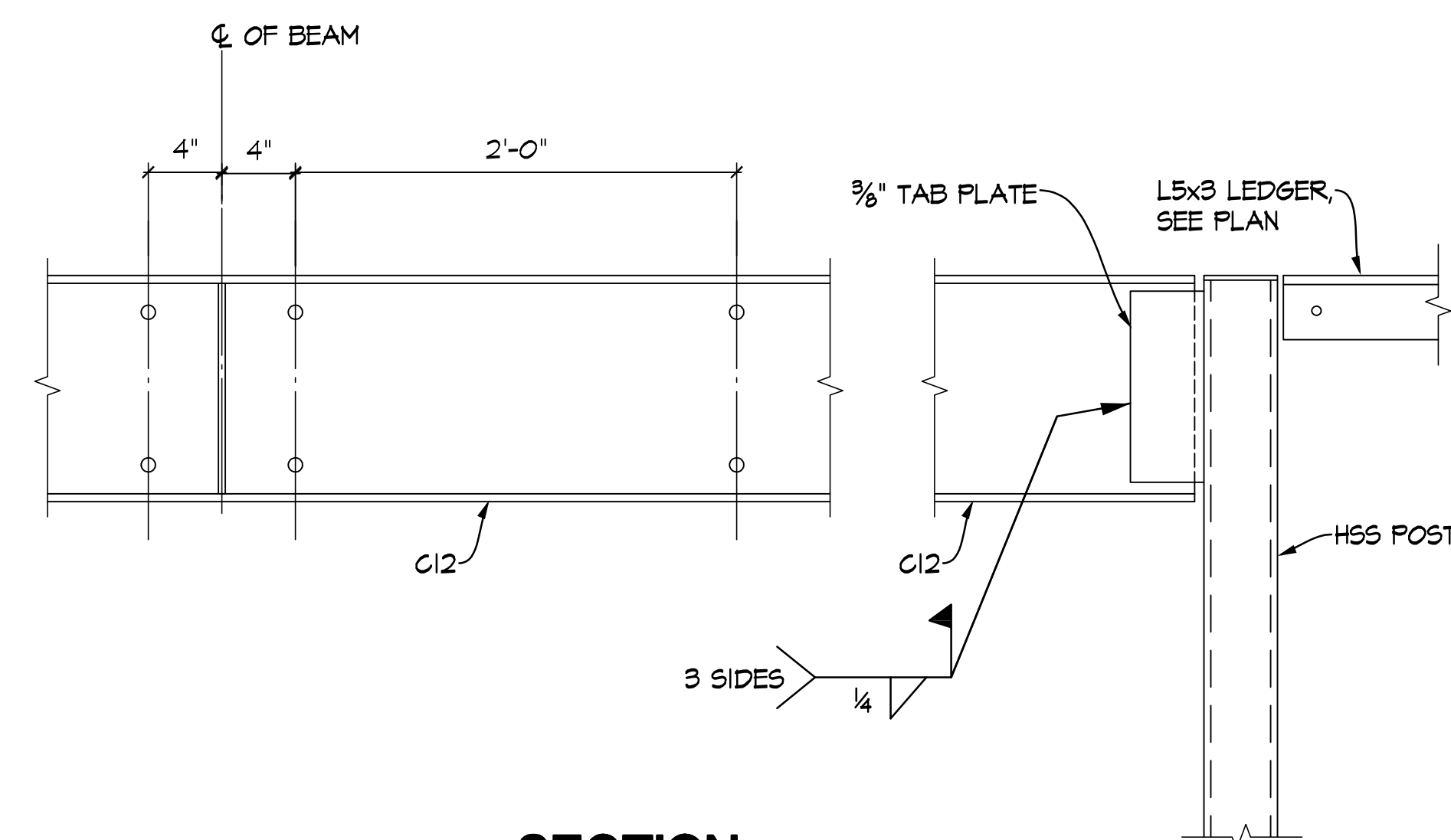
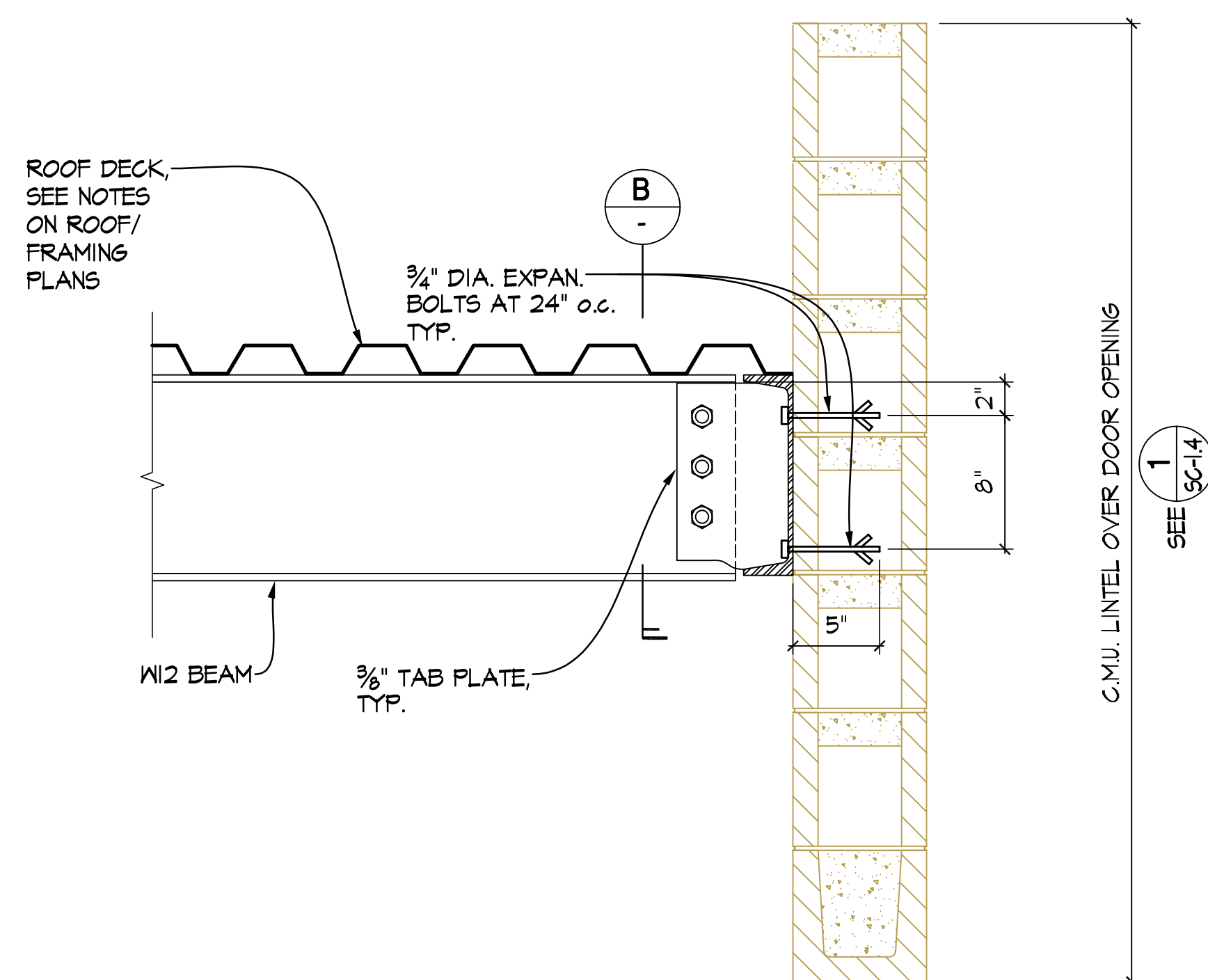


B CHANNEL TO CHANNEL

STEEL DETAILS

SCALE: $1\frac{1}{2}"=1'-0"$

5



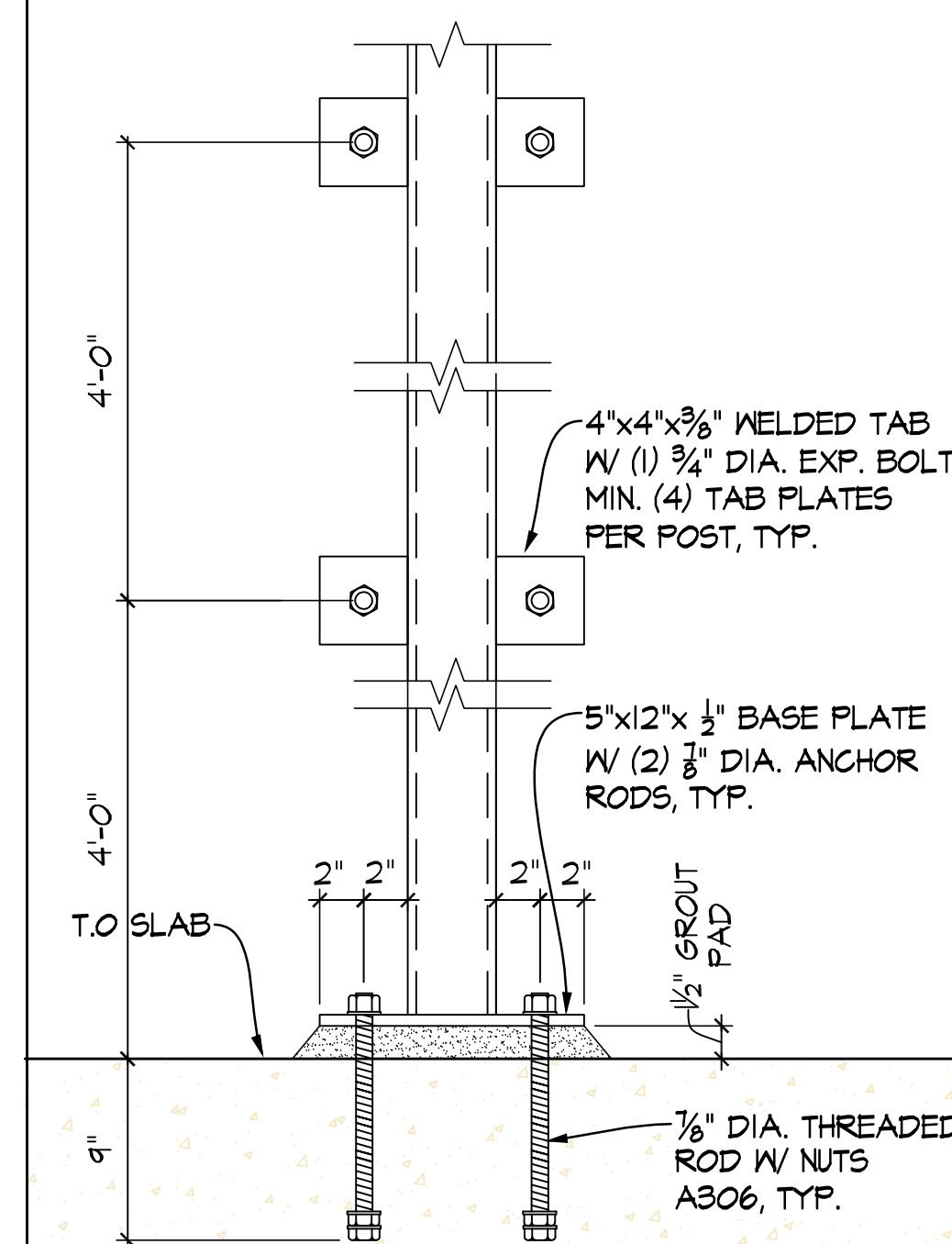
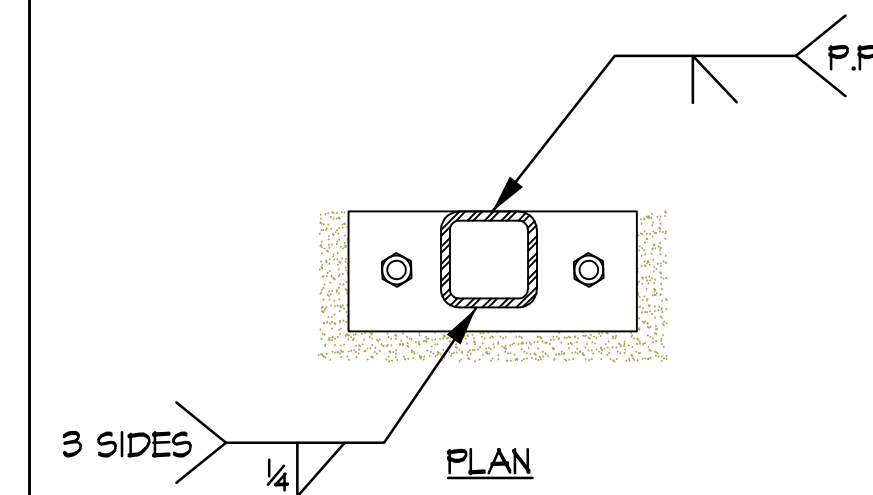
B **SECTION**
SCALE: 1½"=1'-0"

SCALF. $1\frac{1}{2}" = 1' - 0"$

BEAM CONNECTION DETAIL

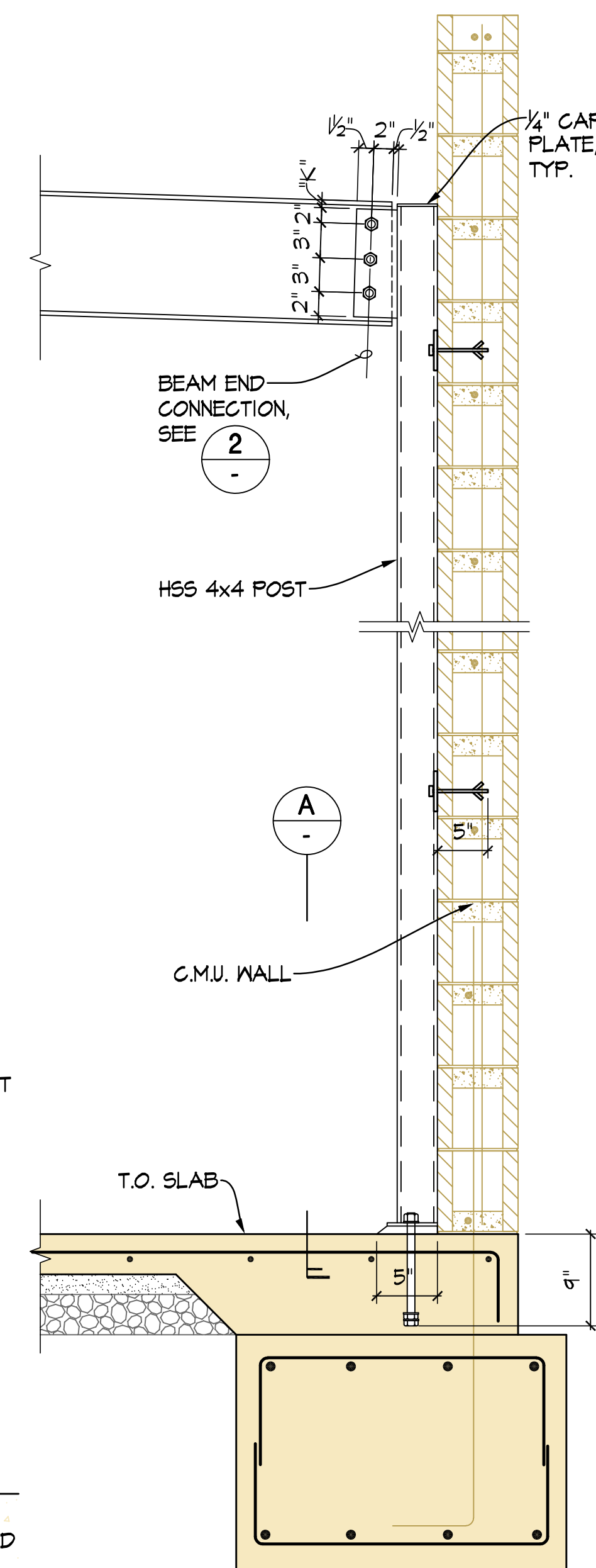
SCALE: $\frac{1}{2}" = 1'-0"$

3



A **SECTION**
SCALE 1/2"=1'-0"

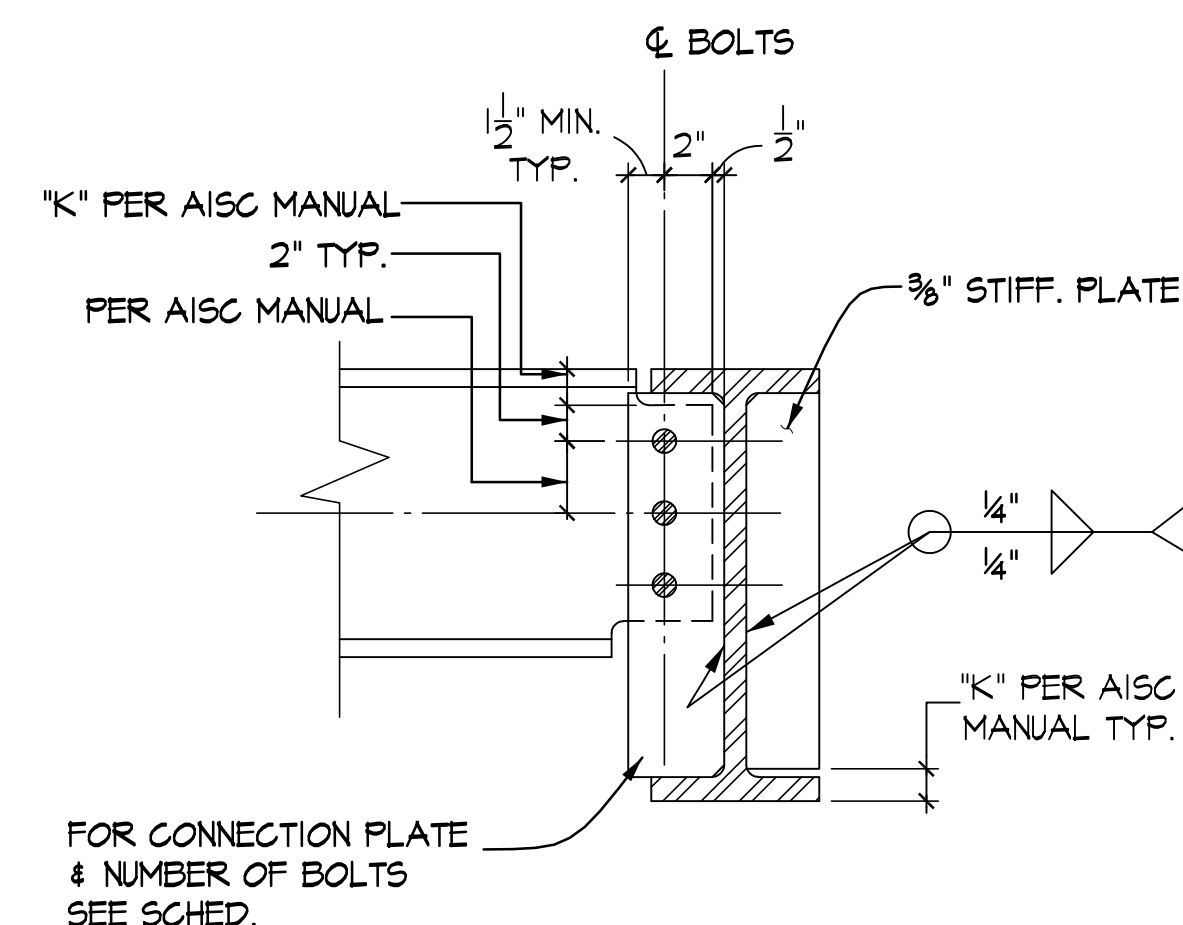
SCALE 1½"=1'-0"



SECTION AT HSS POST

SCALE: 1"=1'-0"

1



NOTE:
ONE SIDED CONNECTION OCCURS WHERE OPPOSITE BEAMS
ARE OFFSET BY 12" OR MORE

7

**TYPICAL BEAM TO BEAM ONE SIDED
(NON-MOMENT CONNECTION)**

4

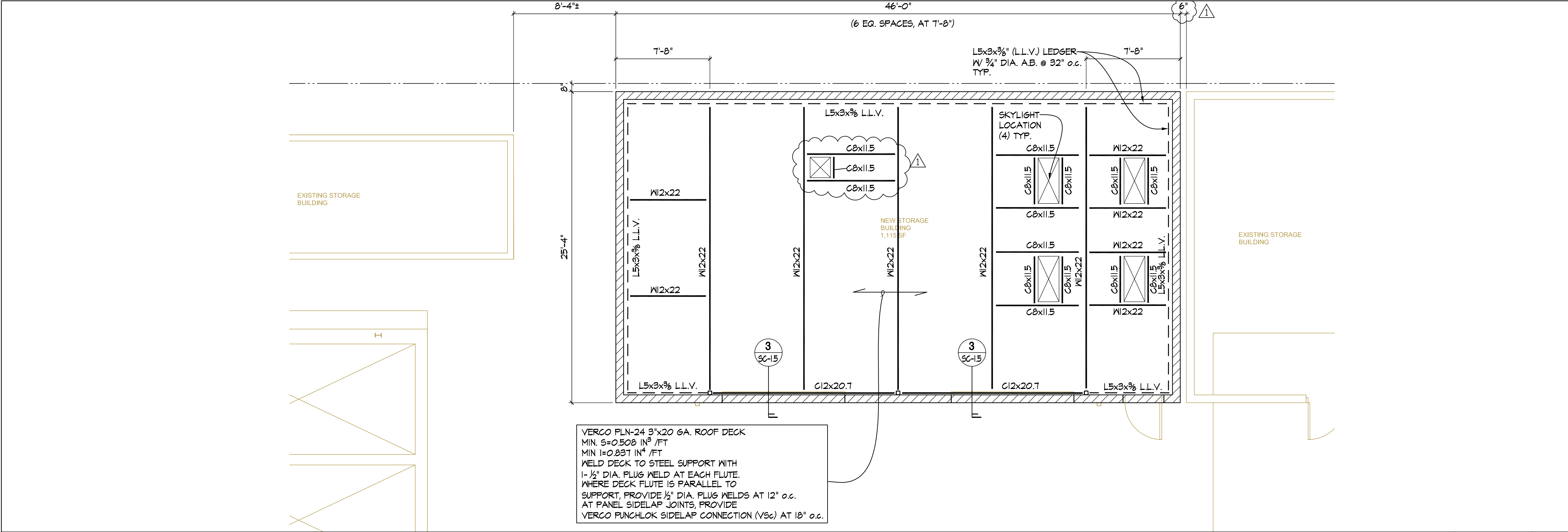
NON-MOMENT BEAM CONNECT SCHEDULE						
BEAM (SIZES)	CONNECTION PLATE		BOLT SIZE	WELD SIZES		REMARK
	THICKNESS	NUMBER OF BOLTS		TYPE "A"		
W10 & C10	3/8"	2	3/4"	3/16"		
W12 & W14	3/8"	3	3/4"	3/16"		

NON-MOMENT BEAM CONNECT NOTES:

1. FILLET WELD SIZE SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY A.I.S.C. SPECIFICATIONS.
2. ALL BOLTS SHALL BE ¾" DIAMETER A325 BOLTS TYPE X CONNECTION, U.O.N. SEE SCHEDULE.
3. DOUBLE ANGLES MAY BE SUBSTITUTED FOR PLATES, PROVIDED THEY MEET OR EXCEED THE REQUIREMENTS OF THE A.I.S.C.

NON-MOMENT BEAM CONNECT SCHEDULE

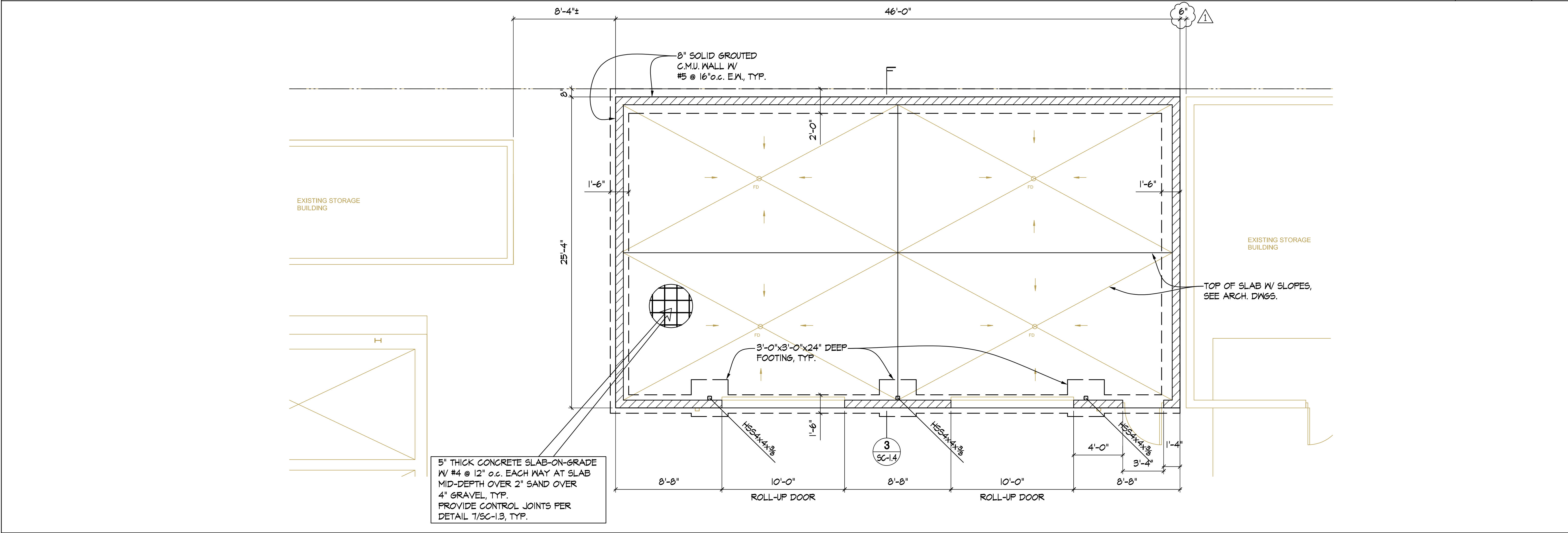
2



ROOF FRAMING PLAN

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

2



FOUNDATION PLAN

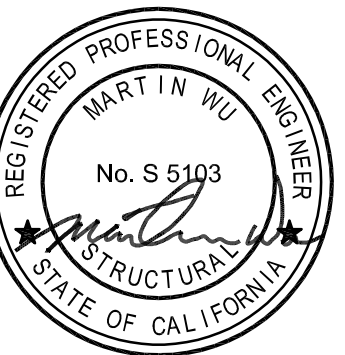
SCALE: 1/4"=1'-0"

1

NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV #	DATE	DESCRIPTION
1	2/3/23	1st CITY SUBMITTAL
2	4/7/23	Plan Check Response
3		
4		
5		

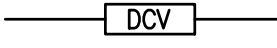



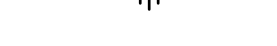

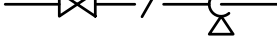
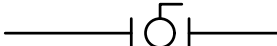
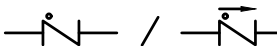

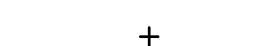


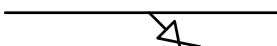



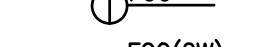





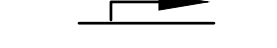
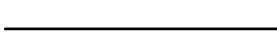
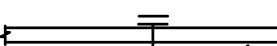

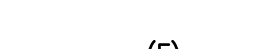





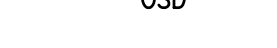




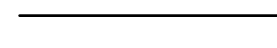
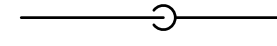
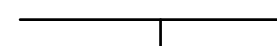
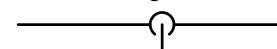
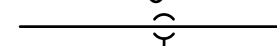


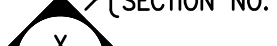



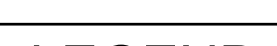

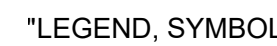









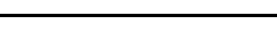


Title
FOUNDATION & ROOF PLANS

Job #:
2023-01

Print Date:
4-7-2023

SC-2.0

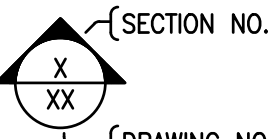
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ABBREVIATIONS				LEGEND AND SYMBOLS				GENERAL NOTES			
AC	AIR CONDITIONING UNIT	KS	KITCHEN SINK		DCV	DOUBLE CHECK VALVE					
ACCU	AIR COOLED CONDENSING UNIT	KW	KILOWATT		RPBP	REDUCE PRESSURE BACKFLOW PREVENTER					
AD	ACCESS DOOR	LAV/L	LAVATORY		POC	POINT OF CONNECTION					
AD	AREA DRAIN	LBS	POUNDS		P.O.C.	THICK LINE REPRESENTS (N) WORK THIN LINE REPRESENTS (E) WORK					
AFF	ABOVE FINISHED FLOOR	LF	LINEAR FEET			PIPE UNION					
AFG	ABOVE FINISHED GRADE	LG	LENGTH			PIPE CAPPED					
AHU	AIR HANDLING UNIT	LS	LAUNDRY SINK		SOV	SHUT-OFF VALVE, PLAN / RISER					
AHS	AIR HANDLING SYSTEM	LWB	LEAVING WET BULB		BV	BALL VALVE					
AL	ACOUSTIC LINING	LWT	LEAVING WATER TEMPERATURE		CV	CHECK VALVE					
AP	ACCESS PANEL	MAX	MAXIMUM			PIPE SLEEVE					
APD	AIR PRESSURE DROP (INWG)	MBH	1000 BTUS PER HOUR		HB	HOSE BIBB					
ARCH	ARCHITECTURAL	MECH/MECH'L	MECHANICAL			DIRECTION OF FLOW					
AS	AIR SEPARATOR	MER	MECHANICAL EQUIPMENT ROOM			HOSE END GATE VALVE WITH HOSE CAP					
ATV	ACOUSTIC TURNING VANES	MFR	MANUFACTURER			BALL VALVE					
B	BOILER	MIN	MINIMUM			CHECK VALVE					
BFF	BELOW FINISHED FLOOR	(N)	NEW			PIPE SLEEVE					
BFG	BELOW FINISHED GRADE	N/A	NOT APPLICABLE			HOSE BIBB					
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED/NOISE CRITERIA			DIRECTION OF FLOW					
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT			HOSE END GATE VALVE WITH HOSE CAP					
BT	BATH TUB	NIPW	NOT IN PLUMBING WORK			BALL VALVE					
BTU	BRITISH THERMAL UNIT	NO	NORMALLY OPEN, NUMBER			CHECK VALVE					
CD	CONDENSATE DRAIN	NPT	NATIONAL PIPE THREAD			PIPE SLEEVE					
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE			HOSE BIBB					
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER			DIRECTION OF FLOW					
CI	CAST IRON	OD	OUTSIDE DIAMETER			HOSE END GATE VALVE WITH HOSE CAP					
CLG	CEILING	OFD	OVERFLOW DRAIN			BALL VALVE					
CO	CLEANOUT	P	PUMP			CHECK VALVE					
CONN	CONNECTION	PDI	PLUMBING AND DRAINAGE INSTITUTE			PIPE SLEEVE					
CONC	CONCRETE	PH	PHASE			HOSE BIBB					
CONTR	CONTRACTOR	PLBG	PLUMBING			DIRECTION OF FLOW					
CPC	CALIFORNIA PLUMBING CODE	POC	POINT OF CONNECTION			HOSE END GATE VALVE WITH HOSE CAP					
CTG	CLEAN OUT TO GRADE	PRESS	PRESSURE			BALL VALVE					
CW	COLD WATER (DOMESTIC)	PSI	POUNDS PER SQUARE INCH			CHECK VALVE					
CW	CLOTHES WASHER	PSIG	POUNDS PER SQUARE INCH GAUGE			PIPE SLEEVE					
DCV	DOUBLE CHECK VALVE	PRV	PRESSURE RELIEF VALVE			HOSE BIBB					
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE			DIRECTION OF FLOW					
DN	DOWN	RD	ROOF DRAIN			HOSE END GATE VALVE WITH HOSE CAP					
DWGS	DRAWINGS	REQ'D	REQUIRED			BALL VALVE					
ø	DIAMETER	RP	REDUCED PRESSURE			CHECK VALVE					
(E)	EXISTING	RPM	REVOLUTIONS PER MINUTE			PIPE SLEEVE					
EA	EACH	RWL	RAIN WATER LEADER			HOSE BIBB					
EH	ELECTRIC HEATER	S	SOIL			DIRECTION OF FLOW					
EL/ELEV	ELEVATION	SCH	SCHEDULE			HOSE END GATE VALVE WITH HOSE CAP					
ELEC/ELECT	ELECTRICAL	SD	STORM DRAIN			BALL VALVE					
ESP	ELEVATOR SUMP PUMP	SF	SQUARE FOOT			CHECK VALVE					
ET	EXPANSION TANK	SK	SINK			PIPE SLEEVE					
EWT	ENTERING WATER TEMPERATURE	SED	SEWAGE EJECTOR DISCHARGE			HOSE BIBB					
F	FILTER	SEV	SEWAGE EJECTOR VENT			DIRECTION OF FLOW					
(F)	FUTURE	SN	SHEET NOTE			HOSE END GATE VALVE WITH HOSE CAP					
°F	FAHRENHEIT IN DEGREES	SOV	SHUT OFF VALVE			BALL VALVE					
FA	FROM ABOVE	SPD	SUMP PUMP DISCHARGE			CHECK VALVE					
FB	FROM BELOW	SPV	SUMP PUMP VENT			PIPE SLEEVE					
FCO	FLOOR CLEANOUT	SS	STAINLESS STEEL			HOSE BIBB					
FD	FLOOR DRAIN	SS	SANITARY SEWER			DIRECTION OF FLOW					
FF	FINISHED FLOOR	STD	STANDARD			HOSE END GATE VALVE WITH HOSE CAP					
FFE	FINISHED FLOOR ELEVATION	STRUCT	STRUCTURAL			BALL VALVE					
FLA	FULL LOAD AMPS	S.A.D.	SEE ARCHITECTURAL DRAWINGS			CHECK VALVE					
FLEX	FLEXIBLE	S.C.D.	SEE CIVIL DRAWINGS			PIPE SLEEVE					
FLR	FLOOR	S.E.D.	SEE ELECTRICAL DRAWINGS			HOSE BIBB					
FPM	FEET PER MINUTE	S.L.D.	SEE LANDSCAPE DRAWINGS			DIRECTION OF FLOW					
FPS	FEET PER SECOND	S.M.D.	SEE MECHANICAL DRAWINGS			HOSE END GATE VALVE WITH HOSE CAP					
FS	FLOOR SINK	S.S.D.	SEE STRUCTURAL DRAWINGS			BALL VALVE					
FT	FEET	T	THERMOSTAT			CHECK VALVE					
FTWG	FEET OF WATER, GAUGE PRESSURE	TC	TIME CLOCK			PIPE SLEEVE					
FT²	SQUARE FEET	TEMP	TEMPERATURE								
FU	FIXTURE UNIT	TP	TRAP PRIMER								
FV	FLUSH VALVE	TV	TURNING VANES								
GA	GAUGE	TYP	TYPICAL								
GAL	GALLON	UG	UNDERGROUND								
GALV	GALVANIZED	UL	UNDER WRITER'S LABORATORY								
GC	GAS COCK	UON	UNLESS OTHERWISE NOTED								
GCO	GRADE CLEANOUT	UR/U	URINAL								
GPH	GALLONS PER HOUR	V	VENT								
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD								
GSM	GALVANIZED SHEET METAL	VR	VENT RISER								
GV	GATE VALVE	VTR	VENT THRU ROOF								
GWH	GAS FIRED WATER HEATER	W	WASTE								
HB	HOSE BIBB	WC	WATER CLOSET/WATER COLUMN								
HHWS	HEATING HOT WATER SUPPLY	WCO	WALL CLEANOUT								
HHWR	HEATING HOT WATER RETURN	WH	WATER HEATER								
H/C (HC)	HANDICAPPED	WHA	WATER HAMMER ARRESTOR								
HORIZ	HORIZONTAL	WT	WEIGHT								
HP	HORSEPOWER										
H2O	WATER										
HTR	HEATER										
HW	HOT WATER (DOMESTIC)										
HWR	HOT WATER RETURN (DOMESTIC)										
HZ	FREQUENCY (HERTZ)										
ID	INSIDE DIAMETER										
IE	INVERT ELEVATION										
IFC	IN FURRED CEILING										
IFS	IN FURRED SPACE										
IFW	IN FURRED WALL										
IJS	IN JOIST SPACE										
IN	INCH										
INWG	INCHS OF WATER, GAUGE										
I.E./INV	INVERT ELEVATION										
JS	JANITOR SINK										

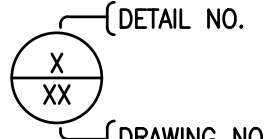
LEGEND, SYMBOLS AND ABBREVIATION NOTE

"LEGEND, SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. DISREGARD THOSE WHICH ARE NOT USED ON THE DRAWINGS"

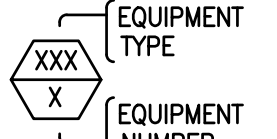
LEGEND AND SYMBOLS




SECTION NO.
X
XX
DRAWING NO.



DETAIL NO.
X
XX
DRAWING NO.



EQUIPMENT TYPE
XXX
X
EQUIPMENT NUMBER



KEY NOTE TAG

SHEET INDEX

SHEET NUMBER	SHEET TITLE
MP1.0	NOTES LEGEND AND SHEET INDEX
MP2.0	PLUMBING PLANS
MP3.0	MECHANICAL PLANS
MP4.0	PLUMBING SITE PLAN

GENERAL NOTES

1. OWNER SHALL PAY AND OBTAIN FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.

2. ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA PLUMBING CODE.

3. PRIOR TO BIDDING, THE CONTRACTOR SHALL OBTAIN COPY OF THE PLANS AND SPECIFICATIONS AND EXAMINE THEM. ANY DISCREPANCIES OR CONFLICTS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT AND/OR ENGINEER, IN WRITING, BEFORE BIDS ARE SUBMITTED. NO ALLOWANCE WILL BE MADE FOR FAILURE TO SUBMIT DISCREPANCIES TO THE ARCHITECT AND/OR ENGINEER.

4. PRIOR TO START OF CONSTRUCTION WORK, PLUMBING CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWING IN ADEQUATE DETAIL FOR REVIEW AND APPROVAL BY THE ARCHITECT AND/OR ENGINEER.

5. CONTRACTOR SHALL CLOSELY COORDINATE WORK WITH ALL TRADES.

6. VERTICAL AND HORIZONTAL OFFSETS SHOWN IN PIPES INDICATE THE GENERAL RELATIONSHIP OF THE SYSTEMS. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED TO SUIT CONSTRUCTION AND WORK DONE BY OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

7. ALL VALVES, CONTROLS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.

8. EXAMINE ARCHITECTURAL DRAWINGS TO ENSURE THAT ALL PIPING CROSSING FIRE AND/OR SMOKE SEPARATION CONSTRUCTION SHALL BE SEALED WITH UL LISTED ASSEMBLIES.

9. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.

10. OFFSET VENTS AT ROOF AS REQUIRED TO MAINTAIN 10 FEET SEPARATION FROM ANY AIR INTAKE, DOORS, OPERABLE WINDOWS ETC.

11. HORIZONTAL SANITARY SEWER PIPES SHALL HAVE 1/4" PER FOOT MINIMUM SLOPE OR 2% MINIMUM FLOW TOWARDS THE DISPOSAL AREA.

12. ALL HOSE BIBS SHALL BE PROVIDED WITH NON-REMOVABLE BACKFLOW PREVENTION DEVICE.

13. ALL WATER AND DRAINAGE PIPING SYSTEMS SHALL BE INSTALLED WITH ACOUSTICAL ISOLATORS AND SHALL BE ISOLATED FROM ANY STRUCTURAL MEMBERS, WALL SECTIONS OR OTHER MATERIALS THAT COULD TRANSMIT SOUND TO THE OCCUPIED AREAS.

14. PIPING PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND MUST BE COORDINATED WITH THE TRADES INVOLVED BEFORE MAKING THE PENETRATIONS.

15. PLUMBING CONTRACTOR SHALL CONNECT TO SITE SEWER AND DOMESTIC COLD WATER SUPPLY WITHIN 5 FEET OUT OF BUILDING LINE.

16. ALL PIPING ON PLANS IS TYPICALLY SHOWN CONCEALED IN CEILING OR PLUMBING WALLS. RISERS AND OFFSETS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.

17. EACH PLUMBER USING A TORCH TO SWEAT PIPE JOINT SHALL HAVE ACCESS TO 2A RATED FIRE EXTINGUISHER AT WORK AREA AND SHALL FIRE WATCH FOR 1/2-HOUR AFTER USE, IN COMPLIANCE WITH THE 2022 CALIFORNIA FIRE CODE (CFC).

18. ALL PIPING PENETRATING CONCRETE FLOOR OR WALL MUST BE PROVIDED WITH SLEEVE TO PREVENT PIPE BREAKAGE.

19. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.

20. FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, AREA DRAINS, DECK DRAINS, DOWNSPOUT AND HOSE BIBS, SEE ARCHITECTURAL DRAWINGS AND DETAILS.

21. KEEP ALL PLUMBING PIPING AS HIGH AS POSSIBLE TO STRUCTURE ABOVE AND OFFSET AS REQUIRED.

22. ANY CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO THE CONSTRUCTION OF SUCH ITEMS.

23. ALL PIPING PENETRATIONS THROUGH RATED WALL, CEILING OR FLOOR SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.

24. COORDINATE ROUGH-IN OF ALL WORK WITH EQUIPMENT/FIXTURE REQUIREMENTS AND OTHER TRADES.

25. ALL PLUMBING EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

26. WHERE MAIN PIPE SIZE IS NOT INDICATED BETWEEN BRANCH CONNECTIONS IN THE DRAWING, THE PIPE SIZE SHALL BE OF THE LARGER PRECEDING PIPE SIZE.

27. ALL VALVES AND ACCESSORIES SHALL BE FULL LINE SIZE. PROVIDE ALL NECESSARY UNIONS, REDUCERS AND STOPS AS REQUIRED WHEN CONNECTING TO EACH FIXTURE AND/OR EQUIPMENT.

28. PROVIDE CLEANOUTS ON DRAINAGE LINES IN ACCORDANCE WITH THE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.

29. PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS.

30. ALL DRAINS FROM RELIEF VALVES, CONDENSATE PANS, COILS AND HVAC EQUIPMENT HAVING DRAINS SHALL BE PIPED TO NEAREST DRAIN UNDER THIS SECTION OF WORK.

31. ALL PIPING IN CONCRETE FOUNDATIONS, AND WALLS, INCLUDING BLOCK WALLS SHALL BE FULLY INSULATED TO ISOLATE PIPING FROM CONCRETE.

32. ALL PLUMBING FIXTURES AND PIPING SHALL BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED PER CPC SECTION 301.1.2.

33. ALL DOMESTIC WATER VALVES UP TO AND INCLUDING 2" SIZE SHALL BE BRASS OR OTHER APPROVED MATERIALS. EACH GATE VALVE SHALL BE A FULL-WAY TYPE WITH WORKING PARTS OF NON-CORROSIVE MATERIAL PER CPC 606.1.

34. PROVIDE ACOUSTO-PLUMB TYPE PIPE ISOLATOR AT HANGERS FOR COPPER PRESSURE LINES.

35. ALL ROOF WORK SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR, AND SHALL COMPLY WITH HIS REQUIREMENTS TO PROTECT THE ROOFING WARRANTY.

36. LINE VOLTAGE EQUIPMENT, SUCH AS MOTOR STARTERS, DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL ADVISE THE ELECTRICAL CONTRACTOR OF THE REQUIRED SIZES AND CAPACITIES OF ALL SUCH EQUIPMENT

37. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT & DESIGNER'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA.

38. GRILLES AND REGISTERS SHALL BE LOCATED SO AS TO BE CENTERED ON ADJACENT ARCHITECTURAL FEATURES, AND WITH THEIR EDGES ALIGNED WITH ONE ANOTHER WHERE APPLICABLE.

39. PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH MANUFACTURER REQUIREMENTS AND WITH STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.

40. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. INSTALL CLEARANCE SPACE FOR MAINTAINING EQUIPMENT PER MANUFACTURER REQUIREMENTS AND ELECTRICAL CLEARANCE REQUIREMENTS.

41. ALL EQUIPMENT, DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.

42. COORDINATE LOCATIONS OF THERMOSTATS/SENSORS WITH ARCHITECTURAL DOCUMENTS AND MOUNT PER LATEST ADA REQUIREMENTS.

43. COORDINATE ALL FLOOR, CEILING AND WALL OPENINGS WITH ARCHITECTURAL AND STRUCTURAL.

44. CONTRACTOR IS REQUIRED TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM THAT COMPLY WITH ACCEPTABLE TOLERANCES OF PLUS OR MINUS 10% OF THE DESIGN PARAMETERS; SUCH TOLERANCES ARE UP TO THE CONTRACTOR TO DOCUMENT AND PROVE AS REQUIRED. ANY CORRECTIONS REQUIRED IN MEETING THE DESIGN PARAMETERS AND TOLERANCES SHALL BE AT CONTRACTOR EXPENSE. AIR BALANCE TECHNICIAN SHALL BE AABC / NEBB CERTIFIED OR EQUIVALENT.

45. MECHANICAL EQUIPMENT AND DEVICES SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION BEING TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING OR ANY PART OF THE BUILDING STRUCTURE BY APPARATUS, PIPING, DUCT WORK, CONDUITS, OR OTHER PARTS OF THE MECHANICAL WORK.

46. ENVIRONMENTAL EXHAUST TERMINATIONS SHALL BE MINIMUM 3'0" FROM OPENINGS INTO BUILDING.

47. ALL EQUIPMENT GREATER THAN 400 LBS SHALL HAVE STRUCTURAL CALCULATIONS IN ACCORDANCE WITH 2022 CBC.

48. EXHAUST DUCTS HALL TERMINATE OUTSIDE OF THE BUILDING PER PROVISIONS OF CMC 502.1.

49. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED ON A WELL DRAINED SURFACE OF THE ROOF PER CMC 303.9.4.

element | one

architecture

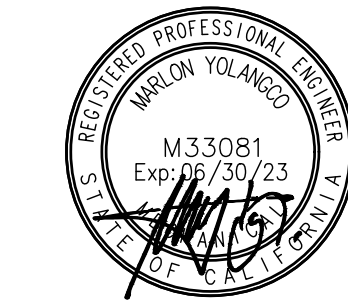
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HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
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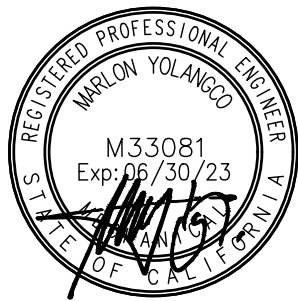
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△	05/11/23	PLAN CHECK RESPONSE 2
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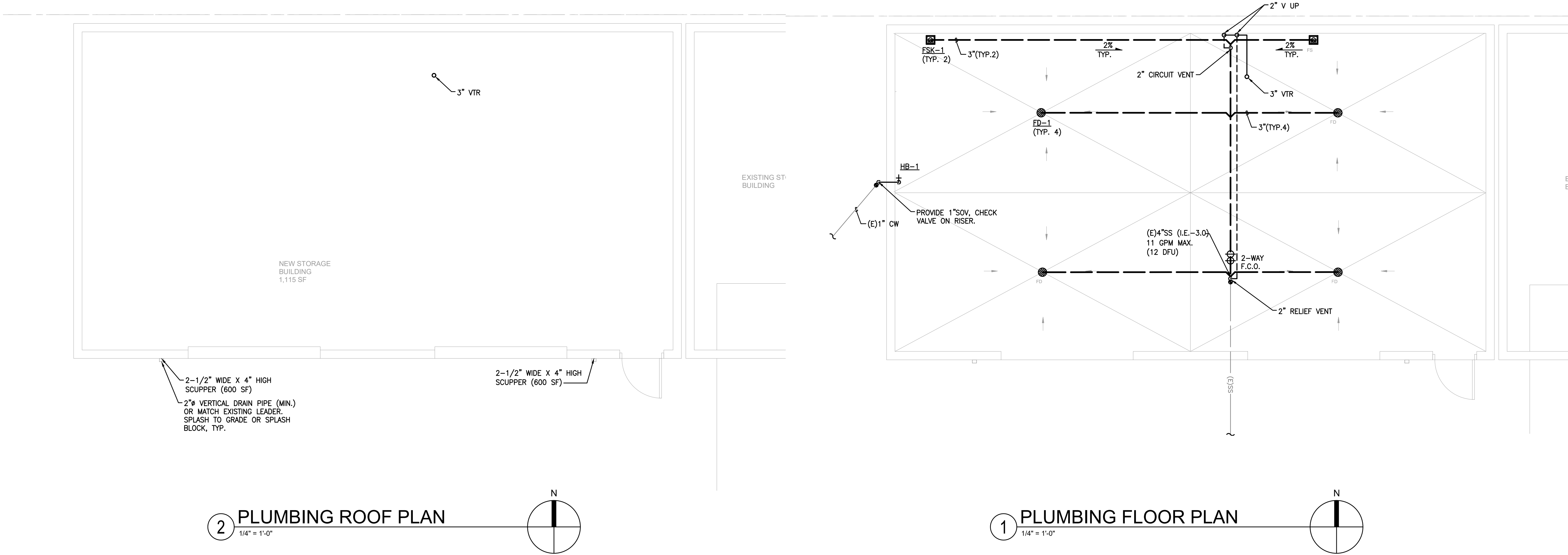
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△		

Title
PLUMBING PLANS

Job #:
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Print Date:
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2 PLUMBING ROOF PLAN
1/4" = 1'-0"

1 PLUMBING FLOOR PLAN
1/4" = 1'-0"

PIPING MATERIAL SCHEDULE

PIPE	SCHEDULE 40 DWV PVC/ ABS	TYPE "K" COPPER	TYPE "L" COPPER	TYPE "M" COPPER	GALVANIZED SCHEDULE 40 STEEL	REMARKS
SANITARY SEWER	X					
COLD WATER		X UNDERGROUND	X ABOVEGROUND			TRANSITION FROM EXISTING UNDERGROUND PIPE MATERIAL AND PROVIDED DIELECTRIC FITTINGS AS REQUIRED.
VENT	X					

NOTES:
1. SUSPENDED PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN CPC TABLE 3-2.
2. HANGER ROD SIZES SHALL BE NO SMALLER THAN THOSE SHOWN IN CPC TABLE 3-1.
3. LABEL PIPING PER ANSI STANDARDS.

DRAINS AND ACCESSORY SCHEDULE

TAG	MANUFACTURER	MODEL NO	STRAINER/COVER TYPE	REMARKS
FD-1 (FLOOR DRAIN)	JR SMITH	#2142Y-U CAST IRON BODY AND FLASHING COLLAR OR APPROVED EQUAL	CAST IRON TRACTOR GRATE AND SOLID FREE STANDING SEDIMENT BUCKET	VANDAL PROOF GRATE
FSK-1 (FLOOR SINK)	JR SMITH	#3100Y-11 NO HUB OUTLET OR APPROVED EQUAL	CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, ALUMINUM DOME BOTTOM STRAINER	INSTALL WITH TOP OF RIM FLUSH WITH FINISHED FLOOR OR AS DIRECTED TO BY OWNER/ DISTRICT.
FCO	JR SMITH	4100 SERIES		FLOOR CLEANOUT
WCO	JR SMITH	4720 COVER		WALL CLEANOUT

zoom								
TAG	DESCRIPTION	MFTR/MODEL NO.	SPECIFICATIONS	MIN PIPE SIZE CONNECTIONS, INCH				REMARKS
				WASTE	VENT	CW	HW	
HB	HOSE BIBB	JAY R SMITH FIG 5670 OR APPROVED EQUAL	BENT NOSE WITH FLANGE AND VACUUM BREAKER	.	.	3/4"		3/4" HOSE CONNECTION, REMOVABLE WHEEL HANDLE.
BFP-1	BACKFLOW PREVENTER	WATTS SERIES 007 OR APPROVED EQUAL	DOUBLE CHECK VALVE ASSEMBLY	.	.	1"		ASSE STANDARD, IAPMO PS31, UPC. VERTICAL FLOW UP INSTALL. BRONZE.



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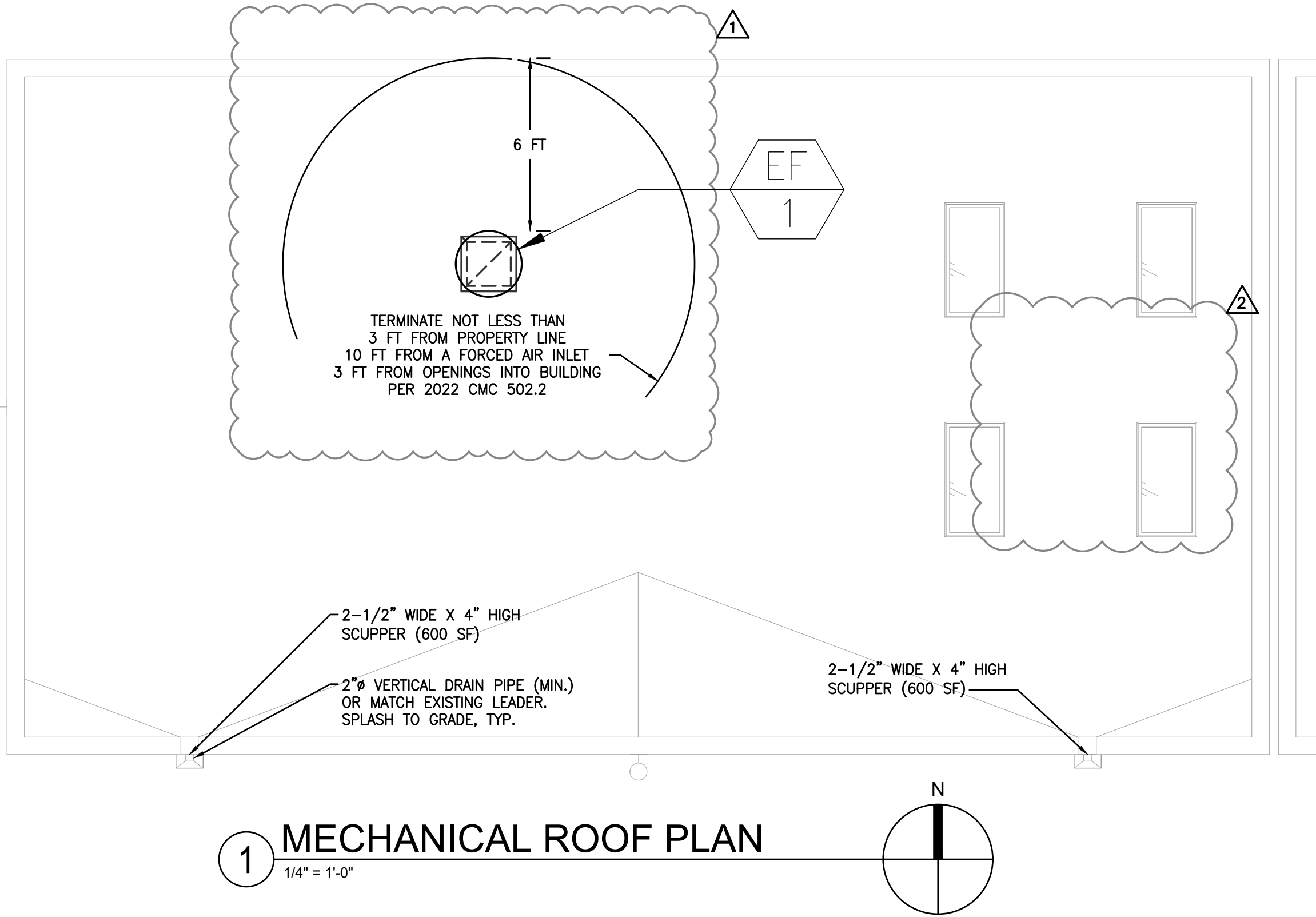
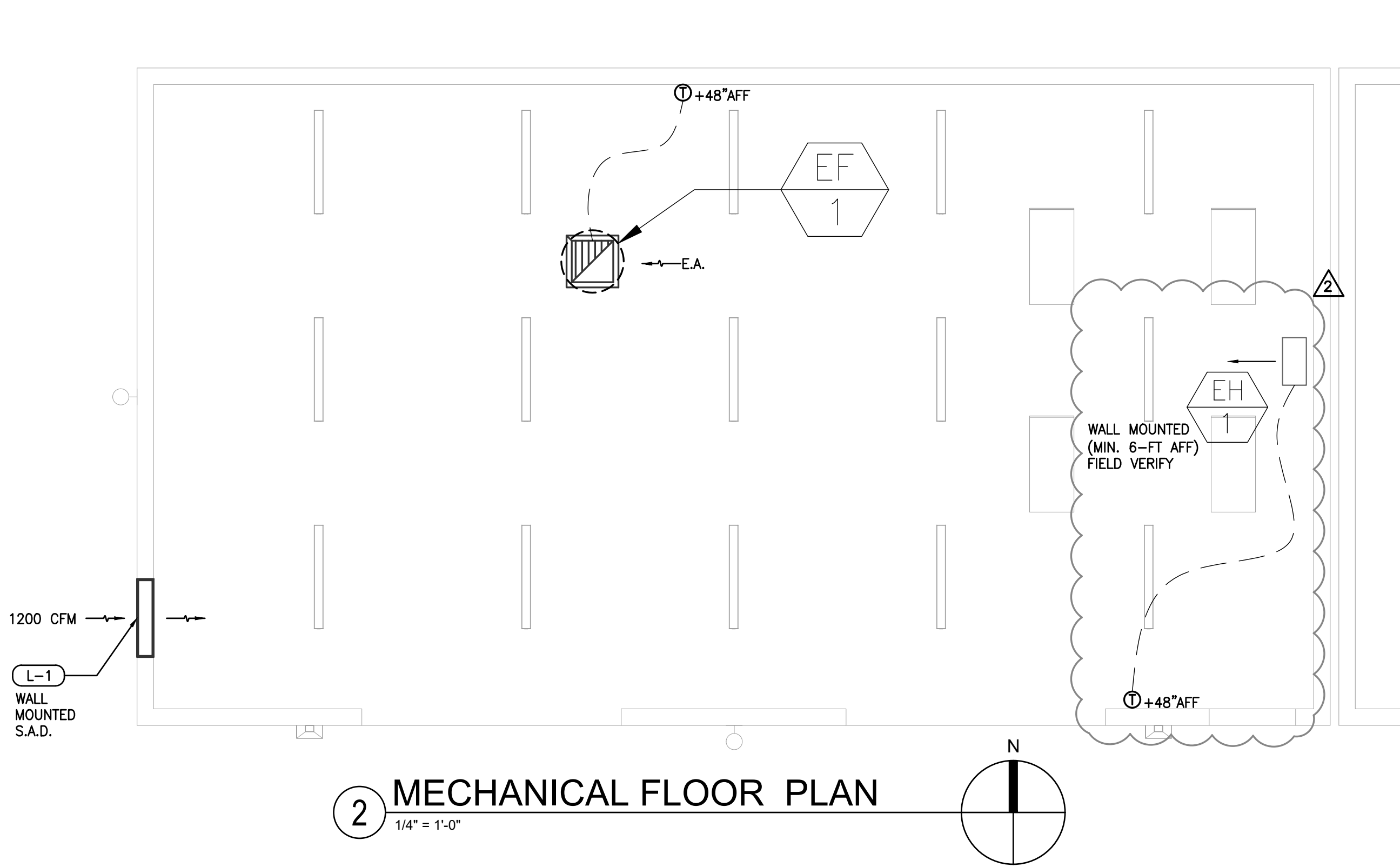
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△	05/11/23	PLAN CHECK RESPONSE 2
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△		
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Title
MECHANICAL PLANS

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Print Date: date

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EXHAUST FAN SCHEDULE													
UNIT TAG	MANUFACTURER	MODEL	SYSTEM / LOCATION	FAN DATA				ELECTRICAL			CONTROL	WEIGHT LBS	REMARKS
				CAPACITY CFM	SP IN. WG	SONES	TYPE	HP	FAN RPM	VOLT/PH/Hz			
EF-1	GREENHECK	G-100-A	EXHAUST FAN / ROOF	1166	0.6	10.4	ROOF	0.3	1725	120/1/60	THERMOSTAT (ADJUSTABLE) INITIALLY SET AT 80°F	51	1, 2, 3, 4, 5

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. SET FAN TO ACTIVATE ON LINE VOLTAGE THERMOSTAT.
4. PROVIDE WITH ROOF CURB.
5. ELECTRICAL WIRING AND CONDUIT BY ELECTRICAL DIVISION.

LOUVER SCHEDULE											
TAG	QTY	MFTR	MODEL	WIDTH (in)	HEIGHT (in)	AIR FLOW (cfm)	FREE AREA (sq ft)	FREE AREA %	FREE AREA VEL (fpm)	PRESSURE DROP (w.g.)	WATER PENETRATION SAFETY FACTOR
L-1	1	RUSKIN	L811	36	21	1200	1.96	37	613	0.08	1.18

INSTALLATION INSTRUCTIONS

- All wiring must be in accordance with National and Local Electrical Codes.
- Heater must be grounded as a precaution against possible shock.
- To avoid possible electrical shock, disconnect all power at the main panel prior to wiring.
- Verify the power supply voltage coming to the heater matches the heater nameplate rating (on back of heater) before energizing heater.
- When installed, heater must be electrically grounded in accordance with the National Electrical Code.
- See **Figures 1** and **Tables 1** for minimum mounting clearances.

CAUTION

- Use only with copper branch circuit conductors.
- Use supply wires suitable for 90 °C (194 °F)
- Minimum mounting height: 6 ft. (1.8 m) in USA and 8 ft. (2.4 m) in Canada.
- High temperature, risk of fire, keep electrical cords, drapery, furnishings, and other combustibles at least 36 in. (915 mm) from the front of the heater and away from the sides and rear.
- To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the heater.
- To prevent possible overheating - or damage due to overheating - keep at least 5 ft. (1524 mm) clearance in front of heater.
- See **Table 1** for side, ceiling and back minimum mounting clearances.
- Wall/Ceiling structures and anchoring must be sufficient strength to support the combined weight of the heater and mounting bracket. See **Table 5**.

LOCATE THE HEATER PROPERLY

The heater may be mounted for either horizontal or vertical heated air discharge.

Note: Install accessories in accordance with their installation instructions prior to mounting heater.

HEATER INSTALLATION

Horizontal Air Discharge Mounting

The factory supplied wall/ceiling brackets may be used or threaded rod (not supplied) may be used.

See **Figure 2** and **Table 2** for threaded rod size and spacing.

If heater is mounted with control compartment toward wall, insure that heater is mounted with enough clearance to the wall (minimum = width of heater) to allow the control compartment access door to open.

WIRING

All wiring must be in accordance with National and Local Electrical Codes.

The heater must be grounded as a precaution against possible shock.

Insure power source is deenergized before wiring heater. Check nameplate on back of heater.

Connect heater only to voltage and phase specified on nameplate.

For supply power wiring:

- a multiple 1/2 in. to 3/4 in. (13 mm to 19 mm) knock-out - Models 7.5 kW and more,
- a multiple 1 3/8 in. to 1 3/4 in. (35 mm to 44 mm) knock-out.

For control wiring:

- 1/2 in. (13 mm) knock-out.

Field wiring must be properly sized to carry the amperage of the heater and all accessories.

The heater has a wiring diagram affixed to the inside of the control compartment access door. Check this diagram before making any electrical connections.

Wiring compartment volume: 85 in.³ (1393 cm³) minimum.

Figure 1
Minimum Clearances

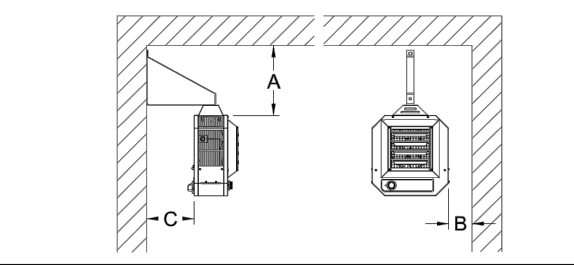


Figure 2
Threaded Rod Spacing Dimensions
Horizontal Air Discharge

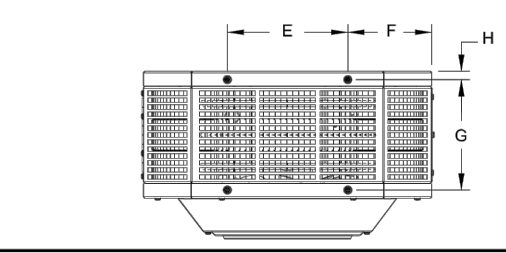


Table 1
Minimum Clearances

Heater kW	Discharge Air	A Ceiling	B Side	C Back
5.1 to 10.0 kW	Horizontal	4 in. 102 mm	6 in. 152 mm	6 in. 152 mm

Table 2
Threaded Rod Spacing Dimensions
Horizontal Air Discharge

Heater kW	Threaded Rod	E	F	G	H
5.1 to 10.0 kW	3/8 - 16	12 in. 305 mm	5 in. 127 mm	6 in. 152 mm	7/16 in. 11 mm

Table 5
Dimensions and Weight

Heater kW	Height	Width	Depth	Weight
5.1 to 10.0 kW	24 1/2 in. 622 mm	22 in. 559 mm	10 7/8 in. 276 mm	67 lb 30 kg

→ EH-1 (ELECTRIC HEATER) EGEB CYCLONE COMMERCIAL UNIT HEATER

FEATURES

COLOR

- Standard: almond

FINISH

- Standard: epoxy/polyester powder paint

VOLTAGE

- 208V, 240V, 277V, 347V, 480V, 600V, 1 or 3-phase

CONSTRUCTION

- Draw-through design for more evenly heated air
- Specialty designed outlet diffuser provides maximum air velocity
- Individually adjustable louvers to direct discharge Airflow
- High-limit temperature control with automatic reset
- 18 and 20 gauge steel

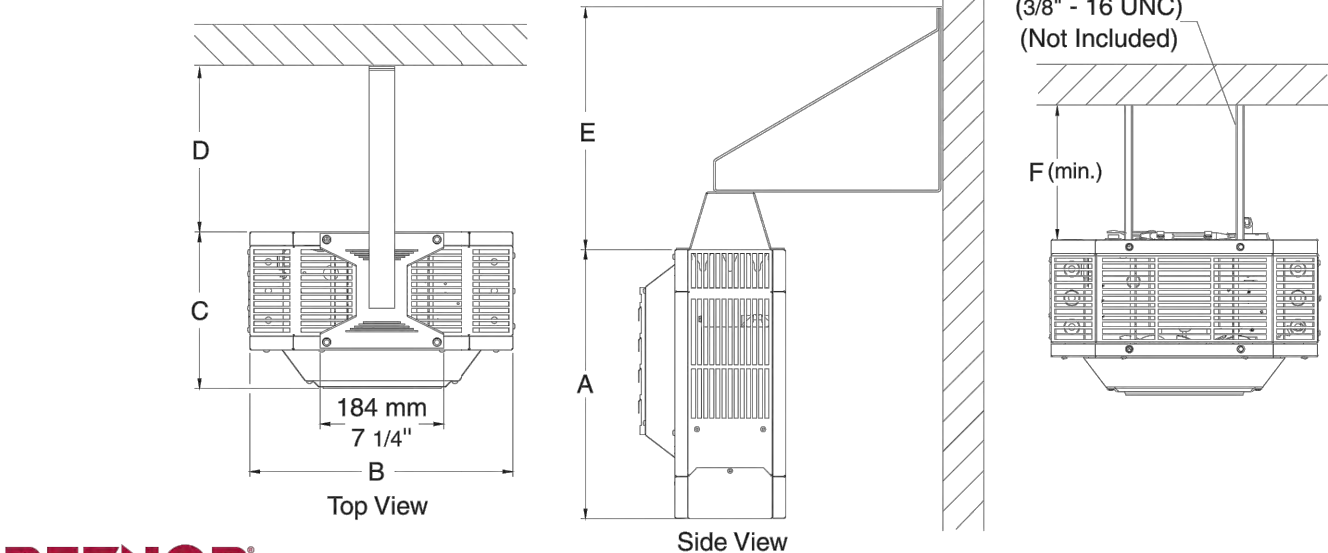
FAN

- Motor - totally enclosed - thermally protected
- Motor mounted in ambient air stream, shielded from heating elements
- Fan delay purges heater of residual heat for longer life

HEATING ELEMENT

- Stainless steel sheath with aluminum fins
- Draw-through design permits greater heat transfer

DIMENSIONS



REZNOR

Electric Heater Catalog • Page 4



CONTROL

- All models have factory installed contactor
- 240/208V control circuit standard on all models (with transformer if needed)
- Full line of unit mounted control accessories available (factory or field installed)

INSTALLATION

- Minimum mounting height: U.S. - 6 ft. (1.8 m) Canada - 8 ft. (2.4m)
- Horizontal or vertical discharge Airflow
- Includes wall and ceiling mounting brackets (for horizontal discharge Airflow)
- For vertical Airflow 4 welded nuts (for threaded rod 3/8-inch x 16 UNC) provided in heater back
- Large and easily accessible control compartment

WARRANTY

- 5-year warranty against defects

APPLICATION

- Factory, warehouse, garage, store, shipping room

EGEB CYCLONE COMMERCIAL UNIT HEATER continued

	2 - 9kW			7.5 - 10kW			15 - 20kW		
	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	416	16 3/8	622	24 1/2	622	24 1/2			
B	395	15 9/16	559	22	559	22			
C	231	9 1/8	276	10 7/8	412	16 1/4			
D	244	9 5/8	357	14 1/16	289	11 3/8			
E	373	14 11/16	507	19 15/16	556	21 7/8			
F	152	6	254	10	152	6			
Weight	kg	lb	kg	lb	kg	lb	kg	lb	kg
	18	40	30	67	41	90			



→ EH-1 MODELS

	Size	3	5	7	9	10	15	19	20
Heating Capacity	kW	3	5	7.5	9.9	10	15	19.8	20
Airflow	MBH	10	17	26	34	34	51	68	68
	cfm	310	310	600	600	625	915	1300	1300
Temperature Rise	°F	31	51	40	52	51	52	49	49
	°C	17	28	22	29	28	29	27	27
Motor	HP	1/50	1/50	1/33	1/33	1/33	1/8	1/8	1/8
	RPM	1490	1490	1490	1490	1490	1490	1550	1550
Ship Weight	Lbs	40	40	67	67	67	90	90	90
	Kg	18	18	30	30	30	41	41	41
Factory Installed Options									
Country Code	Canadian Destination/Approvals	BY15	✓	✓	✓	✓	✓	✓	✓
	US Destination/Approvals	BY16	✓	✓	✓	✓	✓	✓	✓
	208V-1	AK15	✓	✓	✓	✓	✓	✓	✓
	240V-1	AK5	■	■	■	■	■	■	■
	277V-1	AK16	■	■	■	■	■	■	■
	347V-1	AK6E	■	■	■	■	■	■	■
	480V-1	AK4	✓	✓	✓	✓	✓	✓	✓
	600V-1	AK34	✓	✓	✓	✓	✓	✓	✓
	800V-1	AKJE	✓	✓	✓	✓	✓	✓	✓
	800V-3	AK7E	✓	✓	✓	✓	✓	✓	✓
	480V-3	AKJE	✓	✓	✓	✓	✓	✓	✓
	480V	BA14	✓	✓	✓	✓	✓	✓	✓
	80A	BA15	■	■	■	■	■	■	■
Supply Voltage/Phase	Supply Voltage	Control Voltage	STD	✓	✓	✓	✓	✓	✓
	208 to 600V	208-240V	STD	✓	✓	✓	✓	✓	✓
	208 to 600	24	BT1	✓	✓	✓	✓	✓	✓
	1-Stage	IC11	✓	✓	✓	✓	✓	✓	✓
	2-Stage	IC14	■	■	■	■	■	■	■
Fan Controls	Link Mounted Fan Switch	BF1A	✓	✓	✓	✓	✓	✓	✓
	Relay for 24V remote fan switch (by others). Required 24V control voltage	BFS	✓	✓	✓	✓	✓	✓	✓
Field Installed Options (shipped separately)									
Mounting Accessories	Wall bracket for horizontal discharge	SL6	3	5	7	9	10	15	19
	Ceiling bracket for horizontal discharge	STD	✓	✓	✓	✓	✓	✓	✓
	Threaded rod mounts in back for vertical downflow (rod by others)	STD	✓	✓	✓	✓	✓	✓	✓
	Kit to field install retrofit built-in thermostat (specify the voltage of the unit)	IT13	✓	✓	✓	✓	✓	✓	✓
	24V 40°F-80°F single stage wall thermostat	CL1A	✓	✓	✓	✓	✓	✓	✓
	60°F single stage line voltage wall thermostat	CL5	✓	✓	✓	✓	✓	✓	✓
	Kit to field install BF44C fan switch for 277V units or less	CH1A	✓	✓	✓	✓	✓	✓	✓
	Kit to field install BF44B fan switch for units over 277V	CH1B	■	■	■	■	■	■	■
	Kit to field install BF4C fan switch 277V units or less	CH2C	■	■	■	■	■	■	■
	Kit to field install BF4B fan switch for units over 277V	CH2B	■	■	■	■	■	■	■
	Relay kit for 24V remote fan switch (by others). Requires 24V control voltage	IR3	✓	✓	✓	✓	✓	✓	✓

¹ Models with the indicators "1" or "3" are configured from 1 to 3-phase.

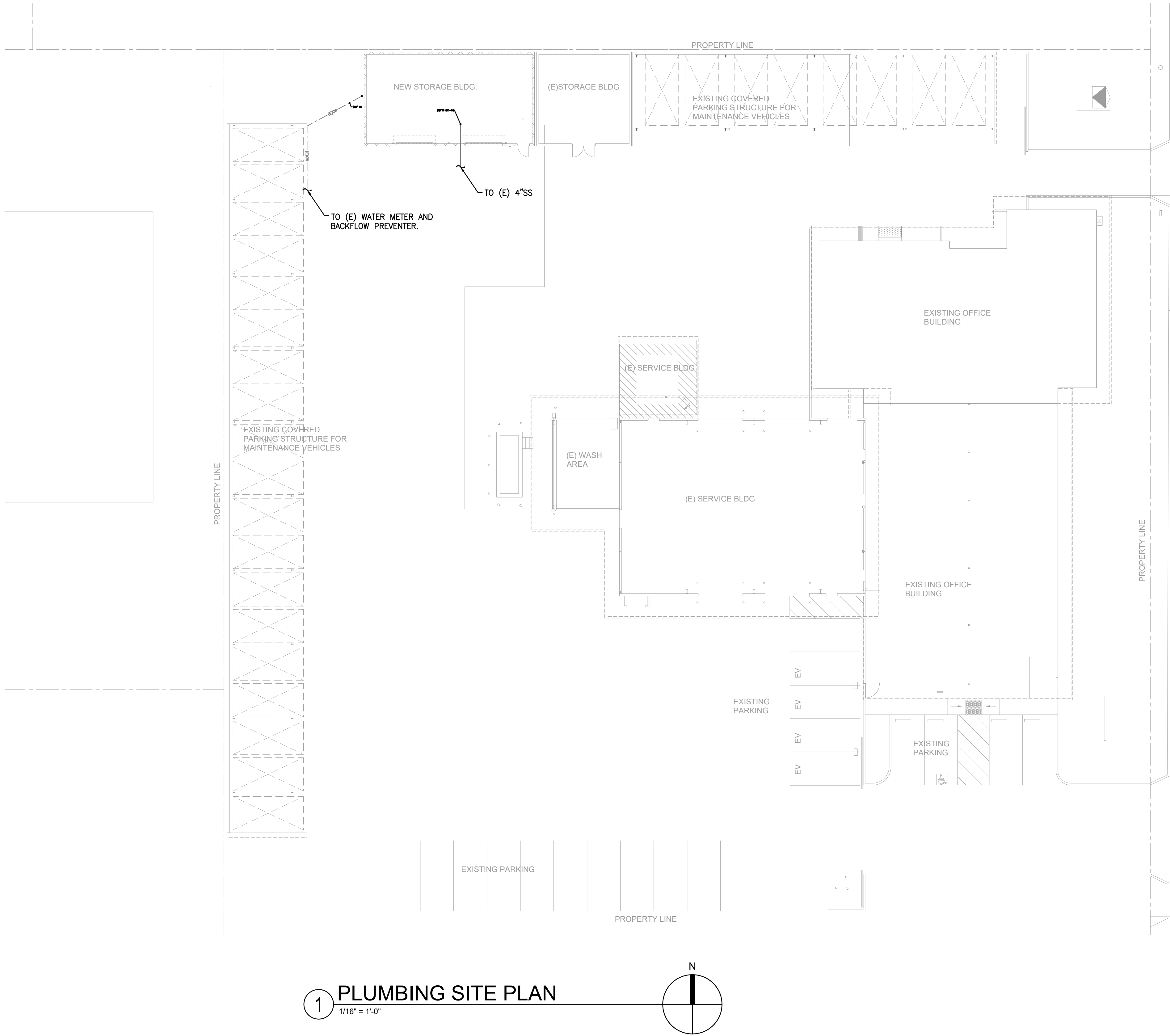
² For the U.S. only: The nominal current of the unit must not exceed 80% of the capacity of the disconnect. Standard color is almond.



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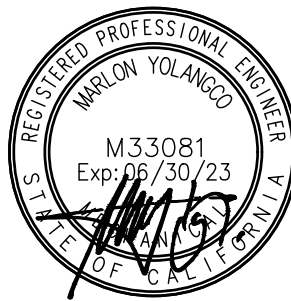
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SITE PLAN

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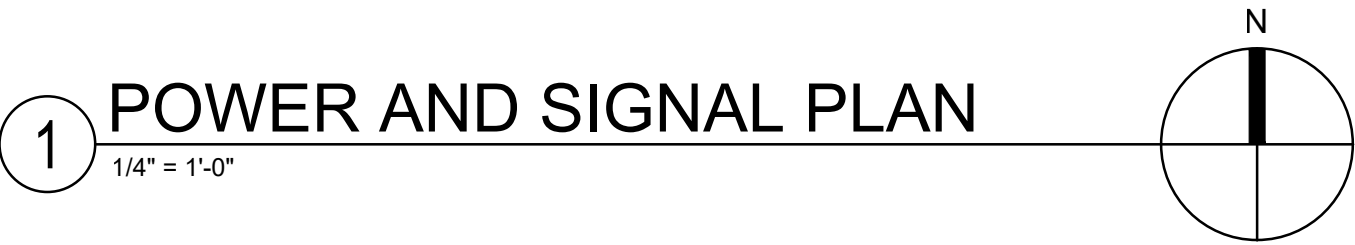
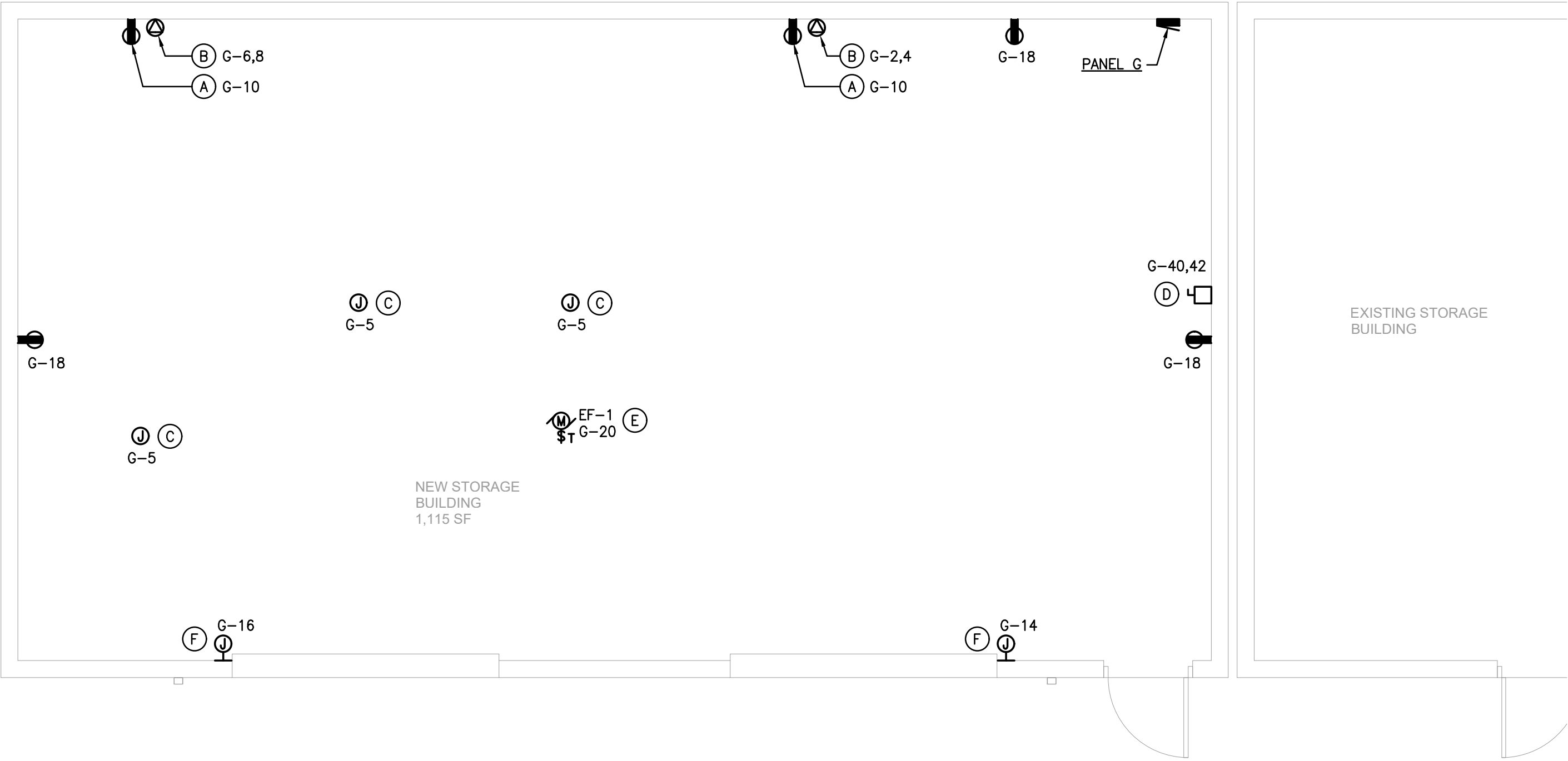
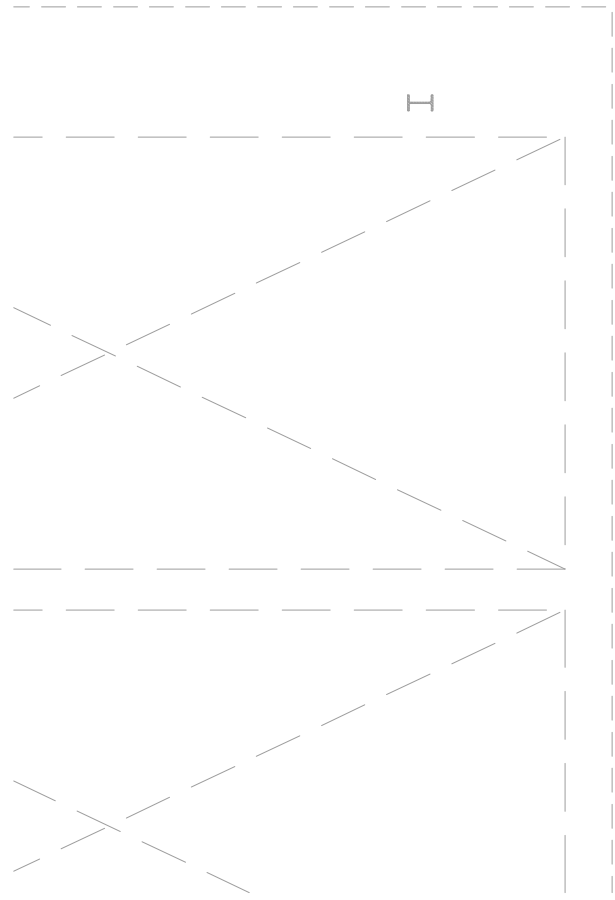
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CIRCUITING NOTES

1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBER. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISC., FITTINGS, ETC., FOR A COMPLETE AND OPERABLE SYSTEM INCLUDING HOME RUN (WHETHER SHOWN OR NOT). BRANCH INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND LATEST CALIFORNIA ELECTRICAL CODE (2022) AND N.E.C. PROVIDE #10 WIRE FOR 120V CIRCUIT RUNS OVER 125'. 
2. UNDERGROUND AND OVERHEAD ROUTING OF BRANCH CIRCUITS ARE GENERALLY NOT SHOWN. HOWEVER, THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR COMPLETE WIRING SYSTEMS INCLUDING HOMERUNS, RESTORATION OF ALL NEW OR EXISTING SURFACES REQUIRING SAWCUTTING, PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. VERIFY ALL APPLICABLE SEALANT SPECIFICATION WITH ARCHITECT.
3. ALL ELECTRICAL LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS SHALL BE INSTALLED AT LEAST 6" OFF FLOOR.
4. PROVIDE EXTRA UNSWITCHED HOT WIRE FOR EXIT AND EMERGENCY FIXTURE.

ELECTRICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	VOLT/PHASE	KW	AMPS	WIRE AND CONDUIT SIZE	CONNECTION
(A)	FUTURE	120-1		3.0	2#12;1#12 GRD 1/2"C	5-20R
(B)	FUTURE	220-1	6.0		2#8;1#10 GRD 3/4"C	60AS-40AF
(C)	FUTURE	120-1		2.7	2#12;1#12 GRD 1/2"C	J-BOX
(D)	ELECTRIC HEATER -- EH-1	220-1	10.0		2#4;1#10 GRD 1"C	60AS-60AF
(E)	EXHAUST FAN	120-1		4.1	2#12;1#12 GRD 1/2"C	J-BOX
(F)	ROLL UP DOORS (2)	120-1		0.8	2#12;1#12 GRD 1/2"C	J-BOX

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NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV #	DATE	DESCRIPTION
△	02/03/23	IST CITY SUBMITTAL
△	04/10/23	PLAN CHECK RESPONSE
△	05/11/23	PLAN CHECK RESPONSE 2
△		
△		

Title
POWER AND SIGNAL
PLAN

Job #:

00000

Print Date:

date

E2.0



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NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:
ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



VISIONS

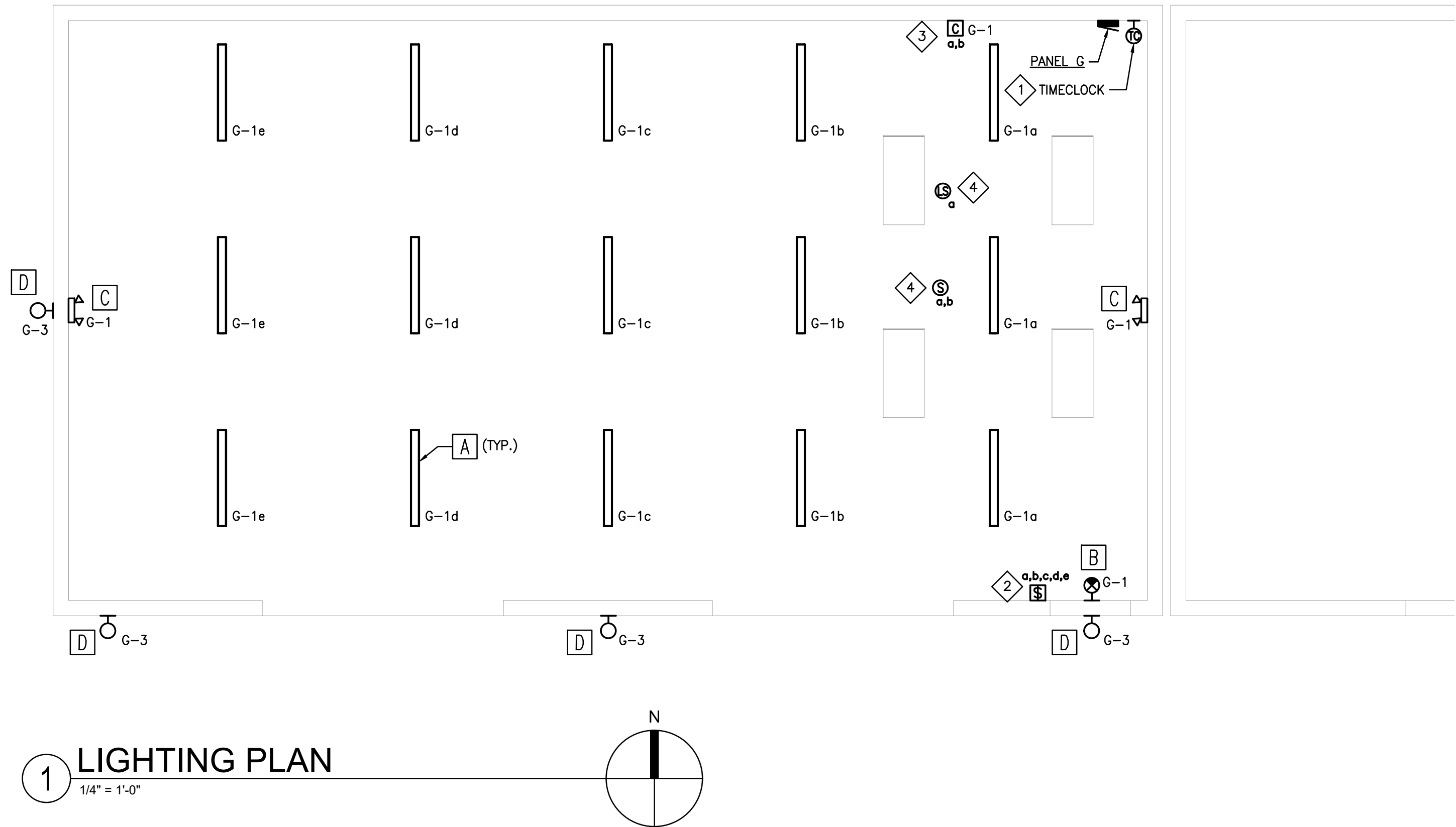
REV #	DATE	DESCRIPTION
△	02/03/23	1ST CITY SUBMITTAL
△	04/10/23	PLAN CHECK RESPONSE
△ 2	05/11/23	PLAN CHECK RESPONSE 2
△		
△		
△		

Lighting Plan

b #: 00000

Print Date: date

E3.0



KEY NOTES

1. PROVIDE PROGRAMMABLE T-24 TIMECLOCK.
2. WALL MOUNT DIMMING SWITCHES.
3. DIMMING ROOM CONTROLLER. MOUNT ABOVE CEILING SPACE.
4. CEILING MOUNT LIGHT SENSOR.

CIRCUITING NOTES

1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISC., FITTINGS, ETC., FOR A COMPLETE AND OPERABLE SYSTEM INCLUDING HOME RUN (WHETHER SHOWN OR NOT). BRANCH INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND LATEST CALIFORNIA ELECTRICAL CODE (2022) AND N.E.C. PROVIDE #10 WIRE FOR 120V CIRCUIT RUNS OVER 125'. 2
2. UNDERGROUND AND OVERHEAD ROUTING OF BRANCH CIRCUITS ARE GENERALLY NOT SHOWN. HOWEVER, THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR COMPLETE WIRING SYSTEMS INCLUDING HOOKUPS, RESTORATION OF ALL NEW OR EXISTING SURFACES REQUIRING CUTTING, PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED. VERIFY ALL APPLICABLE SEALANT SPECIFICATION WITH ARCHITECT.
3. ALL ELECTRICAL LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS SHALL BE INSTALLED AT LEAST 6" OFF FLOOR.
4. PROVIDE EXTRA UNSWITCHED HOT WIRE FOR EXIT AND EMERGENCY FIXTURE.

FIXTURE SCHEDULE

	DESCRIPTION	MFG. CAT. #	LAMPS	REMARKS
A	4'-0" CEILING SURFACE MOUNTED LED LUMINAIRE. 0-10V DIMMING DRIVER	DAYRITE # NWL-440L-8CST-UMV- DIM-120	34.0 WATTS LRD	
B	UNIVERSAL MOUNTED LED EXIT SIGN WITH 90 MINUTE EMERGENCY BATTERY PACK.	EMERGLITE BA-TXN-1-G-120	LAMP FURNISHED WITH UNIT	
C	UNIVERSAL MOUNTED LED EMERGENCY FIXTURE WITH 90 MINUTE EMERGENCY BATTERY PACK.	EMERGLITE EL-2RHL-AB-120	LAMP FURNISHED WITH UNIT	
D	LED SMALL WALL PACK. EMERGENCY BATTERY. INTEGRAL MOTION SENSOR. BLACK	GARCO 101L-16L-200-NW-G2-3 EBPC-1MR12-F1-BK	11 WATTS LED	MOUNT AT 12'-0" AFG



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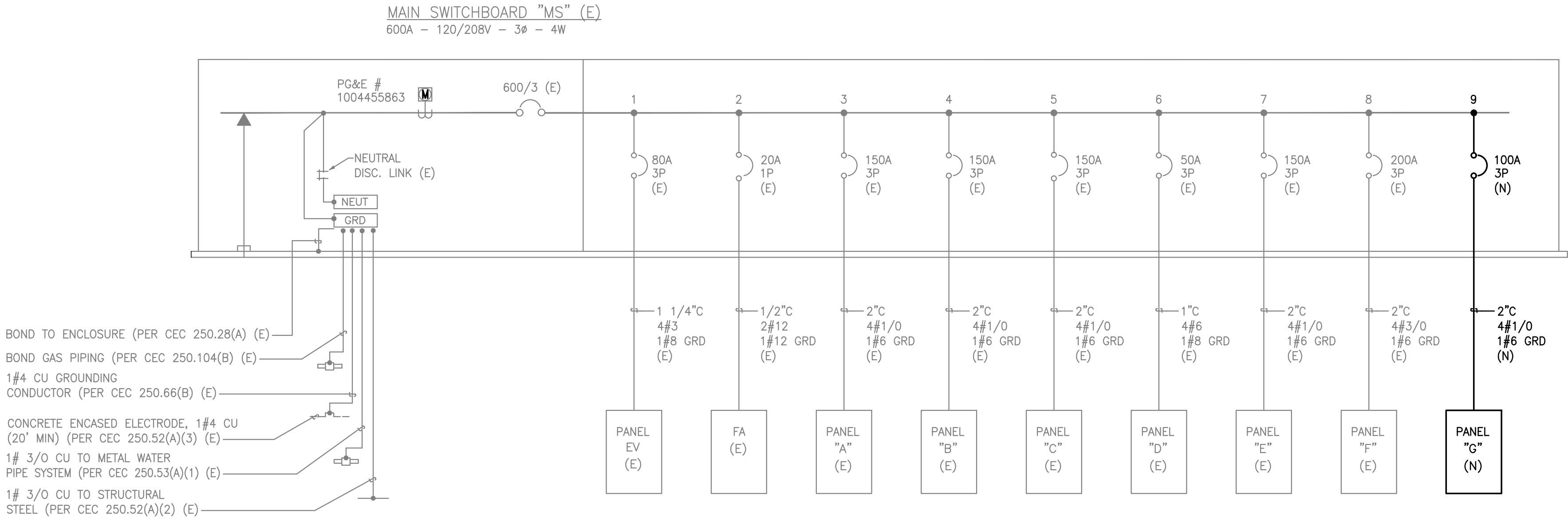
REVISIONS		
REV #	DATE	DESCRIPTION
△	02/03/23	1ST CITY SUBMITTAL
△	04/10/23	PLAN CHECK RESPONSE
△	05/11/23	PLAN CHECK RESPONSE 2
△		
△		

Title
SINGLE LINE DIAGRAM
AND SCHEDULES

Job #:
00000

Print Date:
date

E5.0



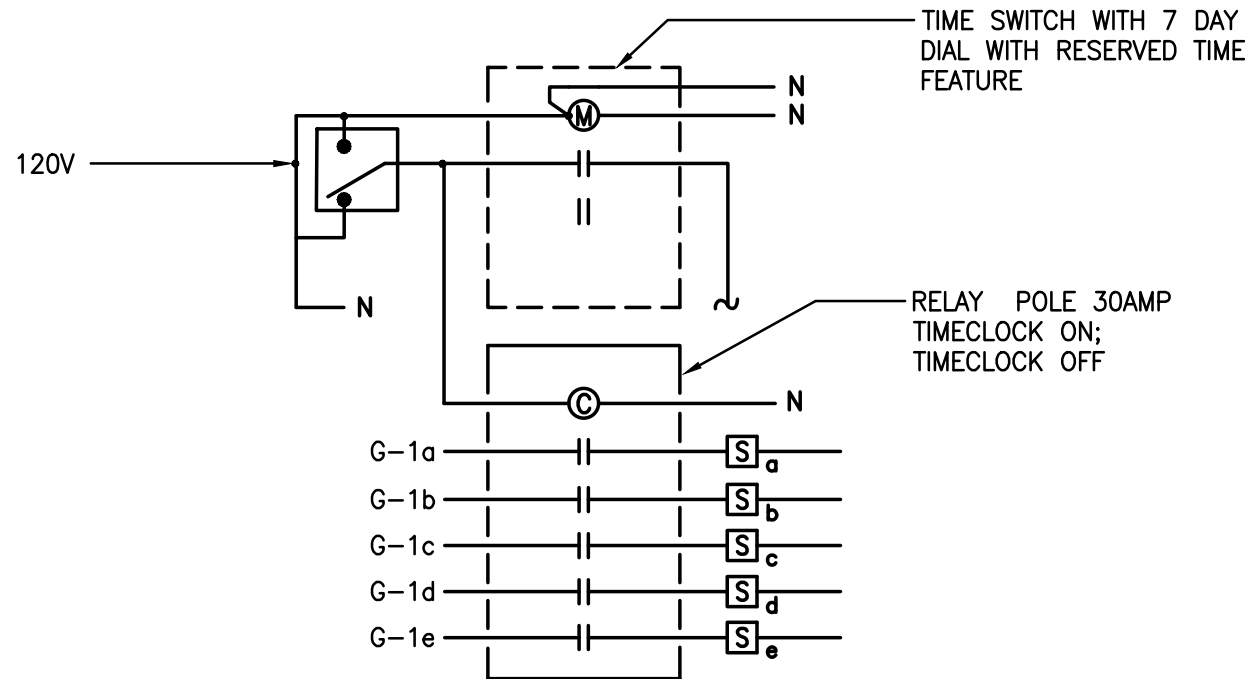
1 ONE LINE DIAGRAM
SCHEMATIC

LOAD RECAP		
DESCRIPTION	KVA	AMPS
1. PANEL EV (E)	14.4	40.0
2. PANEL FA (E)	1.4	4.0
3. PANEL A (E)	27.0	75.0
4. PANEL B (E)	27.0	75.0
5. PANEL C (E)	27.0	75.0
6. PANEL D (E)	9.0	29.0
7. PANEL E (E)	27.0	75.0
8. PANEL F (E)	36.0	100.0
9. PANEL G (N)	27.8	76.9
TOTAL CONNECTED LOAD	198.2	550.2

SINGLE LINE DIAGRAM NOTE

- REMODEL AND RENOVATION PROJECT:
- ALL NEW COMPONENTS SHOWN ON THE SINGLE-LINE DIAGRAM SHALL BE "SERIES-COMBINATION RATED SYSTEM" ADEQUATE FOR THE MAXIMUM FAULT CURRENT AVAILABLE AT THE POINT OF APPLICATION, INCORPORATING THE CURRENT LIMITING OVERCURRENT PROTECTIVE DEVICES AS SPECIFIED. SHOP DRAWINGS SHALL INDICATE SERIES-COMBINATION RATING AND INCLUDE A COPY OF ALL LABELING, INCLUDING RESPECTIVE U.L. LISTINGS.

NEW		120/208 VOLTS 3 PHASE 4 WIRE										MAIN LUGS ONLY CB 100A		MOUNTING SURFACE FLUSH		
PANEL G		TYPE BOLT ON BUS 225														
CKT. NO.	LOAD DESCRIPTION & LOCATION	LTC	REC	BRKR P	T	LCL	PHASE KVA LOAD			LCL	BRKR P	T	LTC	REC	LOAD DESCRIPTION & LOCATION	CKT. NO.
1	LTO-GENERAL			1	20		ØA	0.8	/ 3.0		2	30			FUTURE - B	2
3	LTO-EXTERIOR			1	20			0.2	/ 3.0							4
5	FUTURE - C			1	20				0.5	/ 3.0	2	30			FUTURE - B	6
7	SPARE			1	20			/ 3.0								8
9	SPARE			1	20				/ 0.7		1	20			FUTURE - A	10
11	SPARE			1	20					/ .	1	20			SPARE	12
13	SPARE			1	20			/ 1.0			1	20			ROLL UP DOOR F	14
15	SPARE			1	20				/ 1.0		1	20			ROLL UP DOOR F	16
17	SPARE			1	20					/ 0.5	1	20			REC-DCO	18
19	SPARE			1	20			/ 1.0			1	20			EF-1	20
21	SPARE			1	20				/ .		1	20			SPARE	22
23	SPARE			1	20					/ .	1	20			SPARE	24
25	SPARE			1	20			/ .			1	20			SPARE	26
27	SPARE			1	20				/ .		1	20			SPARE	28
29	SPARE			1	20					/ .	1	20			SPARE	30
31	SPARE			1	20			/ .			1	20			SPARE	32
33	SPARE			1	20				/ .		1	20			SPARE	34
35	SPARE			1	20					/ .	1	20			SPARE	36
37	SPARE			1	20			/ .			1	20			SPARE	38
39	SPARE			1	20				/ 5.0		2	60			ELECTRIC HEATER - D	40
41	SPARE			1	20					/ 5.0	1	20				42
MIN. CB INTER. CAP. 10,000 AMPS		SUB TOTALS		8.8		9.9		9.0								
		TOTAL CONNECTED LOADS		27.7		KVA+(. (LCL)KVAX25%)= 27.7		KVA= 76.9		AMPS				



2 LIGHTING CONTROL DIAGRAM
SCHEMATIC

FILE: N:\bdc\3123006 New Storage Facility - Alameda Abatement District Fish Hatchery Building 21187 Connecticut St. Hayward\33006 E6.0 TITLE 24 - INTERIOR.dwg May 11, 2023 - 8:43am XREF: 33006 TB.dwg GS-CA-PE.dwg MY-CA-PE.dwg GS_Sign.dwg MY_Sign.dwg \$GETVAR,P7) lbook

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 1 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

A. GENERAL INFORMATION				
01 Project Location (city)	Hayward		04 Total Conditioned Floor Area (ft²)	0
02 Climate Zone	3		05 Total Unconditioned Floor Area (ft²)	1,115
03 Occupancy Types Within Project (select all that apply):			06 # of Stories (Habitable Above Grade)	1
• Warehouse				

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.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input type="checkbox"/> New Lighting System				
<input type="checkbox"/> New Lighting System - Parking Garage				
<input checked="" type="checkbox"/> Altered Lighting System				
Total Area of Work (ft²)	0		1115	

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-4903-0423-0559

Report Generated: 2023-04-10 11:07:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 4 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector	
Storage	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	<input type="checkbox"/>	<input type="checkbox"/>
					13				
					Plan Sheet Showing Daylit Zones: E4.0				

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 .

Unconditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment
Fish Storage Facility	Commercial Industrial Storage Shipping	0.6	1,115	669	Area Category PAF
TOTALS:			1,115	669	See Tables I, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Schema Version: rev 20220101

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 7 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Company:

Address:

City/State/Zip:

Documentation Author Signature:

Signature Date:

CEA/ HERS Certification Identification (if applicable):

Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Company:

Address:

City/State/Zip:

Responsible Designer Signature:

Date Signed:

License:

Phone:

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 2 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08	09	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	(See Table F)	(See Table P)	=		
	Conditioned				=			=		
Unconditioned		669	0		= 669	≥ 450	0	= 450	COMPLIES	
Controls Compliance (See Table H for Details)										COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)										

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.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-4903-0423-0559

Report Generated: 2023-04-10 11:07:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 5 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

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.

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.

Registration Number:

Generated Date/Time:

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 3 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

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.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)3C	Design Watts	Field Inspector	
A	A - 4'0" Ceiling Mount LED	No	NA	30	Mfr. Spec	15	No	450	Pass	Fail
Total Designed Watts: UNCONDITIONED SPACES								450		

¹FOOTNOTE: 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.

Building Level Controls

01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel		Pass
Whole Building Auto Time Switch		Fail

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTH-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 6 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

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

Form/Title

NRCL-LTH-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-4903-0423-0559

Report Generated: 2023-04-10 11:07:37

element | one

architecture

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hayward, california 94545
tel. 650.420.1075

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23187 CONNECTICUT STREET
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REVISIONS

REV #	DATE	DESCRIPTION
△	02/03/23	1ST CITY SUBMITTAL
△	04/10/23	PLAN CHECK RESPONSE
△	05/11/23	PLAN CHECK RESPONSE 2
△		
△		
△		

Title
TITLE 24 - INTERIOR

Job #:
00000

Print Date:
date

E6.0

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23006/NL

FILE: N:\Jbc\21\23006 New Storage Facility - Alameda Abatement\Detail Fish Hatchery Building - 21187 Connecticut St. Hayward\23006 E7.0 TITLE 24 - EXTERIOR.dwg May 11, 2023 - 8:43am XREF: 23006 TB.dwg GS-CA-FE.dwg MY-CA-FE.dwg EG-Sign.dwg MY_Sign.dwg

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)(2) for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)(6), 180.1(a) and 180.2(b)(4B) for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 1 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

A. GENERAL INFORMATION

01 Project Location (city)Hayward

02 Climate Zone3

04 Total Illuminated Hardscape Area (ft²)830

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland☐ LZ-2: Moderate - Urban Clusters☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

☐ LZ-1: Low - Rural Areas☒ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

Warehouse

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B) for alterations.

My Project Consists of:

01

☐ New Lighting SystemMust Comply with Allowances from 140.7 / 170.2(e)(6)

☒ Altered Lighting SystemIs your alteration increasing the connected lighting load (Watts)?

Yes

No

03

04

05

% of Existing Luminaires Being Altered¹

Sum Total of Luminaires Being Added or Altered

Calculation Method

☐ < 10%☐ >= 10% and < 50%☐ >= 50%

0

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-4903-0423-0558

Report Generated: 2023-04-10 11:07:37

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 4 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01

02

03

04

05

Area Description

Shut-Off130.2(c)(1) / 160.5(c)

Auto-Schedule130.2(c)(2) / 160.5(c)

Motion Sensor130.2(c)(3) / 160.5(c)

Field Inspector

Pass

Fail

¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

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Report Generated: 2023-04-10 11:07:37

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 7 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Documentation Author Signature:

Company:

Signature Date:

Address:

CEA/ HERS Certification Identification (if applicable):

City/State/Zip:

Phone:

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.

Responsible Designer Name:

Responsible Designer Signature:

Company:

Date Signed:

Address:

License:

City/State/Zip:

Phone:

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 2 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B)

01

02

03

04

05

06

07

08

09

General Hardscape Allowance140.7(d)(1) / 170.2(e)(6) (See Table I)

+

Per Application140.7(d)(2) / 170.2(e)(6) (See Table J)

+

Sales Frontage140.7(d)(2) (See Table K)

+

Ornamental140.7(d)(2) / 170.2(e)(6) (See Table L)

+

Per Specific Area140.7(d)(2) / 170.2(e)(6) (See Table M)

OR

Existing Power Allowance141.0(b)(2) / 180.2(b)(4B) (See Table N)

=

Total Allowed (Watts)

≥

Total Actual (Watts)

07 must be >= 08

281

+

+

+

OR

=

281

≥

33

COMPLIES

Shielding Compliance (See Table G for Details)

N/A

Controls Compliance (See Table H for Details)

Not applicable

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.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 5 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

01

☒ General Hardscape Allowance Table I (below)

☐ Per Application Table J

☐ Sales Frontage Table K

☐ Ornamental Table L

☐ Per Specific Area Table M

"Use it or lose it" Allowance (select all that apply) (select all that apply)

02

03

04

05

06

07

08

09

Area Description

Area Wattage Allowance (AWA)

Illuminated Area (ft²)

Allowed Density (W/ft²)

Area Allowance (Watts)

Perimeter Length (lf)

Allowed Density (W/lf)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

Exterior

830

0.021

17.4

70

0.2

14

31

Initial Wattage Allowance for Entire Site (Watts):

250

Instances of Initial Wattage Allowance (LZ 0 only)¹

Total General Hardscape Allowance (Watts):

281

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 3 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)(6) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire¹,²

How is Wattage determined

Total Number Luminaires³

Luminaire Status³

Excluded per 140.7(a) / 170.2(e)(6A)

Design Watts

Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)¹,⁴

Field Inspector

Pass

Fail

D

D - LED Sconce

☐ Linear

11

Mfr. Spec

3

New

☐

33

NA: < 6200 lumens

☐

☐

Total Design Watts:

33

¹ NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.

EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

³ For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output > 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name:ACMAD Fish Storage FacilityReport Page:(Page 6 of 7)

Project Address:23187 Connecticut StreetDate Prepared:4/10/2023

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-4903-0423-0558

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element | one

architecture

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hayward, california 94545
tel. 650.420.1075

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NEW STORAGE FACILITY
23187 CONNECTICUT STREET,
HAYWARD CA

OWNER:

ALAMEDA COUNTY
MOSQUITO ABATEMENT CENTER
23187 CONNECTICUT STREET
HAYWARD, CA



REVISIONS

REV #	DATE	DESCRIPTION
△	02/03/23	IST CITY SUBMITTAL
△	04/10/23	PLAN CHECK RESPONSE
△	05/11/23	PLAN CHECK RESPONSE 2
△		
△		
△		

Title
TITLE 24 - EXTERIOR

Job #:
00000

Print Date:
date

E7.0

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