

ABBREVIATIONS table listing various abbreviations and their corresponding full names, organized in columns.

ABBREVIATIONS (CONT'D) table continuing the list of abbreviations and their full names.

FIRE NOTES table containing fire-related specifications and requirements.

FIRE SPRINKLER NOTES

NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT.

THE SUBMITTAL OF RESIDENTIAL FIRE SPRINKLER PLANS REQUIRED BY SECTION 910.12 OF THE CALIFORNIA BUILDING CODE HAS BEEN DEFERRED.

VHFSZ GENERAL NOTES

NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT.

VHFSZ GENERAL NOTES table containing various notes and specifications for the project.

CRG GENERAL NOTES

NOTE: NOT ALL NOTES LISTED ARE APPLICABLE TO PROJECT.

CRG GENERAL NOTES table containing various notes and specifications for the project.

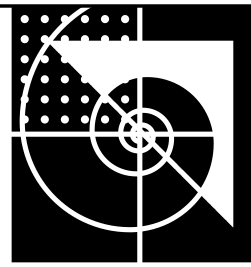
ELECTRICAL NOTES table containing electrical specifications and requirements.

GENERAL NOTES table containing general project specifications and requirements.

GENERAL NOTES (CONT'D) table continuing the list of general project specifications and requirements.

Project information including the name 'COTA VERA SWM CLUB', year '202014', company 'HOMEFED CORPORATION', address '2045 Kettner Blvd., Ste. 100 San Diego, CA 92101', phone '619 299 7070', website 'www.starkap.com', and a professional seal for 'STARK ARCHITECTURE AND PLANNING'.

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

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FILED 20220220 14 HOMEFED CORP Cota Vera Swim Club 2022014 CDL_CD REVIT 2022014 CD - COTA VERA SWIM CLUB.rvt
ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK AND ARE THE PROPERTY OF STARCK ARCHITECTURE AND PLANNING DEVELOPED FOR USE ON THIS PROJECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF STARCK ARCHITECTURE AND PLANNING.

Y N/A RESPON PARTY

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS [BSC-CG] The provisions of individual sections of Chapter 3 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.141 for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

- HCD Department of Housing and Community Development
- BSC California Building Standards Commission
- DSA-SS Division of the State Architect, Structural Safety
- CSHPD Office of Statewide Health Planning and Development
- LR Low Rise
- HR High Rise
- AA Additions and Alterations
- N New

CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL 5.101.1 SCOPE

The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 and are included here for reference)

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.

Eligible vehicles are limited to the following:
1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating of 9 or 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or 41CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit, work-related transportation of adults for the purpose of ride-sharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND.

Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a locally enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
 - a. Scheduling construction activity during dry weather, when possible.
 - b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
 - c. Drainage swales or lined ditches to control stormwater flow.
 - d. Mulching or hydroseeding to stabilize disturbed soils.
 - e. Erosion control to protect slopes.
 - f. Protection of storm drain inlets (gravel bags or catch basin inserts).
 - g. Perimeter sediment control (perimeter silt fence, fiber rolls).
 - h. Sediment trap or sediment basin to retain sediment on site.
 - i. Stabilized construction exits.
 - j. Wind erosion control.
 - k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
 - a. Dewatering activities.
 - b. Material handling and waste management.
 - c. Building materials stockpile management.
 - d. Management of washout areas (concrete, paints, stucco, etc.).
 - e. Control of vehicle/equipment fueling to contractor's staging area.
 - f. Vehicle and equipment cleaning performed off site.
 - g. Spill prevention and control.
 - h. Other housekeeping BMPs acceptable to the enforcing agency.

Y N/A RESPON PARTY

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE ACRE OR MORE ACRES OF LAND. Comply with all locally enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/construction/stormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
 - a. Where there is no local utility power supply.
 - b. Where the local utility is unable to supply adequate power.
 - c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and in a suitable listed cabinet, box enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage for each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS/TEV CAPABLE SPACES PROVIDED WITH EVSE/2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total*	25% of EV capable spaces*

1. Where there is insufficient electrical supply.
2. The number of required EV/TEV EV capable spaces provided with EVSE in column 3 count towards the total number of required EV/TEV EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE, any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is cumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

Y N/A RESPON PARTY

5.106.5.3.3 Use of automatic load management systems (ALMS) ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 119, Section 119-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
 - a. Where there is no local utility power supply.
 - b. Where the local utility is unable to supply adequate power.
 - c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:

1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuit for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

5.106.5.4.2 Raceway and panel capacity requirements for medium- and heavy-duty EVSE. [N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:

1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuit for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
	Greater than 90,000	3 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
	Greater than 135,000	3 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
	Greater than 256,000	3 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N] 1. Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade lighting that meets the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS (2)

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1.2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATINGS (U)					
For area lighting	N/A	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	N/A	U1	U2	U3	UR

Y N/A RESPON PARTY

MAXIMUM ALLOWABLE GLARE RATING (G)

MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G1	G1

MAXIMUM ALLOWABLE GLARE RATING (G)

MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G0	G1
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting"

5.106.8.1 Facing Backlight. Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Conveyors (one or two segments of the same property line) have equivalent point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing Glare. For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]

1. See also California Building Code Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Building Code for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planned to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:

1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY SECTION 5.201 GENERAL 5.201.1 SCOPE

The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL 5.301.1 SCOPE

The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

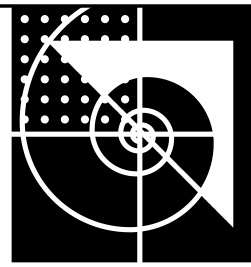
SECTION 5.302 DEFINITIONS 5.302.1 DEFINITIONS

The following terms are defined in Chapter 2 and are included here for reference)

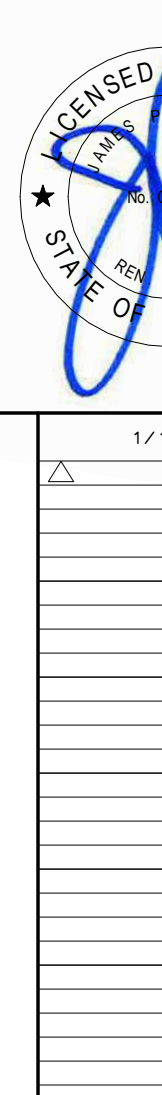
EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAf) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FA



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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Table with 3 columns: Y, NA, RESPON PARTY

SECTION 5.303 INDOOR WATER USE
5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.
5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:
1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

Table with 3 columns: Y, NA, RESPON PARTY

SECTION 5.402 DEFINITIONS
5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.
BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.
BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.
ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.
TEST. A procedure to determine quantitative performance of a system or equipment
SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT
5.407.1 WEATHER PROTECTION PROVIDE A weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.
5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.
5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.
5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:
5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.
5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

Table with 3 columns: Y, NA, RESPON PARTY

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.
5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:
1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.
Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.
Exceptions to Sections 5.408.1.1 and 5.408.1.2:
1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.
5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.
5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.
Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-Lit-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for non-residential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.
Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/
5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.
Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.
Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov)

Table with 3 columns: Y, NA, RESPON PARTY

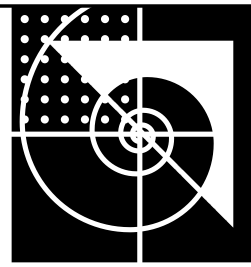
5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For occupancies that are not regulated by OSHPD or for occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.8 shall apply.
Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements.
Commissioning requirements shall include:
1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.
Exceptions:
1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.
Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and/or air conditioning.
Informational Notes:
1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.
5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.
5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:
1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.
5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be permitted. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
a. An explanation of the original design intent.
b. Equipment and systems to be tested, including the extent of tests.
c. Functions to be tested.
d. Conditions under which the test shall be performed.
e. Measurable criteria for acceptable performance.
4. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.
5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.
5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements (California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations).
5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.
5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.
5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.
5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.
5.410.4.2 (Reserved)
Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b) for additional testing requirements of specific systems.
5.410.4.2.4 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:
1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.
5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.
5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

Table with 3 columns: Y, NA, RESPON PARTY

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.
5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of warranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.
5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.
DIVISION 5.5 ENVIRONMENTAL QUALITY
SECTION 5.501 GENERAL
5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.
SECTION 5.502 DEFINITIONS
5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.
A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.
1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32°Fahrenheit.
COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.
COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).
Note: See CCR, Title 17, Section 93120.1.
DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).
DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.
ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.
ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.
ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.
ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.
EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.
FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.
GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.
GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995), or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14; the AR4 GWP values are found in column "100 yr" of Table 2.14.
HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009).
LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.
LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009).
MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.
MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O3/g ROG).
PRODUCT-WEIGHTED MIR (PW-MIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW-MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
PSIG. Pounds per square inch, gauge.
REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.
SCHRADER ACCESS VALVES. Access fittings with a valve core installed.
SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.
SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.
VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).
Note: Where specific regulations are cited from different agencies such as SCAQM, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.
SECTION 5.503 FIREPLACES
5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed wood-burning fireplace, and accept to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.
5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.
SECTION 5.504 POLLUTANT CONTROL
5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.
5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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.

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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:
1. 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.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT

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/DRDS/CIQRHTM/RL1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

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 PVMIR 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 (d)(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 9 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150

TABLE 5.504.4.3 - CONT.

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	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	
STAINS	100
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 THIS 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:
1. Manufacturer's product specification
2. 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/CCDC/PDP/DCDC/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/CCDC/PDP/DCDC/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 (17CCR 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:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian ANS/NZS 2269 or European 638 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS

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	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 133, 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).

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/CCDC/PDP/DCDC/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 for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 12, 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/CCDC/PDP/DCDC/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, CBCR, 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 CBCR, 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. (DSA-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:
1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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 ACOUSTICAL 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 enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: (DSA-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 altered 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:
1. Within the 65 CNEL noise contour of an airport.
Exceptions:
1. In or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
2. In 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 In or CNEL 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_{eq} -1hr during any hour of operation shall have building addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered 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.toobase.org/PDF/CaseStudies/stc_icc_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 Install Halon HVAC, refrigeration and fire suppression equipment that do not contain Halons.

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 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 levers. Chain levers 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 psig 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 psig, 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:
1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. 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:
1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. 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).

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3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

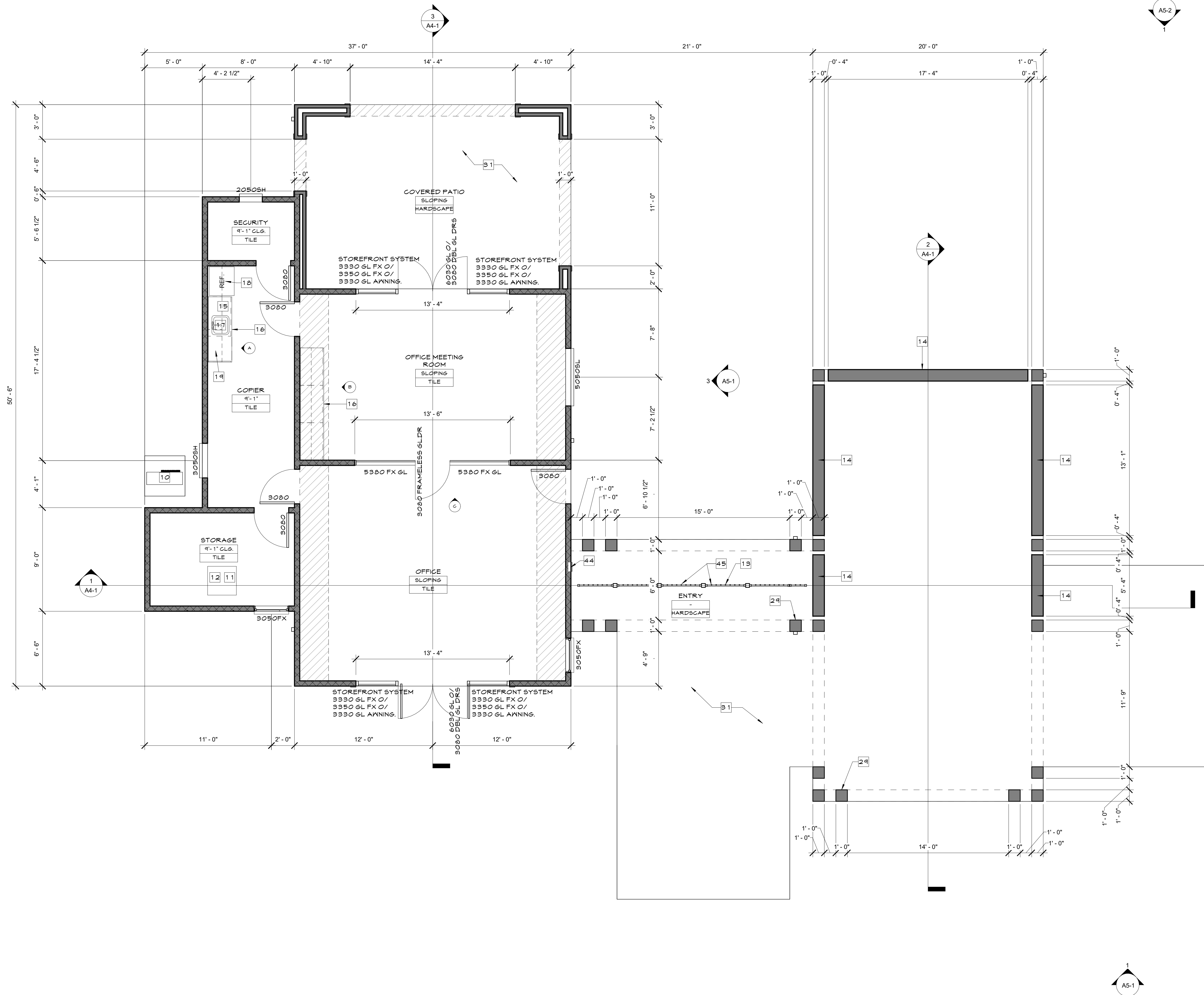
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3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

703 VERIFICATIONS
703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, permits, 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 RESPONSIBILITIES ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

FIRST FLOOR SEGMENT 1



F.P. KEYNOTES

- (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)
- 1 OUTLINE OF FLOOR ABOVE OR BELOW.
 - 2 FLOOR MATERIAL TRANSITION.
 - 3 FLOOR DRAIN.
 - 4 TANK-LESS WATER HEATER, PER ENERGY COMPLIANCE RINAI RUR-90L.
 - 5 IRRIGATION CONTROL/ FIRE ALARM.
 - 6 UTILITY EQUIPMENT PANELS: VERIFY LOCATION WITH UTILITY CO.
 - 7 LOW VOLTAGE CONTROL CABINETS.
 - 8 ELECTRICAL METER/ MAIN PANEL: VERIFY LOCATION WITH UTILITY CO.
 - 9 GAS METER: VERIFY LOCATION WITH UTILITY CO.
 - 10 A/C CONDENSER P/V CONCRETE PAD.
 - 11 ATTIC FAU: LOCATE WITHIN 20' OF ATTIC ACCESS OPENING.
 - 12 80'X80' CEILING MOUNTED ATTIC ACCESS PANEL.
 - 13 METAL FENCE/ GATE: SEE LANDSCAPE DRAWINGS FOR DETAILS.
 - 14 CAST-IN-PLACE CONCRETE PER ELEVATIONS.
 - 15 KITCHEN COUNTERTOP: QUARTZ SLAB, 4" X 16" TILE BACKSPASH, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 16 CABINETS: 4" HIGH X 3" DEEP TOE SPACE, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 17 SINK: 33" X 18" UNDERMOUNT STAINLESS ST. DOUBLE BOWL, KOHLER K3184-NA, IV. GARBAGE DISPOSAL: INSINKERATOR, FAUCET: MOEN 911404, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 18 REFRIGERATOR (NIG): 3/2" TRIP CLEAR, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 19 ABOVE-THE-COUNTER MICROVAPE OVEN.
 - 20 WALL-MOUNTED DOUBLE DRINKING FOUNTAIN, HIGH 4 LOW: PER CBC SECTION 1133A.
 - 21 RESTROOM COUNTERTOP: QUARTZ SLAB, DESIGNER: 4" BACKSPASH AND RECTANGULAR UNDERMOUNT LAV: KOHLER K-3214-0 FAUCET: MOEN T6143 OR EQUAL.
 - 22 6" CMU WALL AT TRASH ENCLOSURE.
 - 23 SHOWERHEAD: MOEN T2 TO 2EP, OR EQUAL MOUNT AT 12" A.F.F.
 - 24 ADA SHOWERHEAD: MOEN 900TEP, TRANSFER VALVE: MOEN T2101.
 - 25 SHOWER WALLS: 1/2" WALL TILE FULL HEIGHT, 1/2" X 1/2" FLOOR TILE.
 - 26 WATER CLOSET: KOHLER K-12516-NA PROVIDE 18" FROM WALL TO CENTERLINE OF FIXTURE @ ACCESSIBLE TOILET COMPARTMENTS.
 - 27 URINAL: KOHLER K4991-ET-0.
 - 28 TOILET PAPER HOLDER.
 - 29 RE-SAWN WOOD: BEAM / POST.
 - 30 NOT USED.
 - 31 HARDSCAPE: PER LANDSCAPE.
 - 32 TRASH/RECYCLING CONTAINER.
 - 33 8" CMU WALL WITH STACK BOND.
 - 34 SUFFICIENT MANEUVERING SPACE: 60" DIAMETER TURNING SPACE PROVIDED.
 - 35 GRAB BAR PER CBC 11B-604.5, 11B-604.8.2.3, 11B-608.3, 11B-609, SEE INTERIOR ELEVATIONS.
 - 36 FIXED MIRROR: HEIGHT AS NOTED ON INTERIOR ELEVATIONS.
 - 37 FLOOR/WALL MOUNTED TOILET PARTITION: BOBRICK STAINLESS STEEL.
 - 38 TOILET SEAT COVER DISPENSER.
 - 39 PAPER TOWEL DISPENSER: POOL RESTROOM BOBRICK B-9144.
 - 40 PAINTED METAL POST AT TRASH ENCLOSURE.
 - 41 WALL-MOUNTED BABY CHANGING STATION P/V 32" X 48" CLEAR FLOOR SPACE: 42" MAX. TO OPERABLE PORTION, 3/4" MAX. TO TOP SURFACE, 2" MIN. TO BOTTOM.
 - 42 MOP SINK.
 - 43 HOSE BIBB.
 - 44 FIRE EXTINGUISHER 2A RATED INSIDE DEDICATED CABINET: SEE AD-9.
 - 45 EGRESS DOOR: INSTALL HORIZONTAL TOUCH BAR EXIT HARDWARE: MONARCH 25L/S TO TRIM @ 15 PANG P/V CYLINDER.
 - 46 SOAP DISPENSER, SINK UNDERMOUNT.

FLOOR PLAN NOTES

1. ALL DIMENSIONS TO FACE OF STUD (F.O.S.) UNO.
2. WRITTEN DIMENSIONS TO PREVAIL OVER SCALINGS OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY DEVELOPER OR ARCHITECT OF ANY INCONSISTENCIES.
3. REFER TO BUILDING SECTIONS AND INT. ELEV. FOR CLARIFICATION AND DIMENSIONS OF SOFFITTED AREAS AND POTSHelves.
4. ALL WINDOWS TO HAVE VINYL FRAMES. SEE EXTERIOR ELEVATIONS FOR DIRECTION OF OPERATION AND LOCATION OF MUNTIN BARS (ALL OPERABLE WINDOWS TO HAVE SCREENS).
5. ALL GLASS IN DOORS AND SLIDING GLASS DOORS TO BE TEMPERED. PROVIDE TEMPERED GLASS WHERE BOTTOM EDGE IS LESS THAN 60" FROM WALKING SURFACE AT 1) STAIRWAYS, 2) SHOWERS AND TUBS, AND 3) WITHIN A 24" ARC OF A DOOR IN CLOSED POSITION (CBC).
6. REFER TO INTERIOR ELEVATIONS DESIGNATED BY THIS SYMBOL (A).
7. SHOWERS AND TOILETS FOR BATHERS TO BE PROVIDED WITH HOT AND COLD WATER AND NOT TO EXCEED 110°F AND NOT ADJUSTABLE BY BATHERS.
8. HOSE BIBB TO BE PROVIDED WITH POTABLE WATER AND BACKFLOW PREVENTION.
9. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
10. MAIN ENTRANCE TO INCLUDE SIGN FIXED TO DOOR THAT READS THE FOLLOWING: THIS DOOR IS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.

WALL LEGEND



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

COTA VERA SWIM CLUB
 2022014 HOMEFED CORPORATION

FLOOR PLAN

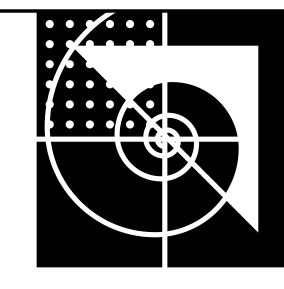
FLOOR PLAN SEGMENT 1

A2-3



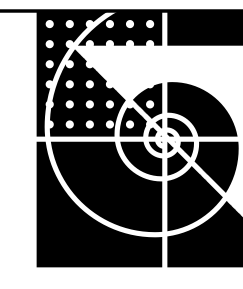
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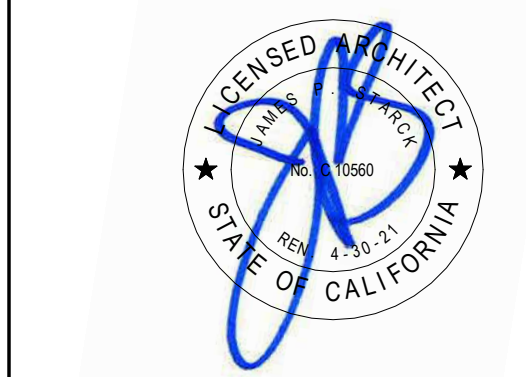


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COTA VERA SWIM CLUB
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FLOOR PLAN

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FLOOR PLAN SEGMENT
2

A2-4

F.P. KEYNOTES

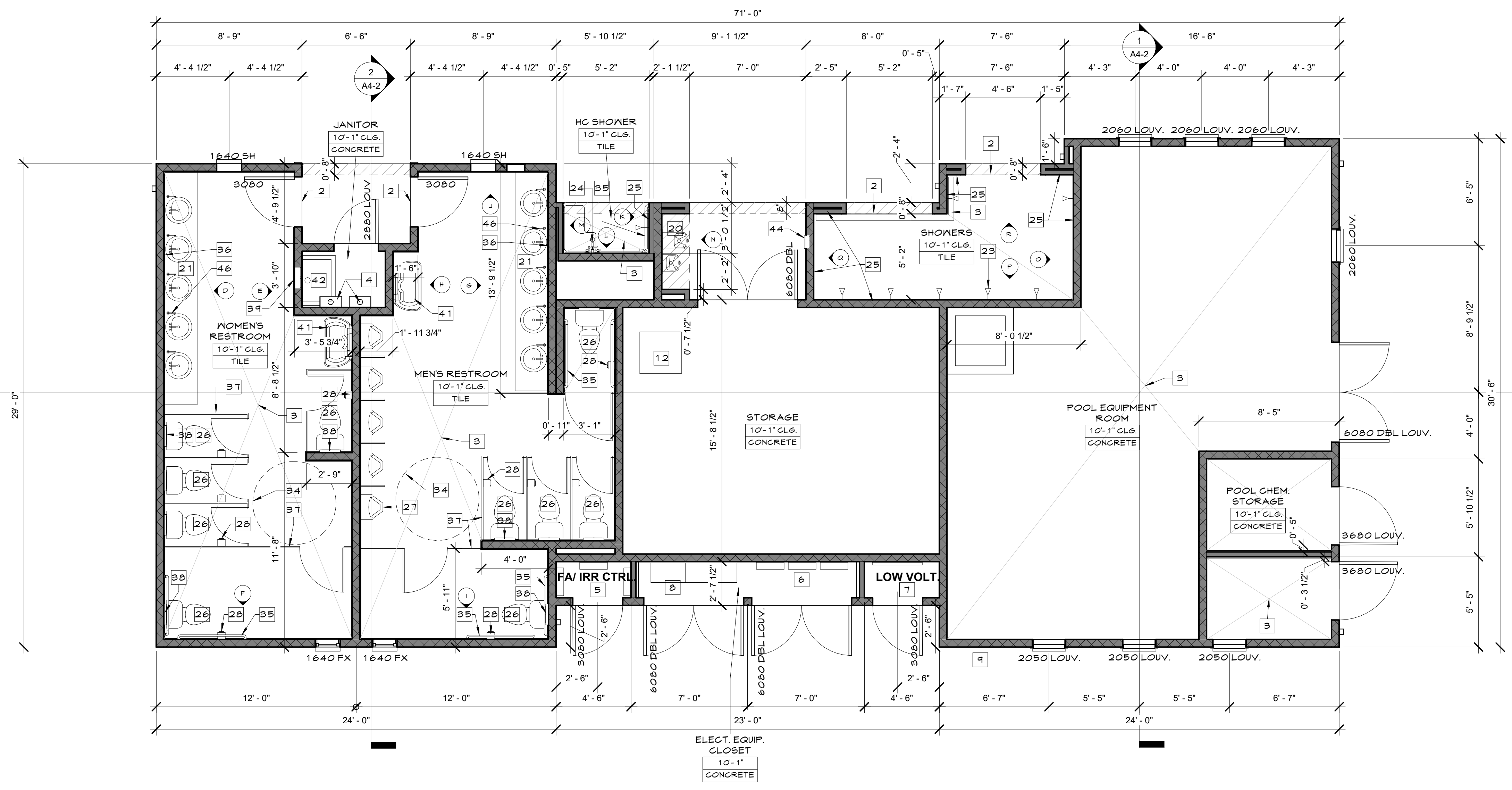
- (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET.)
- 1 OUTLINE OF FLOOR ABOVE OR BELOW.
 - 2 FLOOR MATERIAL TRANSITION.
 - 3 FLOOR DRAIN.
 - 4 TANK-LESS WATER HEATER: PER ENERGY COMPLIANCE: RINAI RUR40L.
 - 5 IRRIGATION CONTROL/ FIRE ALARM.
 - 6 UTILITY EQUIPMENT PANELS: VERIFY LOCATION WITH UTILITY CO.
 - 7 LOW VOLTAGE CONTROL CABINETS.
 - 8 ELECTRICAL METER/ MAIN PANEL: VERIFY LOCATION WITH UTILITY CO.
 - 9 GAS METER: VERIFY LOCATION WITH UTILITY CO.
 - 10 A/C CONDENSER P/V CONCRETE PAD.
 - 11 ATTIC FAN: LOCATE WITHIN 20' OF ATTIC ACCESS OPENING.
 - 12 30"X30" CEILING MOUNTED ATTIC ACCESS PANEL.
 - 13 METAL FENCE/ GATE: SEE LANDSCAPE DRAWINGS FOR DETAILS.
 - 14 CAST-IN-PLACE CONCRETE PER ELEVATIONS.
 - 15 KITCHEN COUNTERTOP: QUARTZ SLAB, 4"X16" TILE BACKSPASH, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 16 CABINETS: 4" HIGH X 3" DEEP TOE SPACE, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 17 SINK: 33" X 18" UNDERMOUNT STAINLESS ST. DOUBLE BOWL, KOHLER K3184-4-NA, IV. GARBAGE DISPOSAL: INSINKERATOR, FAUCET: MOEN 911404, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 18 REFRIGERATOR (NIG): 3/2" HIDE CLEAR, VERIFY WITH INTERIOR DESIGNER DRAWINGS.
 - 19 ABOVE-THE-COUNTER MICROVAPE OVEN.
 - 20 WALL-MOUNTED DOUBLE DRINKING FOUNTAIN, HIGH 4 LOW: PER CBC SECTION 113.9A.
 - 21 RESTROOM COUNTERTOP, QUARTZ SLAB, DESIGNER: 4" BACK-SPLASH AND RECTANGULAR UNDERMOUNT LAV: KOHLER K3231-0 FAUCET: MOEN T6143 OR EQUAL.
 - 22 6" CMU WALL AT TRASH ENCLOSURE.
 - 23 SHOWERHEAD: MOEN T2 TO 2EP, OR EQUAL/MOUNT AT 12" AFF.
 - 24 ADA SHOWERHEAD: MOEN 300TEP, TRANSFER VALVE: MOEN T2101.
 - 25 SHOWER WALLS: 12" WALL TILE FULL HEIGHT, 12"X12" FLOOR TILE.
 - 26 WATER CLOSET: KOHLER K-125 16-NA, PROVIDE 18" FROM WALL TO CENTERLINE OF FIXTURE @ ACCESSIBLE TOILET COMPARTMENTS.
 - 27 URINAL: KOHLER K494 1-ET-0.
 - 28 TOILET PAPER HOLDER.
 - 29 RE-SAVIN FLOOD: BEAM / POST.
 - 30 NOT USED.
 - 31 HARDSCAPE: PER LANDSCAPE.
 - 32 TRASH/RECYCLING CONTAINER.
 - 33 8" CMU WALL WITH STACK BOND.
 - 34 SUFFICIENT MANEUVERING SPACE: 60" DIAMETER TURNING SPACE PROVIDED.
 - 35 GRAB BAR PER CBC 11B-604.5, 11B-604.6.2.3, 11B-600.3, 11B-600.4, SEE INTERIOR ELEVATIONS.
 - 36 FIXED MIRROR: HEIGHT AS NOTED ON INTERIOR ELEVATIONS.
 - 37 FLOOR/WALL MOUNTED TOILET PARTITION: BOBRICK STAINLESS STEEL.
 - 38 TOILET SEAT COVER DISPENSER.
 - 39 PAPER TOWEL DISPENSER: POOL RESTROOM BOBRICK B-3144.
 - 40 PAINTED METAL POST AT TRASH ENCLOSURE.
 - 41 WALL-MOUNTED BABY CHANGING STATION P/V 32"X48" CLEAR FLOOR SPACE: 42" MAX. TO OPERABLE PORTION, 34" MAX. TO TOP SURFACE, 21" MIN. TO BOTTOM.
 - 42 MOP SINK.
 - 43 HOSE BIBB.
 - 44 FIRE EXTINGUISHER: 2A RATED INSIDE DEDICATED CABINET: SEE T.A.D.-9.
 - 45 EGRESS DOOR: INSTALL HORIZONTAL TOUCH BAR EXIT HARDWARE, MONARCH 25L/S TO TRIM @ 13 PANG P/V CYLINDER.
 - 46 SOAP DISPENSER: SINK UNDERMOUNT.

FLOOR PLAN NOTES

1. ALL DIMENSIONS TO FACE OF STUD (F.O.S.) UNO.
2. WRITTEN DIMENSIONS TO PREVAIL OVER SCALINGS OF DRAWINGS. SUBCONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY DEVELOPER OR ARCHITECT OF ANY INCONSISTENCIES.
3. REFER TO BUILDING SECTIONS AND INT. ELEV. FOR CLARIFICATION AND DIMENSIONS OF SOFFITTED AREAS AND POTSHELVES.
4. ALL WINDOWS TO HAVE VINYL FRAMES. SEE EXTERIOR ELEVATIONS FOR DIRECTION OF OPERATION AND LOCATION OF MUNTIN BARS (ALL OPERABLE WINDOWS TO HAVE SCREENS).
5. ALL GLASS IN DOORS AND SLIDING GLASS DOORS TO BE TEMPERED. PROVIDE TEMPERED GLASS WHERE BOTTOM EDGE IS LESS THAN 60" FROM WALKING SURFACE AT 1) STAIRWAYS, 2) SHOWERS AND TUBS, AND 3) WITHIN A 24" ARC OF A DOOR IN CLOSED POSITION (GBC).
6. REFER TO INTERIOR ELEVATIONS DESIGNATED BY THIS SYMBOL (A).
7. SHOWERS AND TOILETS FOR BATHERS TO BE PROVIDED WITH HOT AND COLD WATER AND NOT TO EXCEED 110°F AND NOT ADJUSTABLE BY BATHERS.
8. HOSE BIBB TO BE PROVIDED WITH POTABLE WATER AND BACKFLOW PREVENTION.
9. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
10. MAIN ENTRANCE TO INCLUDE SIGN FIXED TO DOOR THAT READS THE FOLLOWING: THIS DOOR IS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.

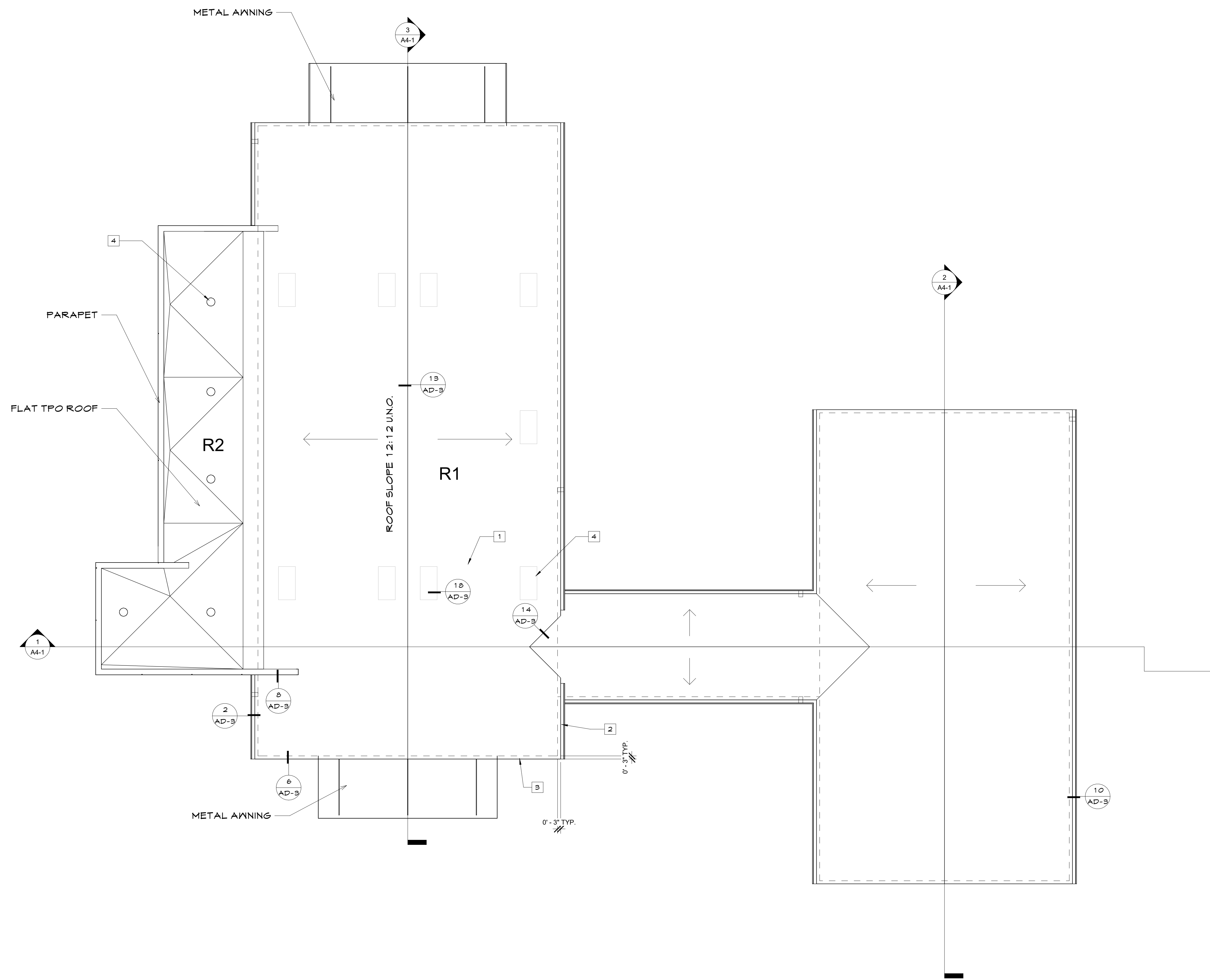
WALL LEGEND

- PARTIAL HEIGHT 2x4 STUD WALL
- 2x4 STUD WALL
- PARTIAL 2x6 STUD WALL
- 2x6 STUD WALL
- SOFFIT OR ARCH SOFFIT - SEE INTERIOR OR EXTERIOR ELEVATIONS FOR HEIGHTS



FIRST FLOOR SEGMENT 2

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



- R.P. KEYNOTES** (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)
- 1 ASPHALT SHINGLE ROOFING; PER ELEVATIONS.
 - 2 EAVE; 2X6 RESAWN FASGIA.
 - 3 RAKE; 2X6 RESAWN FASGIA.
 - 4 ATTIC VENTS WITH INSECT SCREEN (SEE ATTIC VENT CALCS).
 - 5 ALUMINUM DOWNSPOUTS; STANDARD RECTANGULAR.
 - 6 ALUMINUM GUTTERS; STANDARD C/SSEE SHAPED GUTTERS.
 - 7 CHIMNEY SHROUD.
- FOR EXHAUST VENT PENETRATION SEE: ## AD-11

ATTIC VENT CALCS

OFFICE			
R1			
ROOF AREA		174628 S.F.	
REQUIRED ATTIC VENTILATION (1/800)		581.78 S.F.	
PROVIDED ATTIC VENTILATION:			
HIGH	(4) CHASIN @ 648 S.F./EA =	250.2 S.F.	
LOW	(5) CHASIN @ 648 S.F./EA =	324 S.F.	
TOTAL		583.2 S.F.	
R2			
ROOF AREA		47992 S.F.	
REQUIRED ATTIC VENTILATION (1/150)		319.68 S.F.	
PROVIDED ATTIC VENTILATION:			
	(5) TPO VENT @ 122 S.F./EA =	610 S.F.	
TOTAL		610 S.F.	
RESTROOMS/ POOL EQUIPMENT			
R3			
ROOF AREA		281805 S.F.	
REQUIRED ATTIC VENTILATION (1/800)		996.84 S.F.	
PROVIDED ATTIC VENTILATION:			
HIGH	(6) CHASIN @ 648 S.F./EA =	388.8 S.F.	
LOW	(9) CHASIN @ 648 S.F./EA =	583.2 S.F.	
TOTAL		972 S.F.	

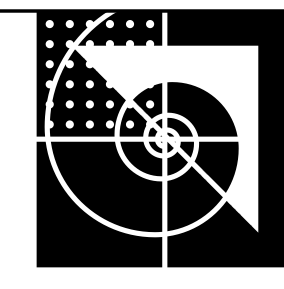
VENTS:
 PROVIDE CHASIN CLOAKED VENTS;
 MODEL TAPERED ASPHALT SHINGLE STYLE ICG-ES 5BGGI-1650A
 INSTALL CHASINS CLOAKED VENT TILES IN ACCORDANCE WITH MANUFACTURERS PUBLISHED RECOMMENDATIONS.

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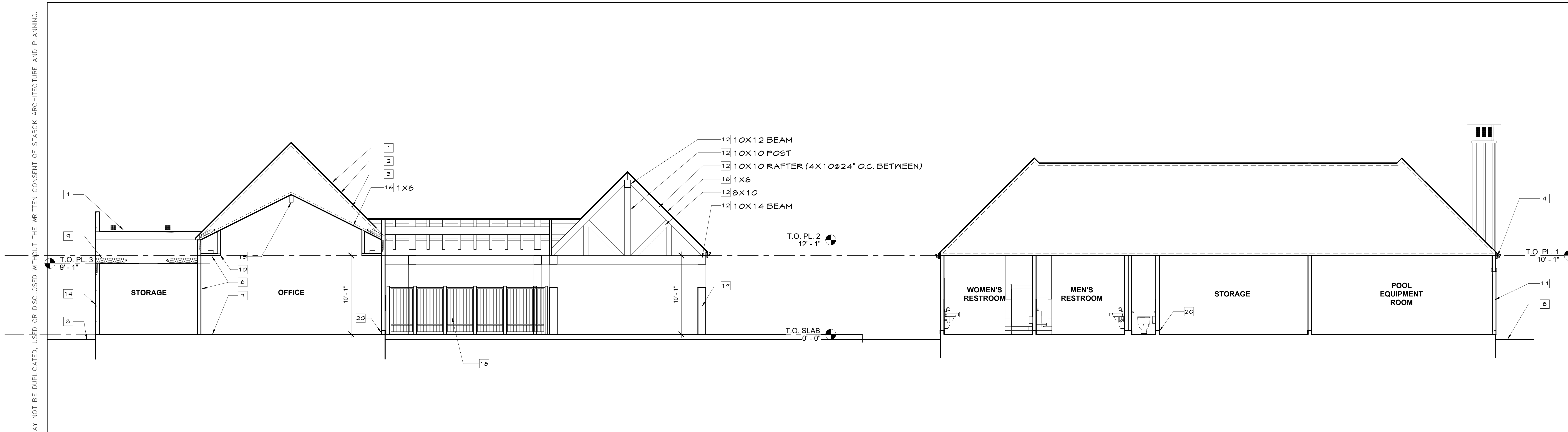
ROOF PLAN SEGMENT 1

F:\2022\2022014 HOMEFED CORP Cota Vera Swim Club\2022014 CDI_CD REVIT\2022014_CD - COTA VERA SWIM CLUB.rvt
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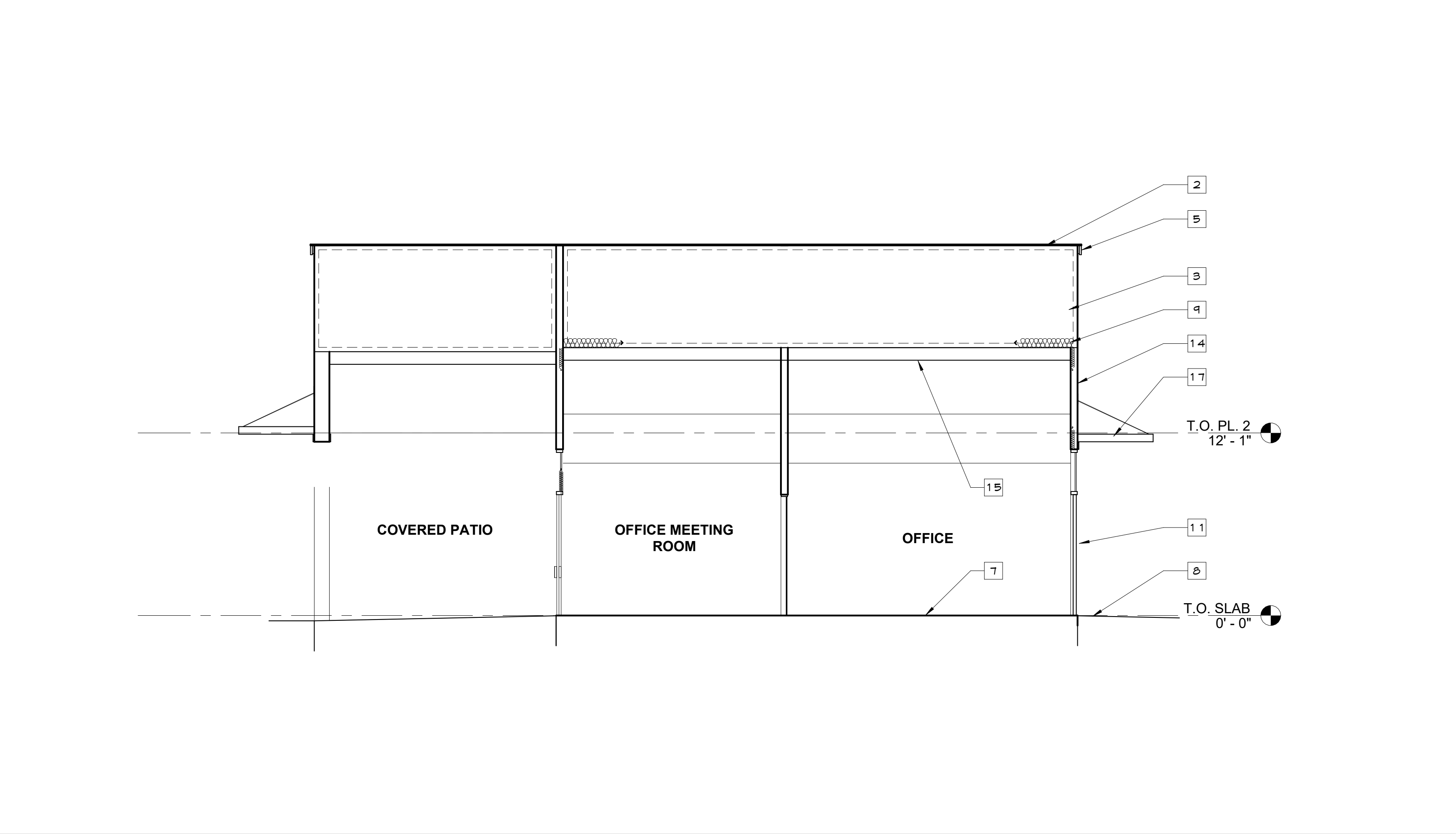


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 Architecture + Planning

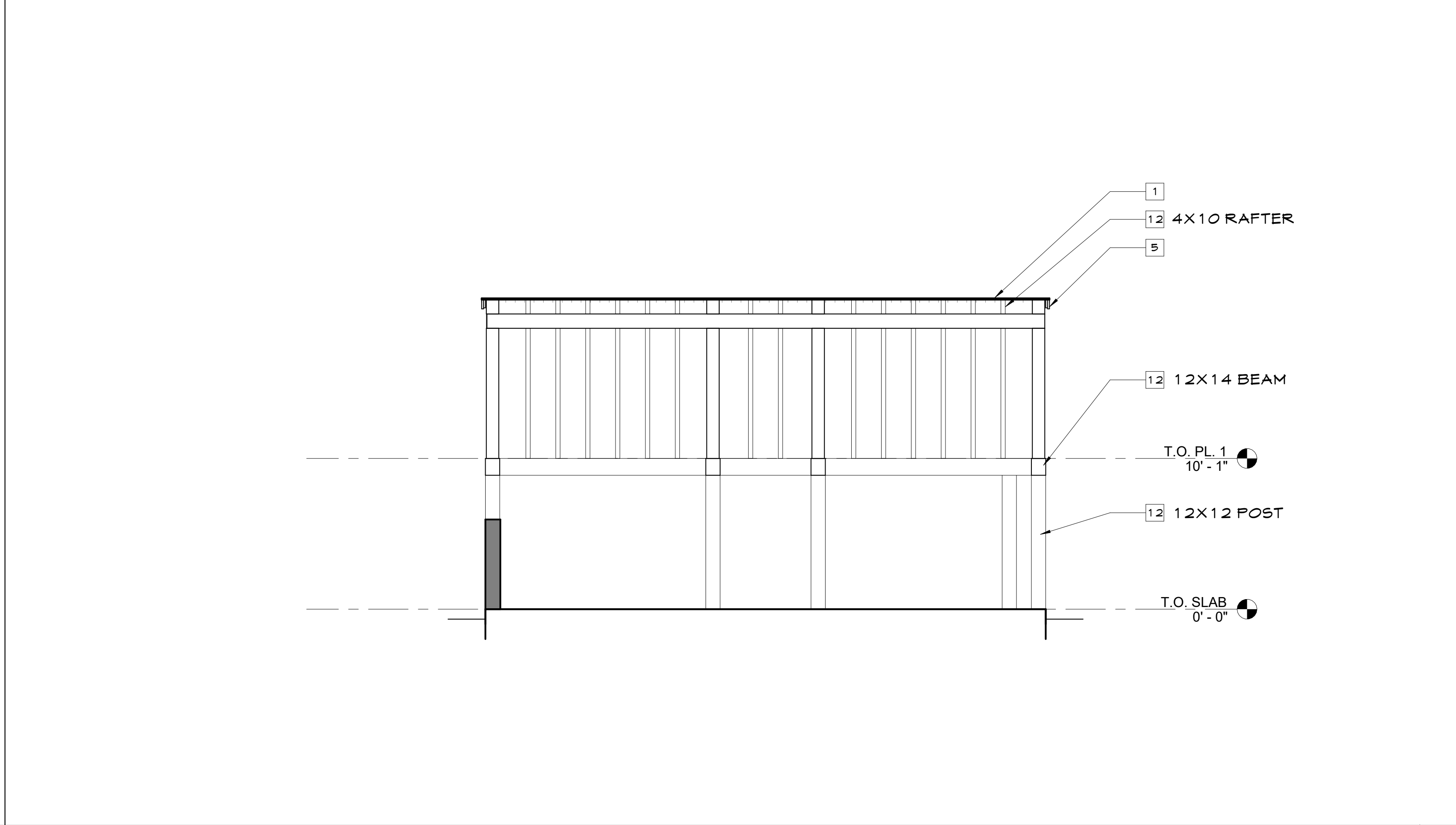
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BUILDING SECTION SCALE 3/16" = 1'-0" **1**



BUILDING SECTION SCALE 3/16" = 1'-0" **3**



BUILDING SECTION 2 SCALE 3/16" = 1'-0" **2**

B.S. KEYNOTES

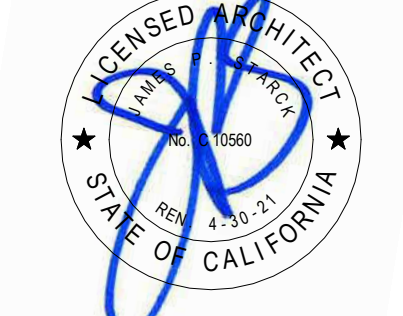
- 1 ROOFING: PER ROOF PLANS.
- 2 ROOF SHEATHING: PER STRUCTURAL DRAWINGS.
- 3 PREFABRICATED TRUSSES - SEE STRUCT DRWS.
- 4 EAVE: PER ROOF PLANS.
- 5 RAKE: PER ROOF PLANS.
- 6 1/2" GYPSUM BOARD AT WALLS AND CEILINGS, TYPICAL.
- 7 CONCRETE SLAB-ON-GRADE.
- 8 FINISH GRADE/SURFACE: SLOPE 2% MINIMUM AWAY FROM BUILDING EXTERIOR.
- 9 THERMAL BATT INSULATION: SEE INSULATION SCHEDULE AND ENERGY COMPLIANCE BY OTHERS.
- 10 ARCH / SOFFIT: PER INTERIOR ELEVATIONS.
- 11 WINDOWS / DOORS: SEE EXTERIOR ELEVATIONS.
- 12 RESAWN WOOD BEAMS, RAFTER TAILS, POST SIZE AS NOTED OR DETAILED.
- 13 TOILET PARTITION WALL / DOOR.
- 14 FINISH PER EXTERIOR ELEVATIONS.
- 15 WOOD BEAMS - SIZE AS NOTED PER RCF PLANS - SEE INT DESIGN DRWS.
- 16 TAG CEILING FINISH - SEE RCF PLANS - SEE INT DESIGN DRWS.
- 17 METAL FINISH: PER DETAILS.
- 18 POOL GATE / FENCE: SEE LANDSCAPE ARCHITECT DRWS.
- 19 6" HIGH CAST-IN-PLACE CONCRETE WALL.
- 20 6" HIGH CONCRETE CURB: SEE FLAT WORK PLAN.

LEGEND

GYPSUM BOARD ATTACHMENT	
1. CEILINGS TO BE NAILED AT 1' O.C. OR SCREWED AT 12" O.C.	
2. WALLS TO BE NAILED AT 8' O.C. OR SCREWED AT 12" O.C.	

INSULATION SCHEDULE	
ROOF INSULATION	= R-90
2x4 WALL INSULATION	= R-19
2x6 WALL INSULATION	= R-19
FLOOR / CEILING INSULATION	= R-19

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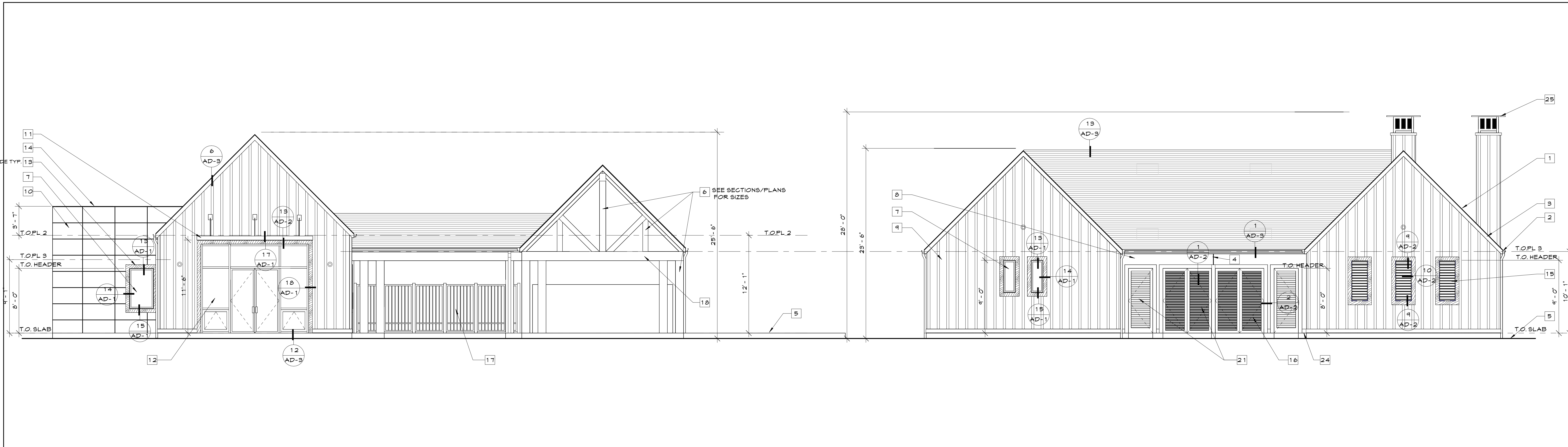
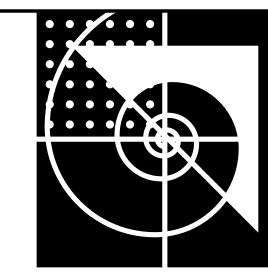
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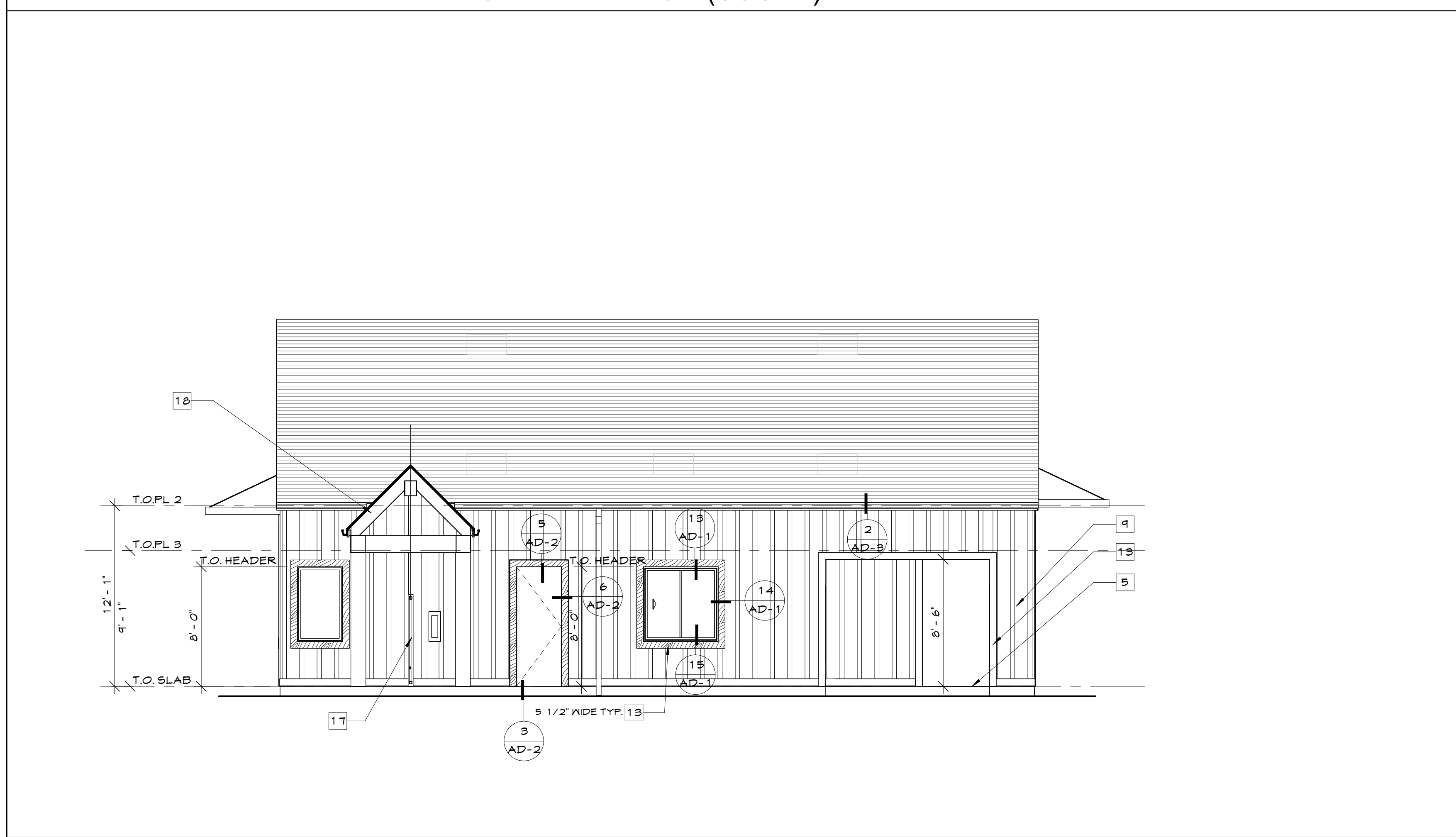
BUILDING SECTIONS

A4-1



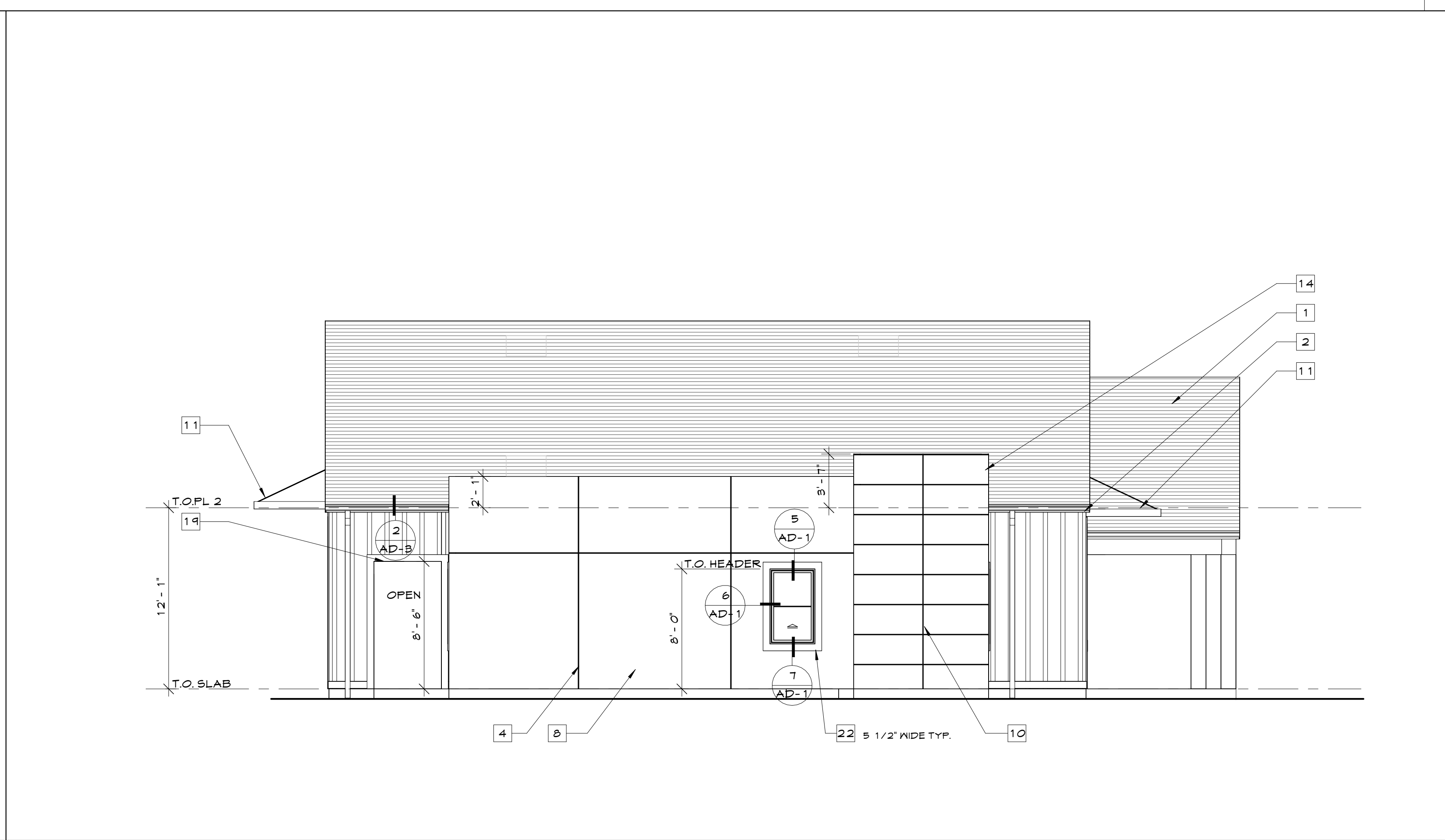
FRONT ELEVATION (SOUTH)

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



OFFICE RIGHT SIDE ELEVATION

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



LEFT SIDE ELEVATION (WEST)

SCALE 3/16" = 1'-0" 2

ELEVATION KEYNOTES (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)

- 1 ROOFING: PER LEGEND.
- 2 EAVE: RESAWN WOOD FASCIA PER ROOF PLAN.
- 3 RAKE: RESAWN WOOD RAKE BOARD PER ROOF PLAN.
- 4 PLASTER EXPANSION JOINT.
- 5 FINISH GRADE / TOP OF HARDSCAPE OR SIDEWALK: SLOPE 2% MIN. AWAY FROM BUILDING.
- 6 RESAWN WOOD POST: SIZE AS NOTED OR DETAILED.
- 7 VINYL WINDOW/ SLIDING GLASS DOOR.
- 8 EXTERIOR CEMENT PLASTER FINISH: PER LEGEND.
- 9 BOARD AND BATTEN SIDING: PER LEGEND.
- 10 HARDIE ARTISAN REVEAL PANEL SIDING: PER LEGEND.
- 11 PAINTED METAL AWNING PER DETAIL.
- 12 STOREFRONT SYSTEM: PER PLANS.
- 13 WOOD/ HARBORBOARD TRIM: SIZE PER DETAIL OR AS NOTED.
- 14 PARAPET WALL: PER ROOF PLANS.
- 15 LOUVERED VENT: SIZE PER PLAN.
- 16 LOUVERED DOOR: SIZE PER PLAN.
- 17 METAL GATE/ FENCE: PER LANDSCAPE ARCHITECT DWGS.
- 18 RESAWN WOOD BEAMS, RAFTER TAILS, POST: SIZE AS NOTED OR DETAILED.
- 19 ARCH. SOFFIT.
- 20 GAS METER: VERIFY LOCATION WITH UTILITY CO.
- 21 UTILITY CABINET.
- 22 DECORATIVE PLASTER WINDOW TRIM.
- 23 TILED WALL AT SHOWER ENCLOSURE.
- 24 PLASTER KEEP SCREED.
- 25 PAINTED METAL CHIMNEY SHROUD.

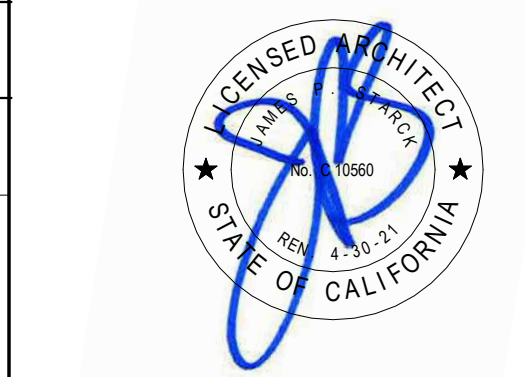
ELEVATION NOTES

1. ALL DETAIL REFERENCES ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS SPECIFICALLY REFERENCED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE FACE OF FRAMING UNLESS OTHERWISE NOTED.
3. ALL WINDOWS REQUIRED FOR EMERGENCY EXITING PER IBC SHALL BE VERIFIED BY THE WINDOW SUBCONTRACTOR, AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF ANY WINDOW SIZES ARE REQUIRED PRIOR TO START.
4. CRASH BARRIERS TRIM SHALL BE FOAM OVER SCRATCH & BROWN COAT IVY FINISH PLASTER COAT PAINTED CONTRASTING COLOR, UNLESS OTHERWISE NOTED OR DETAILED.

LEGEND

- ASPHALT SHINGLE ROOFING: CERTAINTED COMPOSITION SHINGLE ROOFING, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- EXTERIOR CEMENT PLASTER FINISH: INTEGRAL COLOR. FINISH TEXTURE: LIGHT SAND. CORNER CONDITION: BULLNOSE CORNER BEAD.
- BOARD AND BATTEN SIDING: HARDY PANEL, VERTICAL SIDING, 1X4 BATTEN @ 16" O.C., SMOOTH FINISH. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- HARDIE ARTISAN REVEAL PANEL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- LOCATION OF WOOD TRIM AND WOOD PANEL.

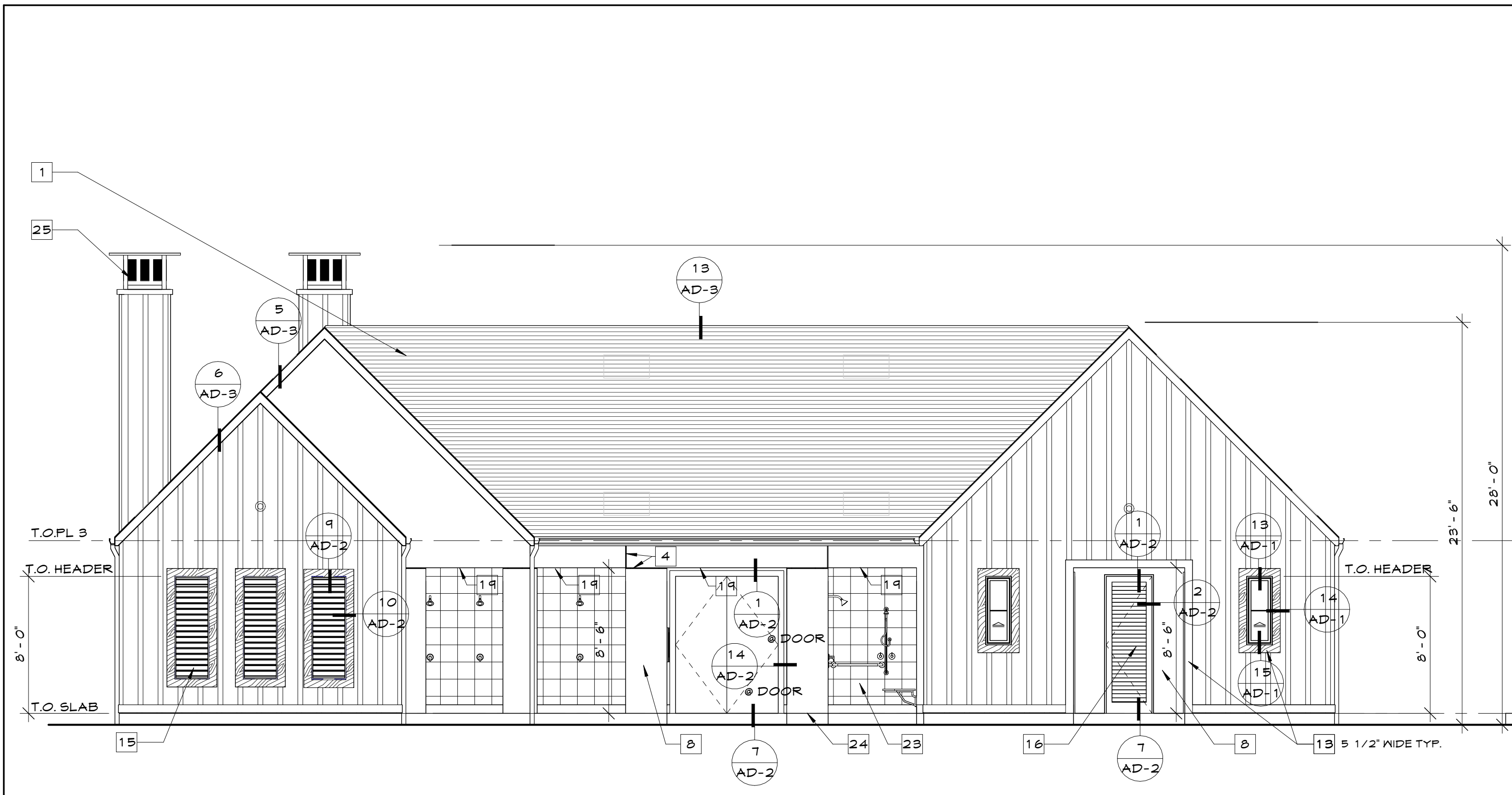
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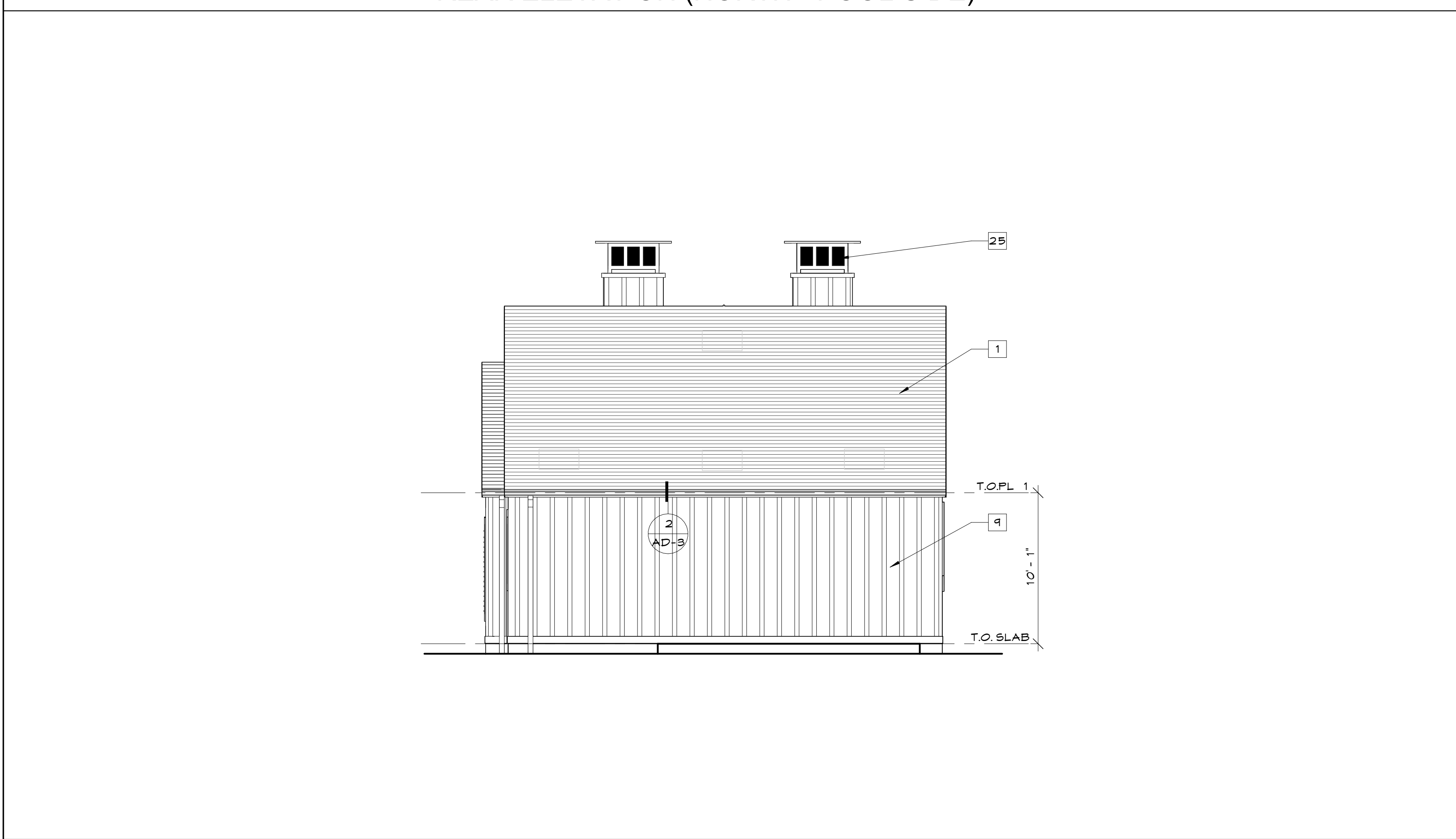
EXTERIOR ELEVATIONS

A5-1



REAR ELEVATION (NORTH - POOL SIDE)

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



RIGHT SIDE ELEVATION (EAST)

SCALE 3/16" = 1'-0" 2

ELEVATION KEYNOTES (NOTE: NOT ALL KEYNOTES MAY APPLY TO THIS SHEET)

- 1 ROOFING: PER LEGEND.
- 2 EAVE: RESAPIN WOOD FASCIA PER ROOF PLAN.
- 3 RAKE: RESAPIN WOOD RAKE BOARD PER ROOF PLAN.
- 4 PLASTER EXPANSION JOINT.
- 5 FINISH GRADE / TOP OF HARDSCAPE OR SIDEWALK: SLOPE 2% MIN. AWAY FROM BUILDING.
- 6 RESAPIN WOOD POST: SIZE AS NOTED OR DETAILED.
- 7 VINYL WINDOW/ SLIDING GLASS DOOR.
- 8 EXTERIOR CEMENT PLASTER FINISH: PER LEGEND.
- 9 BOARD AND BATTEN SIDING: PER LEGEND.
- 10 HARDIE ARTISAN REVEAL PANEL SIDING: PER LEGEND.
- 11 PAINTED METAL AWNING PER DETAIL.
- 12 STOREFRONT SYSTEM: PER PLANS.
- 13 WOOD/ HARDBOARD TRIM: SIZE PER DETAIL OR AS NOTED.
- 14 PARAPET WALL: PER ROOF PLANS.
- 15 LOUVERED VENT: SIZE PER PLAN.
- 16 LOUVERED DOOR: SIZE PER PLAN.
- 17 METAL GATE/ FENCE: PER LANDSCAPE ARCHITECT DWGS.
- 18 RESAPIN WOOD BEAMS, RAFTER TAILS, POST: SIZE AS NOTED OR DETAILED.
- 19 ARCH SOFFIT.
- 20 GAS METER: VERIFY LOCATION WITH UTILITY CO.
- 21 UTILITY CABINET.
- 22 DECORATIVE PLASTER WINDOW TRIM.
- 23 TILED WALL AT SHOWER ENCLOSURE.
- 24 PLASTER KEEP SCREED.
- 25 PAINTED METAL CHIMNEY SHROUD.

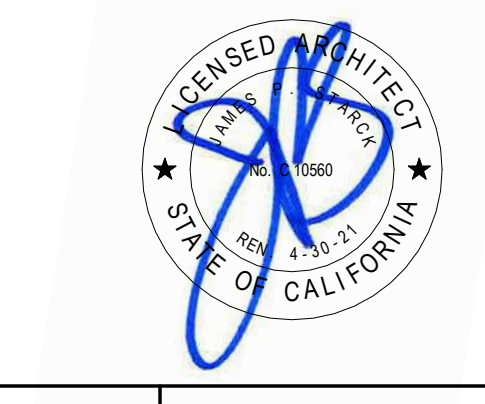
ELEVATION NOTES

1. ALL DETAIL REFERENCES ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS WHETHER SPECIFICALLY REFERENCED OR NOT.
2. ALL DIMENSIONS ARE TO BE FACE OF FRAMING UNLESS OTHERWISE NOTED.
3. ALL WINDOWS REQUIRED FOR EMERGENCY EXITING PER IBC SHALL BE VERIFIED BY THE WINDOW SUBCONTRACTOR, AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF ANY WINDOW SIZES ARE REQUIRED PRIOR TO START.
4. CASPER WINDOW TRIM SHALL BE FOAM OVER SCRATCH & BROWN GOAT PLY FINISH PLASTER GOAT PAINTED CONTRASTING COLOR, UNLESS OTHERWISE NOTED OR DETAILED.

LEGEND

	ASPHALT SHINGLE ROOFING; CERTAINTED COMPOSITION SHINGLE ROOFING, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
	EXTERIOR CEMENT PLASTER FINISH: INTEGRAL COLOR. FINISH TEXTURE: LIGHT SAND. CORNER CONDITION: BULLNOSE CORNER BEAD.
	BOARD AND BATTEN SIDING; HARDY PANEL, VERTICAL SIDING, 1X4 BATTEN @ 16" O.C., SMOOTH FINISH. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
	HARDIE ARTISAN REVEAL PANEL. INSTALL PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
	LOCATION OF WOOD TRIM AND WOOD PANEL.

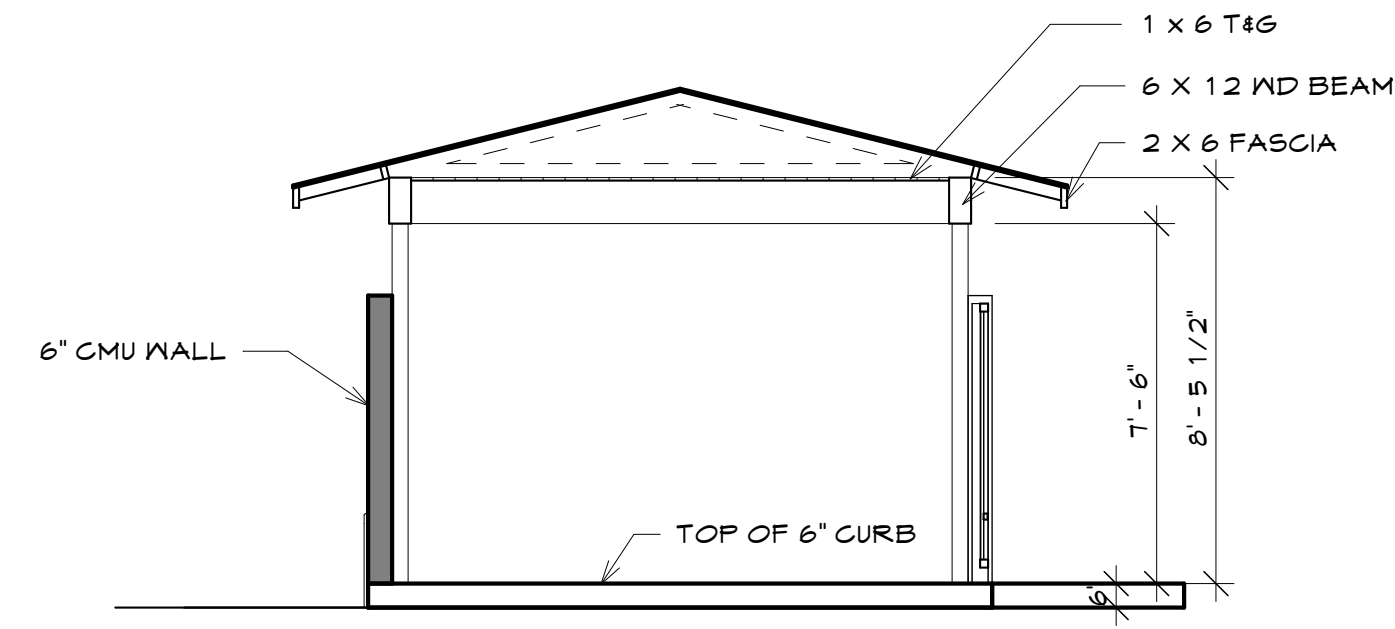
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EXTERIOR ELEVATIONS

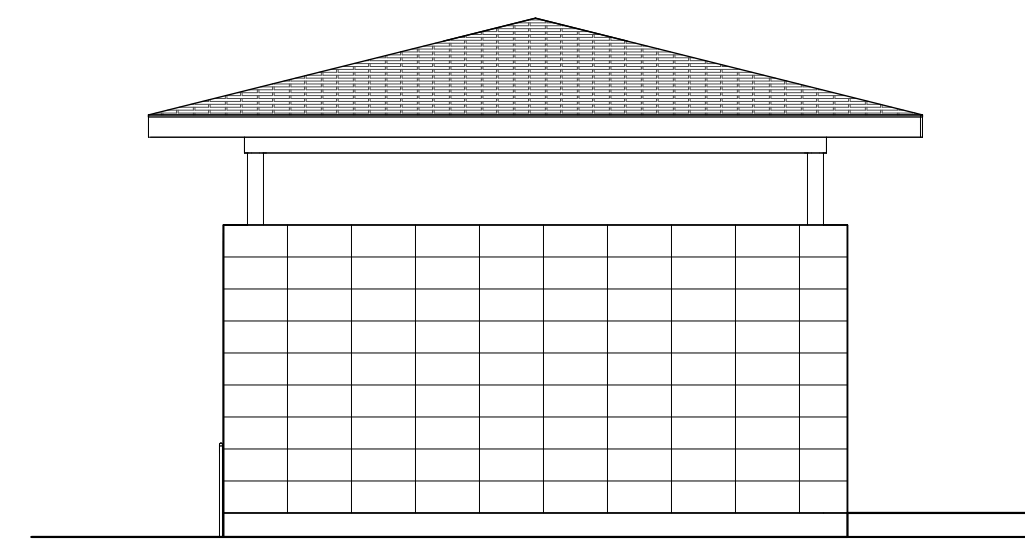
A5-2



TRASH ENCLOSURE SECTION 1

SCALE 1/4" = 1'-0"

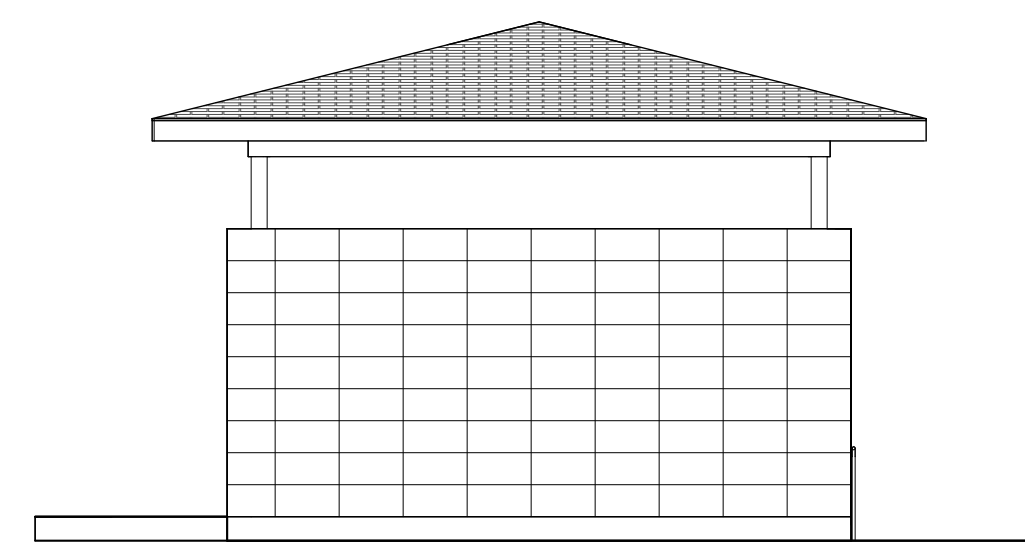
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TRASH ENCL. RIGHT ELEVATION

SCALE 1/4" = 1'-0"

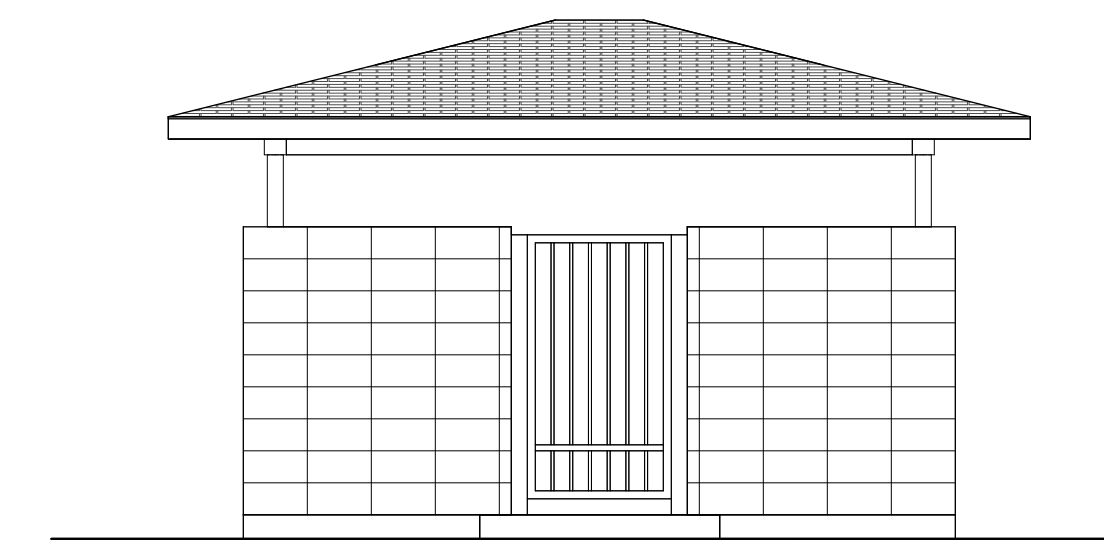
4



TRASH ENCL. LEFT ELEVATION

SCALE 1/4" = 1'-0"

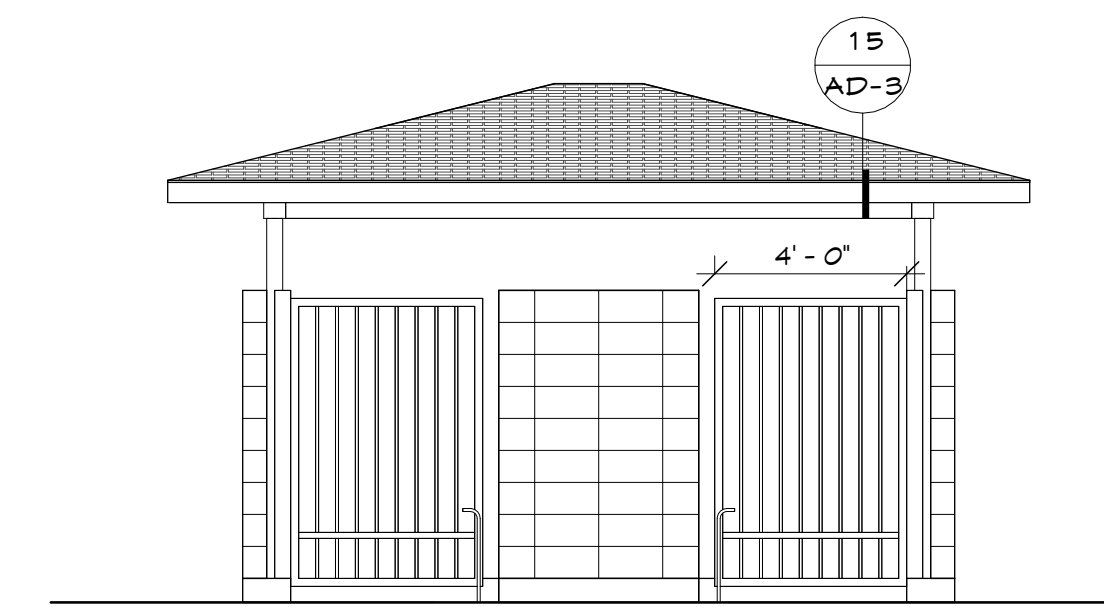
6



TRASH ENCL. REAR ELEVATION

SCALE 1/4" = 1'-0"

3



TRASH ENCL. FRONT ELEVATION

SCALE 1/4" = 1'-0"

5

TRASH ENCL.ELEV. KN.

- 1 ROOFING: PER LEGEND.
- 2 EAVE: RESAWN WOOD FASCIA PER ROOF PLAN.
- 3 PAINTED METAL POST, 4"x4", SET INDEPENDENTLY FROM WALLS.
- 4 GANE BOLT, DROPPED TO 5/16" DIA HOLES IN CONCRETE.
- 5 FINISH GRADE / TOP OF HARDSCAPE OR SIDEWALK: SLOPE 2% MIN. AWAY FROM BUILDING.
- 6 6" CMU WALL WITH STACKED BOND.
- 7 PAINTED METAL GATE.
- 8 RESAWN WOOD BEAMS, SIZE AS NOTED OR DETAILED.

ELEVATION NOTES

- 1. ALL DETAIL REFERENCES ARE TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS UNLESS SPECIFICALLY REFERENCED OR NOT.
- 2. ALL DIMENSIONS ARE TO BE FACE OF FRAMING UNLESS NOTED OTHERWISE.

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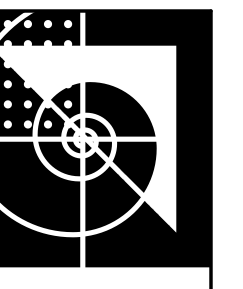


TRASH ENCL.

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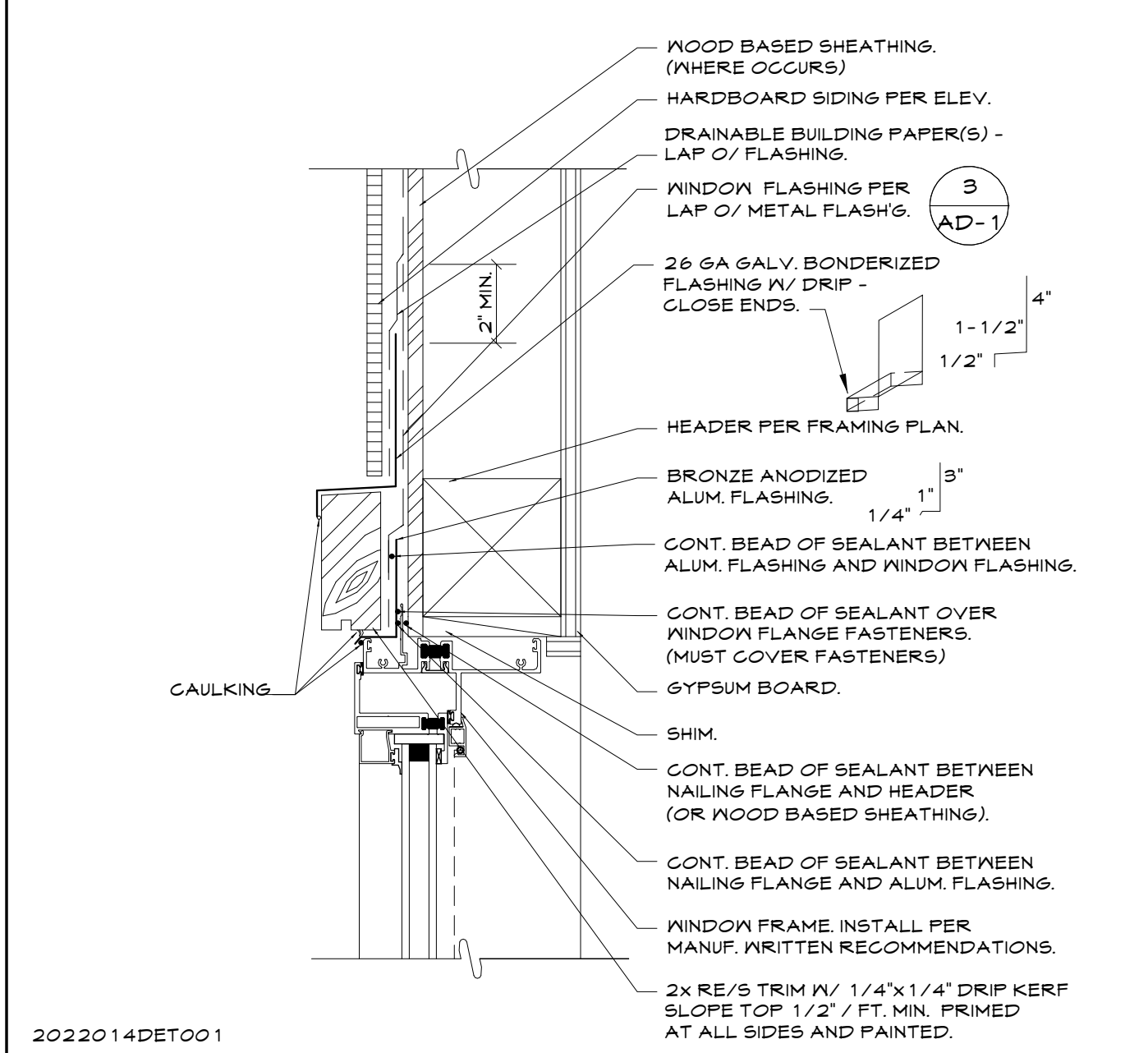
SECTION, EXT. ELEVATIONS

A6-2

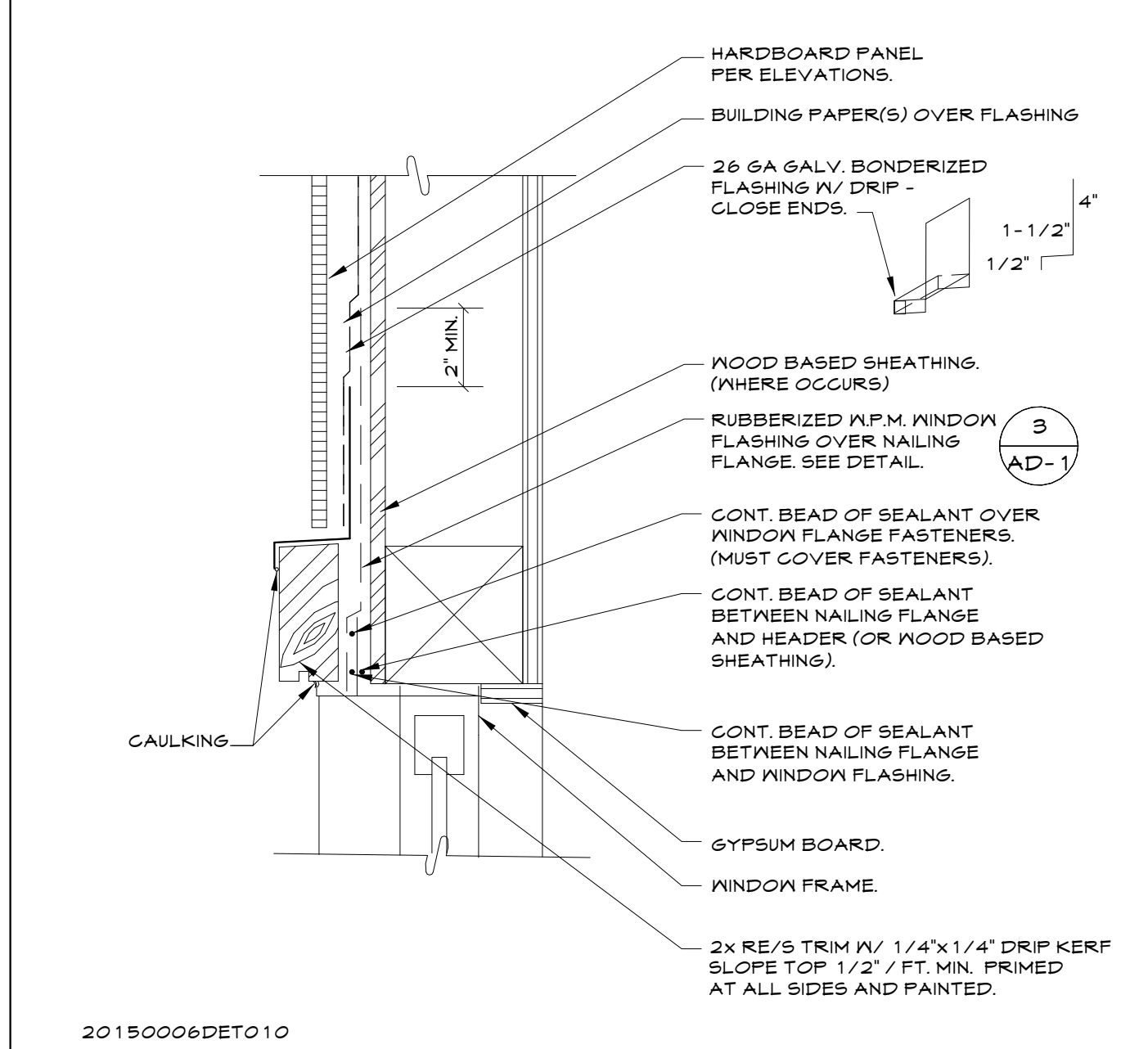


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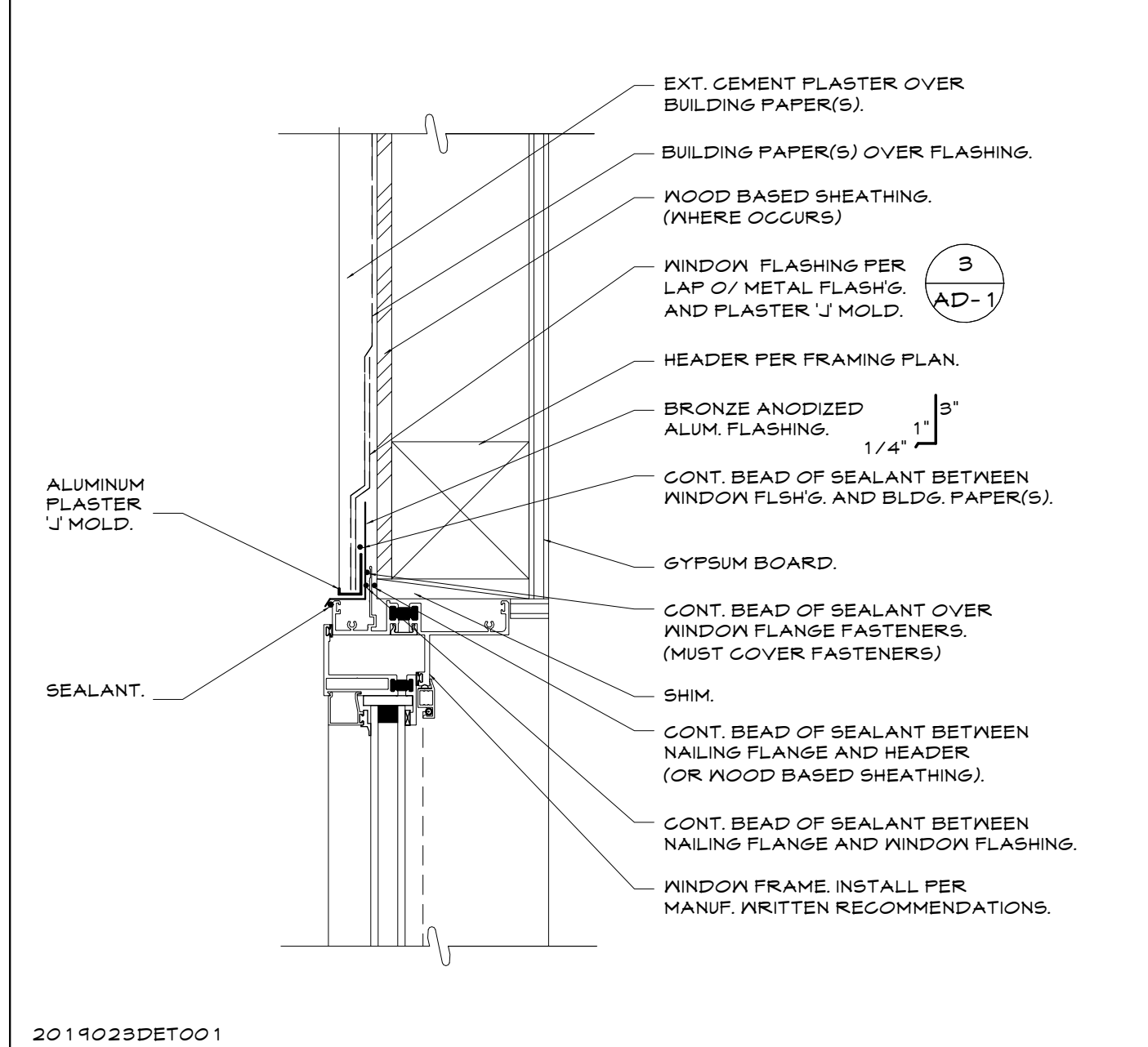
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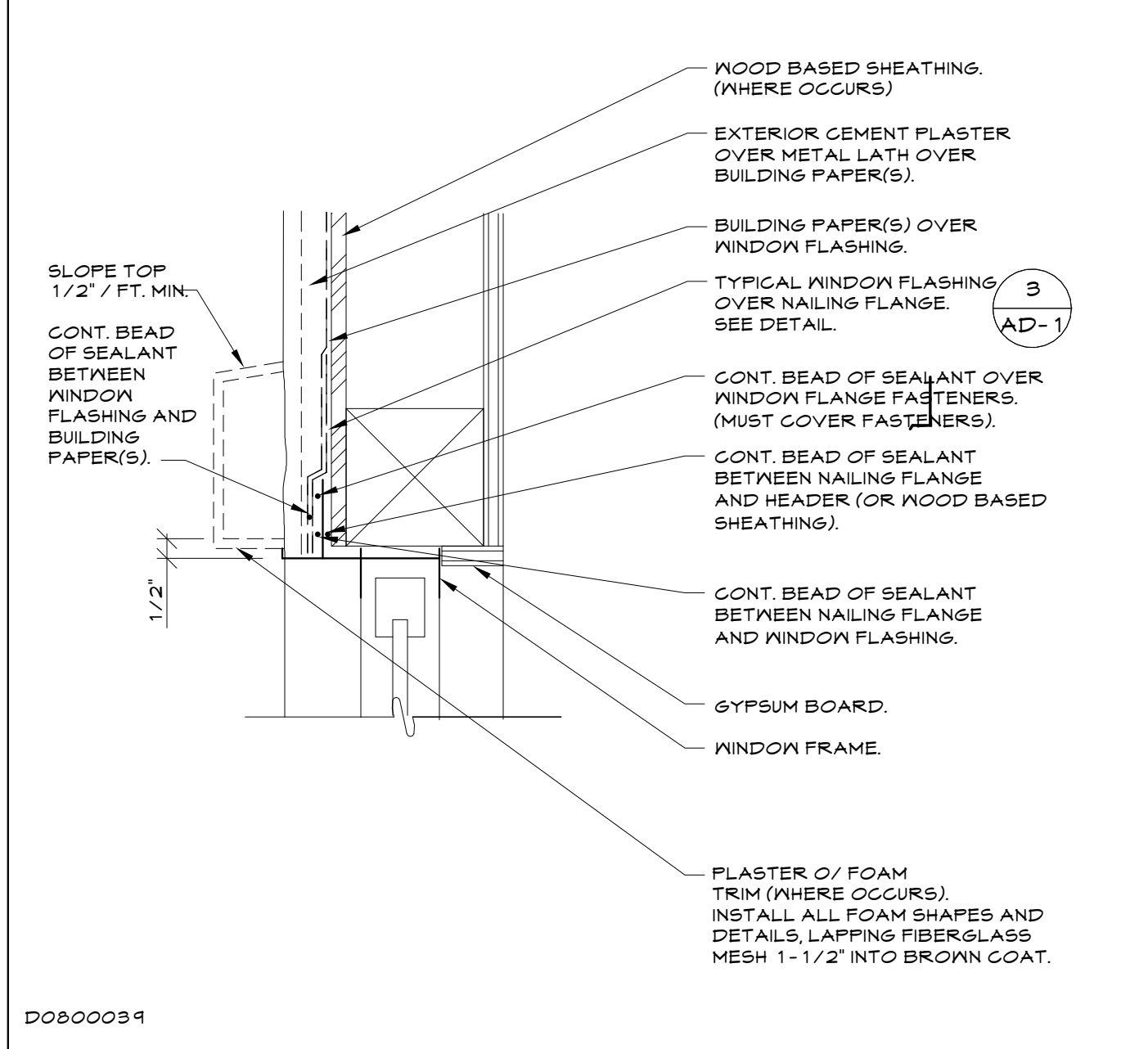
2022014DET001
STOR.FRNT. WINDOW HEAD - SIDING SCALE 3" = 1'-0" **17**



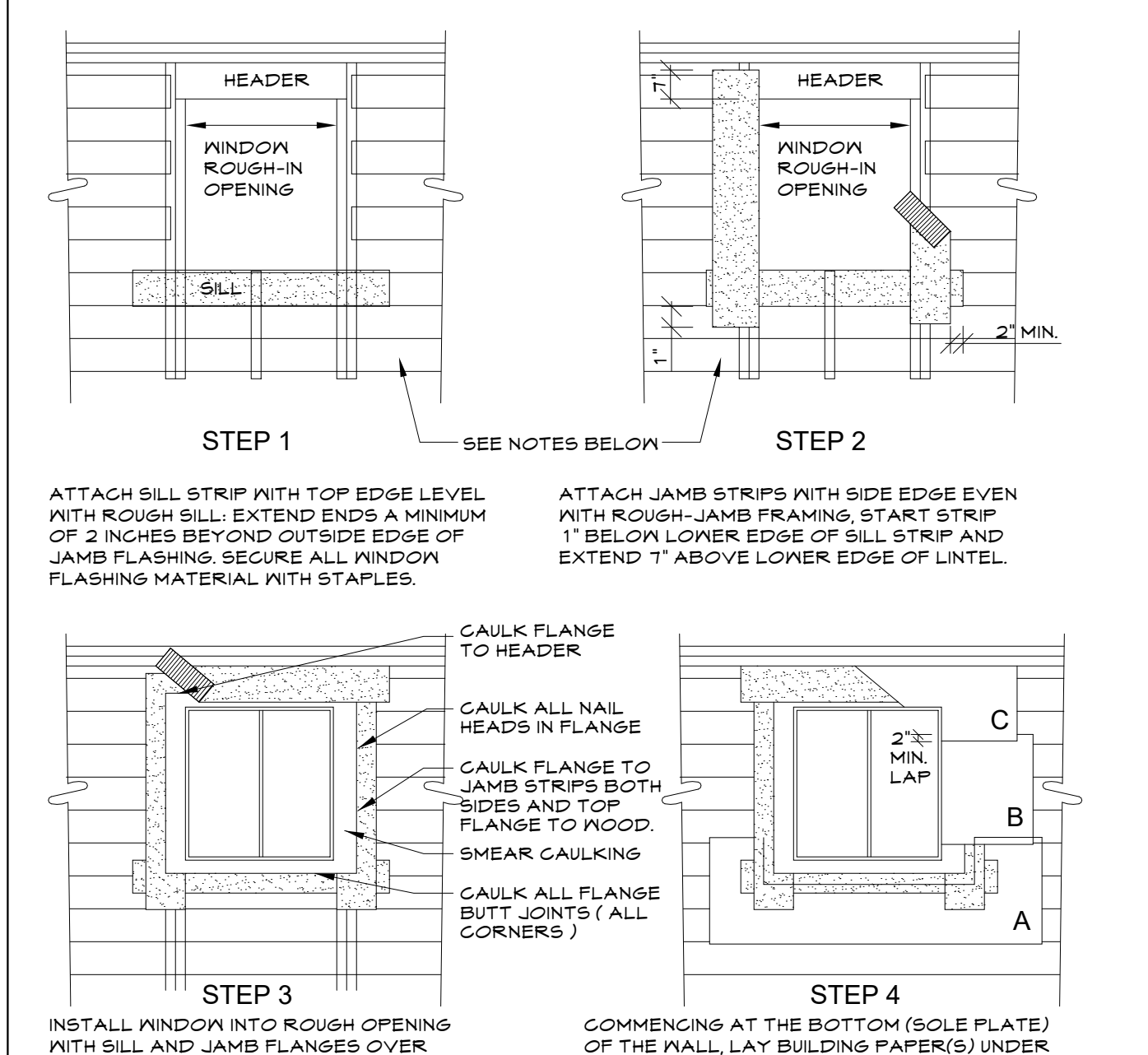
20150006DET010
WINDOW HEAD - SIDING SCALE 3" = 1'-0" **13**



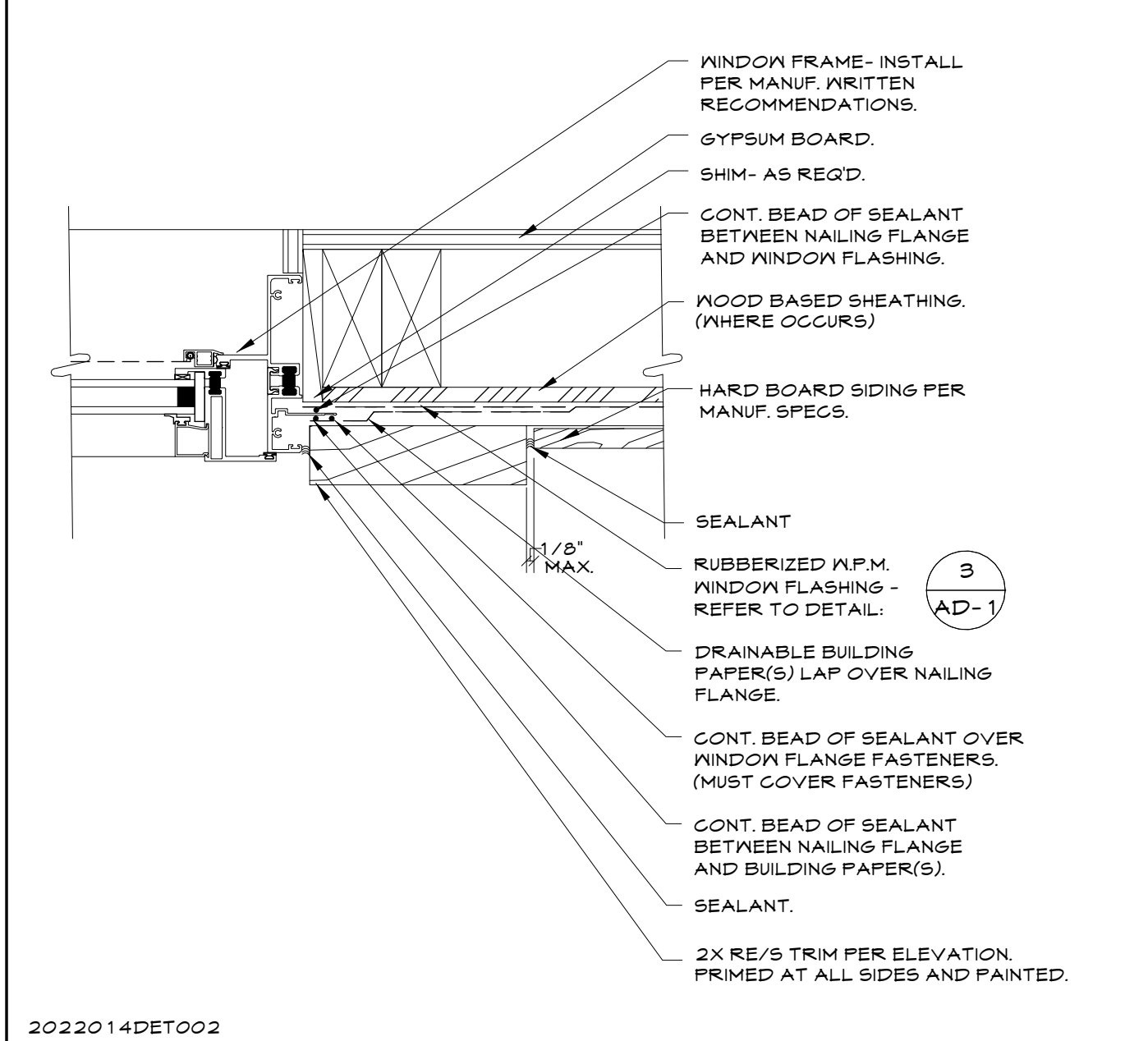
20140232DET001
STOR.FRNT. WINDOW HEAD - PLASTER SCALE 3" = 1'-0" **9**



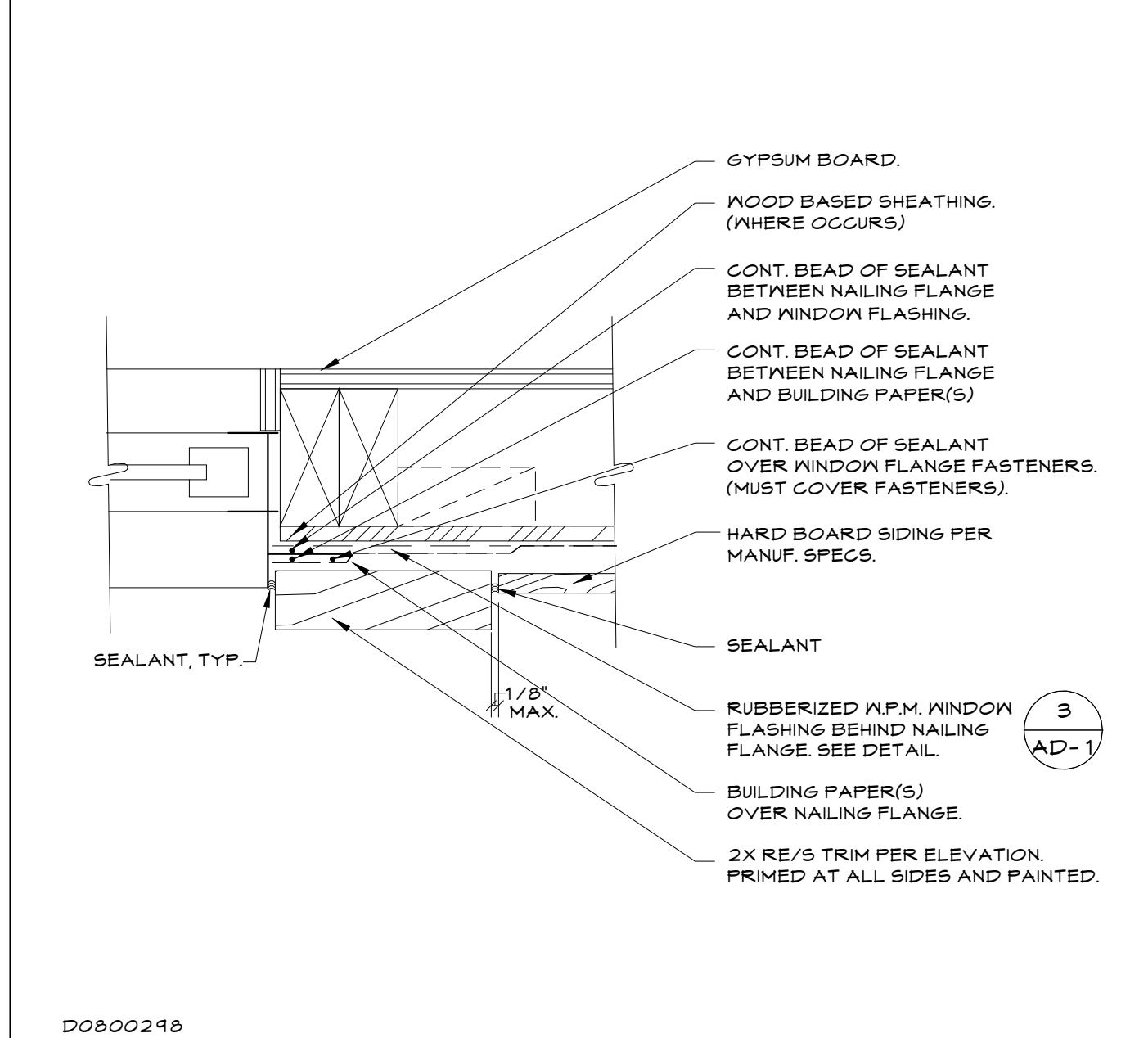
D0800054
WINDOW HEAD - PLASTER SCALE 3" = 1'-0" **5**



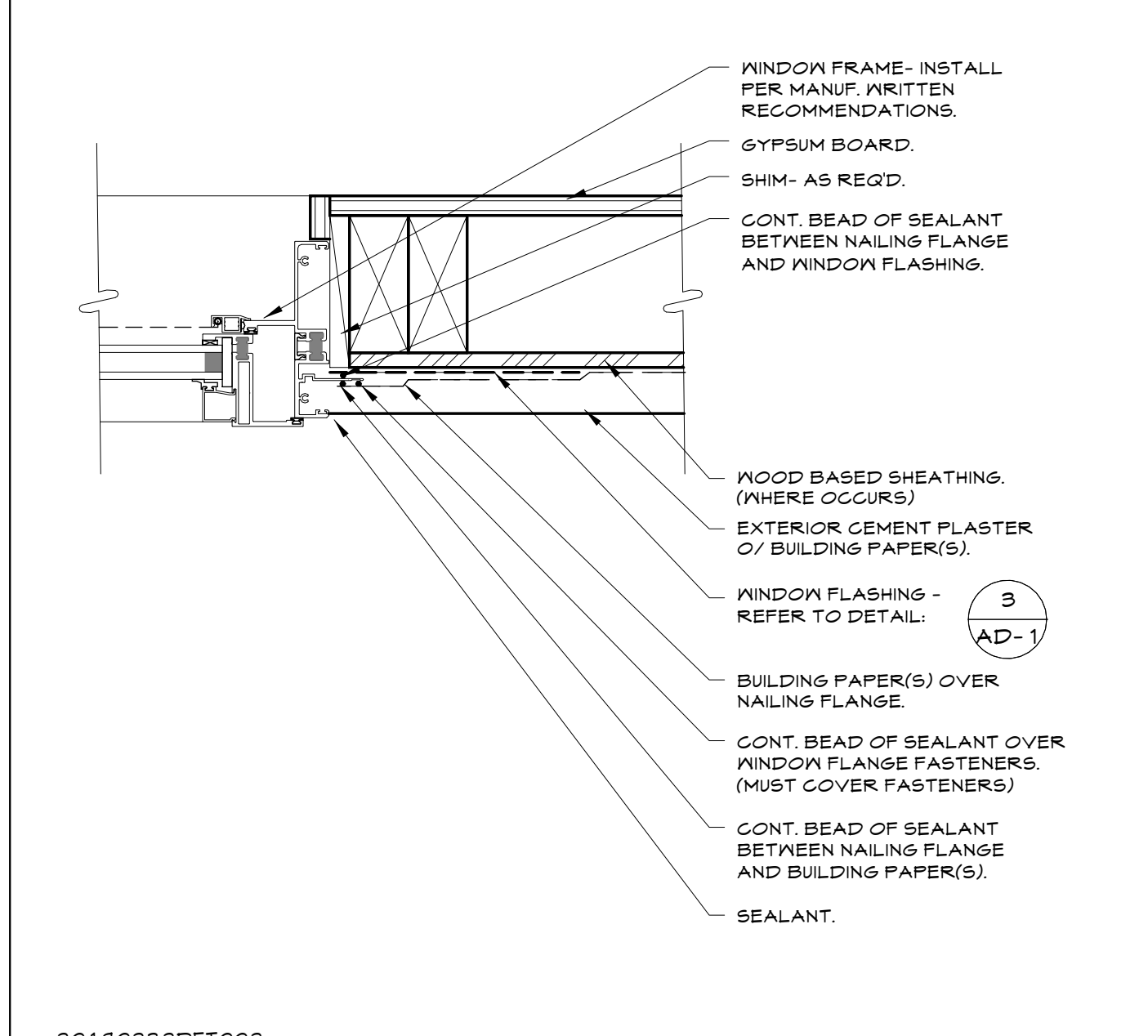
STANDARD WINDOW / DOOR FLASHING SCALE 1/4" = 1'-0" **3**



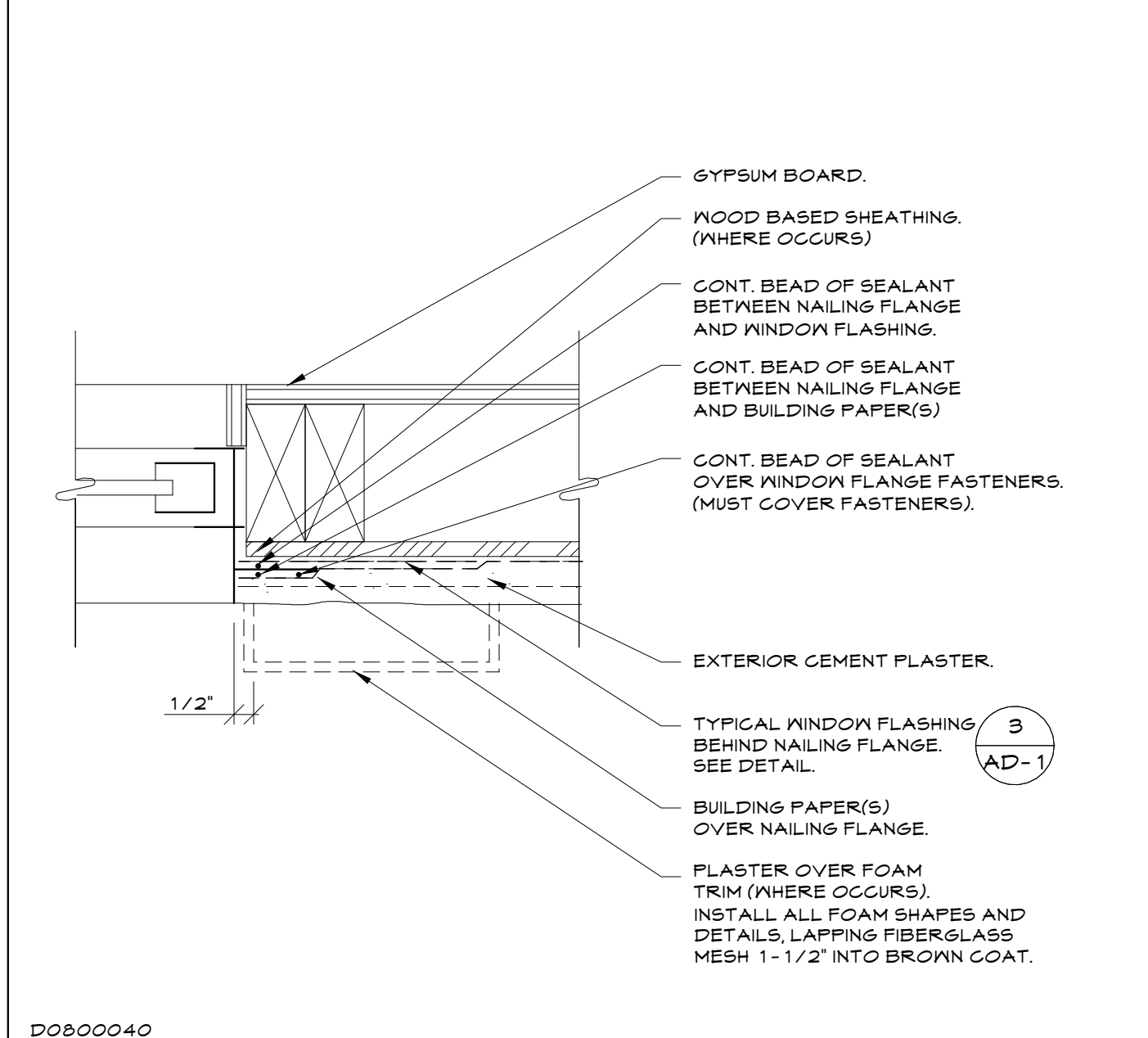
2022014DET002
STOR.FRNT. WINDOW SILL - SIDING SCALE 3" = 1'-0" **18**



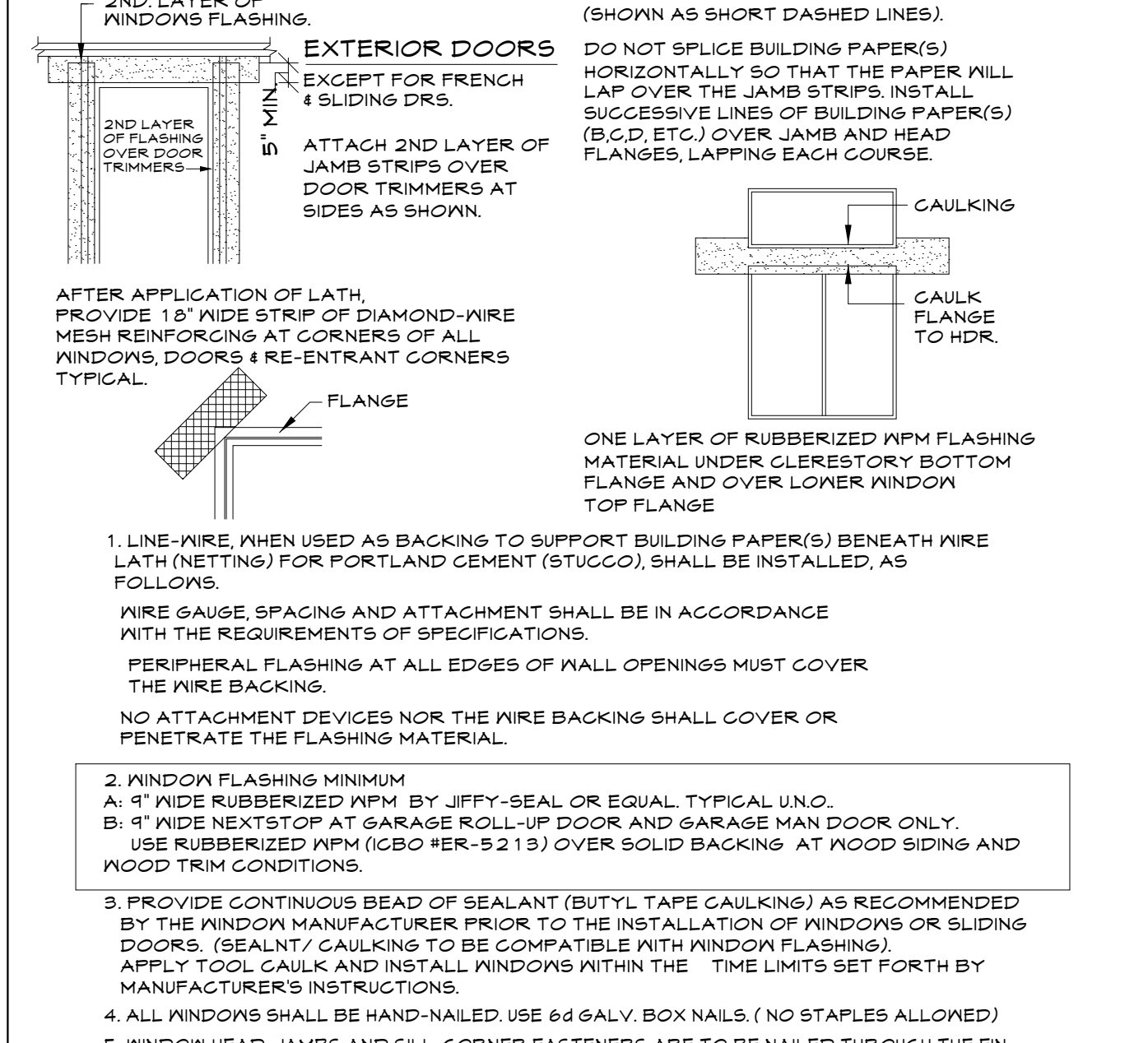
D0800048
WINDOW JAMB - SIDING SCALE 3" = 1'-0" **14**



20140232DET002
STOR.FRNT. WINDOW JAMB - PLASTER SCALE 3" = 1'-0" **10**



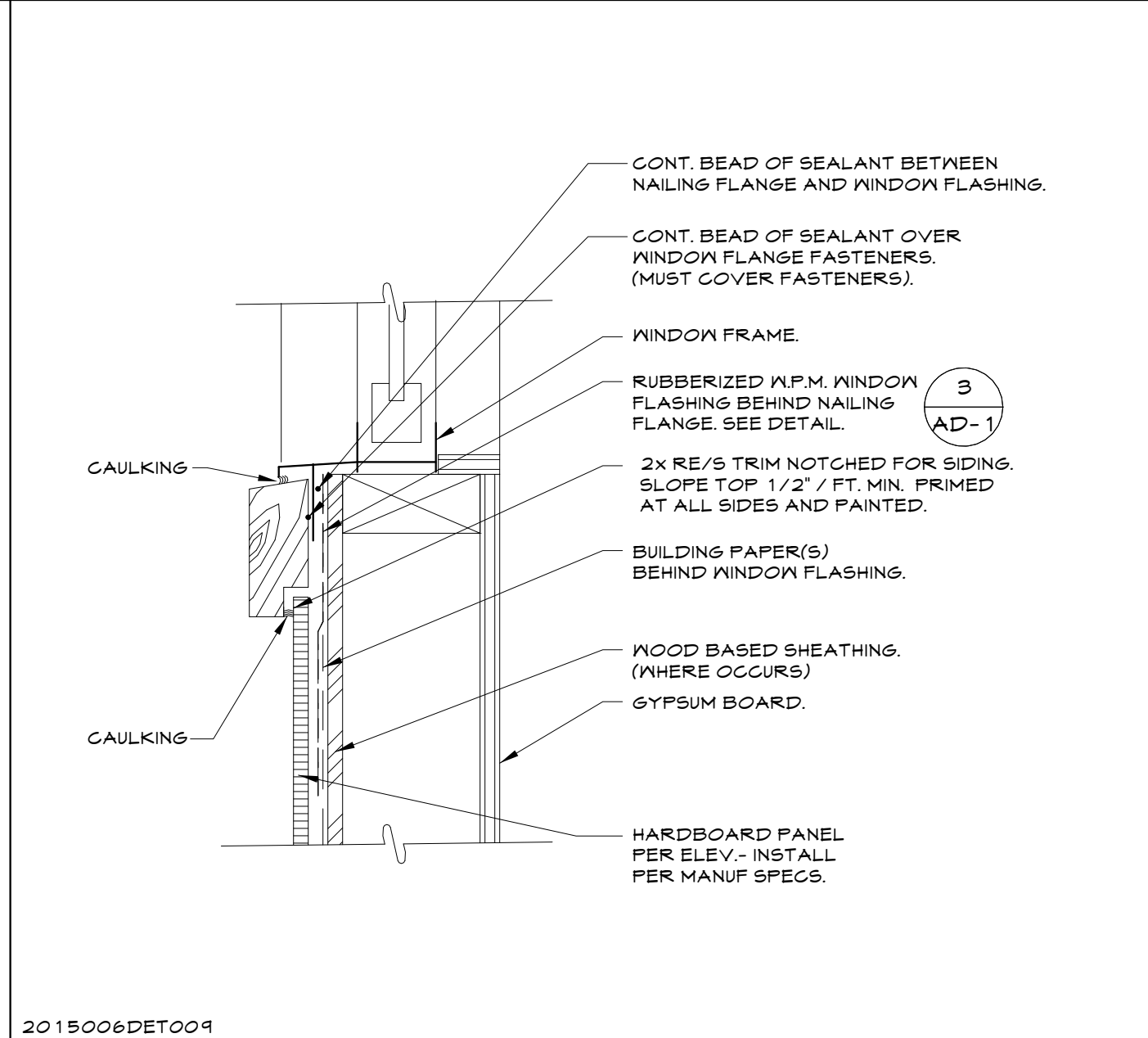
D0800040
WINDOW JAMB - PLASTER SCALE 3" = 1'-0" **6**



STANDARD WINDOW / DOOR FLASHING SCALE 1/4" = 1'-0" **3**



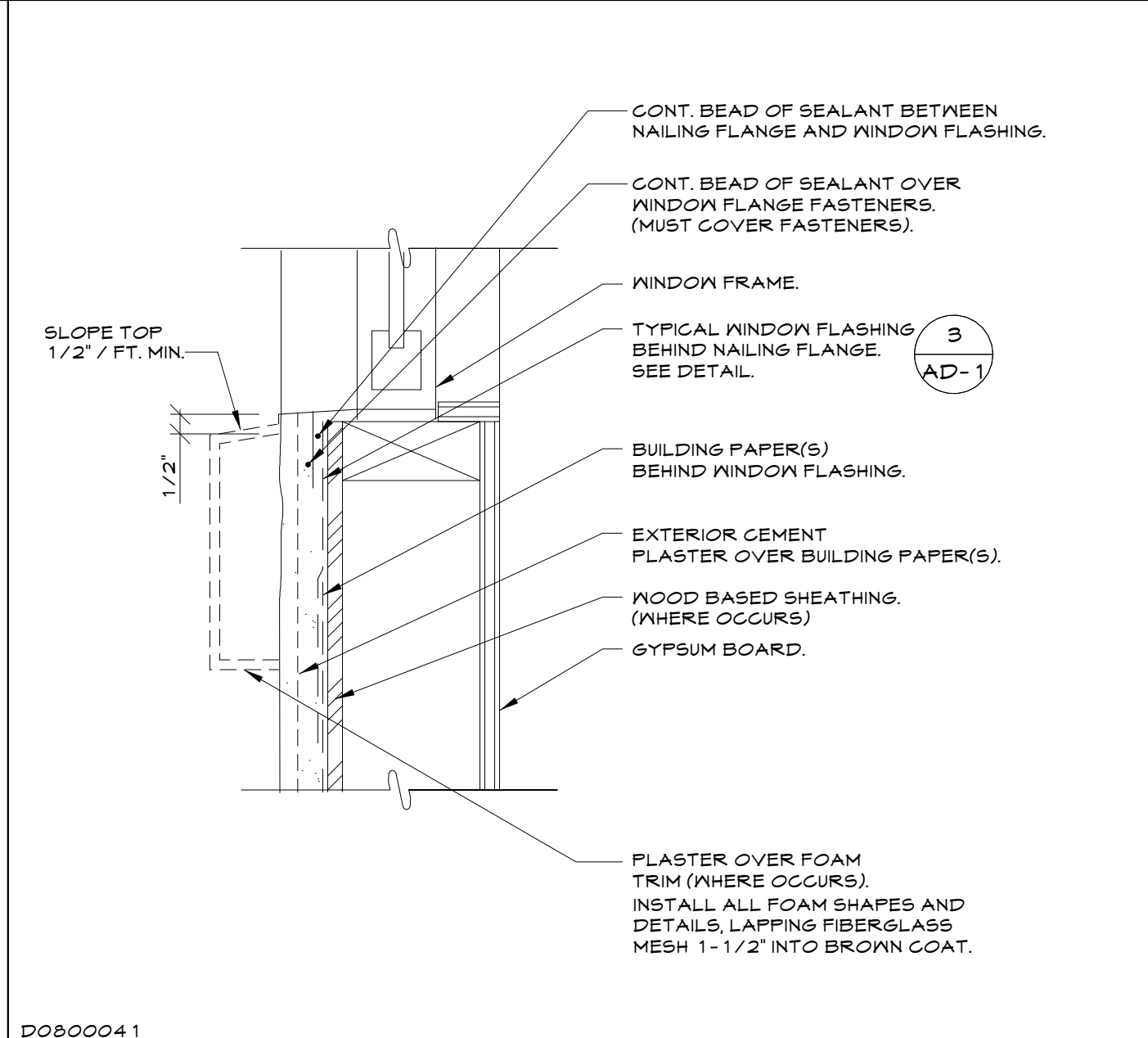
20150006DET004
WINDOW SILL - SIDING SCALE 3" = 1'-0" **15**



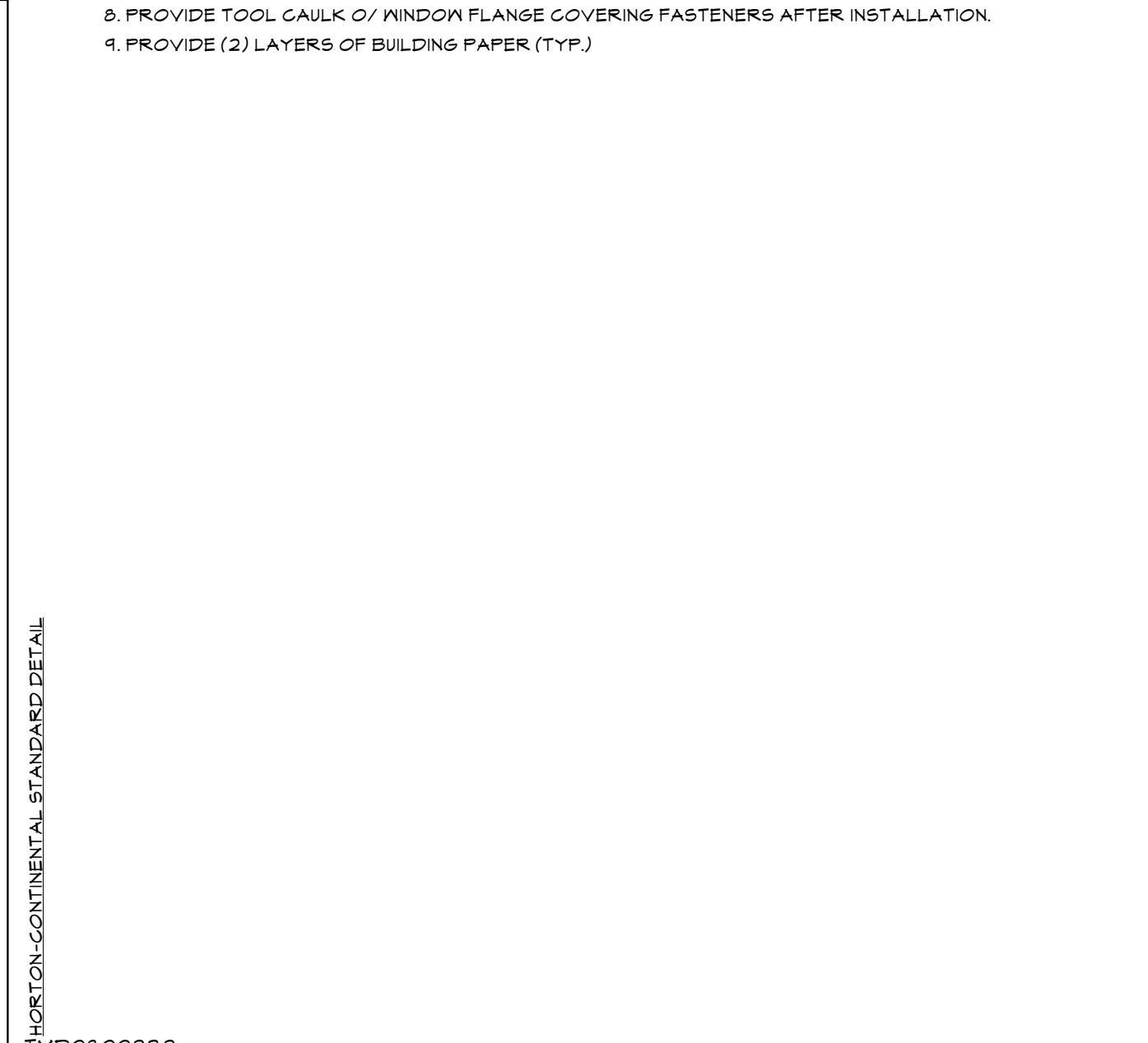
D0800041
WINDOW SILL - PLASTER SCALE 3" = 1'-0" **7**



D0800041
WINDOW SILL - PLASTER SCALE 3" = 1'-0" **7**



D0800041
WINDOW SILL - PLASTER SCALE 3" = 1'-0" **7**



D0800041
WINDOW SILL - PLASTER SCALE 3" = 1'-0" **7**

COTA VERA SWIM CLUB
 2022014 HOMEFED CORPORATION

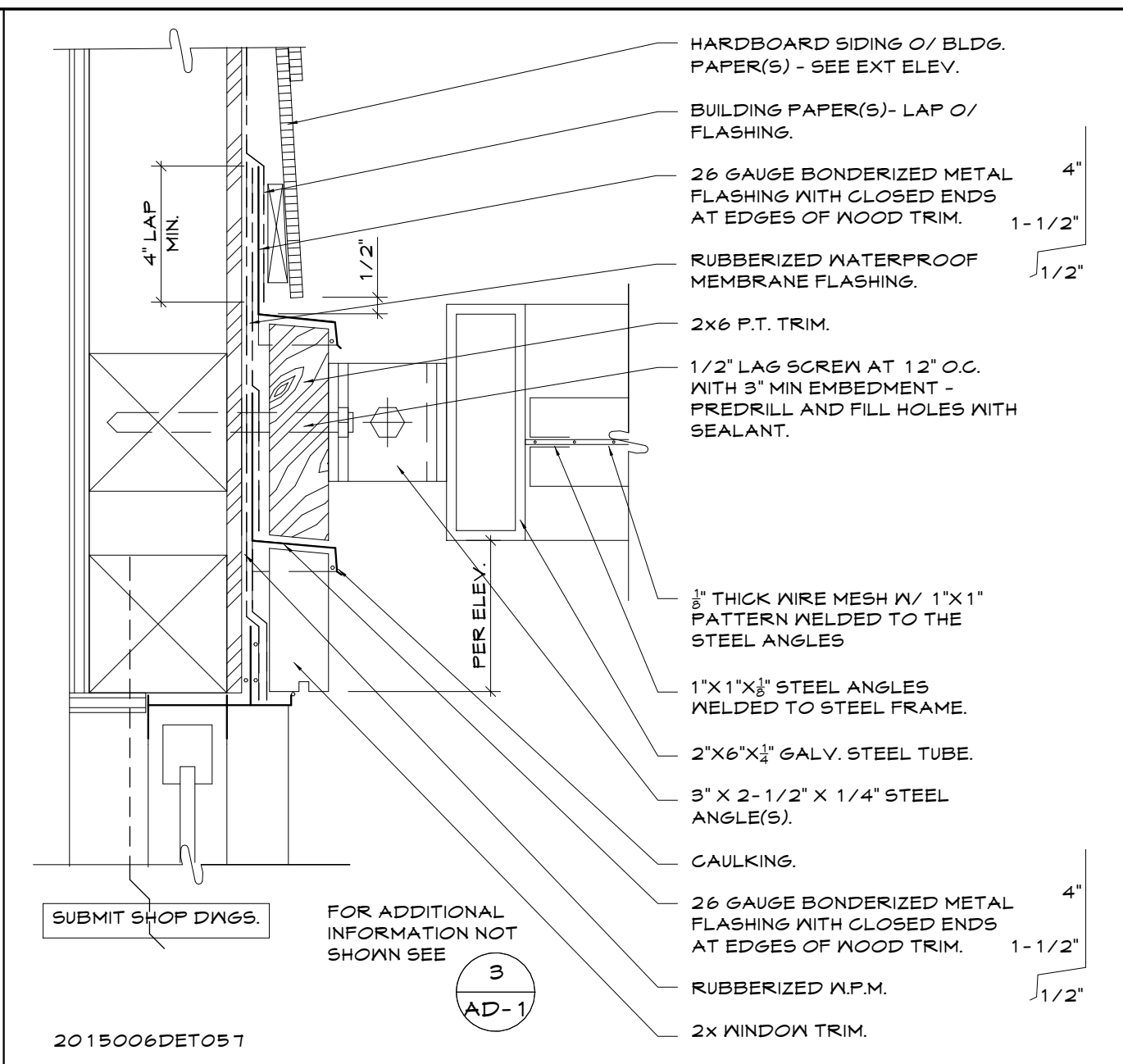
DETAILS

1/17/23 CITY SUBMITTAL

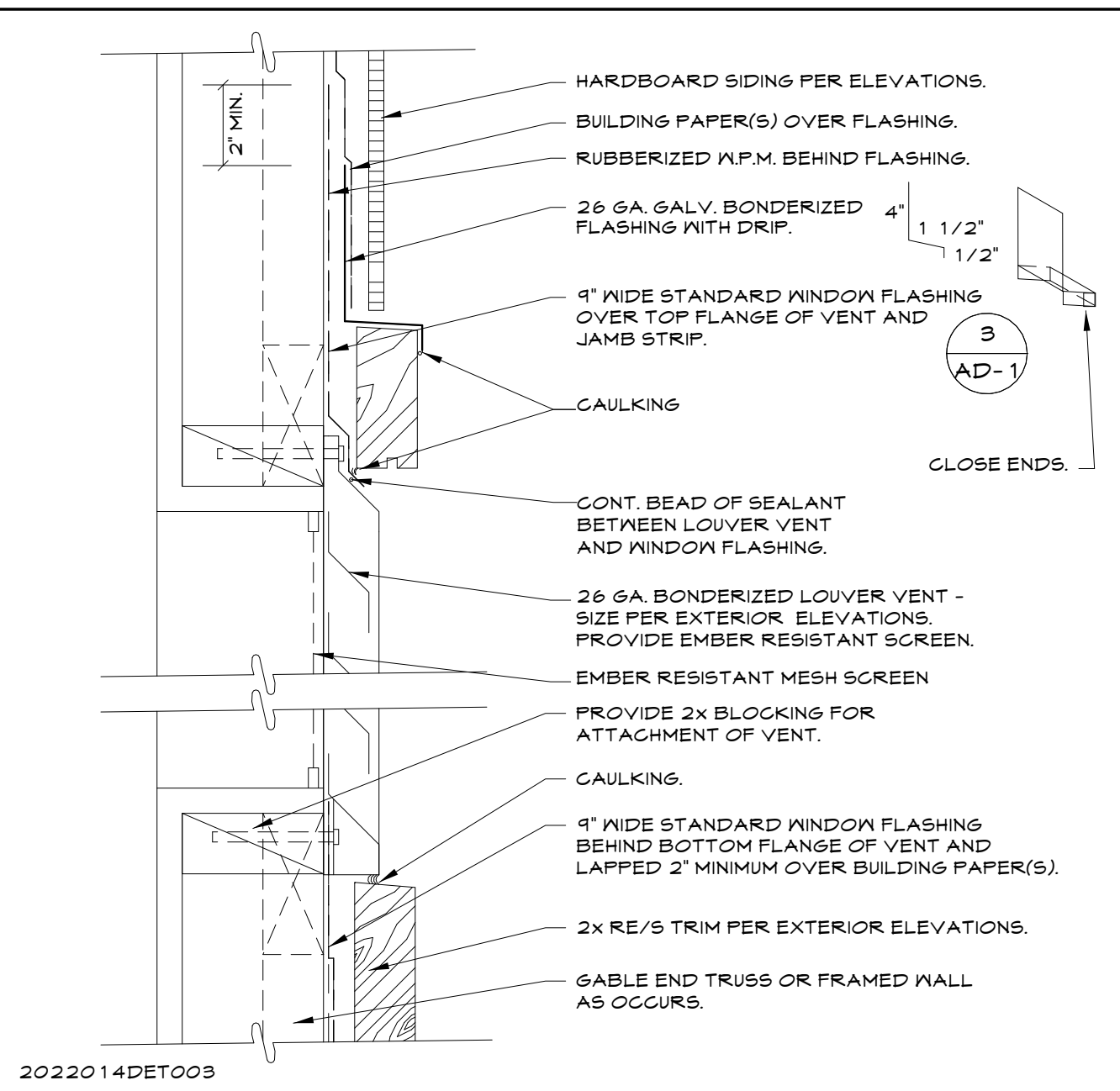
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ARCHITECTURAL DETAILS

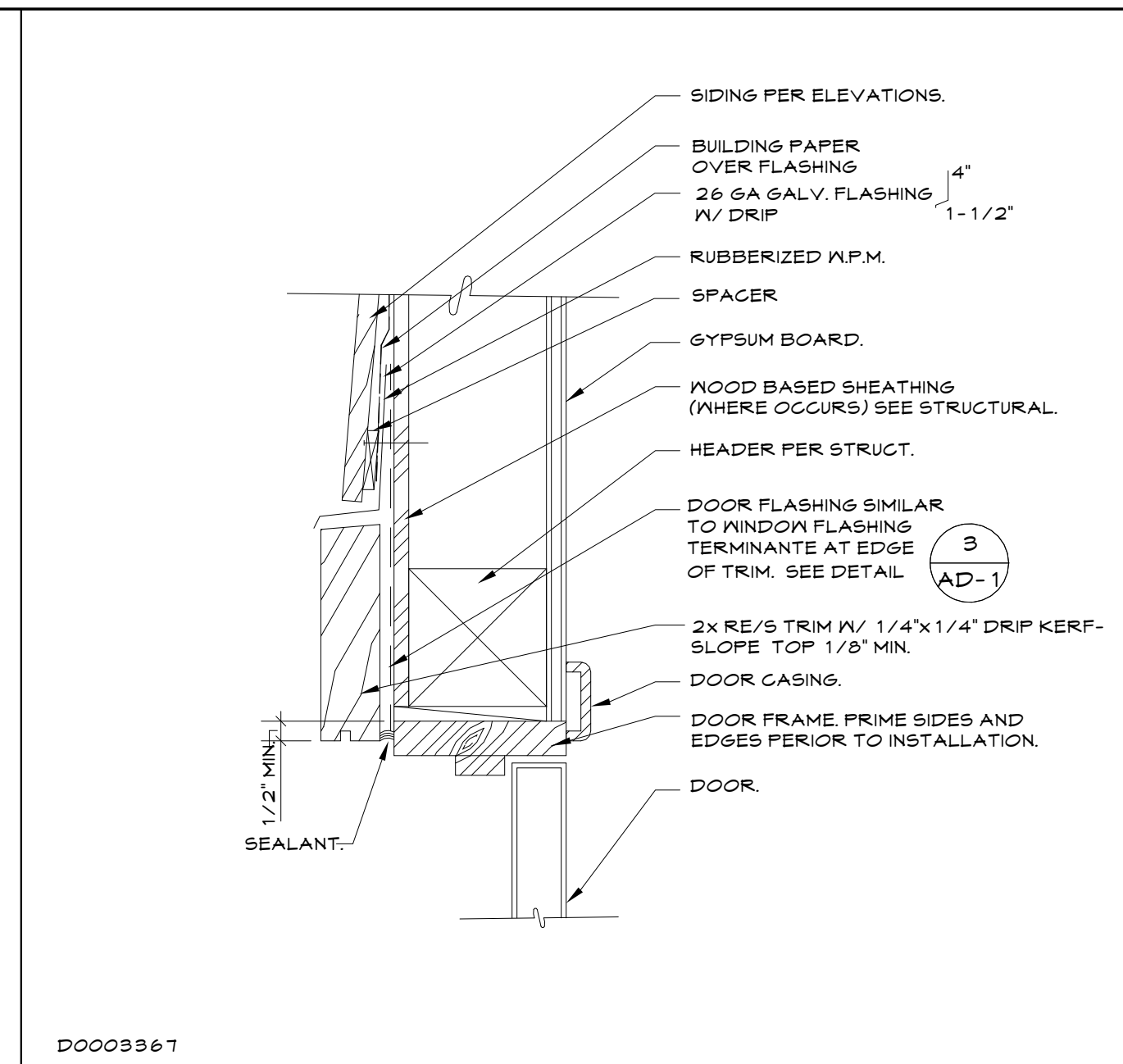
AD-1



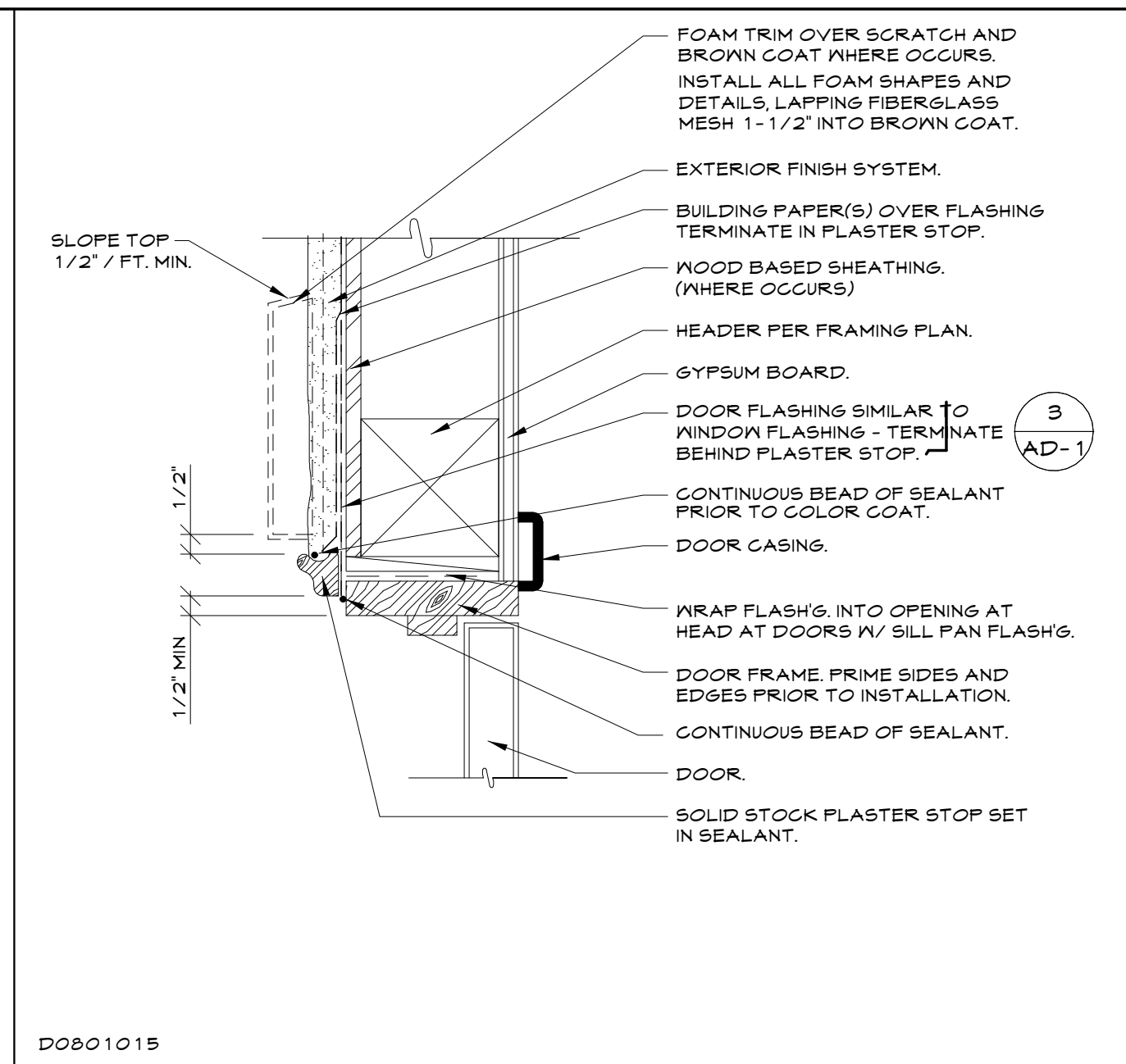
2019006DET097
METAL AWNING AT WINDOW HD. SCALE 3/4" = 1'-0" **13**



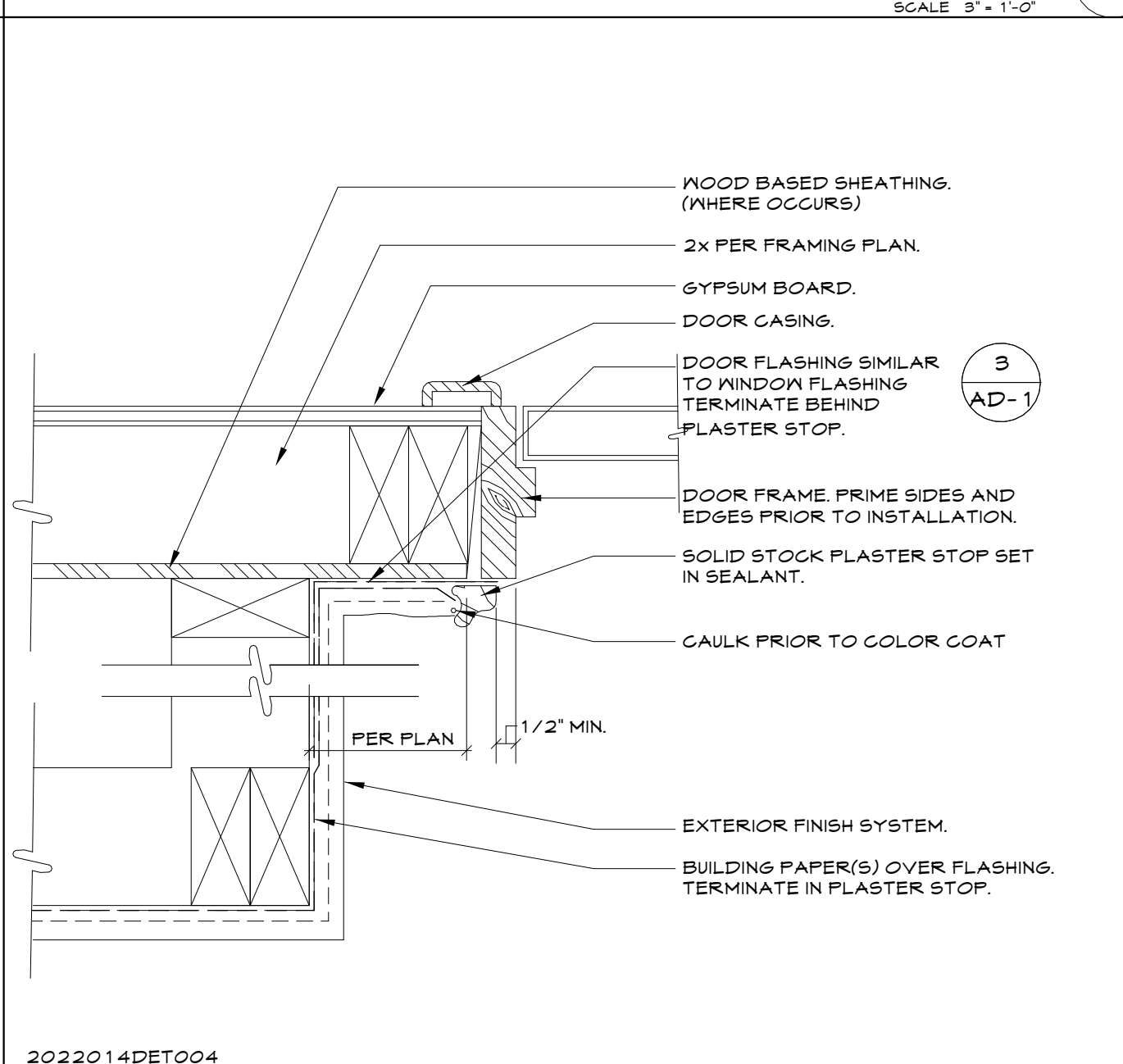
2022014DET009
LOUVERED VENT HEAD & SILL SCALE 3/4" = 1'-0" **9**



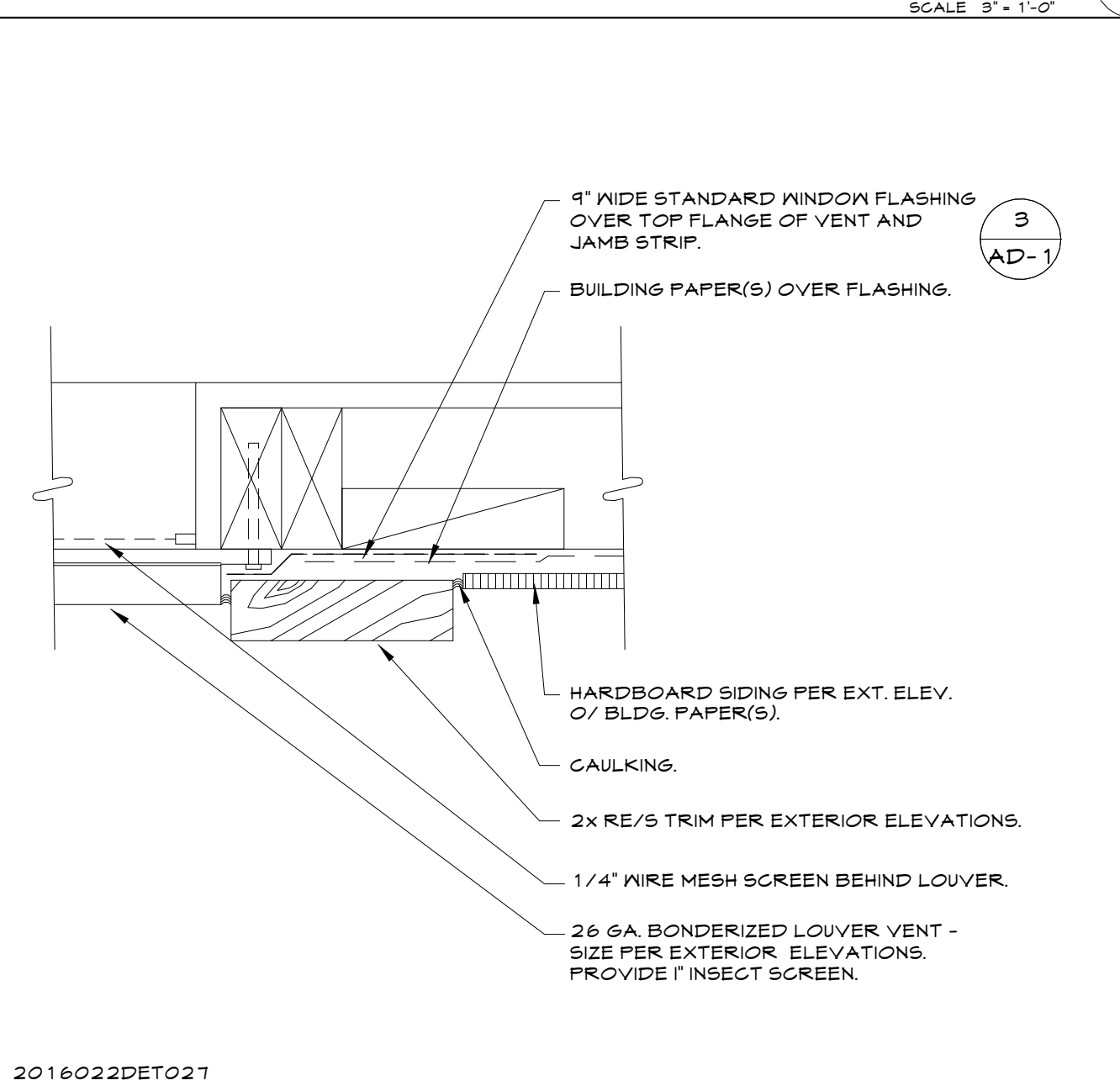
D0009967
DOOR HEAD - SIDING SCALE 3/4" = 1'-0" **5**



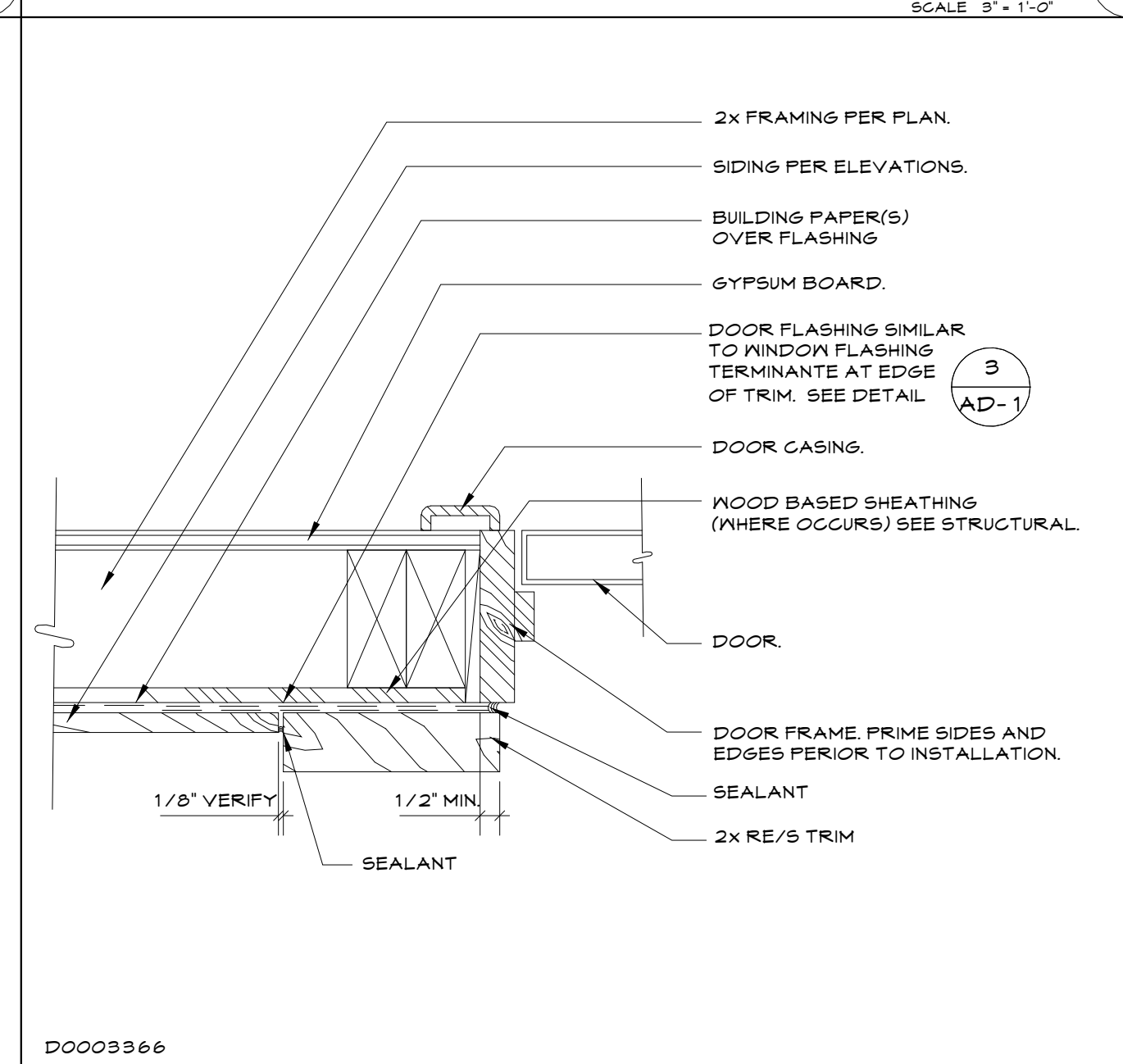
D0001015
DOOR HEAD - PLASTER SCALE 3/4" = 1'-0" **1**



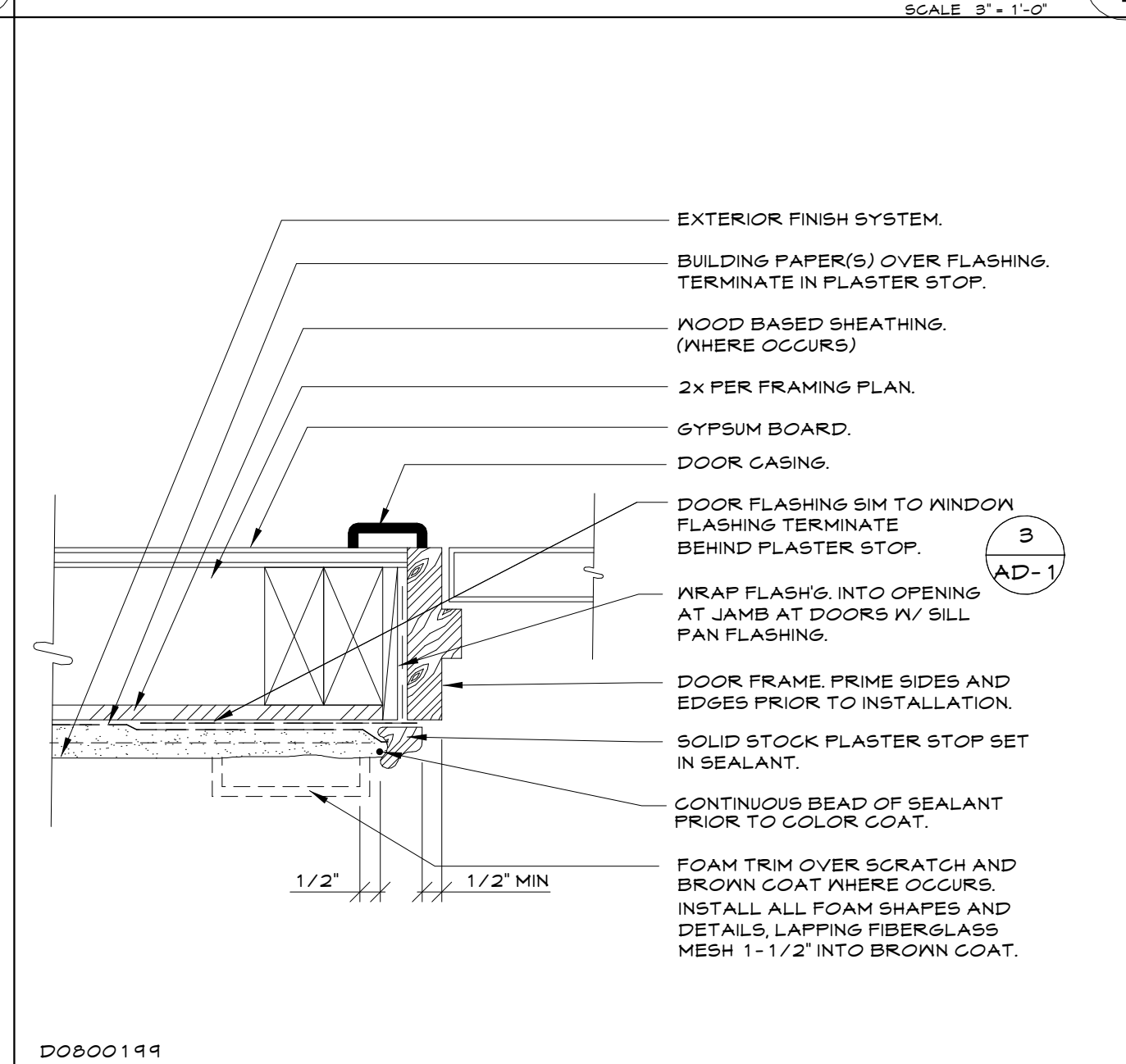
2022014DET004
DOOR JAMB AT RECESS - PLASTER SCALE 3/4" = 1'-0" **14**



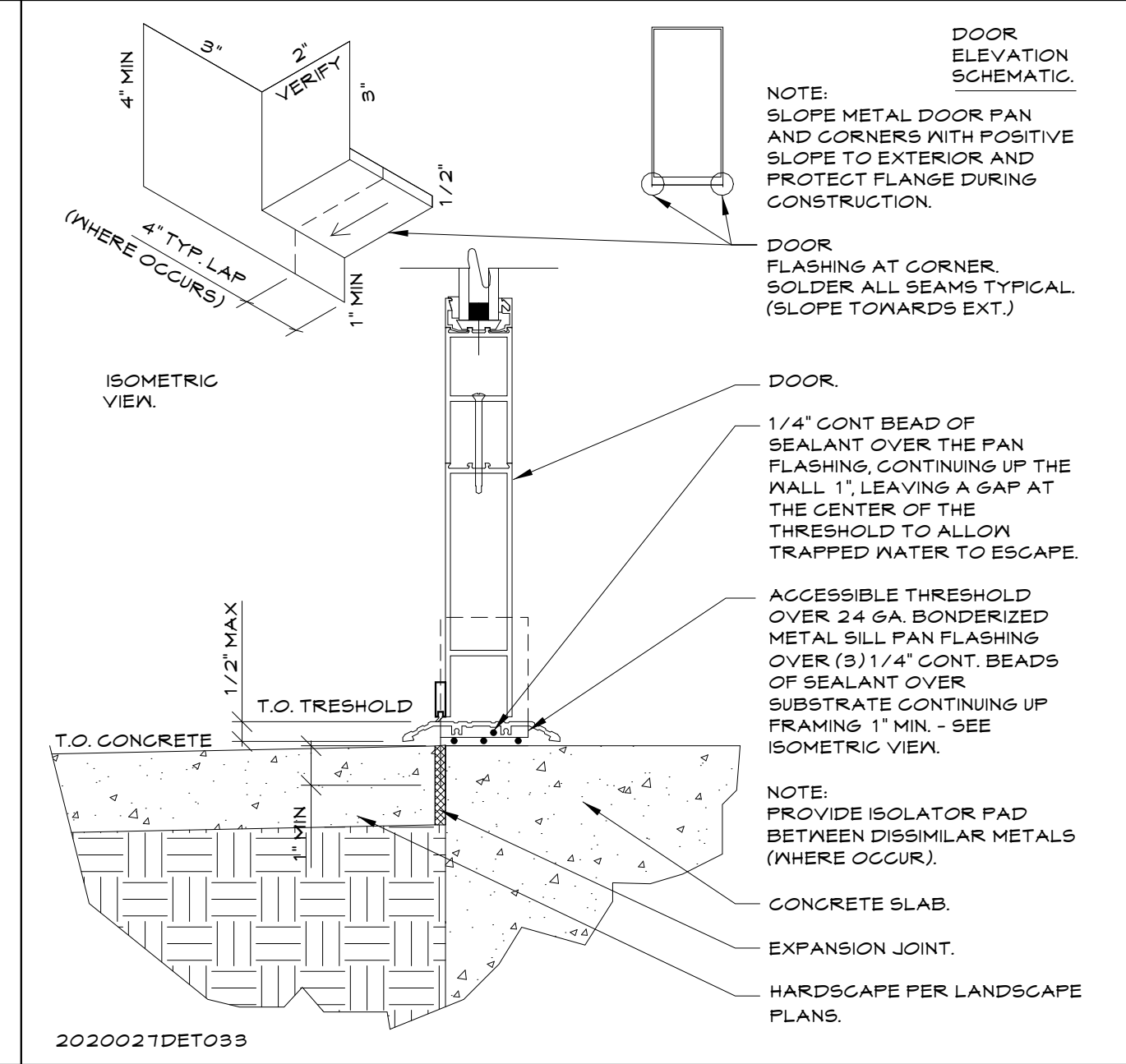
2016022DET027
LOUVERED VENT JAMB SCALE 3/4" = 1'-0" **10**



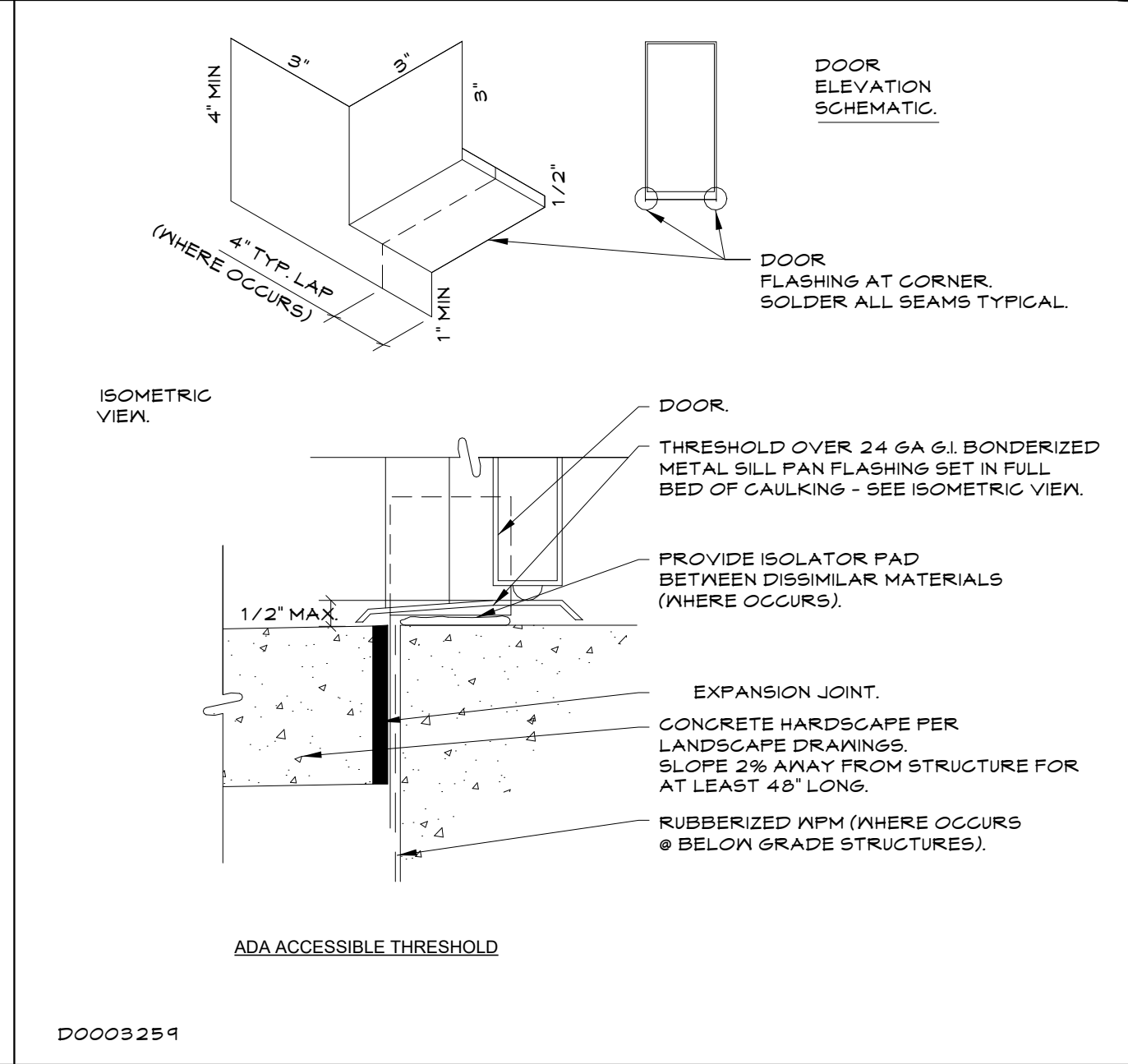
D0009966
DOOR JAMB - SIDING SCALE 3/4" = 1'-0" **6**



D0000144
DOOR JAMB - PLASTER SCALE 3/4" = 1'-0" **2**



2020021DET009
OUTSWING EXTERIOR DOOR SILL SCALE 3/4" = 1'-0" **7**



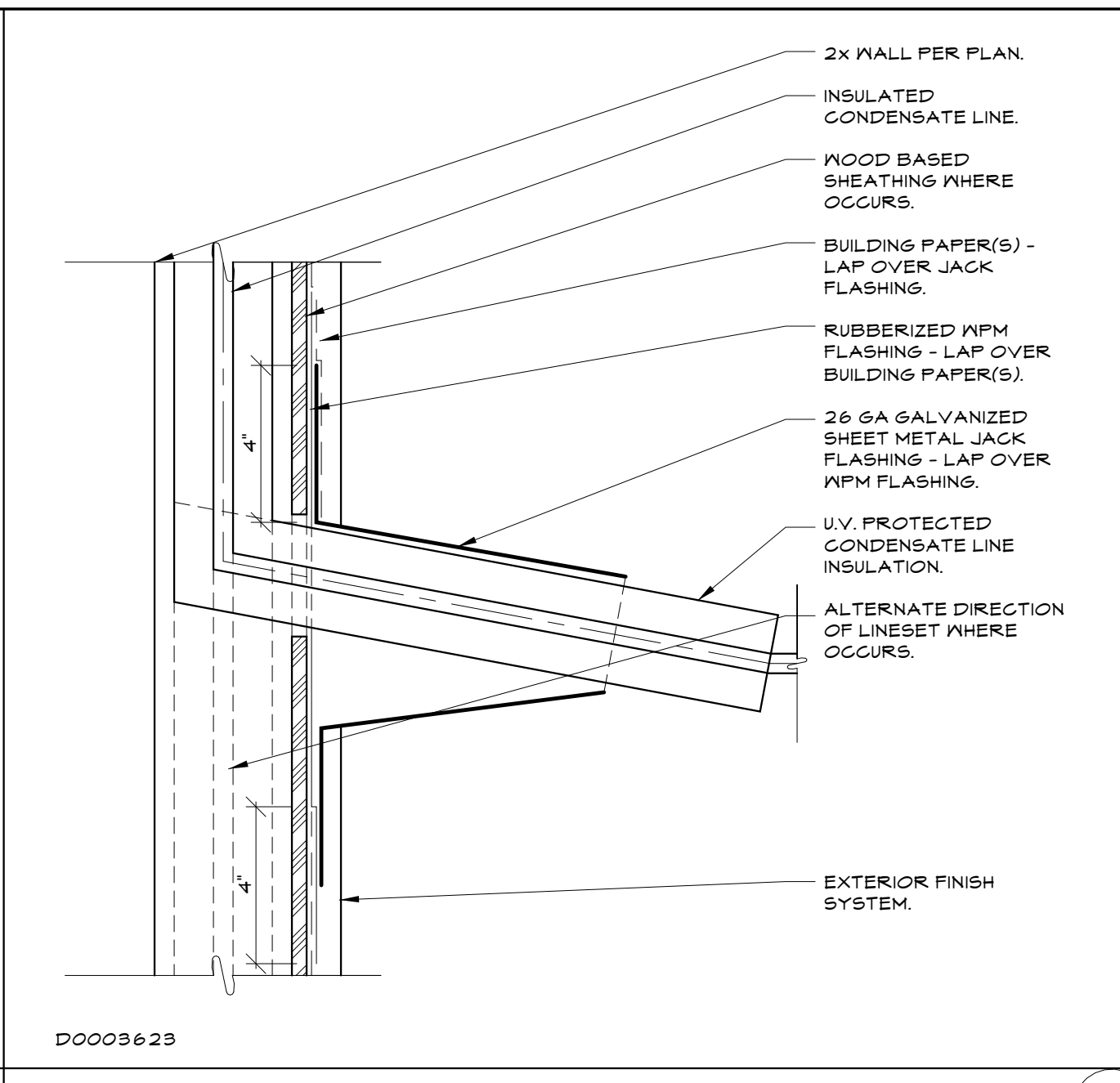
D0009294
ACCESS. EXTERIOR DOOR SILL SCALE 3/4" = 1'-0" **3**

COTA VERA SWIM CLUB
 2022014 HOMEFED CORPORATION

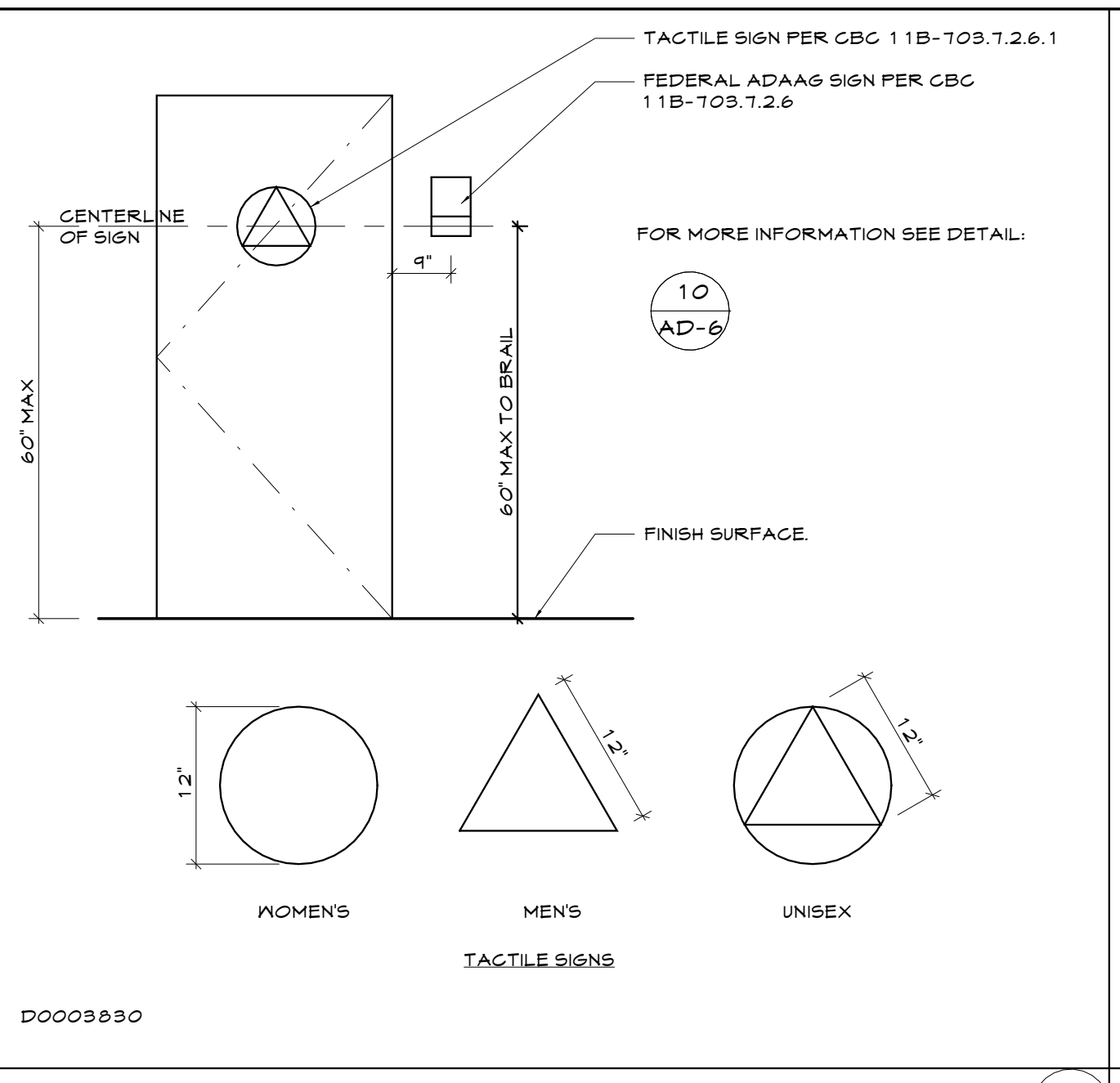
1/17/23 CITY SUBMITTAL
 1/16/2023 8:09:14 PM PRINT DATE

DETAILS
 ARCHITECTURAL DETAILS
AD-2

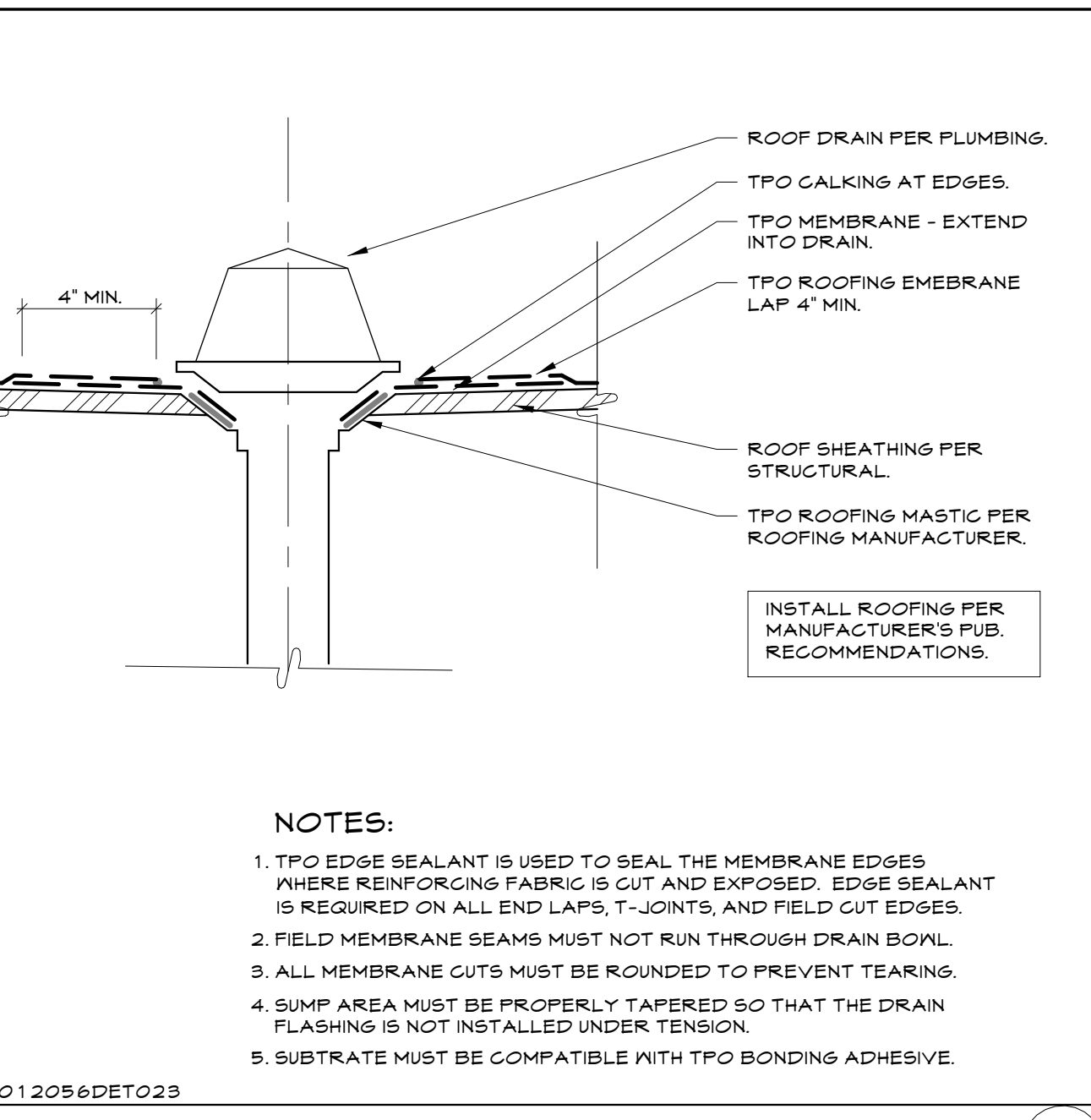
FILED 2022/02/20 14:00:00 HOMEFED CORP Cota Vera Swim Club 2022/02/20 14:00:00 CDI_CD REVIT/2022/02/20 14:00:00 COTA VERA SWIM CLUB.rvt
 ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK AND ARE THE PROPERTY OF STARCK ARCHITECTURE AND PLANNING DEVELOPED FOR USE ON THIS PROJECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF STARCK ARCHITECTURE AND PLANNING.



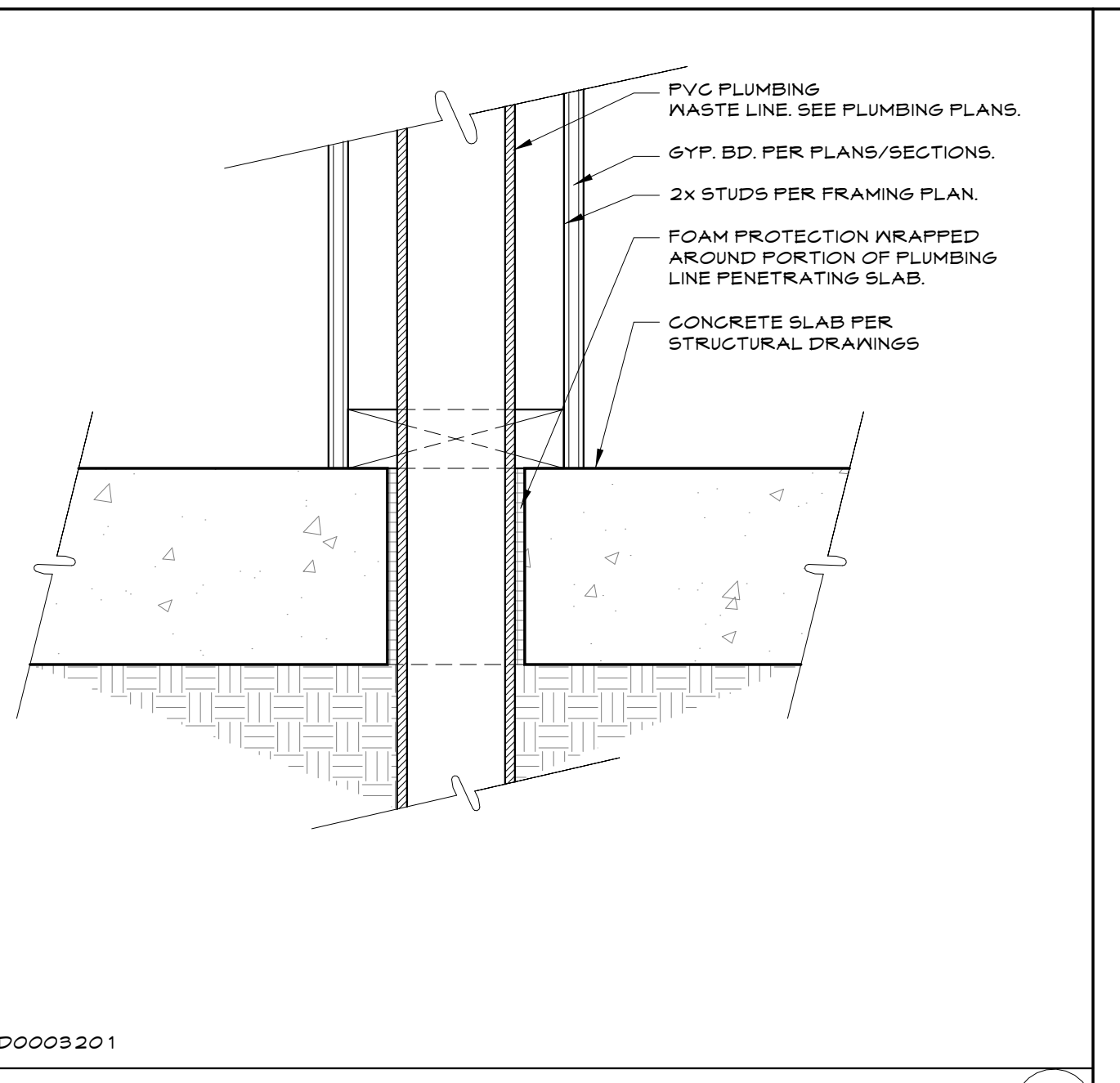
D000923 AC LINE SET AT WALL SCALE 3/4" = 1'-0"



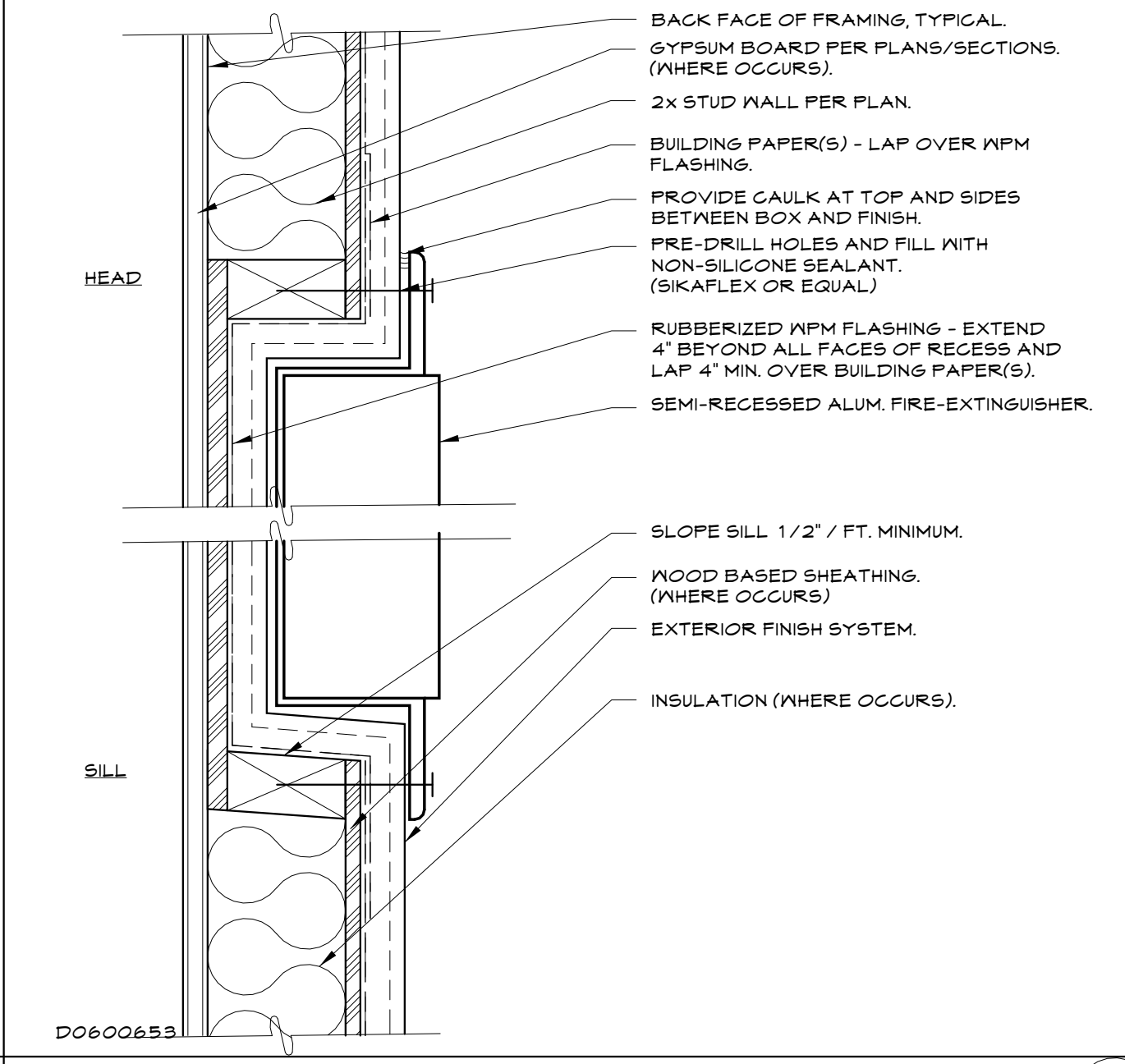
D000930 TOILET ROOM SIGNAGE SCALE 1/2" = 1'-0"



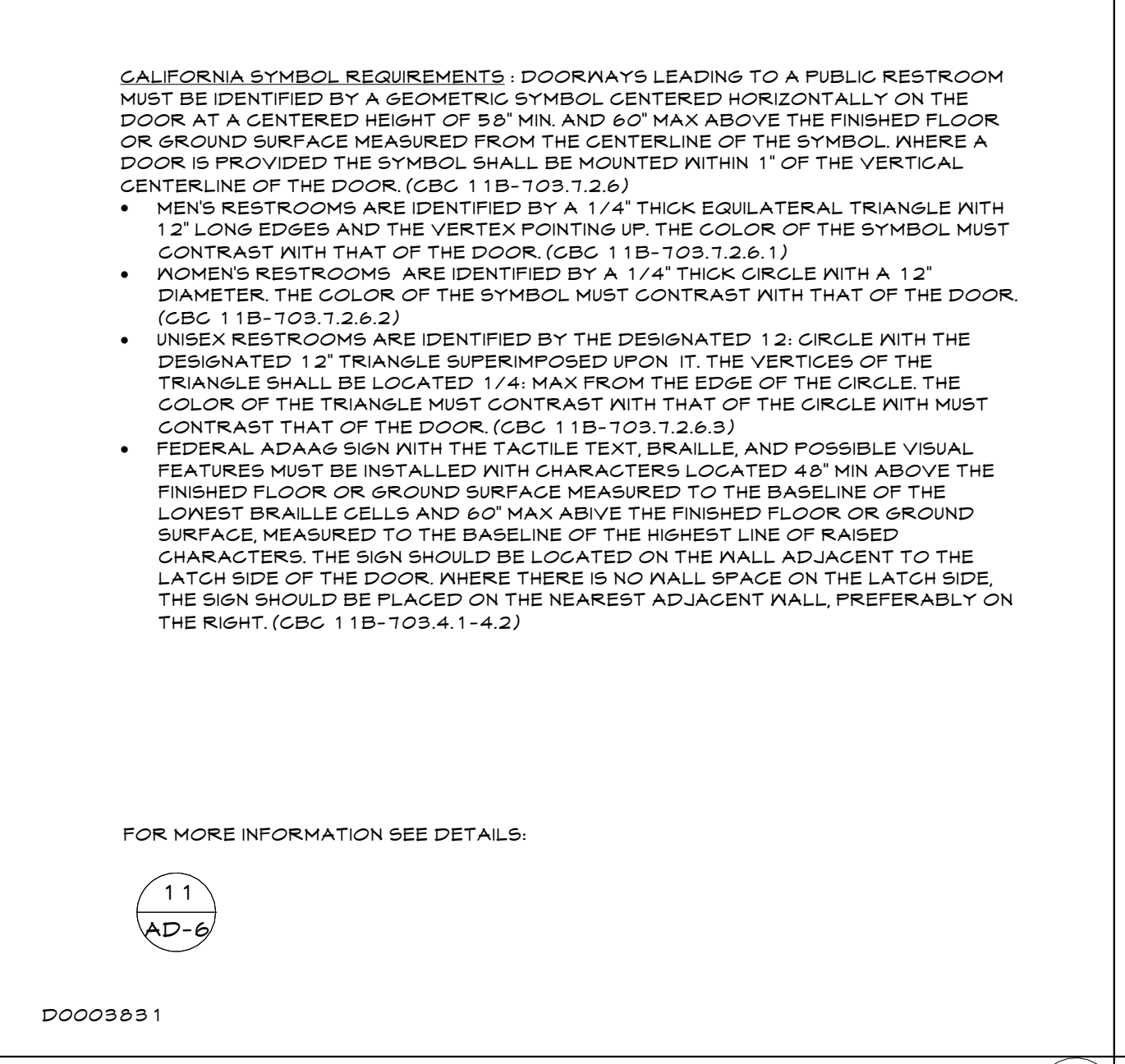
2012096DET023 ROOF DRAIN SCALE 3/4" = 1'-0"



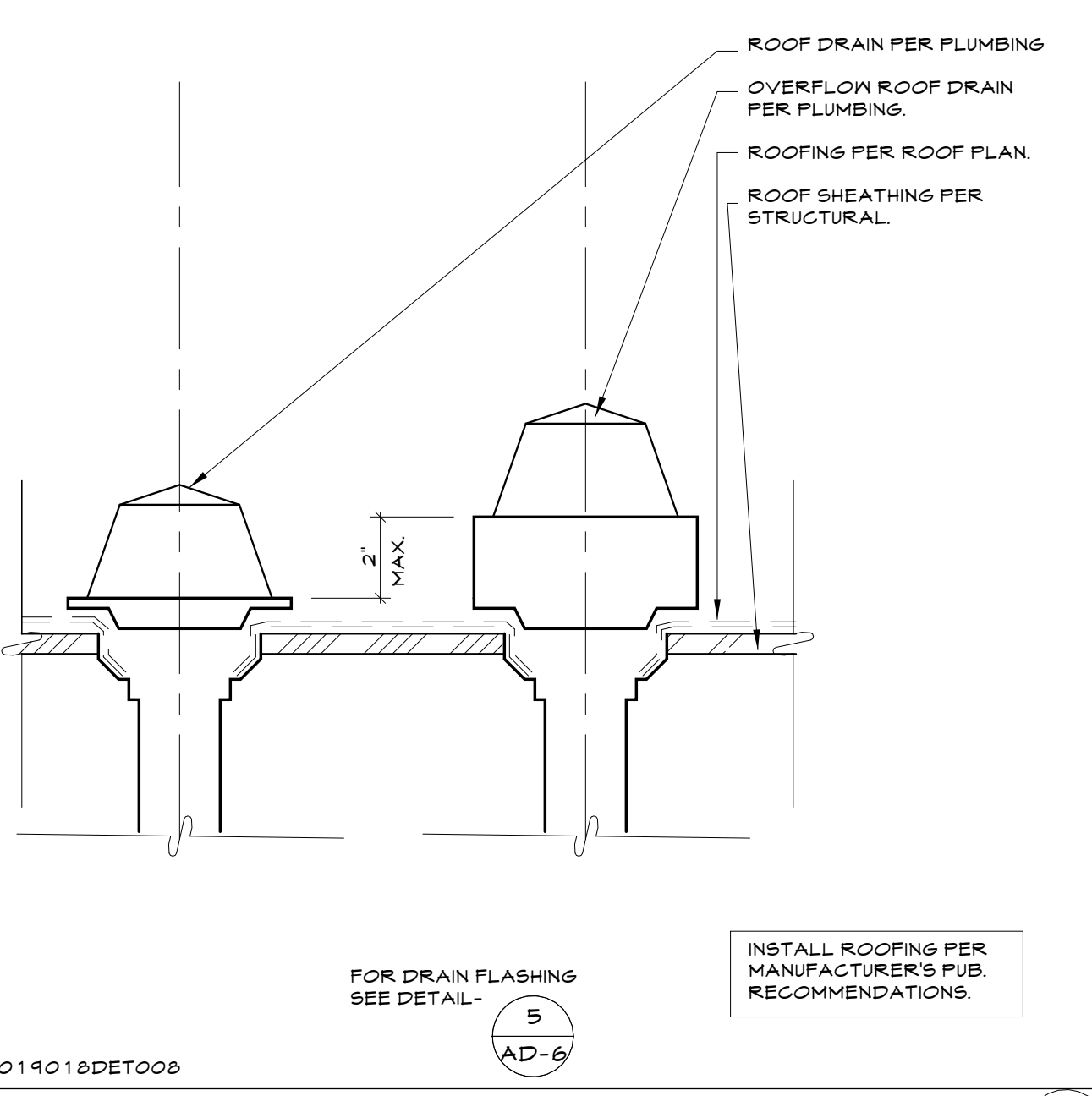
D0009201 PLUMB WASTE LINE PROTECTION SCALE 3/4" = 1'-0"



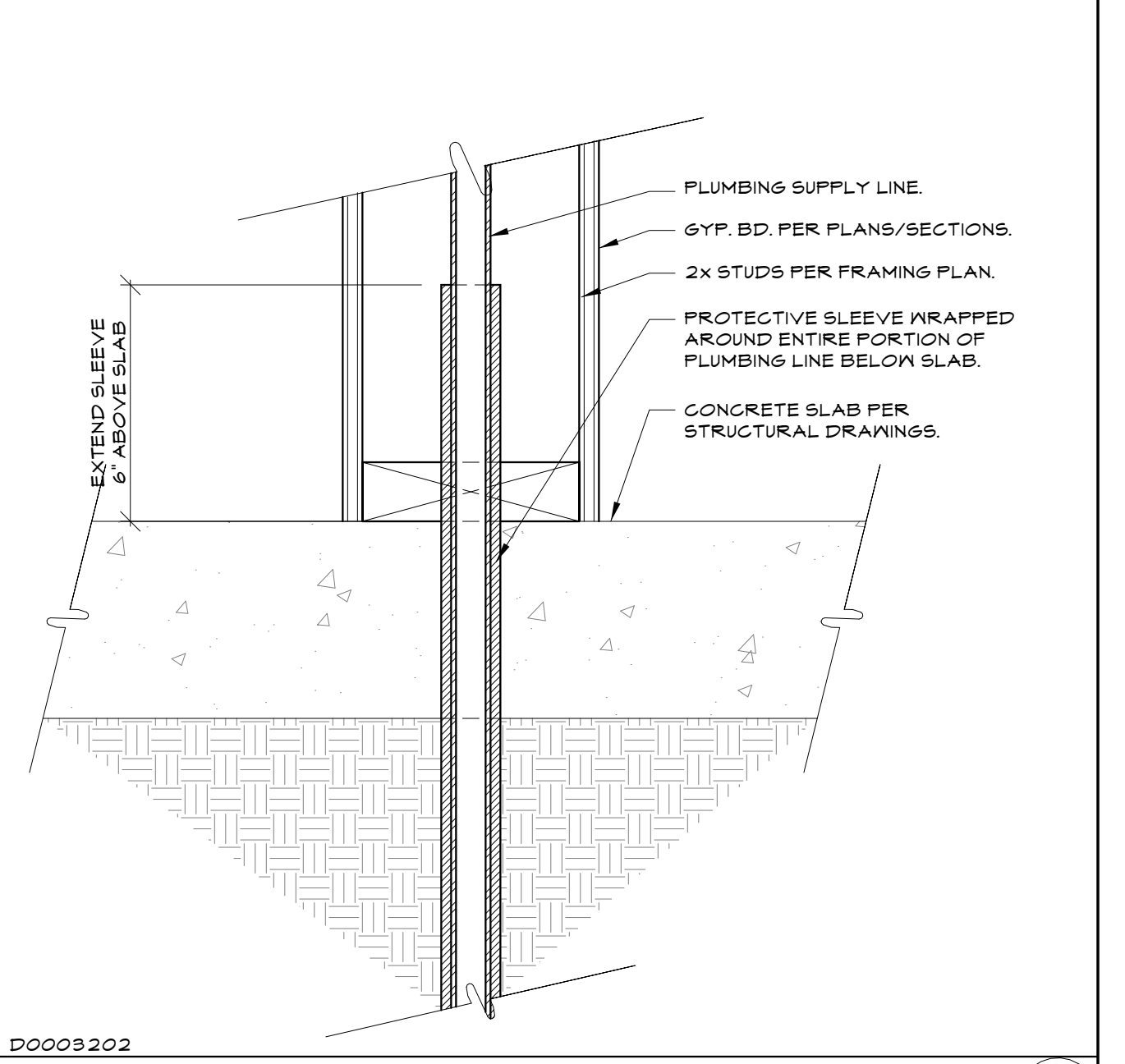
D060683 REC FIRE-EXTINGUISHER CABINET SCALE 3/4" = 1'-0"



D000931 TOILET ROOM SIGNAGE SCALE 1/2" = 1'-0"



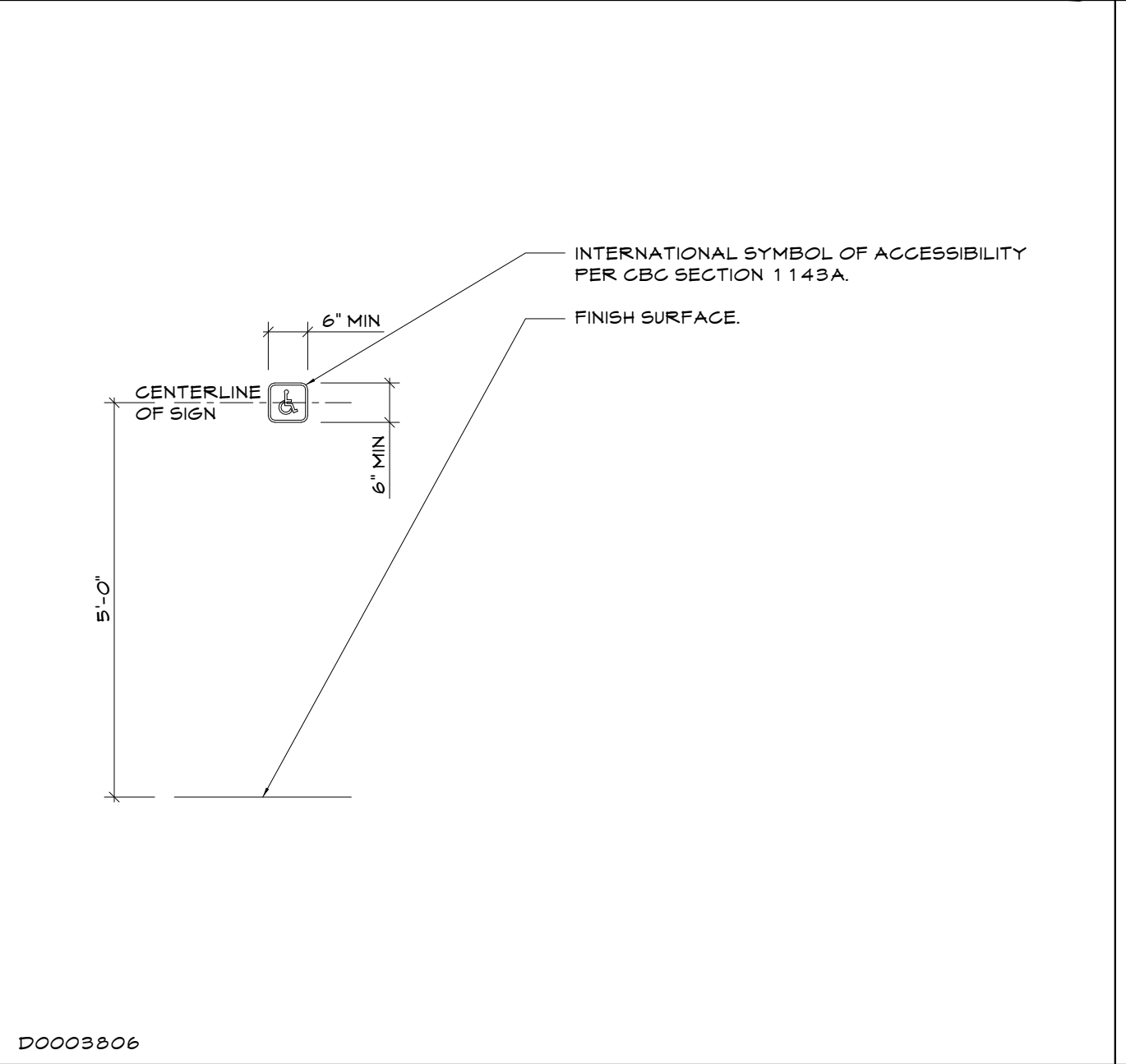
2014018DET026 ROOF DRAIN / OVERFLOW DRAIN SCALE 3/4" = 1'-0"



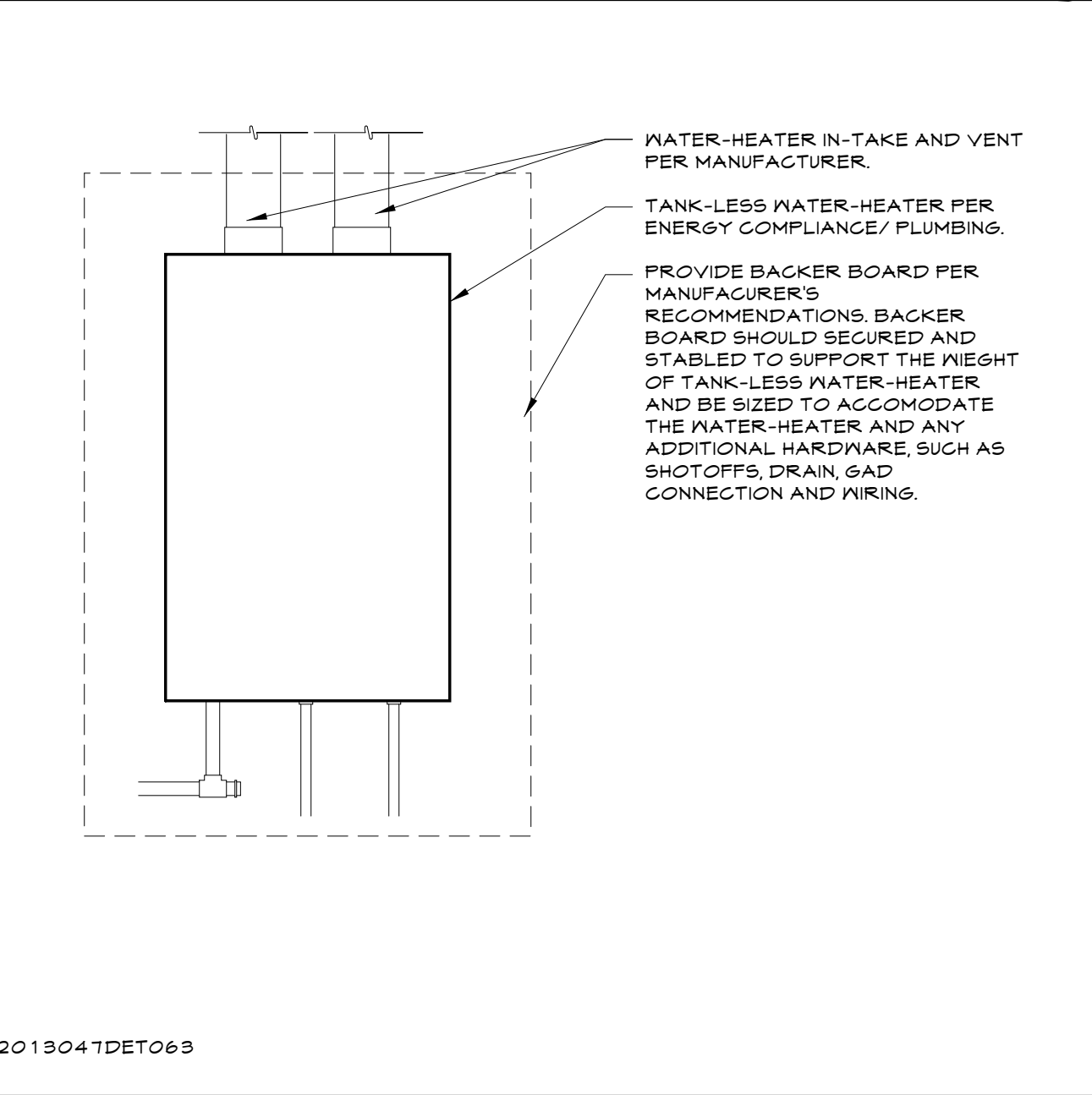
D0009202 PLUMB SUPPLY LINE PROTECTION SCALE 3/4" = 1'-0"



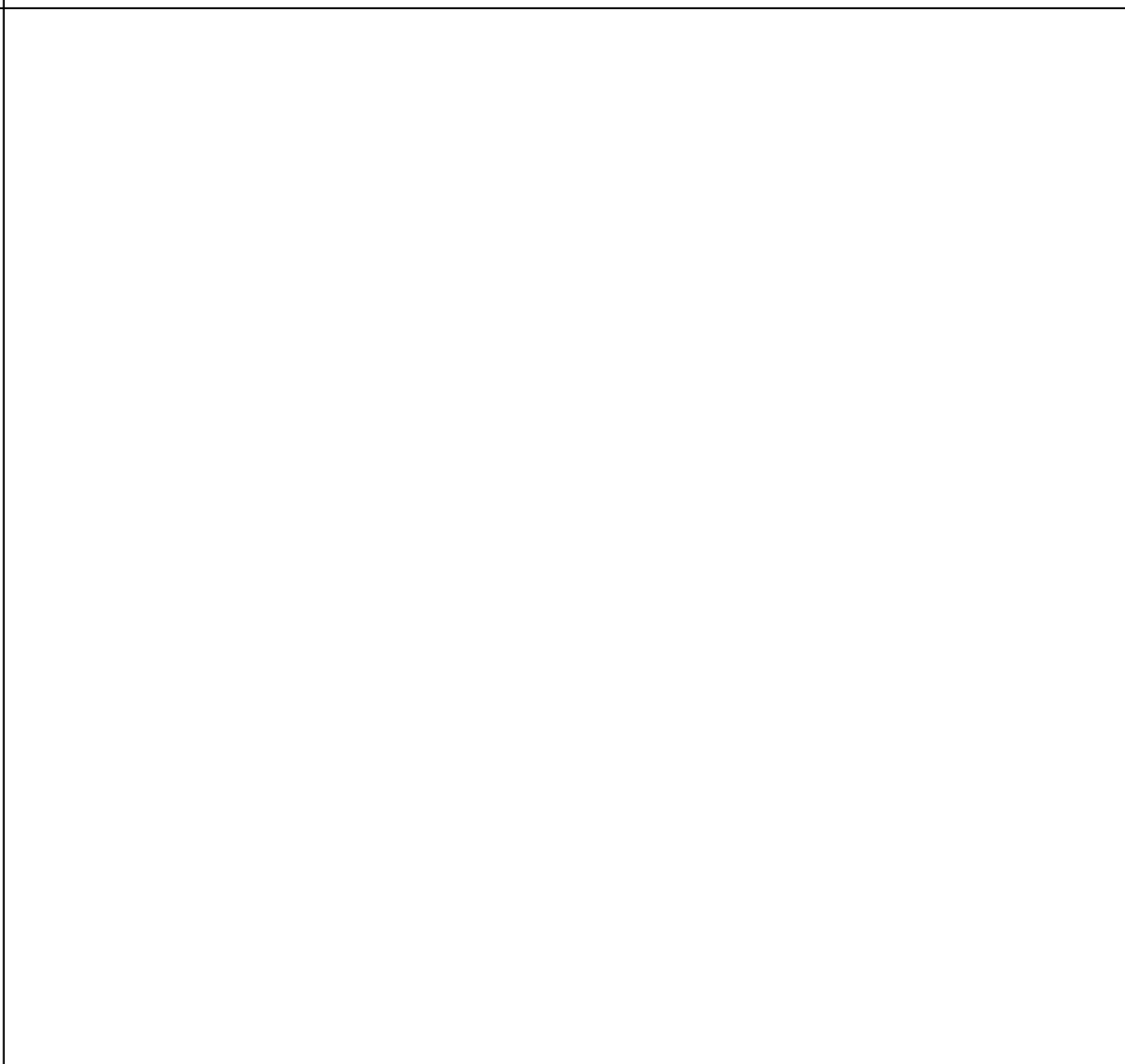
D0009306 ACCESSIBLE SIGN AT WALL SCALE 1/2" = 1'-0"



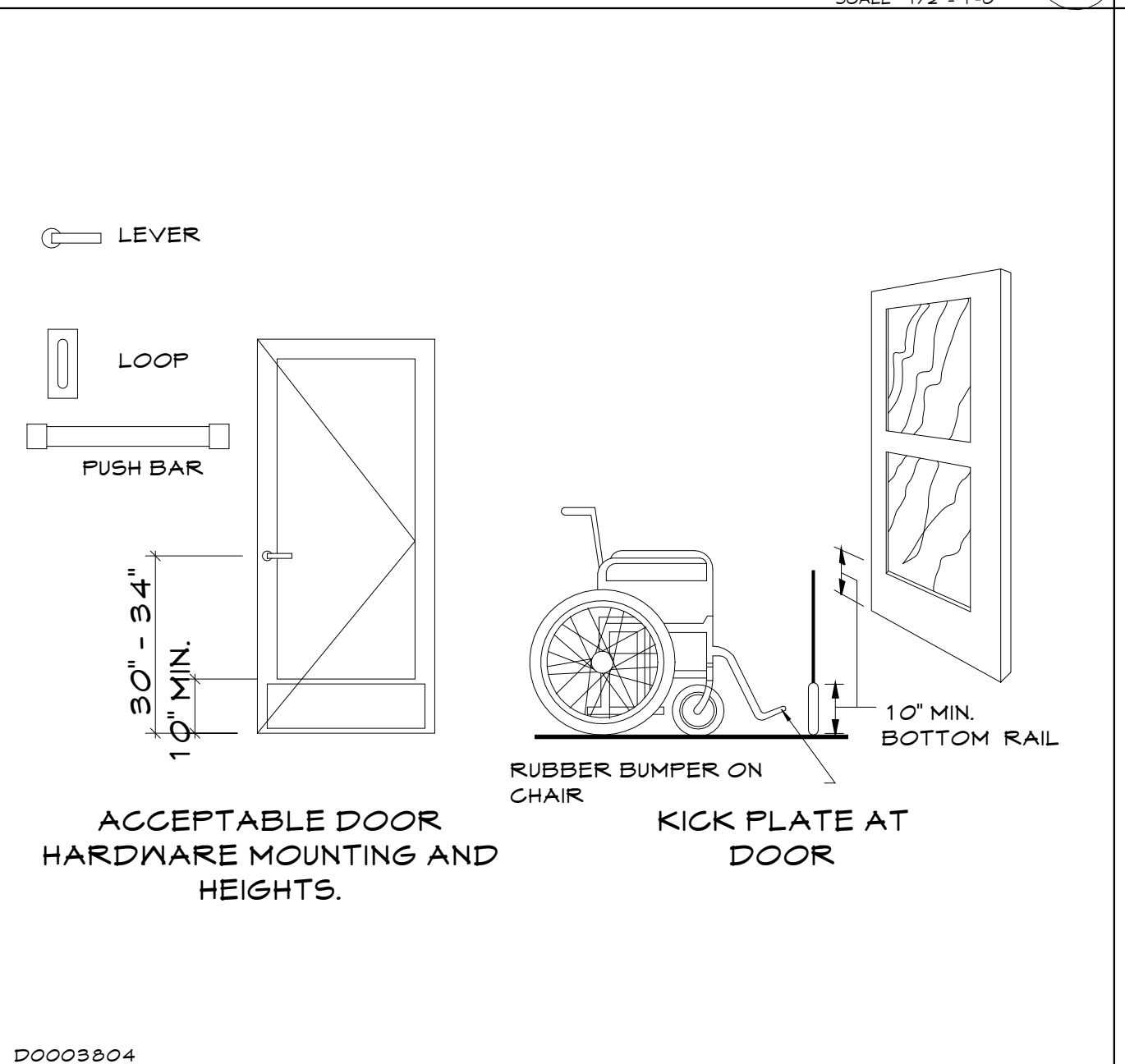
2019047DET069 WATER - HEATER INSTALLATION SCALE 1" = 1'-0"



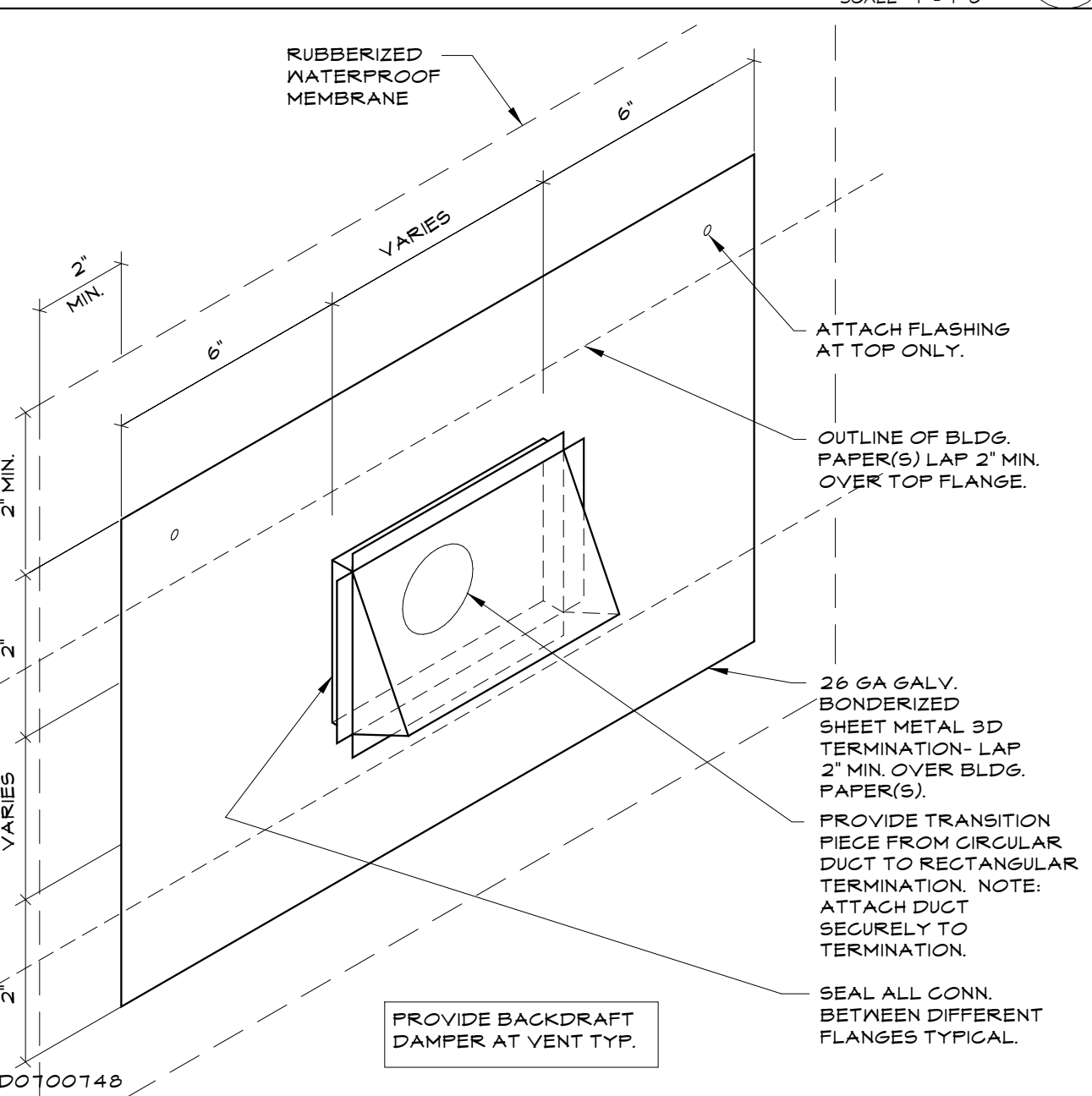
D0009250 EXT ELECTRICAL PENETRATION SCALE 3/4" = 1'-0"



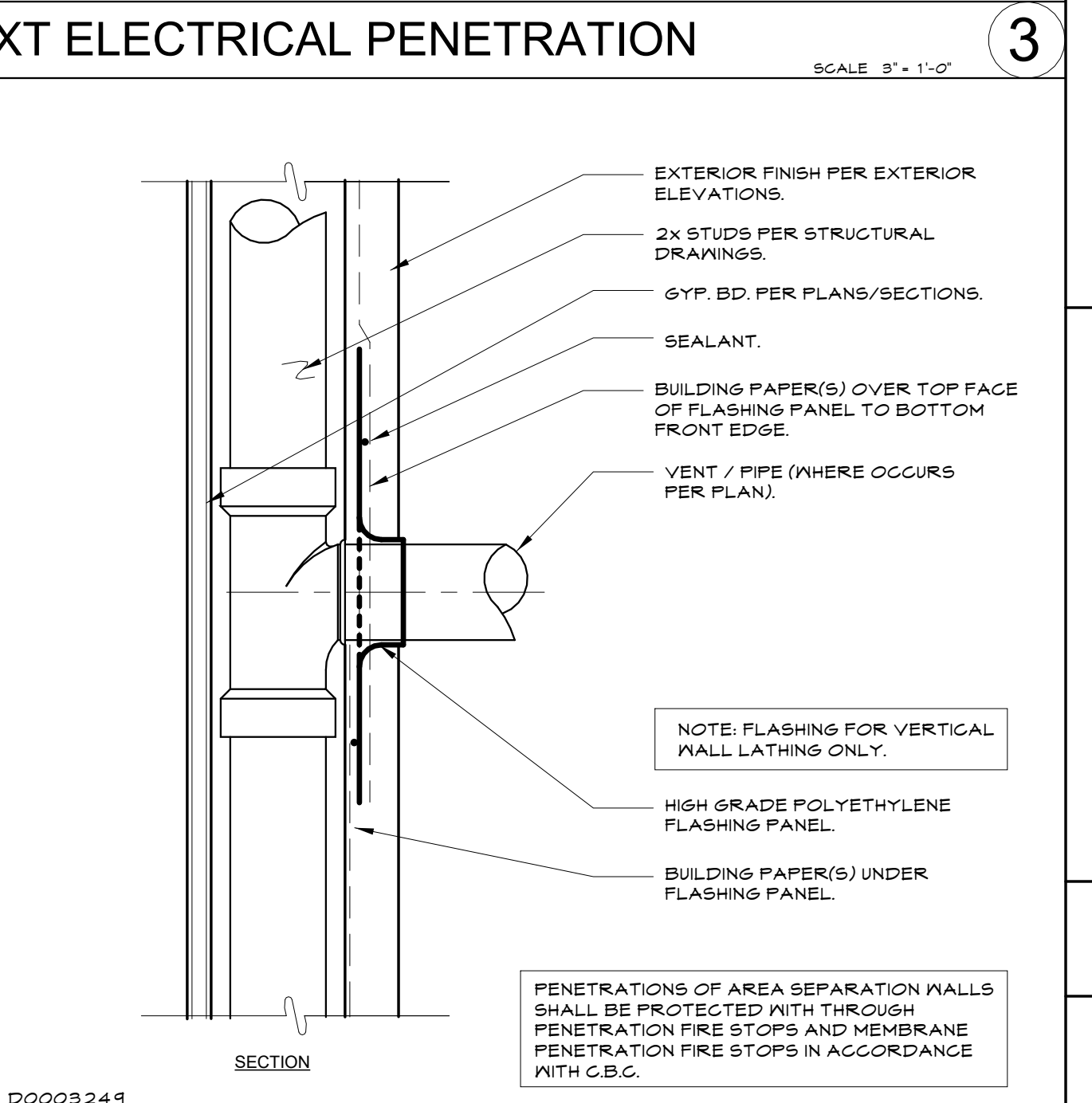
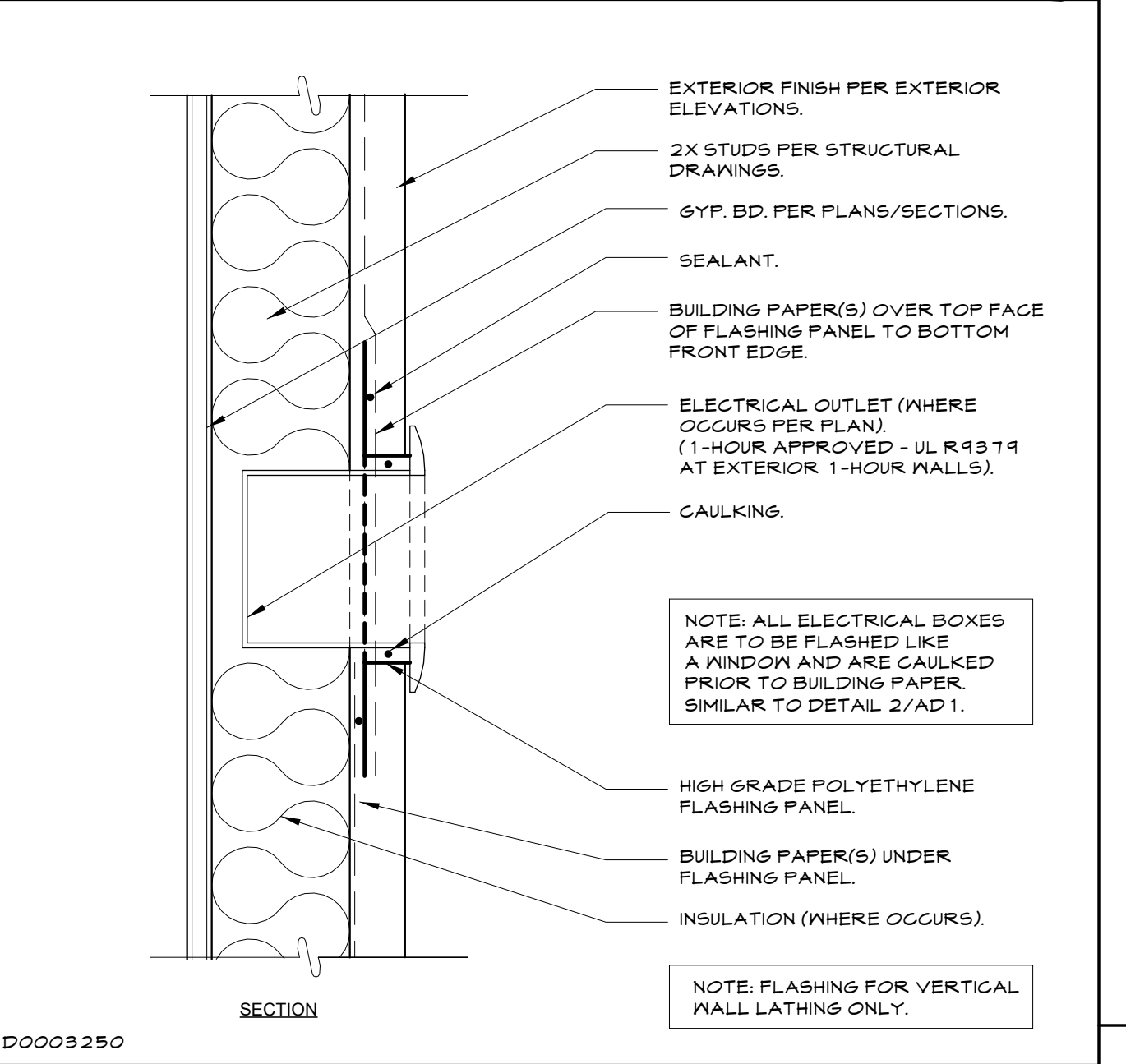
D0009804 ACCESSIBLE DOOR SCALE 3/4" = 1'-0"



D0100748 VENT TERMINATION AT EXT WALL SCALE 3/4" = 1'-0"

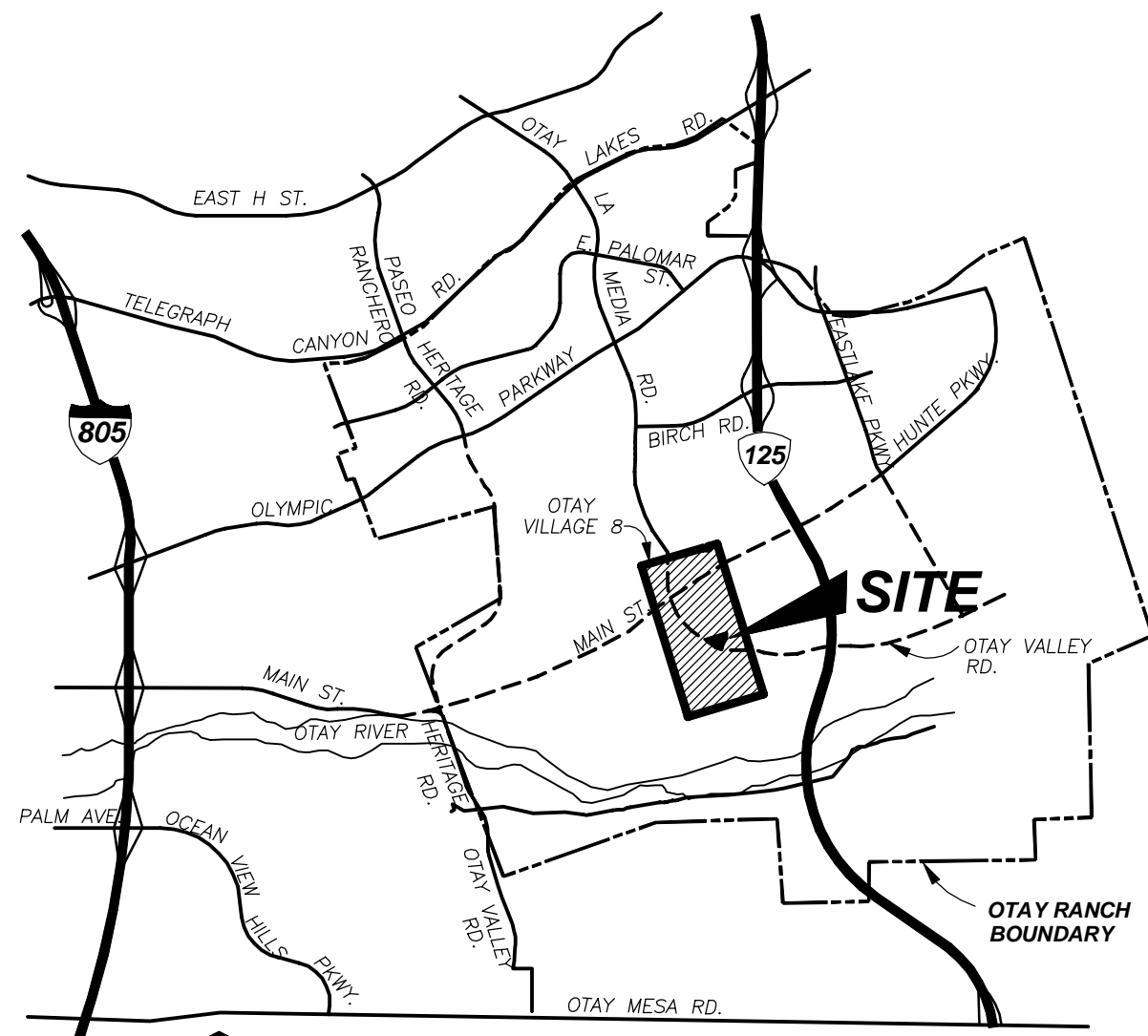


D0009249 EXT PLUMBING PENETRATION SCALE 3/4" = 1'-0"



COTA VERA SWIM CLUB
 2022/014 HOMEFED CORPORATION
 1/17/23 CITY SUBMITTAL
 1/16/2023 8:09:52 PM PRINT DATE
AD-6

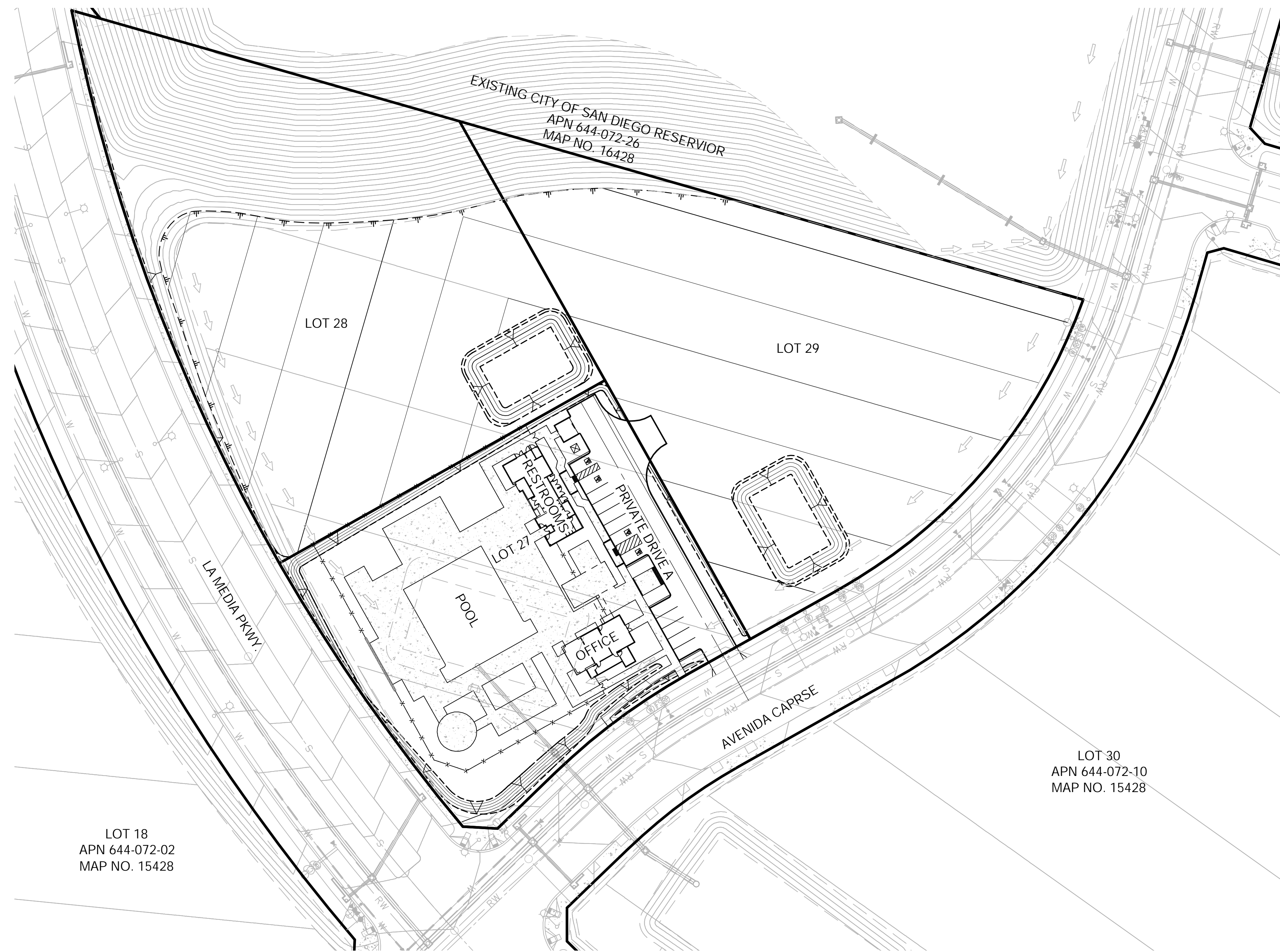
PRECISE GRADING PLANS FOR:
COTA VERA SWIM CLUB
OTAY RANCH VILLAGE 8 WEST (LOT 27)
 CITY OF CHULA VISTA, CALIFORNIA



VICINITY MAP
 NOT TO SCALE



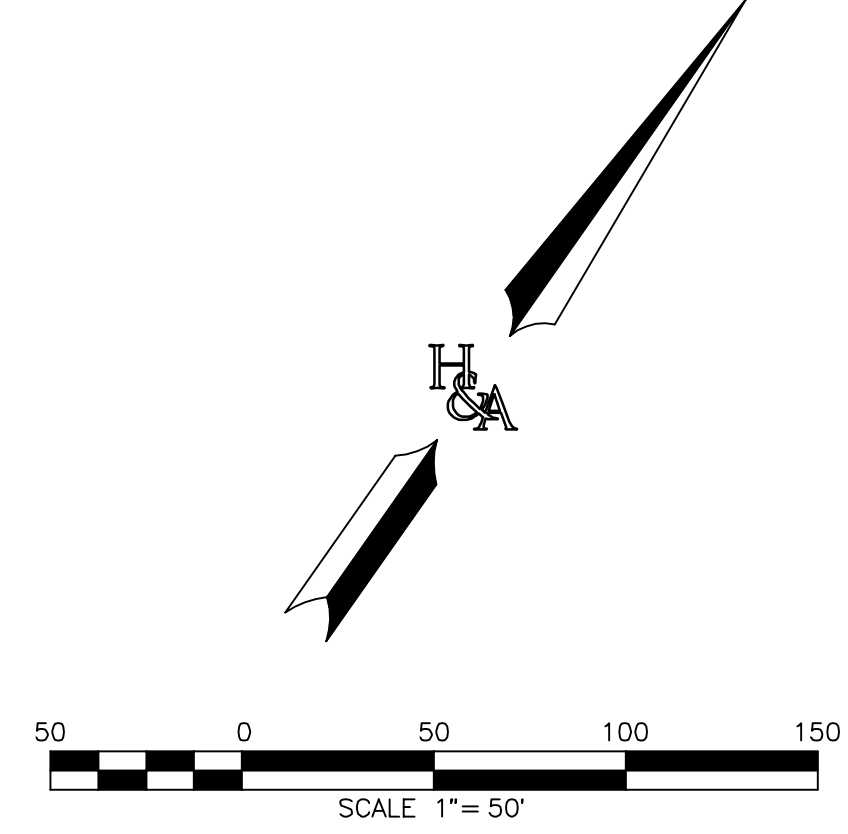
OVERALL VILLAGE 8 WEST KEY MAP
 SCALE: 1"=600'



LEGEND

- RIGHT OF WAY/PROPERTY LINE
- - - EASEMENT
- BACKFLOW PREVENTOR REQUIRED
- PLAN NUMBER (R=REVERSE)
- 1A BUILDING NUMBER
- 2 BUILDING NUMBER
- P=460.7 PAD ELEVATION
- FF=461.37 FINISH FLOOR ELEVATION
- GFF=460.87 GARAGE FINISH FLOOR ELEVATION (FRONT)
- 305.6 HP SWALE FLOW LINE ELEVATION (VARIES EACH LOT)
- 305.25 FS HARDSCAPE FINISH SURFACE ELEVATION
- XXX.X TO XXX.X FL DRAINAGE SWALE (1.0% MINIMUM)
- XXX.X CO PVC AREA DRAIN (SIZE PER PLAN) & GRATE
- XXX.X FL PVC AREA DRAIN (SIZE PER PLAN) & CLEANOUT
- 0.40' F DEEPENED FOOTING (PER PLAN)
- 0.4'S.W. STEM WALL (PER PLAN)
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- Y.Y.Y SLOPE 2:1 OR FLATTER (SLOPE <4' EQUALS 1.5:1 AS NOTED)
- DAYLIGHT LINE (LIMITS OF GRADING)
- 1.7% DRIVEWAY GRADE
- RETAINING WALL (PER C.V. DWG)
- 100.5 TW 100.0 TF RETAINING WALL TOP OF WALL/FOOTING ELEVATION PER SEPARATE PERMIT
- XXX.X TLW TOP OF LANDSCAPE WALL
- EXISTING WATER LINE
- EXISTING SEWER LINE
- ⊙ EXISTING WATER LATERAL
- ⊙ EXISTING SEWER LATERAL
- ⊙ EXISTING SEWER MANHOLE
- ⊙ EXISTING FIRE HYDRANT ASSEMBLY
- ⊙ EXISTING STREET LIGHT
- ADA PATH OF TRAVEL
- LANDSCAPE WALL PER LANDSCAPE PLAN

- NOTES:**
- FOR ROUGH GRADING PLANS AND SPECIFICATIONS SEE CITY OF CHULA VISTA DWG. NUMBERS 18016 & 14011 FOR IMPROVEMENT PLANS AND SPECIFICATIONS SEE CITY OF CHULA VISTA DWG. NUMBERS 14012 & 19036
 - STREET, CURB, & PAD ELEVATIONS ARE PER EXIST. PLANS & SHOULD BE VERIFIED IN THE FIELD. IF ACTUAL ELEVATIONS VARY FROM THOSE SHOWN, NOTIFY THE ENGINEER OF WORK AT (858) 558-4500.
 - FOOTPRINTS ARE BASED UPON ARCHITECTURAL PLANS RECEIVED FROM STARK ARCHITECTURE DATED 01/05/23
 - DRIVEWAY PAVING MATERIAL TO BE 4" P.C.C. MIN. STREET
 - ADDRESS SHALL BE LOCATED ON BUILDING EXTERIOR IN ACCORDANCE WITH SECTION 12.48.030 OF THE CHULA VISTA MUNICIPAL CODE.
 - APPROVED BACKWATER VALVE IS REQUIRED FOR DRAINAGE PIPING SERVING FIXTURES LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER.
 - BACKFLOW PREVENTERS ARE BASED ON FF ELEV.
 - BACKFLOW PREVENTORS CAN BE SUBSTITUTED WITH A LOOSENED GEM CAP.
 - SEWER CLEAN-OUTS ARE PER CITY OF CHULA VISTA CONSTRUCTION STANDARD #20 (CVCS 20).
 - ALL PROPERTY LINE (REAL OR ASSUMED), EASEMENTS AND BUILDINGS (BOTH EXISTING AND PROPOSED), ARE SHOWN ON THIS SITE PLAN.
 - SURFACE WATER WILL DRAIN AWAY FROM BUILDING AT 2% MINIMUM GRADE.
 - SEWER SYSTEM IS PRIVATE UNLESS OTHERWISE NOTED.
 - MINIMUM DISTANCE FROM BOTTOM OF RETAINING WALL FOOTING TO DAYLIGHT IS 7'.
 - ASSESSOR'S PARCEL NUMBER: 644-072-07, 08 & 09
 - BUILDER WILL INSTALL PRESSURE REGULATORS ON ALL BUILDINGS.
 - THIS PROJECT SHALL COMPLY WITH (2016) CALIFORNIA BUILDING CODE AS AMENDED BY CITY OF CHULA VISTA MUNICIPAL CODE TITLE 15, (2016) CALIFORNIA RESIDENTIAL CODE, (2016) CALIFORNIA MECHANICAL CODE, (2016) CALIFORNIA PLUMBING CODE, (2016) CALIFORNIA ELECTRICAL CODE, (2016) CALIFORNIA FIRE CODE, (2016) CALIFORNIA GREEN BUILDING STANDARDS, (2016) CALIFORNIA ENERGY CODE, CITY OF CHULA VISTA INCREASED ENERGY EFFICIENCY ORDINANCE, THE PHOTOVOLTAIC PRE-WIRING ORDINANCE SECTION 15.24.065, SOLAR WATER HEATING PRE-PLUMBING ORDINANCE SECTION 15.28.015, (2000)URBAN-WILDLAND INTERFACE CODE, (1997)UNIFORM HOUSING CODE, (1997) UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY REQUEST FOR INSPECTION.
 - CONTACT THE BUILDING DEPARTMENT AT (619)409-5434 TO SCHEDULE FIRE SPRINKLER OVERHEAD VISUAL, HYDROSTATIC AND FINAL FOR ALL NFPA 130 FIRE SPRINKLER SYSTEMS IN SINGLE FAMILY DWELLING UNITS.
 - BUILDING CONSTRUCTION SHALL ALSO COMPLY WITH MUNICIPAL CODE SECTION 15.28.020 REGARDING CLOTHES WASHER GRAY WATER PRE-PLUMBING AND STUB-OUT.



SHEET INDEX

SHEET 001:	TITLE SHEET
SHEET 002:	ACCESSIBLE PATH OF TRAVEL & SITE PLAN
SHEETS 003:	PRECISE GRADING PLAN

ASSESSORS PARCEL NUMBER

PORTIONS OF 644-072-07, 08 AND 09

LEGAL DESCRIPTION

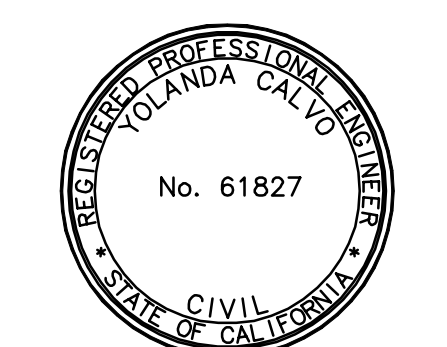
LOT 27, 28 AND 29 OF CITY OF CHULA VISTA TRACT NO. 19-03 OTAY RANCH VILLAGE 8 WEST 'A' MAP, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 16428, FILED IN THE OFFICE OF THE SAN DIEGO COUNTY RECORDER ON NOVEMBER 3, 2020, AS DOCUMENT NO. 2020-7000372 OF OFFICIAL RECORDS.

SOURCE OF TOPOGRAPHY

ROUGH GRADING PLANS BY HALE ENGINEERING: C.V. DRAWING NUMBERS 18016 & 14011

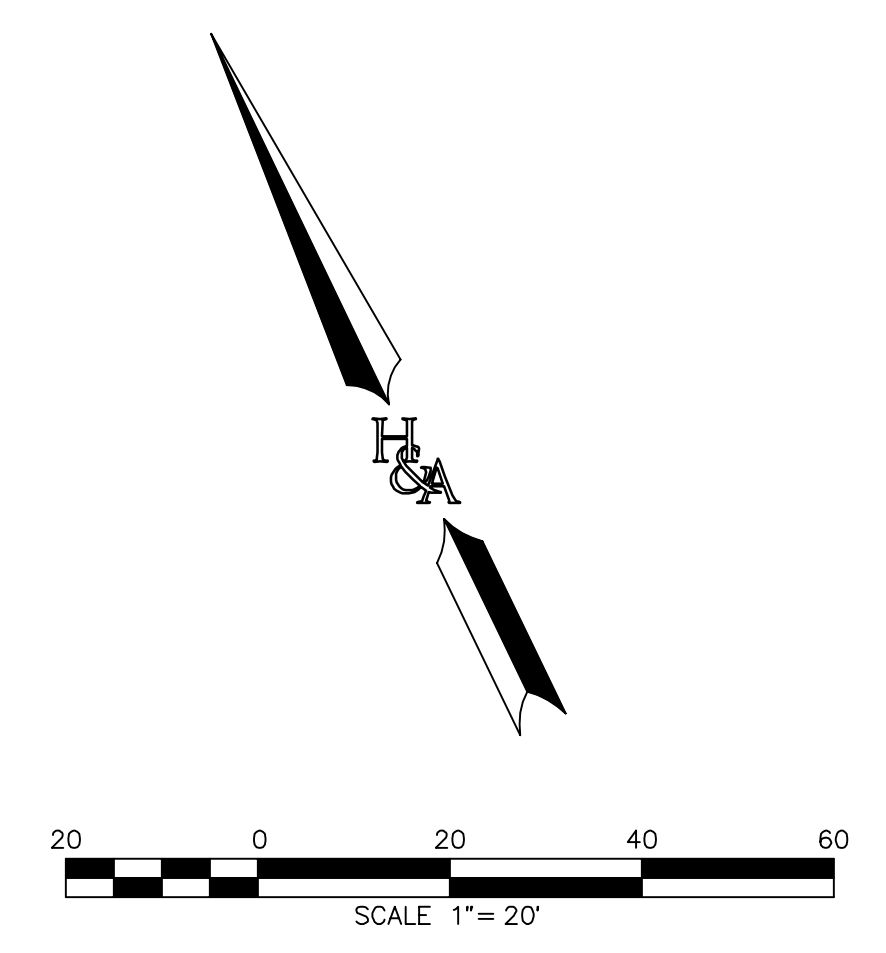
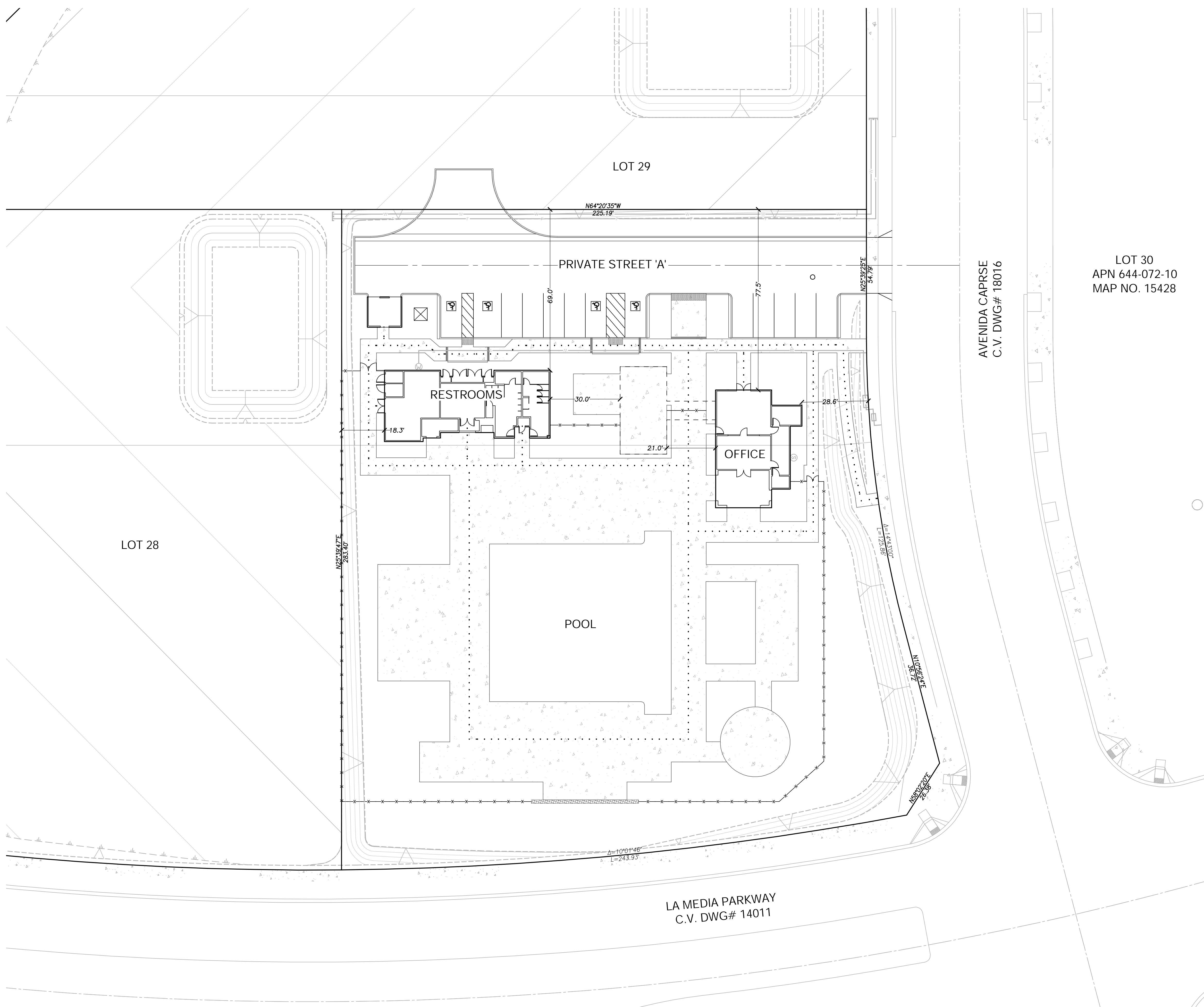
OWNER

HOMEFED VILLAGE B, LLC
 A DELAWARE LIMITED LIABILITY COMPANY
 1903 WRIGHT PLACE
 SUITE 220
 CARLSBAD, CA 92008-6528
 (760) 918-8200



PLANNING 9707 Waples Street
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FAX858558-1414
 TOTAL NUMBER OF SHEETS = 4

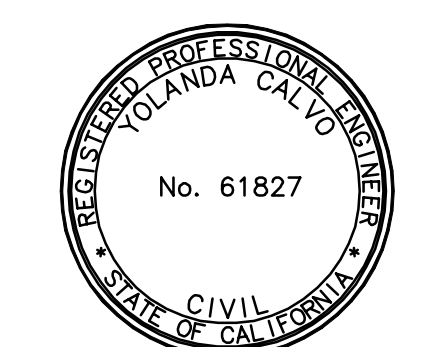
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DIVISION	C01
Contractor	C.V. DWG. 18016 (OTAY MASS GRADING, PHASE 2)					DESCRIPTION: TOPOGRAPHY CONDUCTED BY HUNSAKER TO BE WITHIN ALLOWABLE TOLERANCE BASED ON FIELD SURVEY USING BRASS BENCHMARK SCOTT ENG. IN IRON PIPE 1.5 MILES EAST OF JCT. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN TOP EASTERLY OF PROMONTORY OF HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY (PT.#1309 PER RD. 14841) (ELEV.=628.319 (NWD 88))	Horizontal N/A Vertical N/A	YOLANDA CALVO	S.M.L.	A.S.V.	Office	By _____ City Engineer	PRECISE GRADING FOR:	COTA VERA SWIM CLUB OTAY RANCH VILLAGE 8 WEST (LOT 27)	ACT. NO. THRU _____
Inspector	C.V. DWG. 14011 (OTAY MASS GRADING, PHASE 1)							Plans Prepared Under Supervision Of	Date	R.C.E. No.	61827				
Date Completed	C.V. DWG. 14012 (OTAY IMP. PLANS, PHASE 1)														
	C.V. DWG. 19036 (OTAY IMP. PLANS, PHASE 2)														



ACCESSIBLE PATH OF TRAVEL & SITE PLAN EXHIBIT
 SCALE: 1"=20'

ACCESSIBLE PARKING STALL.....

ACCESSIBLE PATH OF TRAVEL..... - - - - -



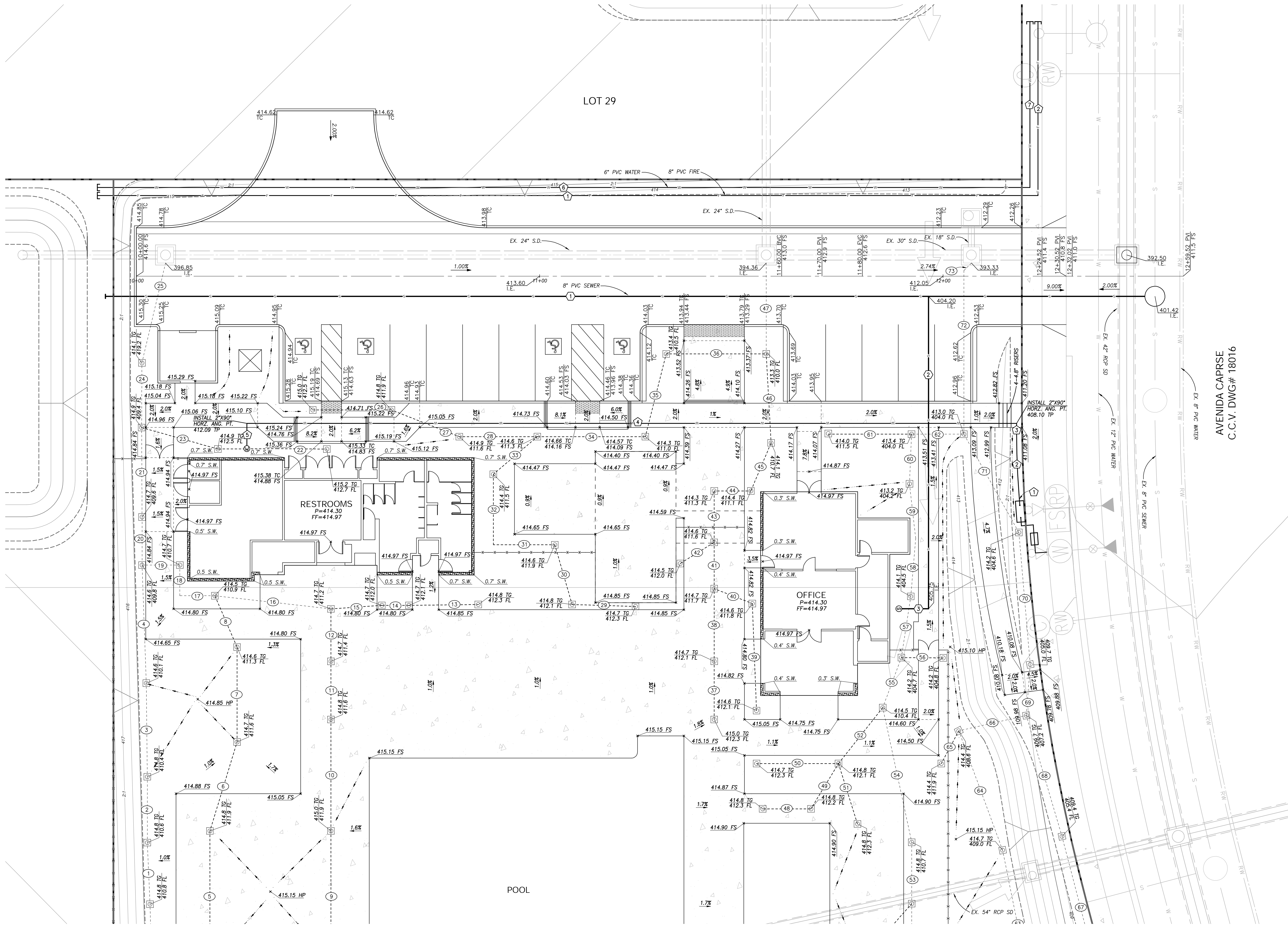
HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

PLANNING 9707 Waples Street
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FAX858558-1414

CONSTRUCTION RECORD		REFERENCES		BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA		ENGINEERING DIVISION	C02	
Contractor		C.V. DWG. 18016 (OTAY MASS GRADING, PHASE 2)						DESCRIPTION: TOPOGRAPHY CONE 1 INCH BY HUNSAKER TO BE WITHIN ALLOWABLE TOLERANCE BASED ON FIELD SURVEY USING BRASS BISK MARKED SCOTT ENGINEERING IRON PIPES 1.5 MILES EAST OF JCT. OF MAIN ST. & HERZOG RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY (UT 81359 PER ROD 14841) (ELEV=628.319(NWD 88))	Horizontal 1"=20'	YOLANDA CALVO	S.M.L.	A.S.V.	By _____	By _____	PRECISE GRADING FOR:		COTA VERA SWIM CLUB	ACT. NO. _____	THRU _____
Inspector		C.V. DWG. 14011 (OTAY MASS GRADING, PHASE 1)							Vertical 1"=20'	Plans Prepared Under Supervision Of	Date	Office	City Engineer	OTAY RANCH VILLAGE 8 WEST (LOT 27)					
Date Completed		C.V. DWG. 14012 (OTAY IMP. PLANS, PHASE 1)								R.C.E. No.	61827								
		C.V. DWG. 19036 (OTAY IMP. PLANS, PHASE 2)																	

R:\1753\KEng\Precise Grading\1753\PG02.dwg(13-Jan-13-2023)654

OTAY RANCH VILLAGE 8 WEST, SWIM CLUB
PRECISE GRADING PLAN
W.C. NO. 2395-0052

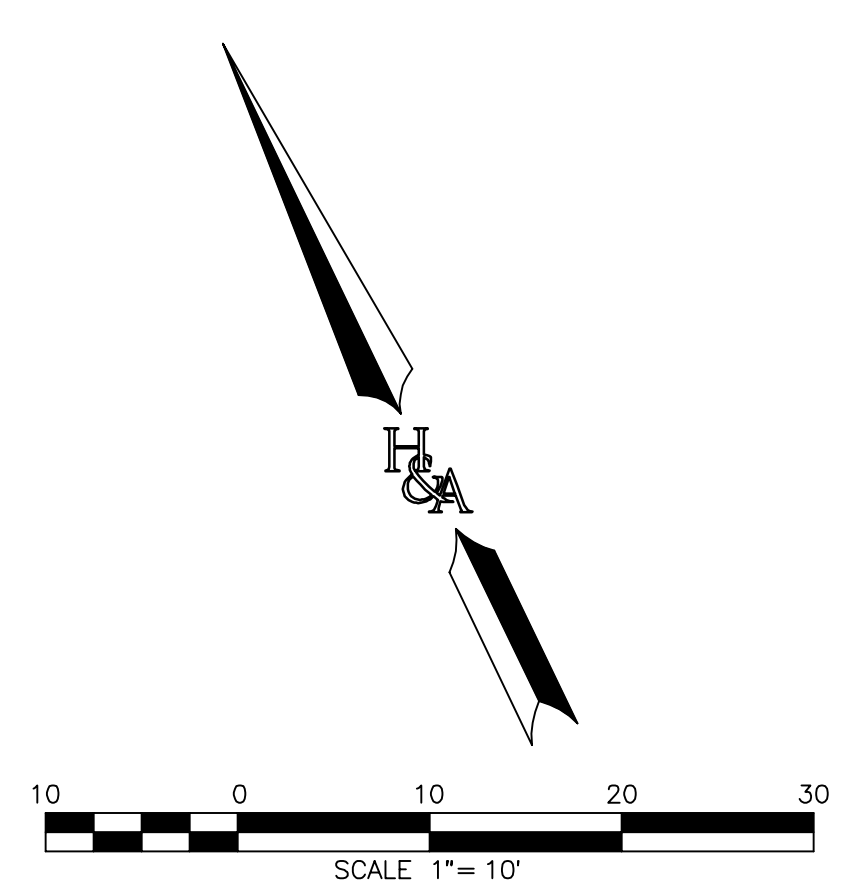


No.	LENGTH	MATERIAL
1	15.29'	6" PVC
2	16.34'	6" PVC
3	23.22'	6" PVC
4	28.30'	6" PVC
5	32.50'	4" PVC
6	23.06'	4" PVC
7	23.53'	4" PVC
8	13.88'	4" PVC
9	32.50'	4" PVC
10	22.65'	4" PVC
11	14.42'	4" PVC
12	13.01'	4" PVC
13	13.19'	4" PVC
14	6.70'	4" PVC
15	12.65'	4" PVC
16	28.96'	6" PVC
17	8.69'	6" PVC
18	7.60'	6" PVC
19	9.37'	6" PVC
20	11.93'	8" PVC
21	22.38'	8" PVC
22	22.01'	8" PVC
23	19.64'	4" PVC
24	16.04'	8" PVC
25	25.45'	8" PVC
26	19.50'	4" PVC
27	18.08'	4" PVC
28	19.35'	4" PVC
29	15.73'	4" PVC
30	15.44'	4" PVC
31	15.25'	4" PVC
32	17.49'	4" PVC
33	14.37'	4" PVC
34	26.76'	4" PVC
35	21.16'	4" PVC
36	24.80'	4" PVC
37	14.42'	4" PVC
38	18.02'	4" PVC
39	26.57'	4" PVC
40	10.14'	4" PVC
41	11.48'	4" PVC
42	9.97'	4" PVC
43	12.75'	4" PVC
44	9.08'	4" PVC
45	12.94'	4" PVC
46	22.08'	4" PVC
47	22.55'	6" PVC
48	11.96'	4" PVC
49	13.16'	4" PVC
50	20.33'	4" PVC
51	15.70'	4" PVC
52	17.69'	4" PVC
53	15.22'	6" PVC
54	34.17'	6" PVC
55	13.23'	6" PVC
56	10.40'	4" PVC
57	15.35'	4" PVC
58	14.40'	8" PVC
59	13.67'	8" PVC
60	12.31'	8" PVC
61	20.67'	4" PVC
62	12.98'	8" PVC
63	31.22'	6" PVC
64	31.55'	6" PVC
65	9.19'	4" PVC
66	11.17'	6" PVC
67	36.42'	6" PVC
68	31.26'	6" PVC
69	12.68'	8" PVC
70	32.88'	8" PVC
71	27.93'	8" PVC
72	40.95'	8" PVC
73	2.63'	8" PVC

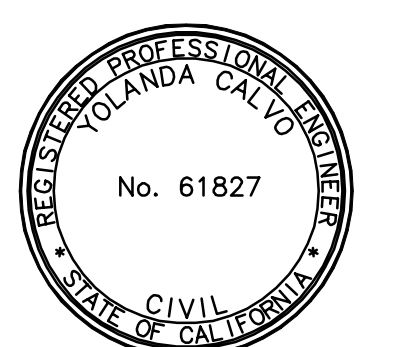
WATER DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 21°17'22" E		2.65'	2" COPPER
2	42°22'03"	200.00'	15.25'	2" COPPER
3	N 25°39'24" E		2.46'	2" COPPER
4	N 64°20'35" W		190.84'	2" COPPER
5	N 25°39'25" E		5.52'	2" COPPER
6	N 64°20'35" W		231.19'	6" PVC
7	N 25°39'25" E		41.14'	6" PVC

WATER DATA (FIRE)				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 64°20'35" W		233.19'	8" PVC
2	N 25°39'25" E		43.14'	8" PVC

SEWER DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 64°20'35" W		260.19'	8" PVC
2	N 25°39'25" E		77.49'	8" PVC
3	N 64°20'35" W		6.61'	8" PVC



SEE SHEET 4



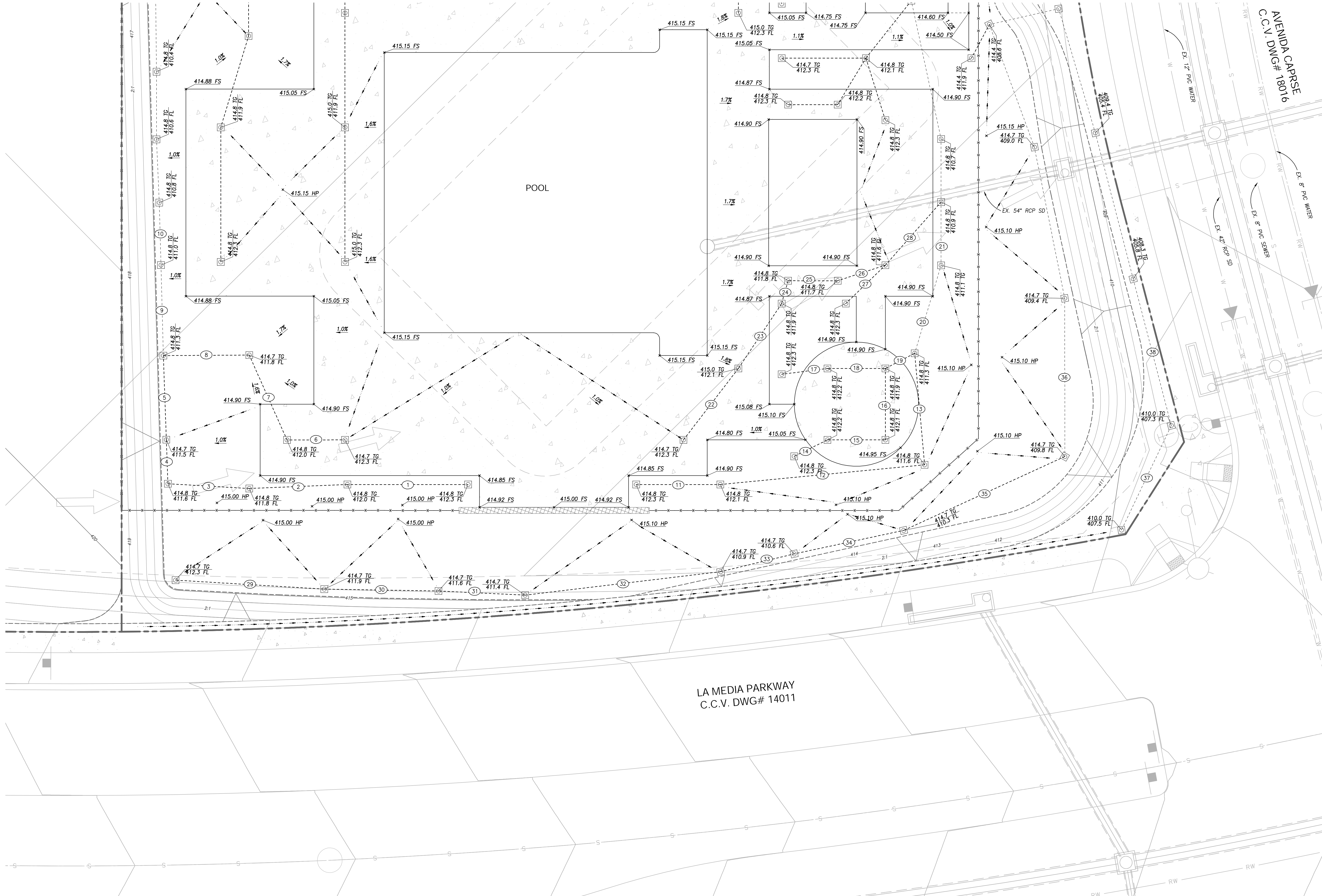
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FAX858558-1414

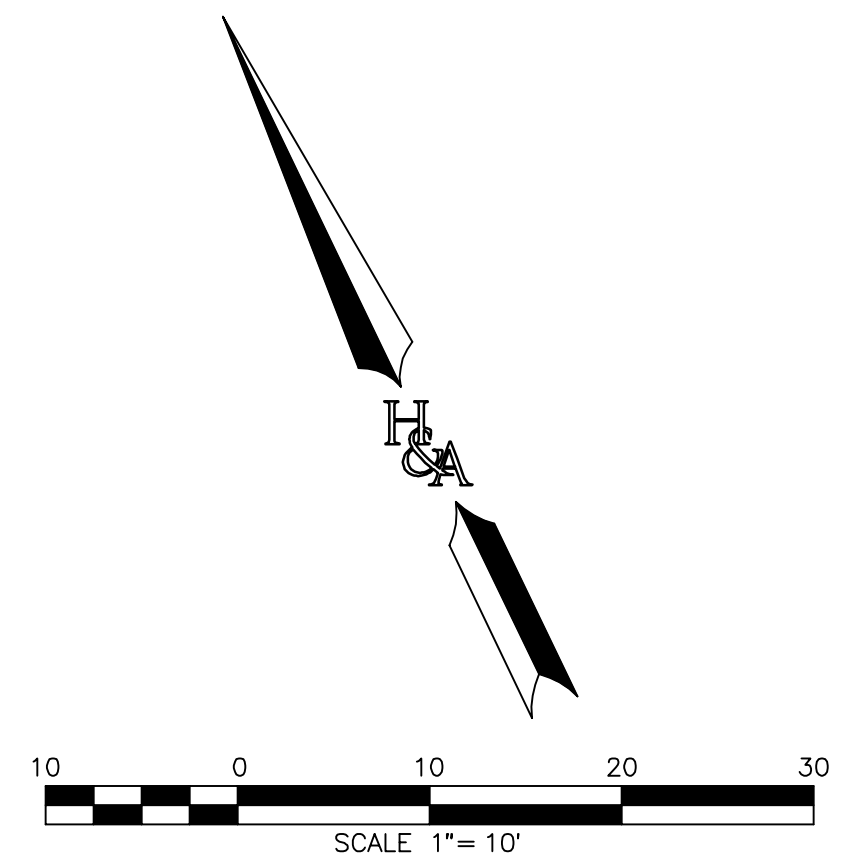
CONSTRUCTION RECORD		REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DIVISION	C03	
Contractor		C.V. DWG. 18016 (OTV8 MASS GRADING, PHASE 2)					DESCRIPTION: TOPOGRAPHY ONE (1) INET BY HUNSAKER TO BE WITHIN ALLOWABLE TOLERANCE BASED ON FIELD SURVEY USING BRASS BENCHMARK SCOTT ENGR. IN IRON PIPE 1.5 MILES EAST OF JCT. OF MAIN ST. & HERVAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF FOOTPRINT OF HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY (PT. # 1359 PER ROD 1481) (ELEV=628.319(NWD=88))	Horizontal 1"=10'	YOLANDA CALVO	R.C.E. No. 61827				By _____ City Engineer	PRECISE GRADING FOR:	COTA VERA SWIM CLUB OTAY RANCH VILLAGE 8 WEST (LOT 27)	ACT. NO. THRU _____
Inspector		C.V. DWG. 14011 (OTV8 MASS GRADING, PHASE 1)						Vertical 1"=10'									
Date Completed		C.V. DWG. 14012 (OTV8 IMP. PLANS, PHASE 1)															
		C.V. DWG. 19036 (OTV8 IMP. PLANS, PHASE 2)															

R:\1753\1\Eng\Precise Grading\175304\PG03.dwg(17-Jan-13-2023)6:55

SEE SHEET 3

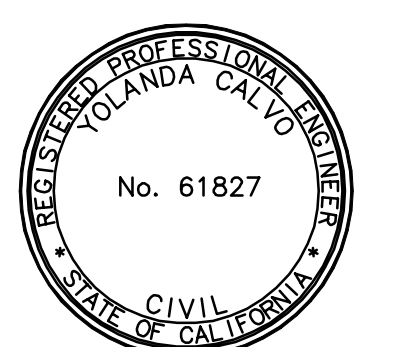


AREA DRAIN TABLE		
No.	LENGTH	MATERIAL
1	29.16	4" PVC
2	23.72	4" PVC
3	19.88	4" PVC
4	10.65	4" PVC
5	20.32	4" PVC
6	14.02	4" PVC
7	22.42	4" PVC
8	20.74	4" PVC
9	21.87	6" PVC
10	15.09	6" PVC
11	20.33	4" PVC
12	49.56	4" PVC
13	27.03	4" PVC
14	8.95	4" PVC
15	14.00	4" PVC
16	17.25	4" PVC
17	11.15	4" PVC
18	14.00	4" PVC
19	7.97	4" PVC
20	22.18	6" PVC
21	15.28	6" PVC
22	21.76	4" PVC
23	18.84	4" PVC
24	5.73	4" PVC
25	11.96	4" PVC
26	32.14	4" PVC
27	13.32	4" PVC
28	20.34	4" PVC
29	38.97	4" PVC
30	27.59	4" PVC
31	20.96	4" PVC
32	47.55	4" PVC
33	18.29	4" PVC
34	27.03	4" PVC
35	42.82	4" PVC
36	38.21	4" PVC
37	27.94	4" PVC
38	36.60	4" PVC



LA MEDIA PARKWAY
C.C.V. DWG# 14011

AVENIDA CARPSE
C.C.V. DWG# 18016



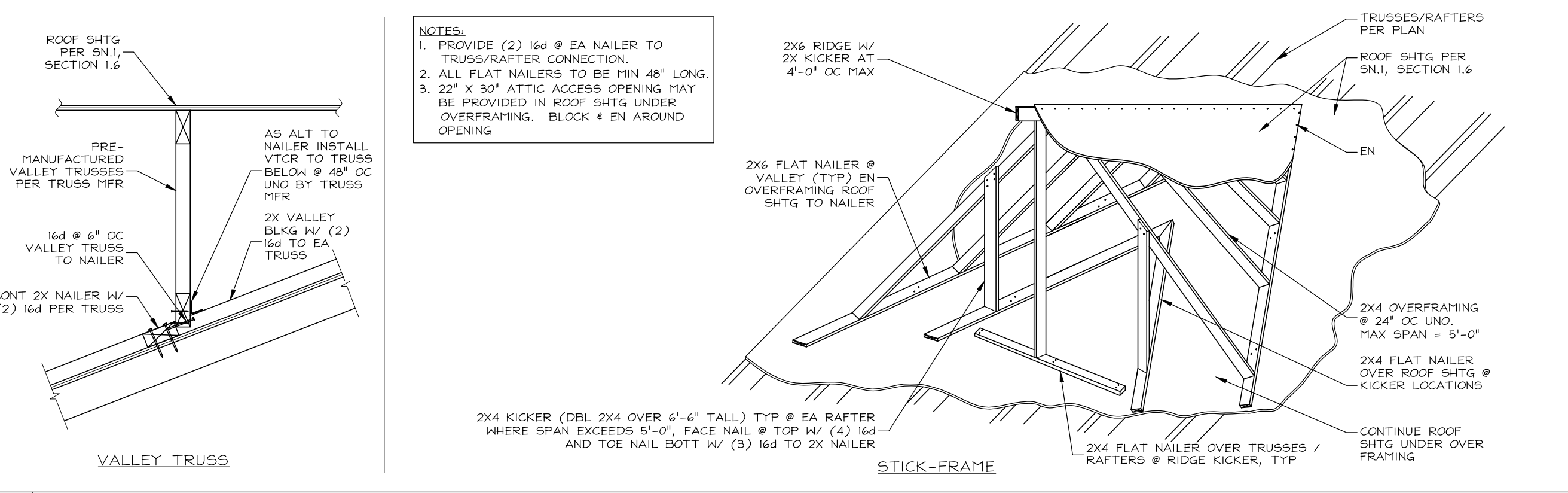
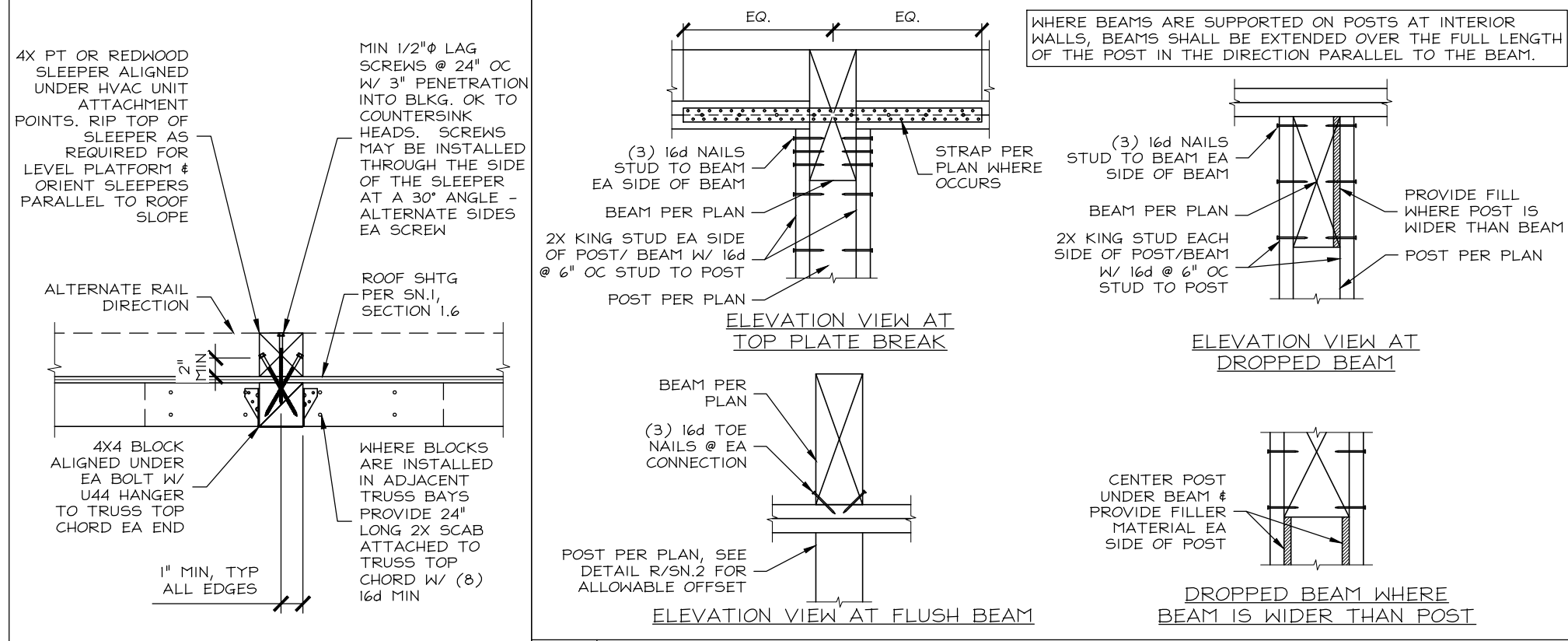
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 Waples Street
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FAX858558-1414

CONSTRUCTION RECORD		REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DIVISION	C04	
Contractor		C.V. DWG. 18016 (OTYB MASS GRADING, PHASE 2)					DESCRIPTION: TOPOGRAPHY CONE I, BENEY BY HUNSAKER TO BE WITHIN ALLOWABLE TOLERANCE BASED ON FIELD SURVEY USING BRASS BISK MARKED SCOTT ENGINEER IRON PIPE 1.5 MILES EAST OF JUNCTION OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONTORY OF HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY (UT 8 1350 PER ROD 14841) (ELV=628.319 (NWD 88))	Horizontal 1"=10' Vertical 1"=10'	YOLANDA CALVO	R.C.E. No. 61827					PRECISE GRADING FOR:	COTA VERA SWIM CLUB OTAY RANCH VILLAGE 8 WEST (LOT 27)	ACT. NO. THRU
Inspector		C.V. DWG. 14011 (OTYB MASS GRADING, PHASE 1)															
Date Completed		C.V. DWG. 14012 (OTYB IMP. PLANS, PHASE 1)															
		C.V. DWG. 19036 (OTYB IMP. PLANS, PHASE 2)															

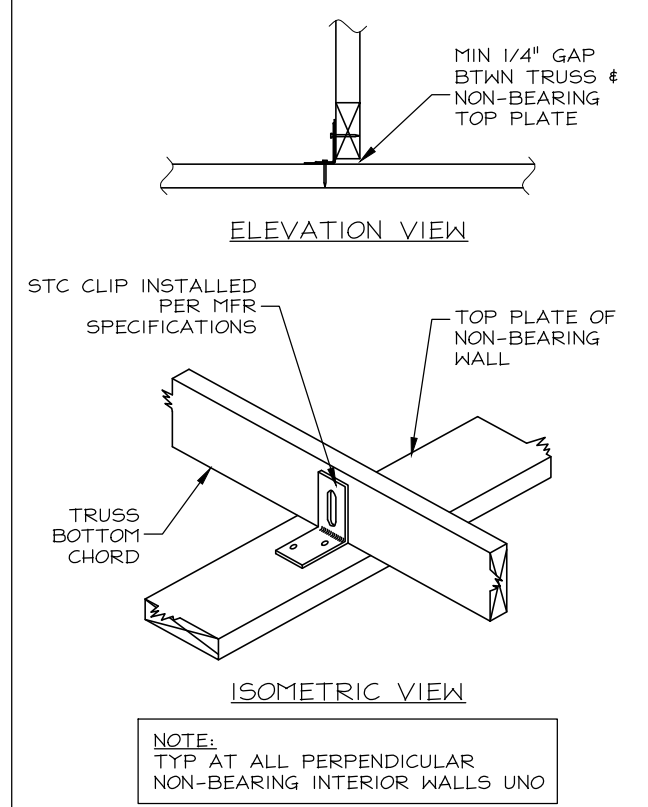
R:\1753\1\Eng\Precise Grading\1753\PG04.dwg(3-Jan-13-2023)6/56

OTAY RANCH VILLAGE 8 WEST, SWIM CLUB
PRECISE GRADING PLAN
W.C. NO. 23895-0052

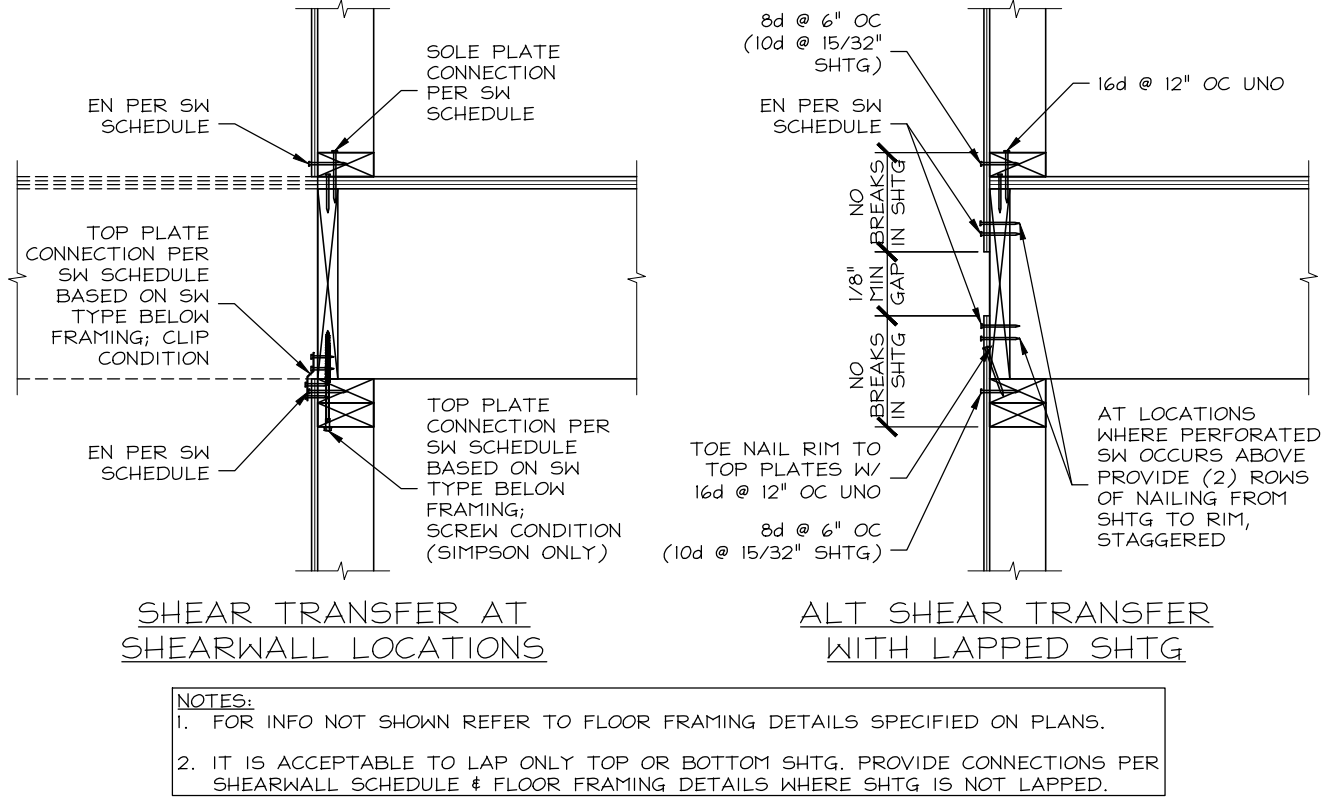
STANDARD DETAILS



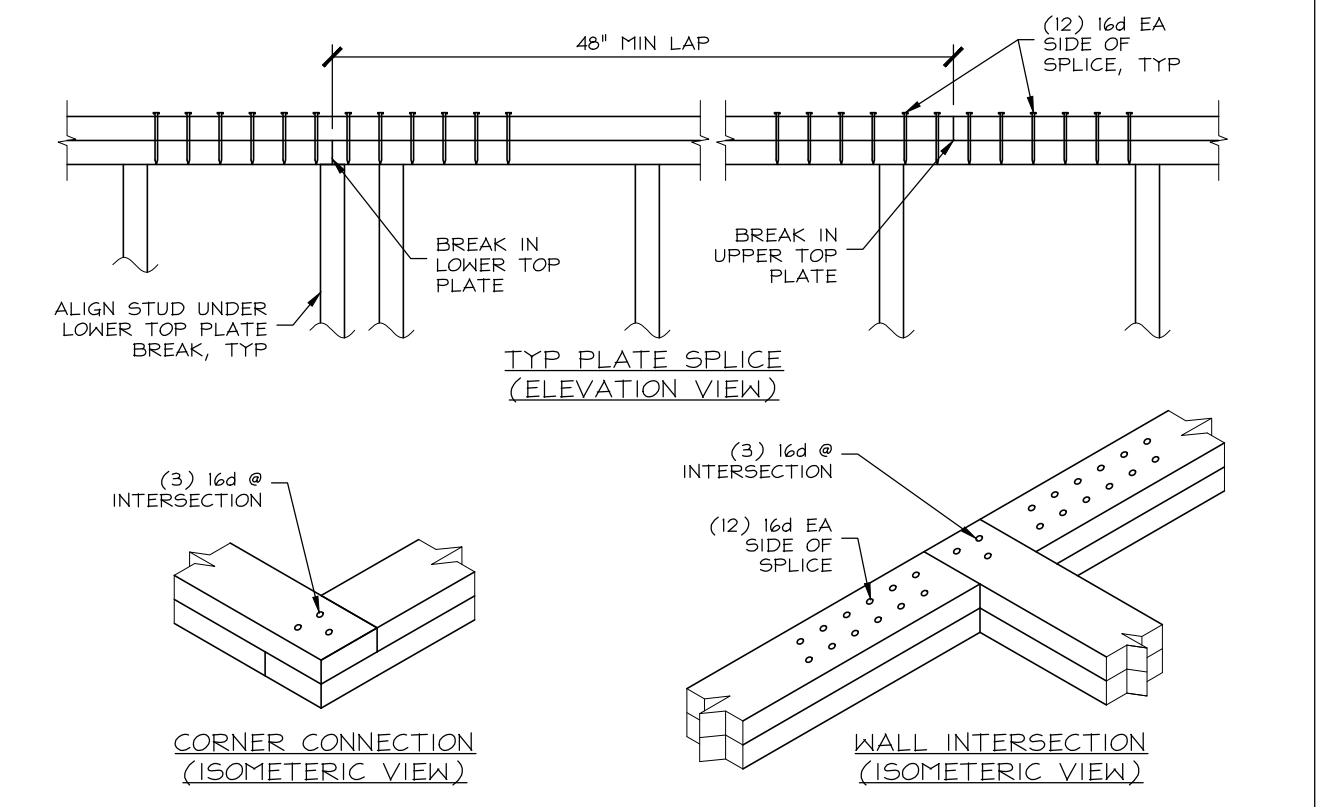
L MECH UNIT SUPPORT



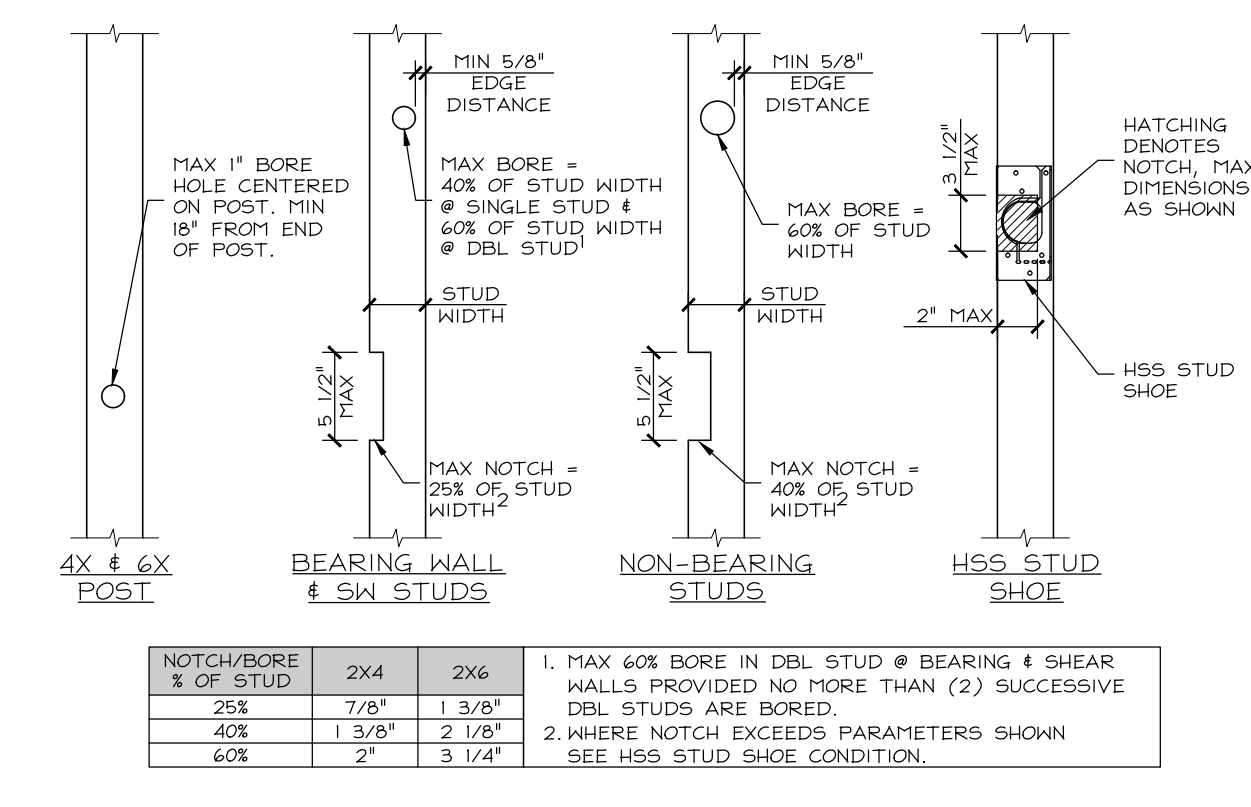
F BEAM FRAMING



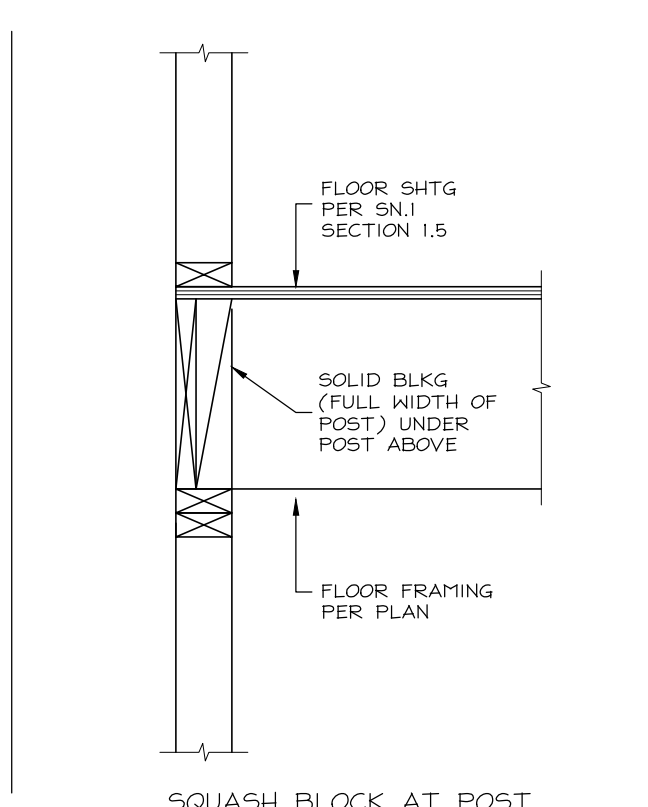
A OVERFRAMING



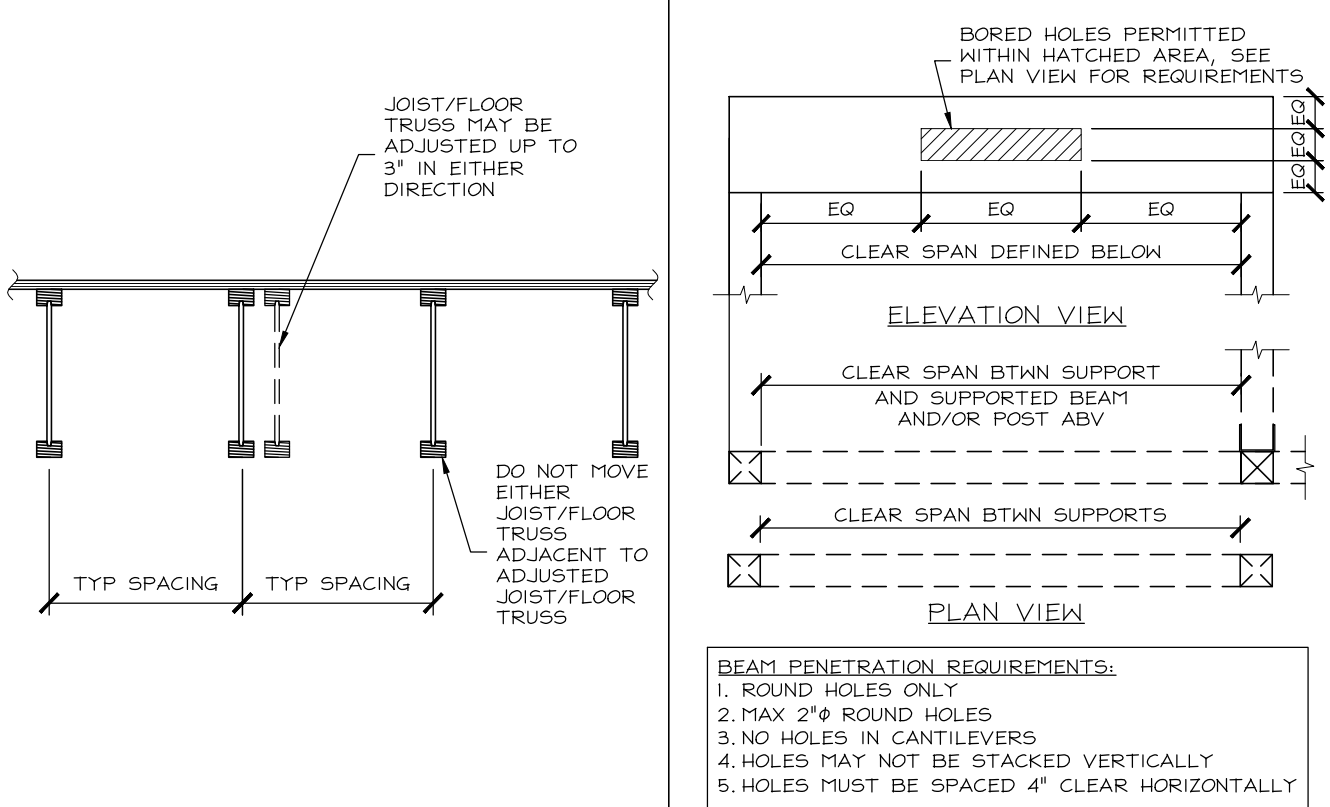
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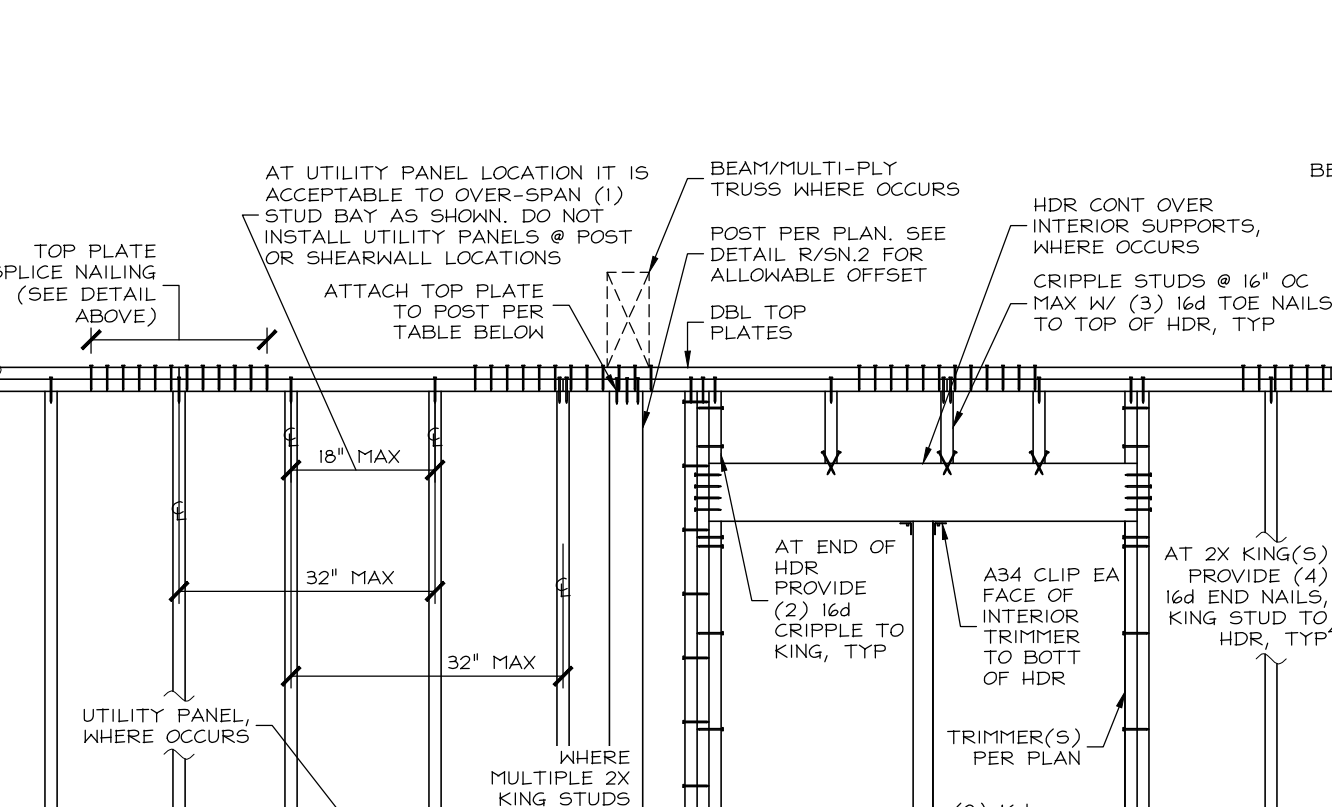
M TRUSS TO INTERIOR WALL



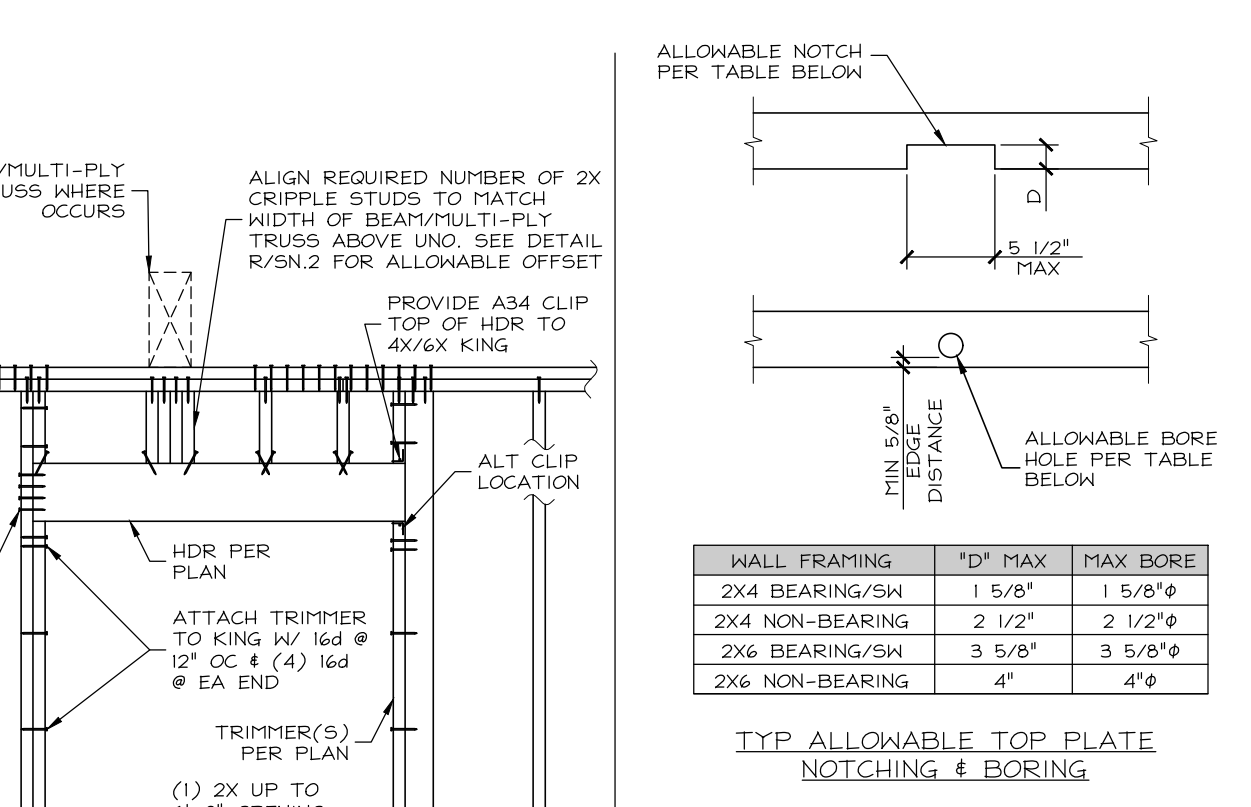
H SHEAR TRANSFER CONNECTIONS



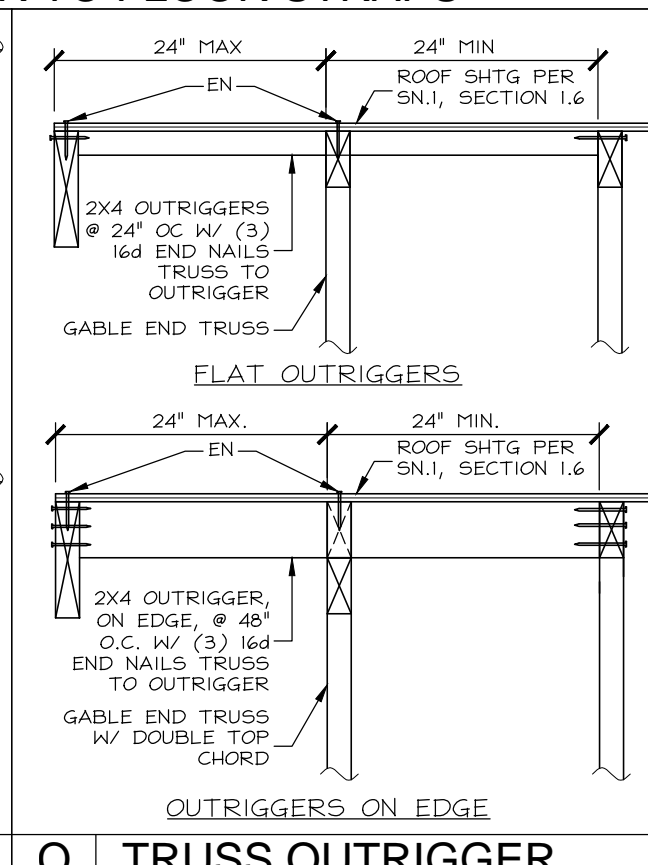
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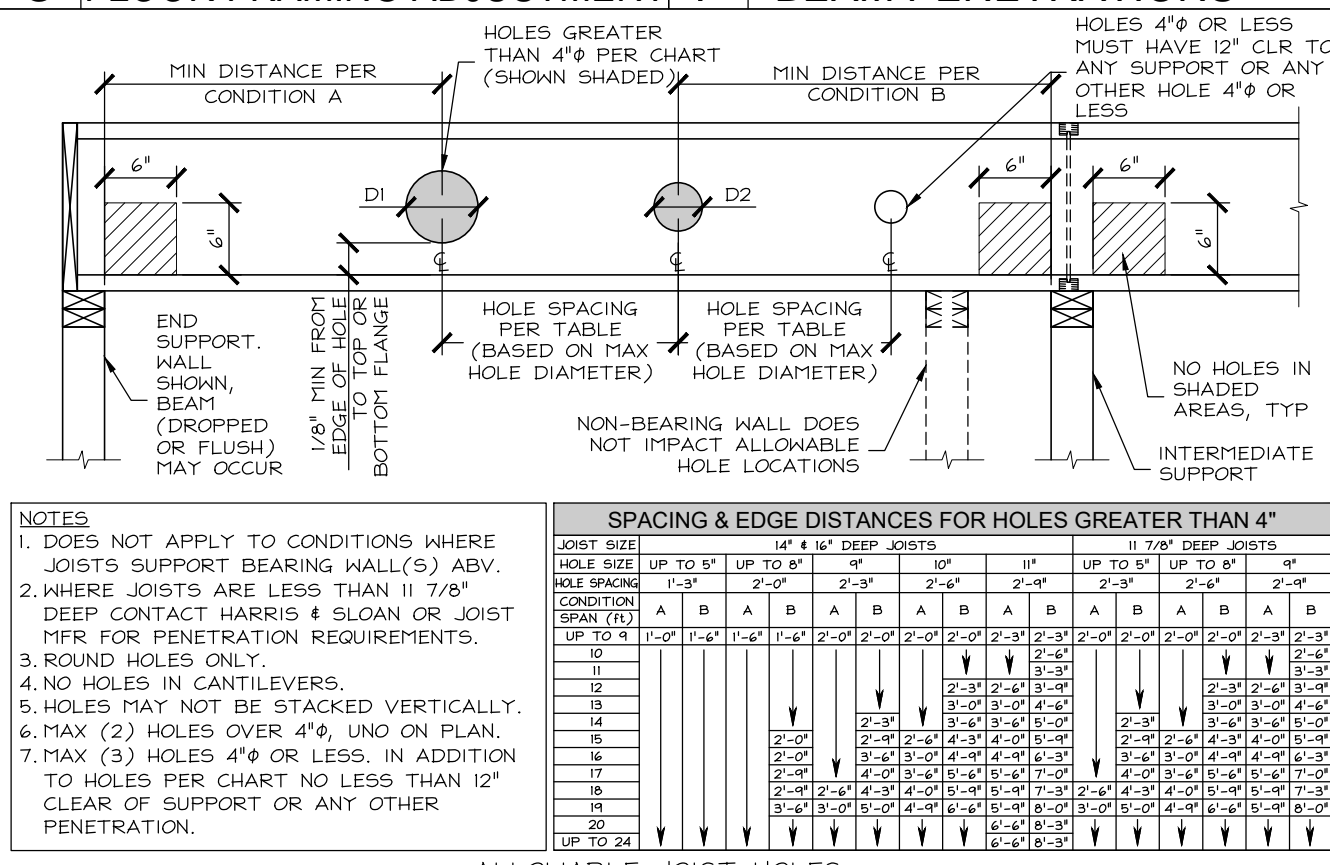
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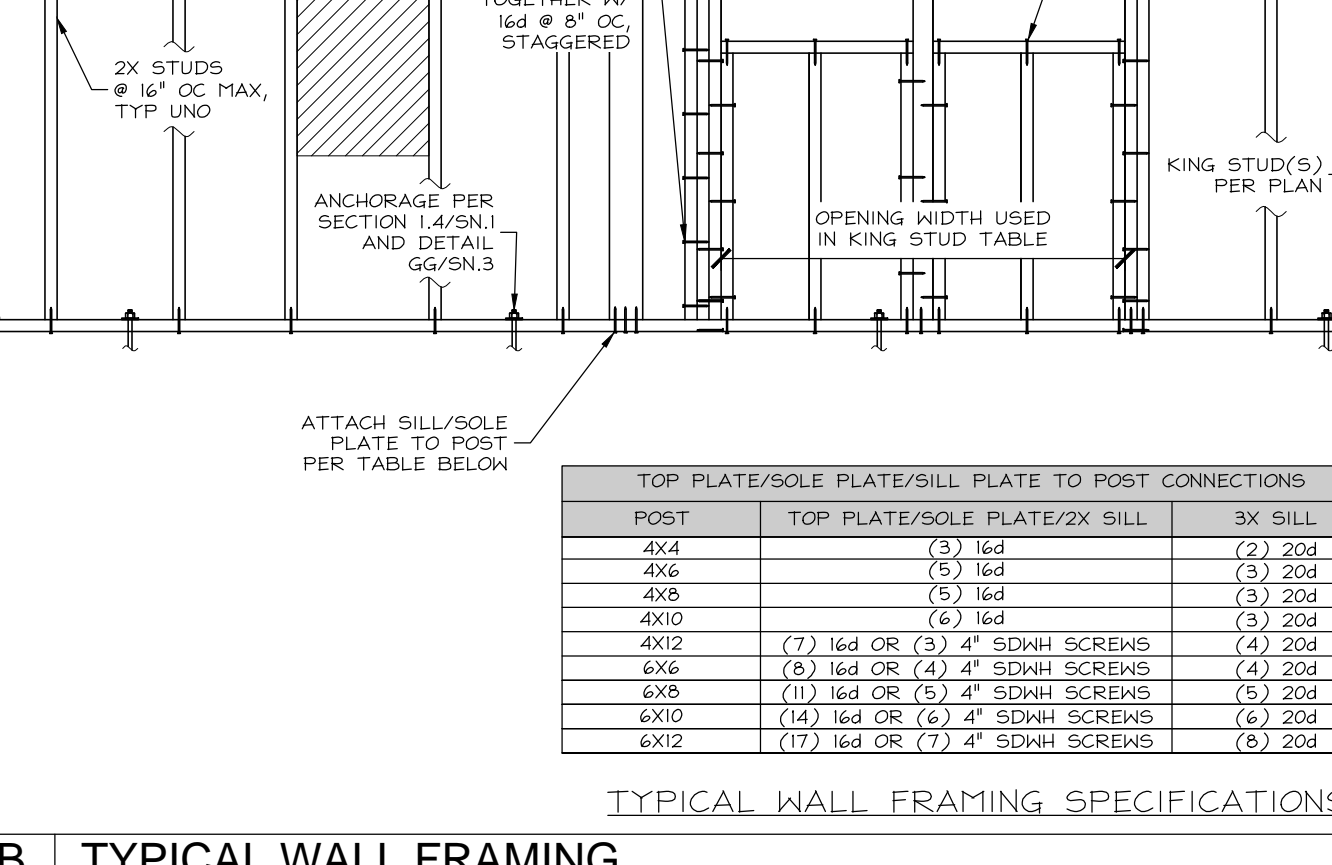
N SQUASH BLOCKS & FLOOR TO FLOOR STRAPS



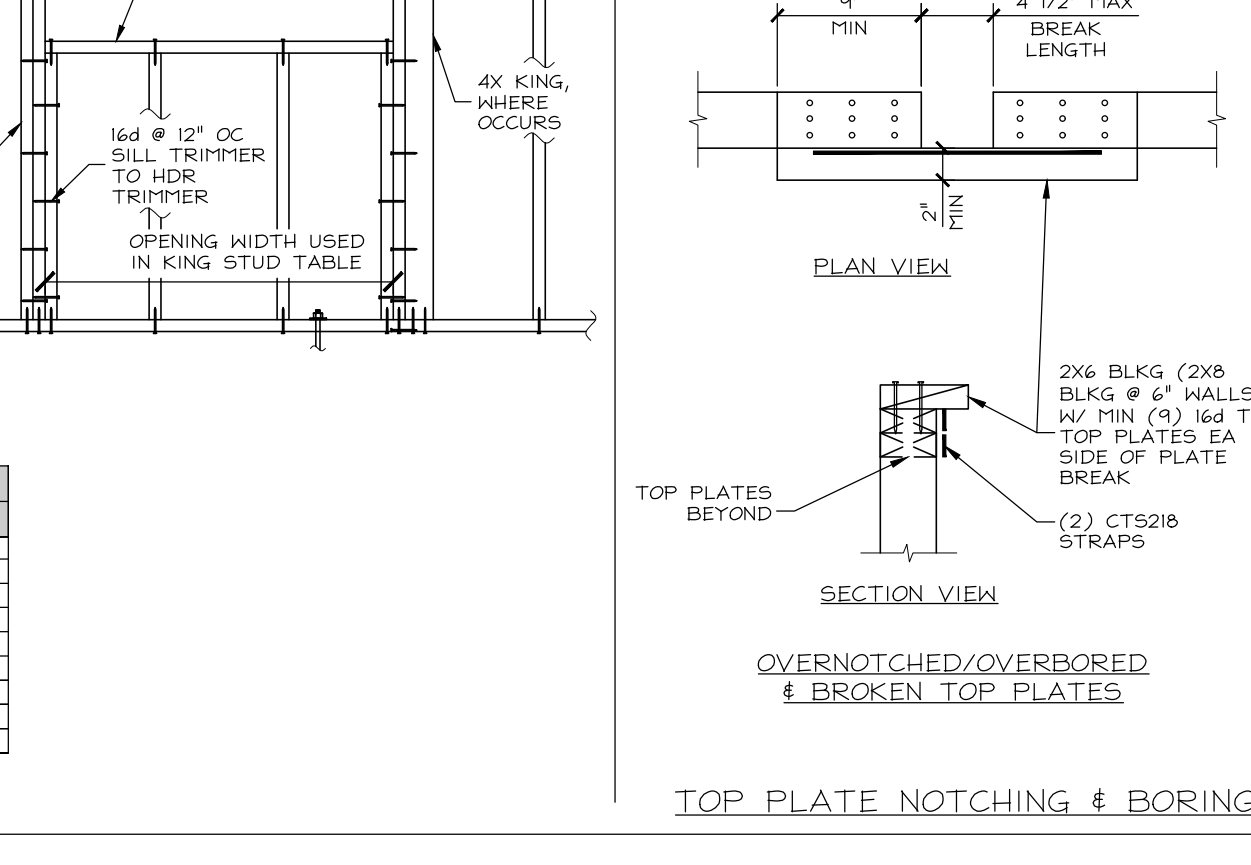
O FLOOR FRAMING ADJUSTMENT



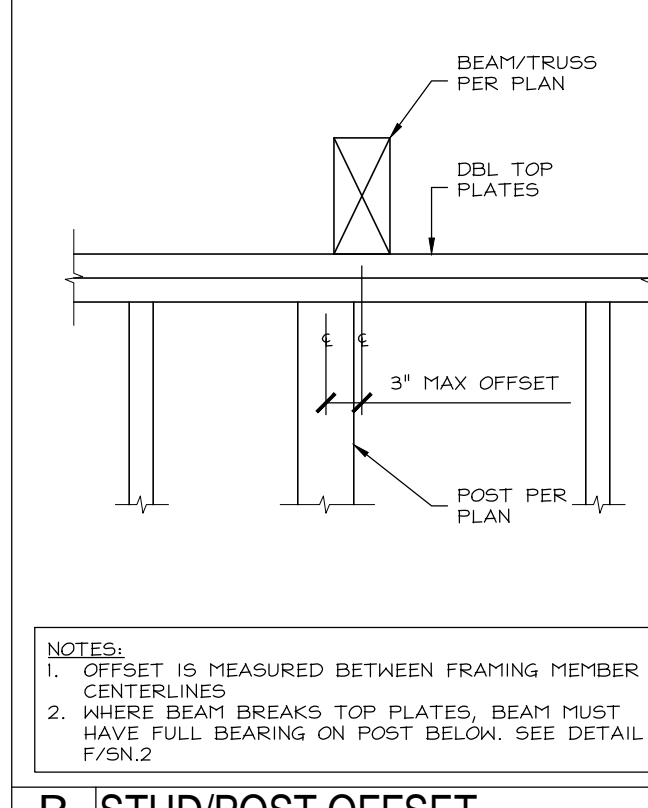
B TYPICAL WALL FRAMING



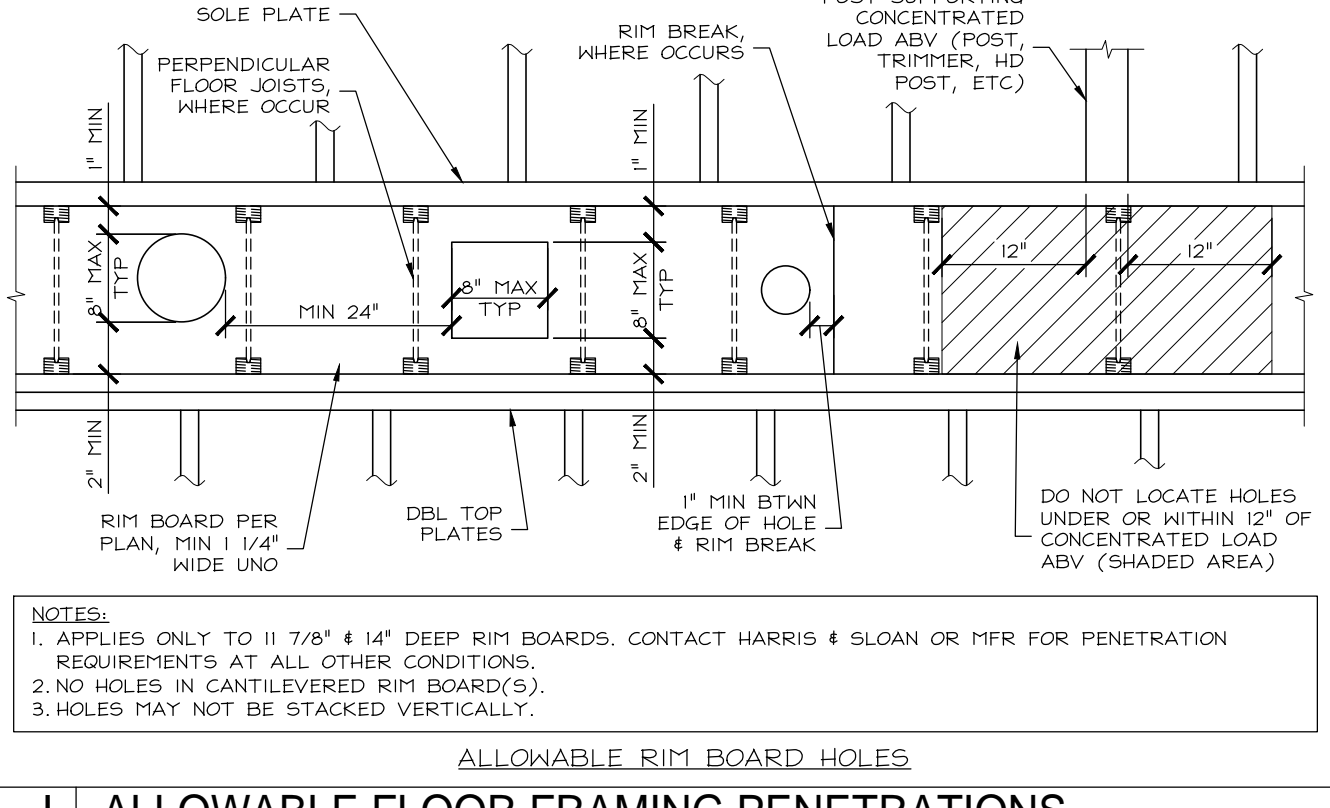
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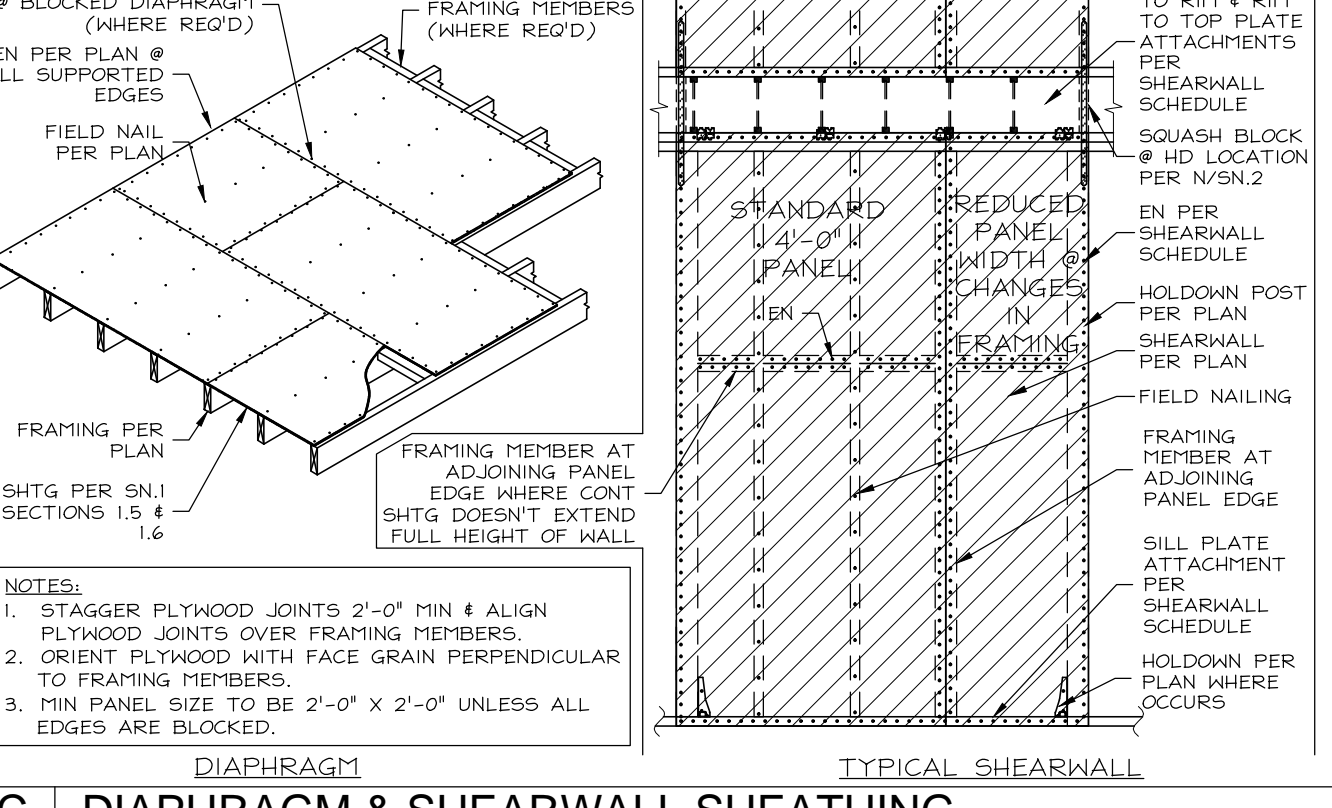
P ROOF TRUSS ADJUSTMENT



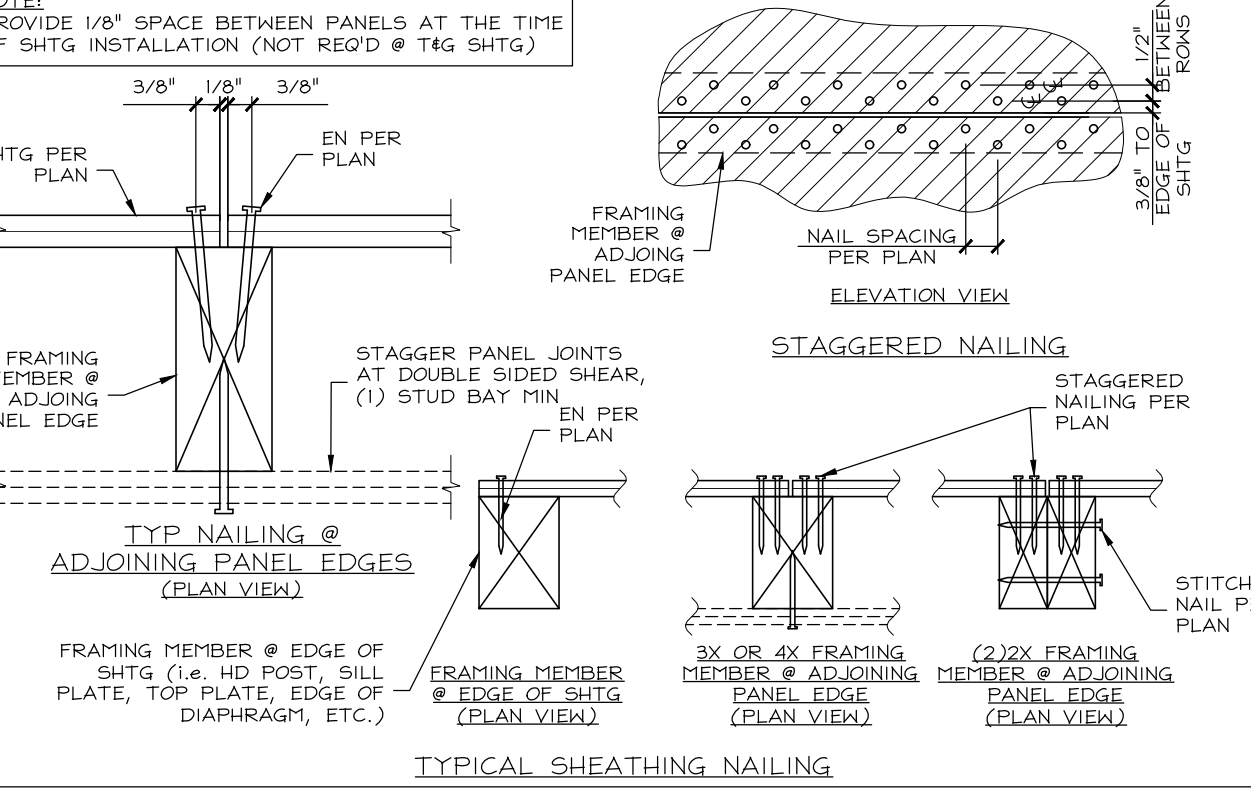
J ALLOWABLE FLOOR FRAMING PENETRATIONS



B TYPICAL WALL FRAMING



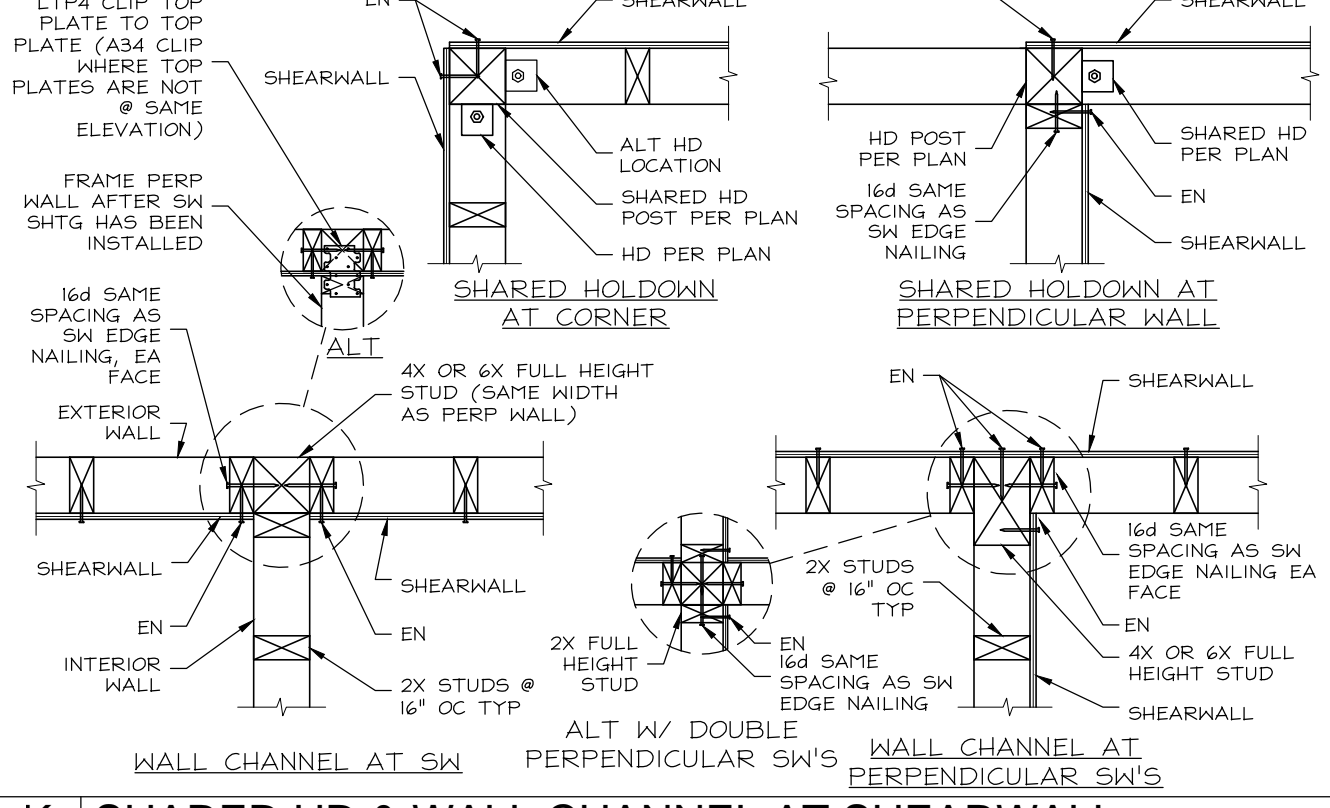
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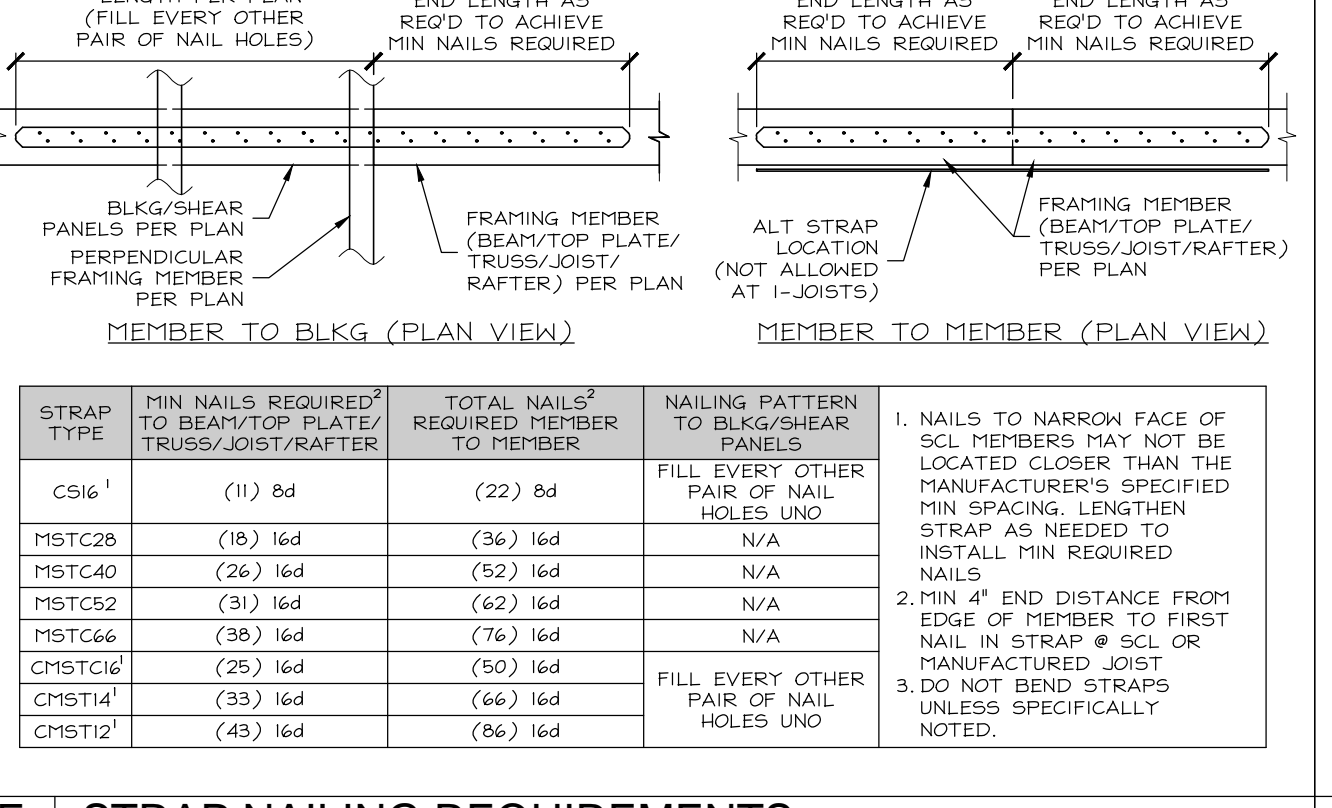
R STUD/POST OFFSET

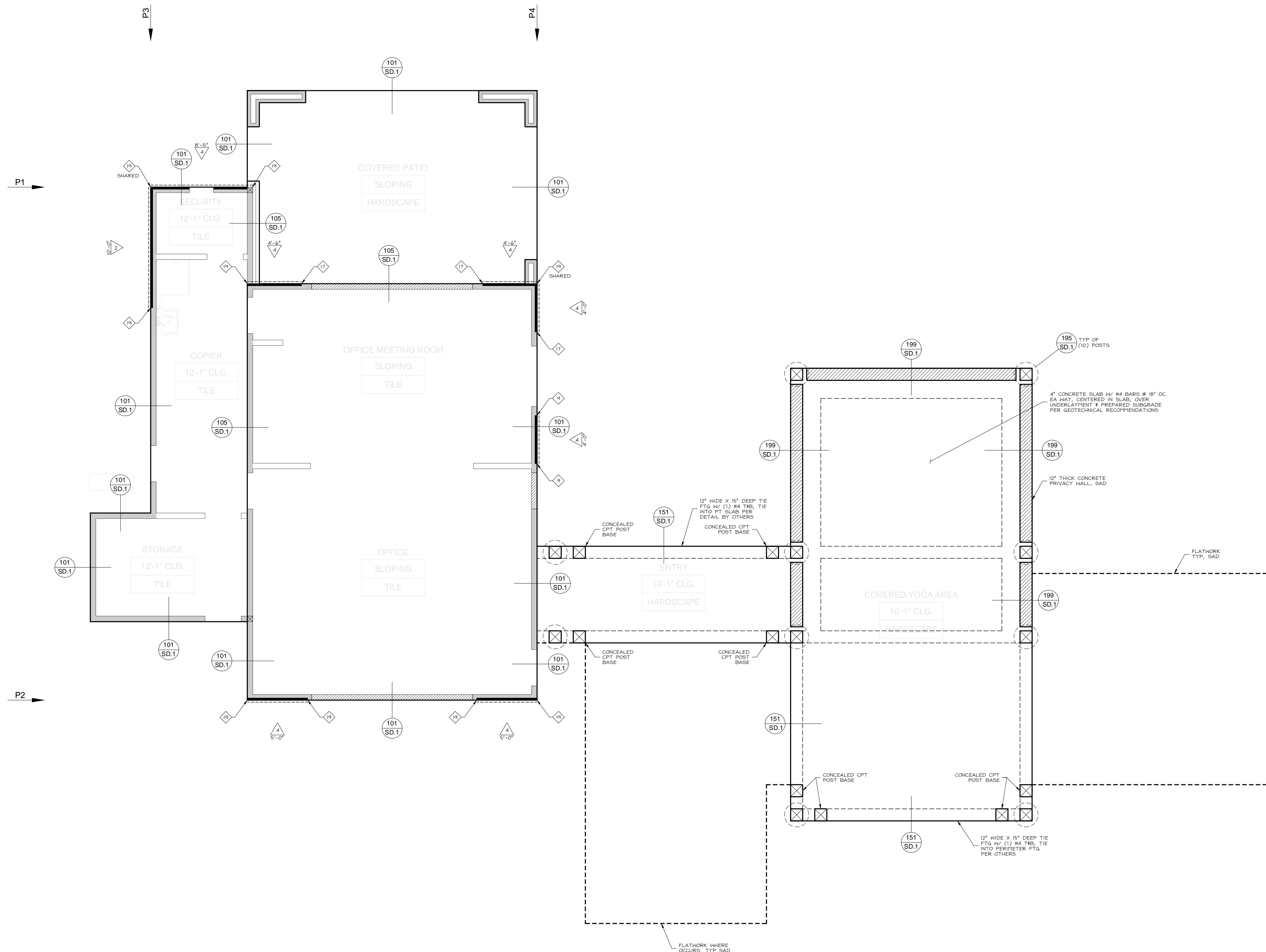


J ALLOWABLE FLOOR FRAMING PENETRATIONS



C DIAPHRAGM & SHEARWALL SHEATHING





GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE SH & SD SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- BEFORE BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

FOUNDATION NOTES

- REFER TO SECTION 1.4 ON SHEET S/N1 FOR GENERAL FOUNDATION SPECIFICATIONS.
- REFER TO CURB SPECIFICATIONS BY OTHERS ON FOUNDATION & ARCHITECTURAL PLANS. ALL CURBS SHALL MEET ALL NECESSARY ANCHORAGE REQUIREMENTS AND SHALL BE WIDENED TO EXTEND FULLY UNDER STRUCTURAL FRAMING.

GRAVITY LOADS

GRAVITY LOADS EXCEEDING 5K (D-1) ARE NOTED ON THE FOUNDATION PLAN. MINIMUM AND MAXIMUM EXTERIOR LINE LOADS ARE AS FOLLOWS:

MIN	D=200 PLF L=60 PLF
MAX	D=550 PLF L=360 PLF

ADDITIONALLY, VERTICAL LOADS FROM THE LATERAL SYSTEM ARE APPLIED AT HOLDOWN LOCATIONS. CORRESPONDING DESIGN LOADS ARE LISTED IN THE TABLE BELOW.

HOLDOWN SCHEDULE

TYPE	SIMPSON TYPE	MIN ² HD POST	HD TO POST CONNECTION	ANCHOR DIAMETER	DESIGN LOAD ³
17	HDU4	4X (10) SDS 1/4X2 1/2 SCREWS	5/8"	5.0K	
18	HDU6	4X (20) SDS 1/4X2 1/2 SCREWS	7/8"	6.0K	
19	HDU4	4X (6) SDS 1/4X2 1/2 SCREWS	1"	15.0K	

1. SEE DETAIL CC/SN3 FOR TYPICAL HOLDOWN INSTALLATION.
 2. HOLDOWN POSTS TO MATCH WALL DEPTH, WHERE 4X4 & 6X6 OPTION IS GIVEN, INSTALL 4X4 IN 4'-4" WALL, 6X6 IN 4'-6"
 3. UPLIFT CAN BE APPLIED IN UPWARD OR DOWNWARD DIRECTION.

SHEARWALL SCHEDULE

TYPE	SILL ² PLATE	ANCHOR BOLTS	TRADA ANCHORS
2	2X	1/2" x 10" @ 34" OC	34" OC
3	2X	1/2" x 10" @ 14" OC	14" OC

1. SEE DETAIL CC/SN2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN2 FOR ALLOWABLE SHEARWALL PENETRATIONS.
 2. 3X SILL TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING. AT 3X SILL PLATES ANCHOR BOLTS ARE 12" LONG AND TRADA ANCHORS ARE INSTALLED WITH (9) 10# NAILS.
 3. EITHER ANCHOR TYPE MAY BE USED. MIN (2) ANCHORS PER SHEARWALL. SEE DETAIL GG/SN3 FOR INSTALLATION REQUIREMENT. SEE S/N1, SECTION 21 FOR MISSED ANCHOR RETROFIT SPECIFICATIONS.
 4. SEE S/N1 SECTION 1.4 FOR ANCHOR PLATE WASHER SPECIFICATIONS.

SYMBOLS LEGEND

- LENGTH NUMBER
- DENOTES SHEARWALL TYPE 4 MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET.
- WHERE OCCURS, MIN - NO HOLDOWNS REQUIRED
- WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE
- DENOTES HOLDOWN # POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET.
- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- DENOTES INTERIOR BEARING WALL.
- DENOTES 3X PRESURE TREATED SLEEPER EMBEDDED INTO CONCRETE. PROVIDE (2) 20# AT EACH END AND AT 24" OC, TYP AT DOORS WITH THRESHOLD.
- DENOTES PLUMBING FIXTURE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).

FOR JURISDICTION USE:

PROJECT: COTA VERA SWIM CLUB
 CHULA VISTA, CA

DESIGNER: LK
 DRAWN BY: CES
 CHECKED BY: PJ
 ISSUE DATE: 01-13-2023

REVISIONS:

STAMP: [Professional Engineer Seal]

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

SHEET NUMBER: SEGMENT 1

LEVEL 0 PLAN (FOUNDATION)

JOB NUMBER: HS22244

harris & sloan

Sacramento Structural Mechanical Electrical Plumbing Energy

Aliso Viejo
 San Ramon

www.harrisandsloan.com
 toll free 800.877.1430

GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE SH # SD SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- BEFORE BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

FOUNDATION NOTES

- REFER TO SECTION 1.4 ON SHEET S01 FOR GENERAL FOUNDATION SPECIFICATIONS.
- REFER TO CURB SPECIFICATIONS BY OTHERS ON FOUNDATION & ARCHITECTURAL PLANS. ALL CURBS SHALL MEET ALL NECESSARY ANCHORAGE REQUIREMENTS AND SHALL BE WIDENED TO EXTEND FULLY UNDER STRUCTURAL FRAMING.

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Electrical
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Energy

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toll free 800.877.1430
www.harrisandsloan.com

COTA VERA SWIM CLUB
CHULA VISTA, CA

HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: P.J.
DESIGNER: L.K.
DRAWN BY: CES
CHECKED BY: P.J.
ISSUE DATE: 01-13-2023



PROJECT: COTA VERA SWIM CLUB
CLIENT: HOMEFED CORPORATION

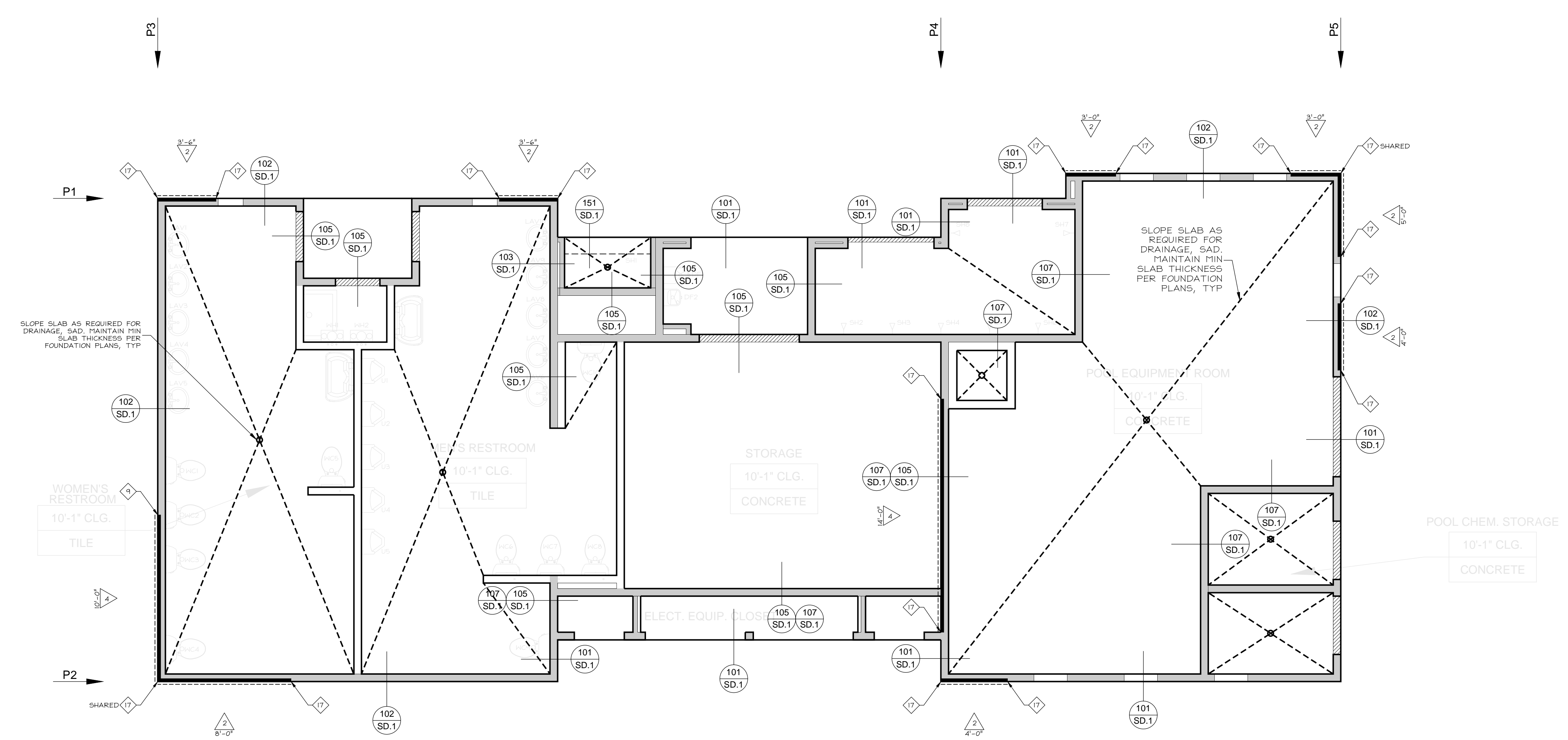
SEGMENT 2

LEVEL 0 PLAN (FOUNDATION)

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

SHEET NUMBER: S1.1A

JOB NUMBER: HS22244



GRAVITY LOADS

GRAVITY LOADS EXCEEDING 5K (D-1) ARE NOTED ON THE FOUNDATION PLAN. MINIMUM AND MAXIMUM EXTERIOR LINE LOADS ARE AS FOLLOWS:

MIN	D=200 PLF L=60 PLF
MAX	D=550 PLF L=360 PLF

ADDITIONALLY, VERTICAL LOADS FROM THE LATERAL SYSTEM ARE APPLIED AT HOLDOWN LOCATIONS. CORRESPONDING DESIGN LOADS ARE LISTED IN THE TABLE BELOW.

HOLDOWN SCHEDULE

TYPE	SHEARWALL TYPE	MIN ² HD POST	HD TO POST CONNECTION	ANCHOR DIAMETER	DESIGN LOAD ³
7	HD4	4x	(10) 5DS 1/4x2 1/2 SCREWS	5/8"	5.0K
9	HD6	4x	(20) 5DS 1/4x2 1/2 SCREWS	7/8"	6.0K
10	HD4	4x	(5) 5DS 1/4x2 1/2 SCREWS	1"	15.0K

1. SEE DETAIL CC/SN3 FOR TYPICAL HOLDOWN INSTALLATION.
2. HOLDOWN POSTS TO MATCH WALL DEPTH, WHERE 4x4 & 6x6 OPTION IS GIVEN, INSTALL 4x4 IN 4'-0" WALL, 6x6 IN 4'-6".
3. UPLIFT CAN BE APPLIED IN UPWARD OR DOWNWARD DIRECTION.

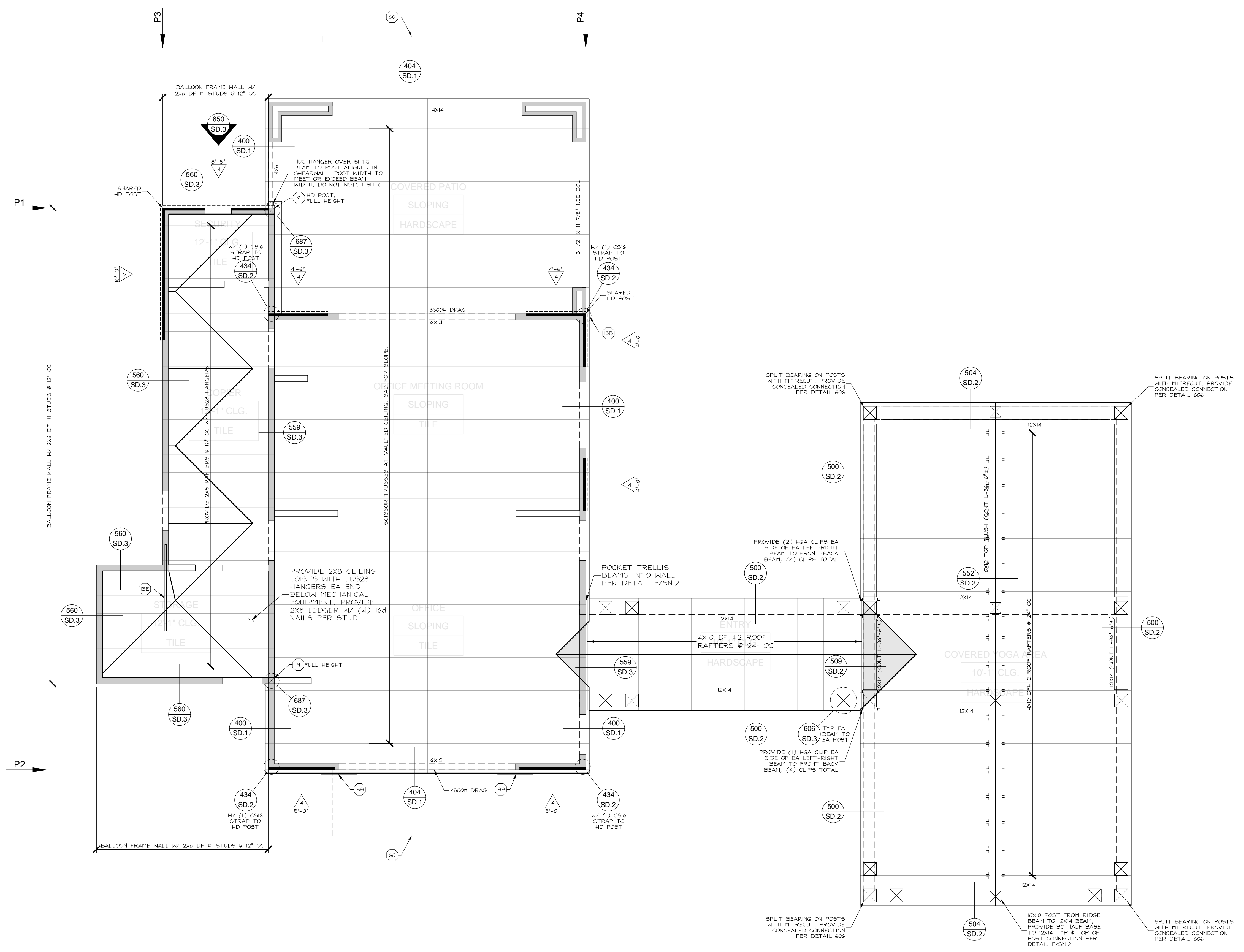
SHEARWALL SCHEDULE

TYPE	SILL PLATE	ANCHOR BOLTS	TRADA ANCHORS
2	2X	1/2" x 10" @ 34" OC	34" OC
3	2X	1/2" x 10" @ 14" OC	14" OC

1. SEE DETAIL CC/SN2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/SN.2 FOR ALLOWABLE SHEARWALL PENETRATIONS.
2. 3X SILL TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING. AT 3X SILL PLATES ANCHOR BOLTS ARE 12" LONG AND TRADA ANCHORS ARE INSTALLED WITH (9) 9X NAILS.
3. EITHER ANCHOR TYPE MAY BE USED. MIN (2) ANCHORS PER SHEARWALL. SEE DETAIL GG/SN.9 FOR INSTALLATION REQUIREMENT. SEE SN.1, SECTION 2.1 FOR MISSED ANCHOR RETROFIT SPECIFICATIONS.
4. SEE SN.1 SECTION 1.4 FOR ANCHOR PLATE WASHER SPECIFICATIONS.

SYMBOLS LEGEND

- LENGTH DENOTES SHEARWALL TYPE 4 MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET.
- WHERE OCCURS, MIN - NO HOLDOWNS REQUIRED
- WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE
- DENOTES HOLDOWN # POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET.
- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- DENOTES INTERIOR BEARING WALL.
- DENOTES 3X PRESURE TREATED SLEEPER EMBEDDED INTO CONCRETE. PROVIDE (2) 20# AT EACH END AND AT 24" OC, TYP. AT DOORS WITH THRESHOLD.
- DENOTES PLUMBING FIXTURE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).



GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE 24" X 36" SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- BEFORE BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/WORK PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

WALL FRAMING NOTES

- UNO FRAME ALL WALLS CONTINUOUS FROM FLOOR/FOUNDATION TO UNDERSIDE OF FLOOR/ROOF FRAMING PER BEARING WALL STUD SCHEDULE & DETAIL B/S/N.2.
- COVER ALL EXTERIOR WALLS WITH SHTG PER S/N.1, SECTION 6.2 UNO AT SHEARWALL LOCATIONS OR AS NOTED ON PLANS.

LEVEL 1 BEARING WALL STUD SCHEDULE

PLATE LOCATION	SIZE & SPEC
INTERIOR	2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC
EXTERIOR	2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC
INTERIOR	2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC
EXTERIOR	(2) 2X4 #2 DF @ 16" OC OR 2X6 STUD @ 16" OC

- UNLESS NOTED OTHERWISE
- ALL 2X STUDS TO BE SAME DEPTH AS WALL.

LEVEL 1 KING STUD SCHEDULE

PLATE LOCATION	OPENING SIZE	KING STUDS
10'-1 1/2" PLATE (1" OR 2" SCHED)	3'-0" MAX	(1) 2X4 OR (1) 2X6
	4'-0" MAX	(1) 2X4 OR (2) 2X4 OR (2) 2X6
	6'-0" MAX	(2) 2X4 OR (3) 2X4 OR (1) 4X4 OR (1) 2X6
	8'-0" MAX	(3) 2X4 OR (4) 2X4 OR (1) 4X4 OR (1) 2X6
	10'-0" MAX	(3) 2X4 OR (1) 4X4 OR (4) 2X4 OR (1) 2X6
12" PLATE (2" SCHED)	8'-0" MAX	(1) 2X6
	10'-0" MAX	(2) 2X6

- FOR BACK TO BACK OPENINGS HV A FULL HEIGHT CENTER KING, SIZE CENTER KING FOR SUM OF OPENING WIDTHS (EXAMPLE: (2) 3'-0" OPENINGS = KING FOR A 6'-0" OPENING).
- 1-COAT/SIDING WALLS ARE DESIGNED HV A DEFLECTION LIMIT OF L/360. 3-COAT WALLS ARE DESIGNED HV A DEFLECTION LIMIT OF L/720. OWNER/CONTRACTOR TO VERIFY MATERIAL DEFLECTION REQUIREMENTS FOR ALL OTHER FINISHES.
- PROVIDE THE FOLLOWING AT NON-STANDARD CONDITIONS FIN, UNO GARAGE DOOR & WINDOW HEADERS: (1) 2X KING STUDS, INTERIOR & GARAGEHOUSE WALLS; (2) 2X KING AT OPENINGS UP TO 10' HIGH & (2) 2X KING AT OPENINGS UP TO 16' HIGH.
- SEE SECTION 6.3 ON SHEET S/N.1 FOR ADDITIONAL FRAMING CONNECTION REQUIREMENTS.

LEVEL 1 BEARING WALL HEADER SCHEDULE

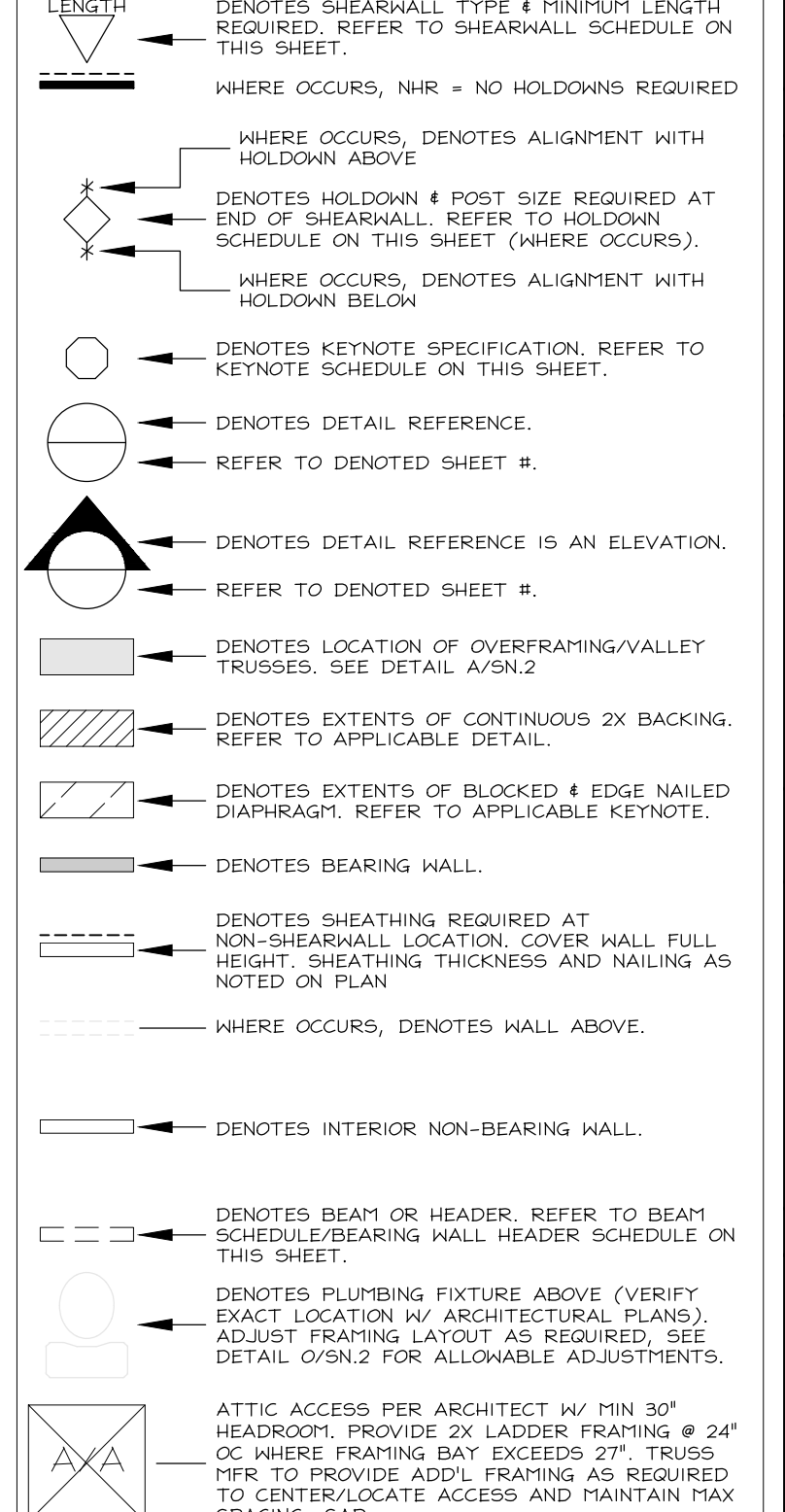
OPENING	SIZE & SPEC
3'-0" MAX	(2) 2X6 OR 4X6 OR 6X6
4'-0" MAX	(2) 2X6 OR 4X6 OR 6X6
6'-0" MAX	(2) 2X6 OR 4X6 OR 6X6
8'-0" MAX	(2) 2X6 OR 4X6 OR 6X6

- UNO: SEE S/N.1, SECTION 6.1 FOR TRUSS DESIGN STRENGTHS.
- 4X HEADER MAY BE USED IN 2X6 WALL. INSTALL FLUSH WITH EXTERIOR FACE OF WALL UNO.
- INSTALL (1) 2X TRIMMER (MIN WIDTH AS HEADER) AT EA END OF HEADER UNO.
- SUPPORTS GABLE END TRUSS ONLY; DOES NOT APPLY WHERE FLOOR OCCURS ABOVE.
- SEE DETAIL T/S/N.2 FOR INSULATED HEADER FRAMING, WHERE REQUIRED.

ROOF FRAMING NOTES

- REFER TO SECTION 1.6 ON SHEET S/N.1 FOR GENERAL ROOF FRAMING SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS SECTION ARE TYPICAL FOR THE CONDITION LISTED, REFER TO PLANS FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN SPECIFIC LOCATIONS.
 - SEE DETAIL P/S/N.2 FOR ALLOWABLE SPACING ADJUSTMENTS.
- TYPICAL ROOF FRAMING**
- PRE-FABRICATED ROOF TRUSSES BY TRUSS MANUFACTURER @ 24" OC, TYP. SEE S/N.1, SECTION 6.7 FOR GENERAL MATERIAL, & SHOP DRAWING REQUIREMENTS. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE PROVIDED BY THE TRUSS MANUFACTURER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS FOLLOWS:
- SINGLE-PLY NON-GIRDER (MAX 8' SPAN) LUS24*
 - GREATER THAN 8' SPAN) HUS24*
 - SINGLE-PLY GIRDER HUS24*
 - TWO-PLY GIRDER HUS28B-2
 - THREE-PLY GIRDER HUS28B-3
- * OR PRESSURE BLOCKING (4) 16d BLOCK TO CARRIER TRUSSES, (2) 16d TOE NAILS BC TO CARRIER, (2) 16d END NAILS BC TO BLOCK.

SYMBOLS LEGEND



KEYNOTES

- (8) 6X6 POST
- (9) C26 STRAP TOP PLATE/BEAM TO TRUSS/DRAW MEMBER. SEE DETAIL 433/432.2 FOR ACCEPTABLE CONNECTIONS. (SEE DETAIL 428 AT ALIGNED TRUSS CONDITIONS).
- (10) C26 STRAP TOP PLATE TO TOP PLATE WHERE TOP PLATES ARE NOT CONT. LAPPED PER DETAIL B/S/N.2. SEE DETAIL 436/50.3 WHERE TOP FLUSH BEAM OCCURS.
- (11) C26 STRAP TOP PLATE/BEAM TO 2X FULL DEPTH BLKG OR BLKG PANELS BETWEEN TRUSSES. EXTEND STRAP FULL LENGTH OF BLKG PANELS. SEE DETAIL 427/50.2.
- (12) C26 STRAPS TRUSS TO TOP PLATE/BEAM. SEE DETAIL 428/50.2.
- (13) (1) C26 STRAP TO HD POST
- (14) (2) 16d CLIPS RIV/BEAM TO RIV/BEAM
- (15) 2X HALL/RAKEDWALL TO BE BUILT ON TOP OF ROOF SHTG. PROVIDE 2X BLKG BETWEEN TRUSSES OR ALIGN TRUSS/DEL Rafter DIRECTLY BELOW RAKEDWALL. COVER WALLS HV SHTG PER S/N.1, SECTION 6.2. TRUSS PFR TO ACCOUNT FOR ADDITIONAL LOADS. SEE DETAIL 429/50.2. AS ALT. HIGH HEEL VALLEY TRUSSES MAY BE USED IN LIEU OF RAKEDWALL (SEE DETAIL 493).
- (16) MANUFACTURED BLKG PANELS BETWEEN TRUSSES. TRUSS BOTTOM CHORDS TO ROOF SHTG. TRUSS PFR TO ALIGN TRUSS VERTICAL @ PANEL LOCATIONS. DESIGN EA PANEL TO TRANSFER 350 PLF. INSTALL ADDITIONAL STRAP FROM TOP OF TOP PLATE/BEAM TO BOTTOM OF BLKG PANELS. SEE DETAIL 419/50.2.
- (17) 3 1/2" WIDE 1.5E SCL BEAM, SAME DEPTH AS FLOOR.
- (18) 3 1/4" WIDE 2.0E SCL BEAM, SAME DEPTH AS FLOOR.
- (19) PRE-FABRICATED RHING/COVER. SAD. SEE DETAIL 420/50.3 FOR STRUCTURAL SUPPORT REQUIREMENTS.

SHEARWALL SCHEDULE

TYPE	APA RATED SHEATHING	FRAMING MEMBER AT PANEL EDGE	SOLE PLATE CONNECTION TO BLOCKING	TO RIV/BEAM	TOP PLATE CONNECTION TO RIV/BEAM	LTR CLIPS
1	3/8" ONE FACE HV 16 @ 24" OC FIELD	2X	16d @ 4" OC	16d @ 4" OC	12" OC OR 4" SCL @ 16" OC	LTR CLIPS @ 12" OC OR 4" SCL @ 16" OC
2	3/8" ONE FACE HV 16 @ 24" OC FIELD	3X	16d @ 4" OC	16d @ 4" OC	12" OC OR 4" SCL @ 16" OC	LTR CLIPS @ 12" OC OR 4" SCL @ 16" OC

- SEE DETAIL C/S/N.2 FOR TYPICAL SHEARWALL FRAMING ILLUSTRATION, DETAIL D/S/N.2 FOR ALLOWABLE SHEARWALL PENETRATIONS.
- 3X FRAMING MEMBERS TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING (SEE DETAIL C/S/N.2). DOUBLE 2X MEMBERS SHALL BE CONNECTED HV (2) ROWS 16d @ 4" OC STAGGERED, FULL HEIGHT.
- SOLE PLATE TO BE 2X UNO ON PLAN. SOLE PLATE CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND/OR SECOND FLOOR APPLICATIONS ONLY. ALL SHEARWALL NAILING TO SOLE PLATE TO BE STAGGERED WHEN SPACING IS LESS THAN 4" OC. SOLE PLATE TO RIV/BEAM/BLKG CONNECTIONS MAY BE OMITTED WHERE SHTG IS LAPPED PER DETAIL H/S/N.2.
- WHERE (2) ROWS OF SCREENS ARE SPECIFIED, PROVIDE DOUBLE 1 1/4" WIDE SCL. RIV/BLKG: 3 1/2" SCL AND DOUBLE 1 1/4" SCL ARE ACCEPTABLE ALTERNATIVES. DOUBLE RIV/BLKG SHALL BE CONNECTED HV (2) ROWS 16d @ 4" OC, STAGGERED.
- AVERAGE SPACING TO BLOCKING IS NOTED. SCREEN CONNECTION TO BLOCKS SHALL HAVE PIN 3" END DISTANCE AND PIN 3" SPACING.
- LTR CLIPS MAY BE EITHER LTRM OR LTRP. INSTALLED IN THE HORIZONTAL ORIENTATION WHERE CLIPS ARE REQUIRED ON EA FACE RIV/BLKG TO BE SAME WIDTH AS WALL UNO. SCREENS (SPRISON HARDWARE ONLY) ARE TO BE INSTALLED FROM UNDERSIDE OF DOUBLE 2X TOP PLATE INTO BOIT OF RIV/BEAM/BLOCKING.
- CONNECTION MAY BE OMITTED WHERE SHEAR IS LAPPED PER DETAIL H/S/N.2. PROVIDE PIN 16d @ 12" OC SOLE PLATE TO RIV. AT ONE-SIDED SHEARWALLS WHERE SHTG IS LAPPED ON ONLY (1) SIDE OF THE WALL IT IS ACCEPTABLE TO ELIMINATE CLIPS ON (1) SIDE OF THE WALL OR DOUBLE THE SPECIFIED NAILING/SCREEN SPACING, SAD.

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PROJECT: COTA VERA SWIM CLUB
CHULA VISTA, CA

CLIENT: HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: P.J.
DESIGNER: L.K.
DRAWN BY: C.E.S.
CHECKED BY: P.J.
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP: [Professional Engineer Seal]

PLAN NUMBER: SEGMENT 1

SHEET TITLE: LEVEL 1 PLAN (ROOF FRAMING)

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

SHEET NUMBER: S1.2

JOB NUMBER: HS22244

GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE SH # SD SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- BEFORE BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/BIOS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

ROOF FRAMING NOTES

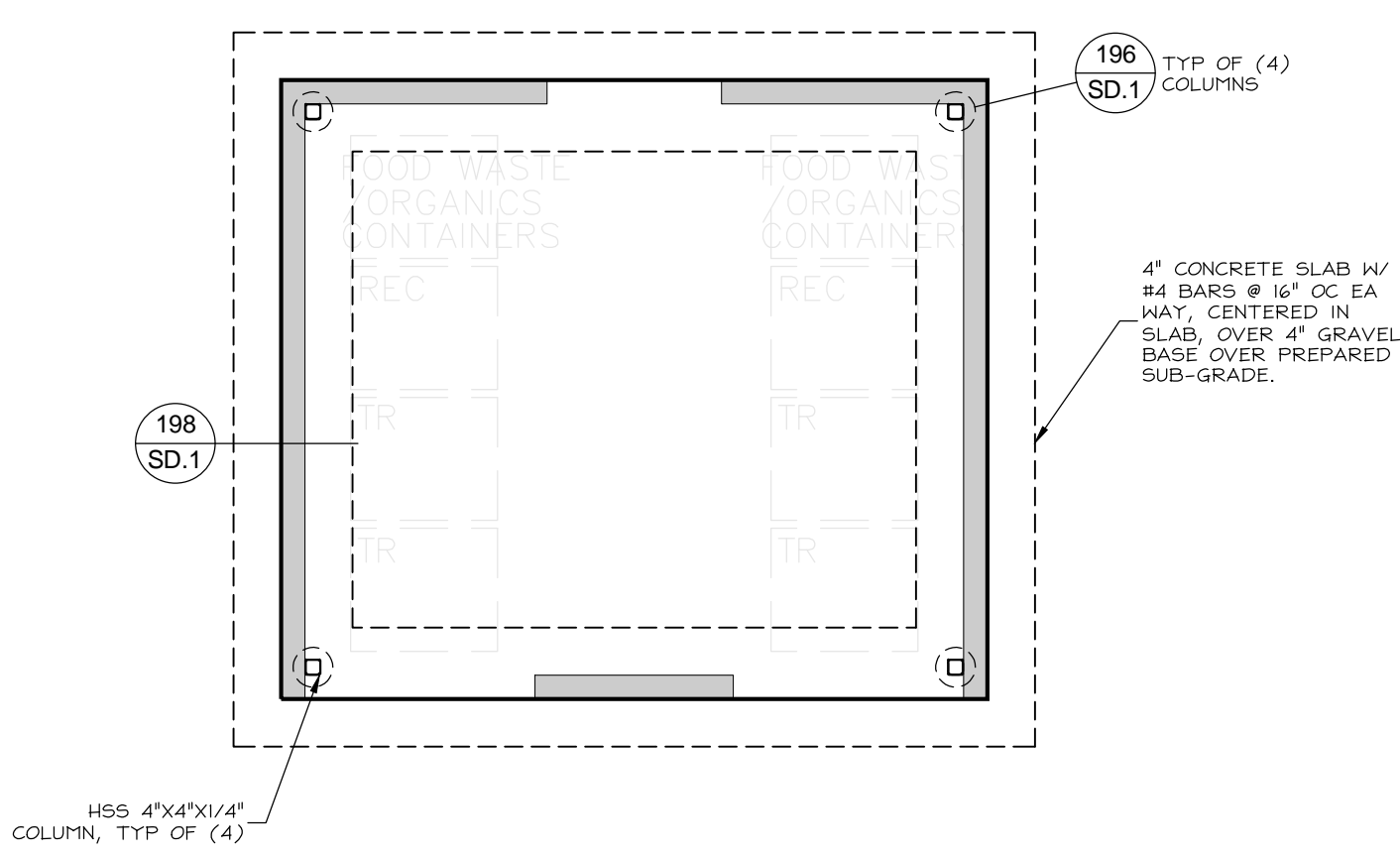
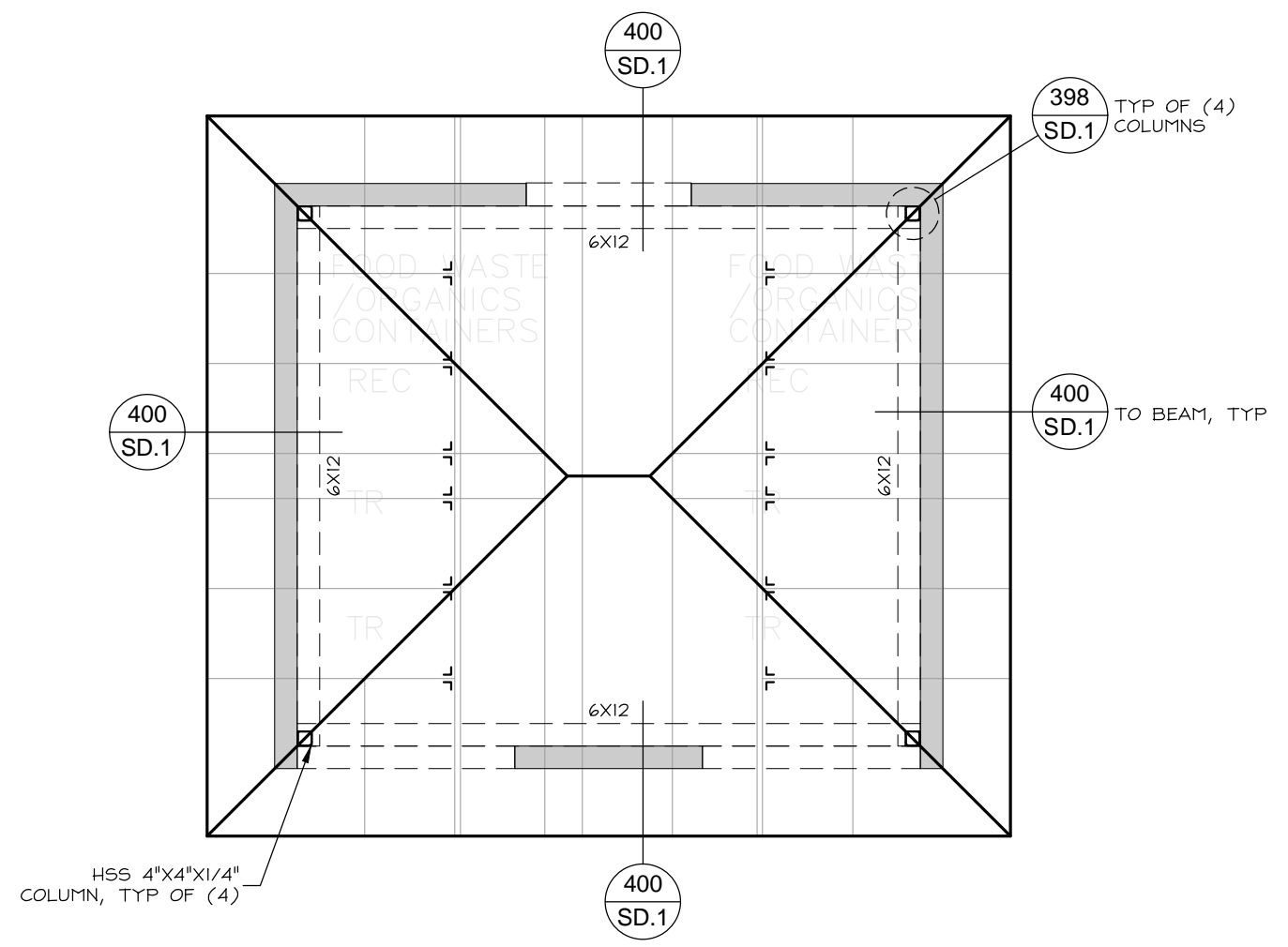
- REFER TO SECTION 1.6 ON SHEET SH.1 FOR GENERAL ROOF FRAMING SPECIFICATIONS. ALL FRAMING MEMBERS IN THIS SECTION ARE TYPICAL FOR THE CONDITION LISTED. REFER TO PLANS FOR ALTERNATE SPECIFICATIONS WHERE REQUIRED IN SPECIFIC LOCATIONS.
 - SEE DETAIL P/PSN.2 FOR ALLOWABLE SPACING ADJUSTMENTS.
- TYPICAL ROOF FRAMING**
 PRE-MANUFACTURED ROOF TRUSSES BY TRUSS MANUFACTURER # 24" OC, TYP. SEE SH.1, SECTION 4.7 FOR DESIGN, MATERIAL, & SHOP DRAWING REQUIREMENTS. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE PROVIDED BY THE TRUSS MANUFACTURER. TRUSS TO BUILDING CONNECTIONS SHALL BE AS FOLLOWS:
- SINGLE-PLY NON-GIRDER
 (MAX 8' SPAN) LUS24*
 (GREATER THAN 8' SPAN) HUS24
 SINGLE-PLY GIRDER HUS24
 TWO-PLY GIRDER HUS28-2
 THREE-PLY GIRDER HUS28-3
- * OR PRESSURE BLOCKING (4) 1/4" BLOCK TO CARRIER TRUSSES, (2) 1/4" TOE NAILS BC TO CARRIER, (2) 1/4" END NAILS BC TO BLOCK.

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SYMBOLS LEGEND

- LENGTH
- DENOTES SHEARWALL TYPE 4 MINIMUM LENGTH REQUIRED. REFER TO SHEARWALL SCHEDULE ON THIS SHEET.
- WHERE OCCURS, NHR = NO HOLDDOWNS REQUIRED
- WHERE OCCURS, DENOTES ALIGNMENT WITH HOLDOWN ABOVE
- ◇ DENOTES HOLDOWN 4 POST SIZE REQUIRED AT END OF SHEARWALL. REFER TO HOLDOWN SCHEDULE ON THIS SHEET.
- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- DENOTES BEARING WALL.
- DENOTES 2X PRESSURE TREATED SLEEPER EMBEDDED INTO CONCRETE. PROVIDE (2) 20# AT EACH END AND AT 24" OC, TYP AT DOORS WITH THRESHOLD.
- DENOTES PLUMBING FIXTURE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).
- DENOTES CONTINUOUS EXTERIOR FOOTING. REFER TO FOUNDATION SPECIFICATIONS ON THIS SHEET.
- DENOTES CONTINUOUS FOOTING WITH STEPS/WALL. REFER TO FOUNDATION SPECIFICATIONS ON THIS SHEET.
- DENOTES CONTINUOUS INTERIOR FOOTING. REFER TO FOUNDATION SPECIFICATIONS ON THIS SHEET.

PROJECT: COTA VERA SWIM CLUB
 CHULA VISTA, CA

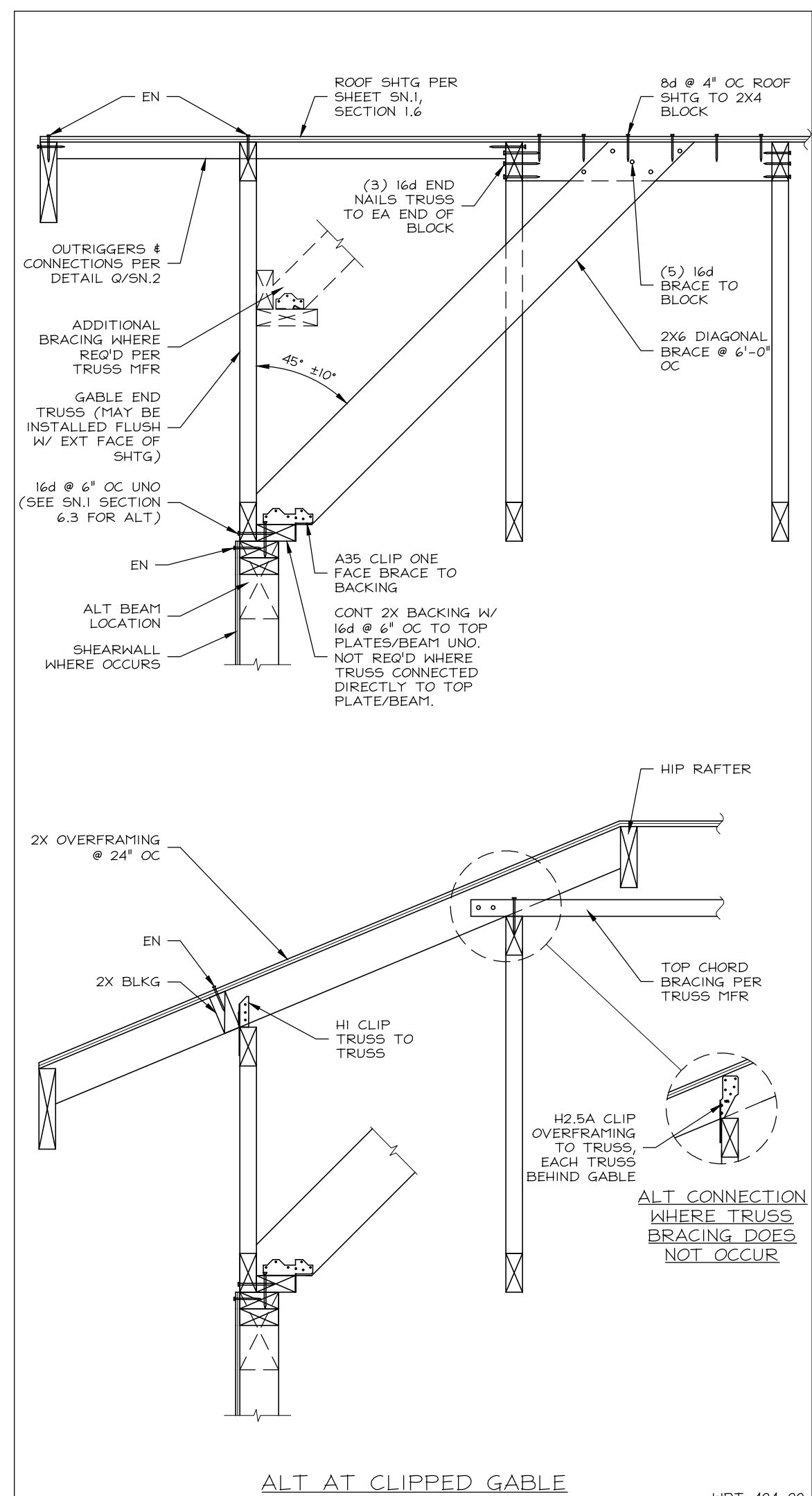
CLIENT: HOMEFED CORPORATION
 1903 WRIGHT PLACE, SUITE 200
 CARLSBAD, CA 92008

PROJECT MANAGER: P.J.
 DESIGNER: L.K.
 DRAWN BY: CES
 CHECKED BY: P.J.
 ISSUE DATE: 01-13-2023

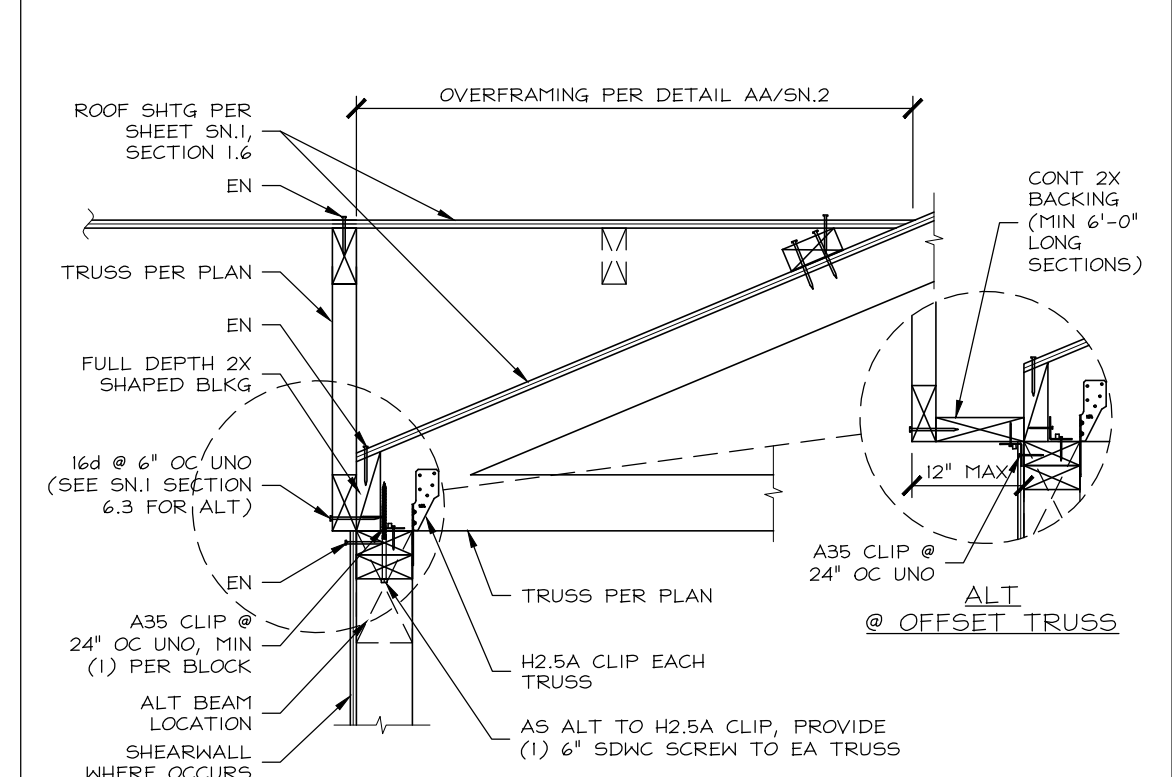
REVISIONS:

STAMP: REGISTERED PROFESSIONAL ENGINEER
 LUIS J. CORTES
 CIVIL ENGINEER
 LICENSE NO. 50892
 STATE OF CALIFORNIA

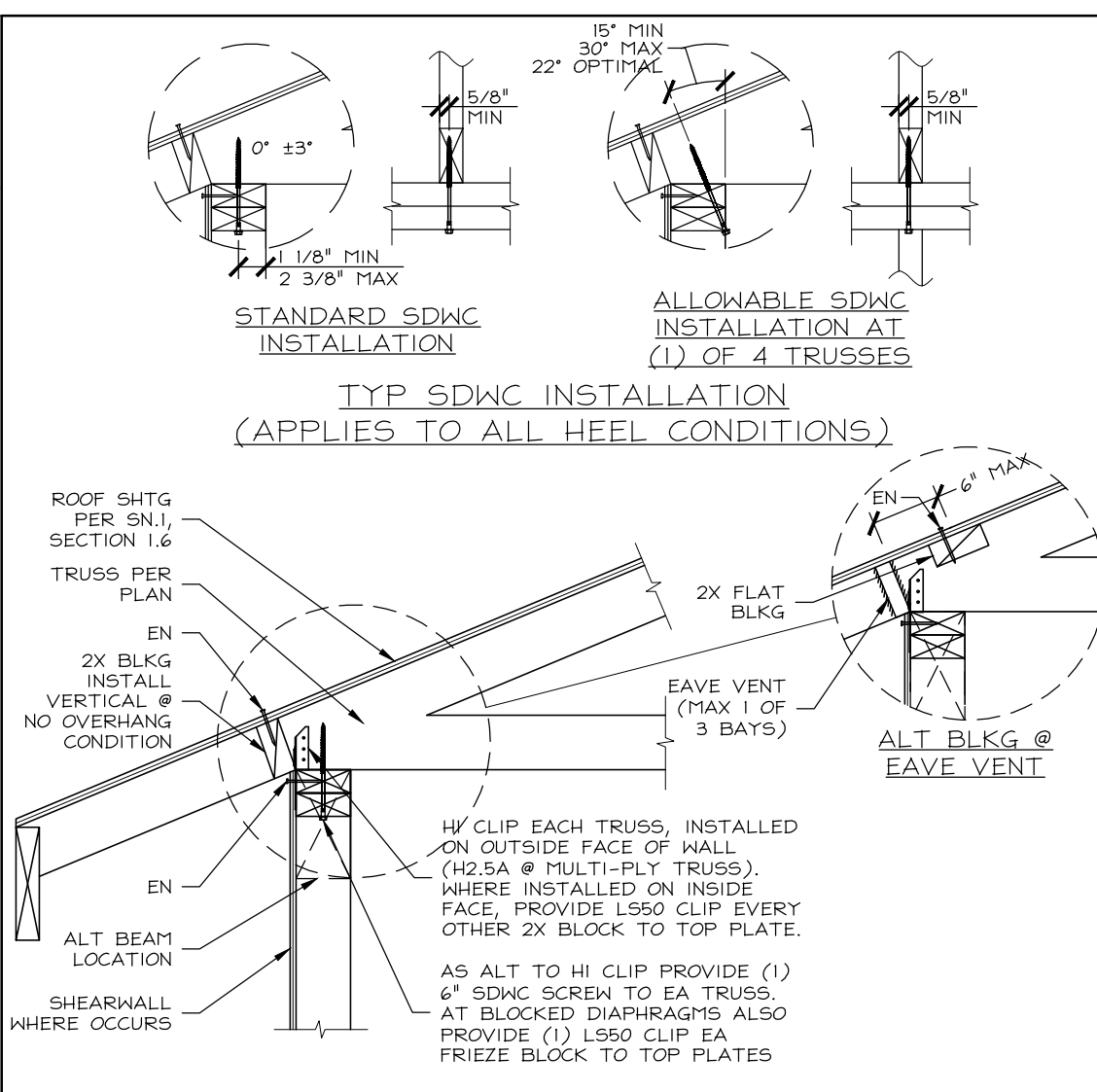
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 SHEET TITLE: LEVEL 0 PLAN (FOUNDATION) & LEVEL 1 PLAN (ROOF FRAMING)
 SCALE: 1/4" = 1'-0"
 SHEET NUMBER: S2.1
 JOB NUMBER: HS22244



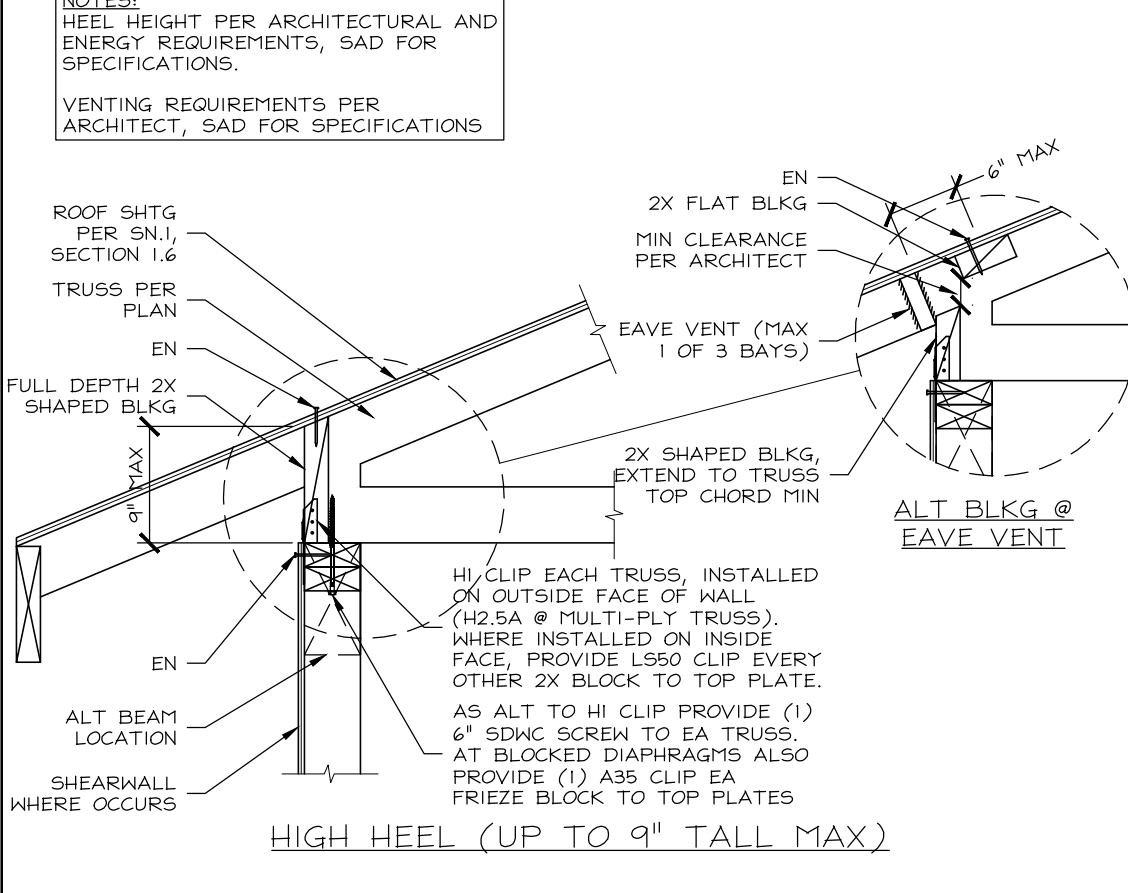
404 | TYPICAL GABLE END



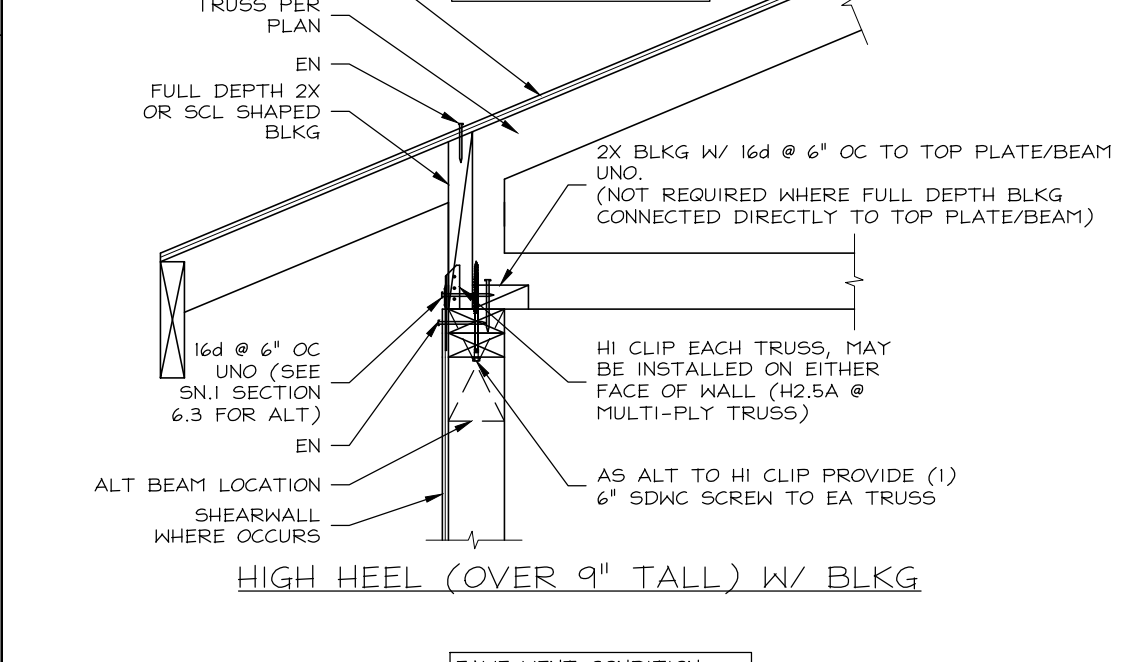
409 | ROOF FRAMING AT INTERIOR - PERPENDICULAR



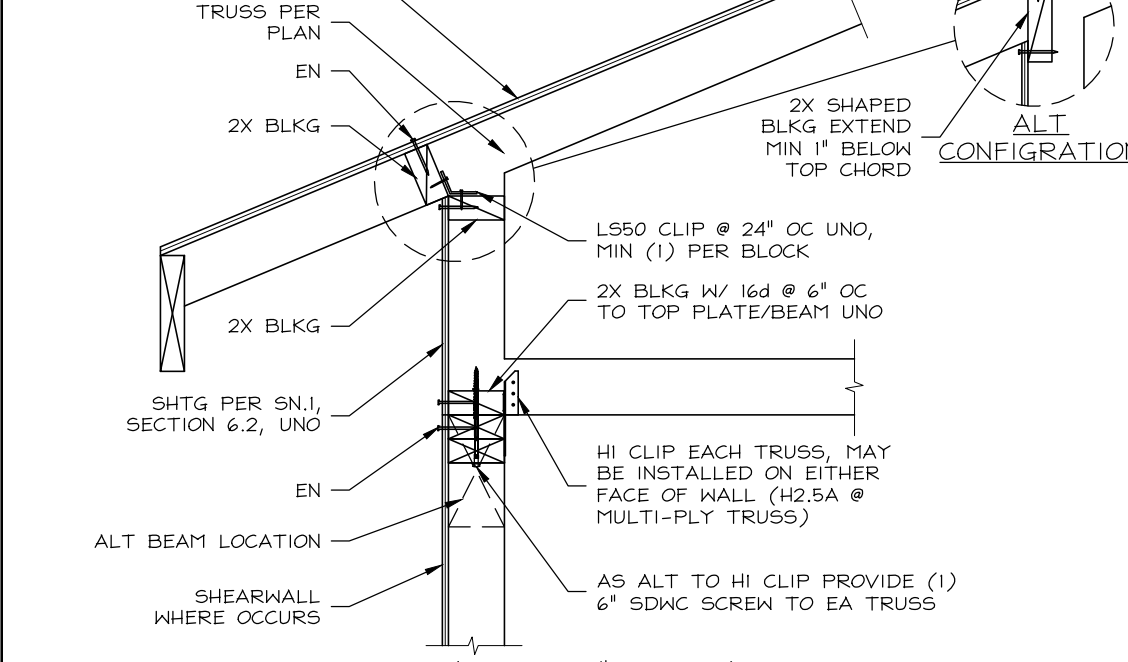
400 | TYPICAL EAVE



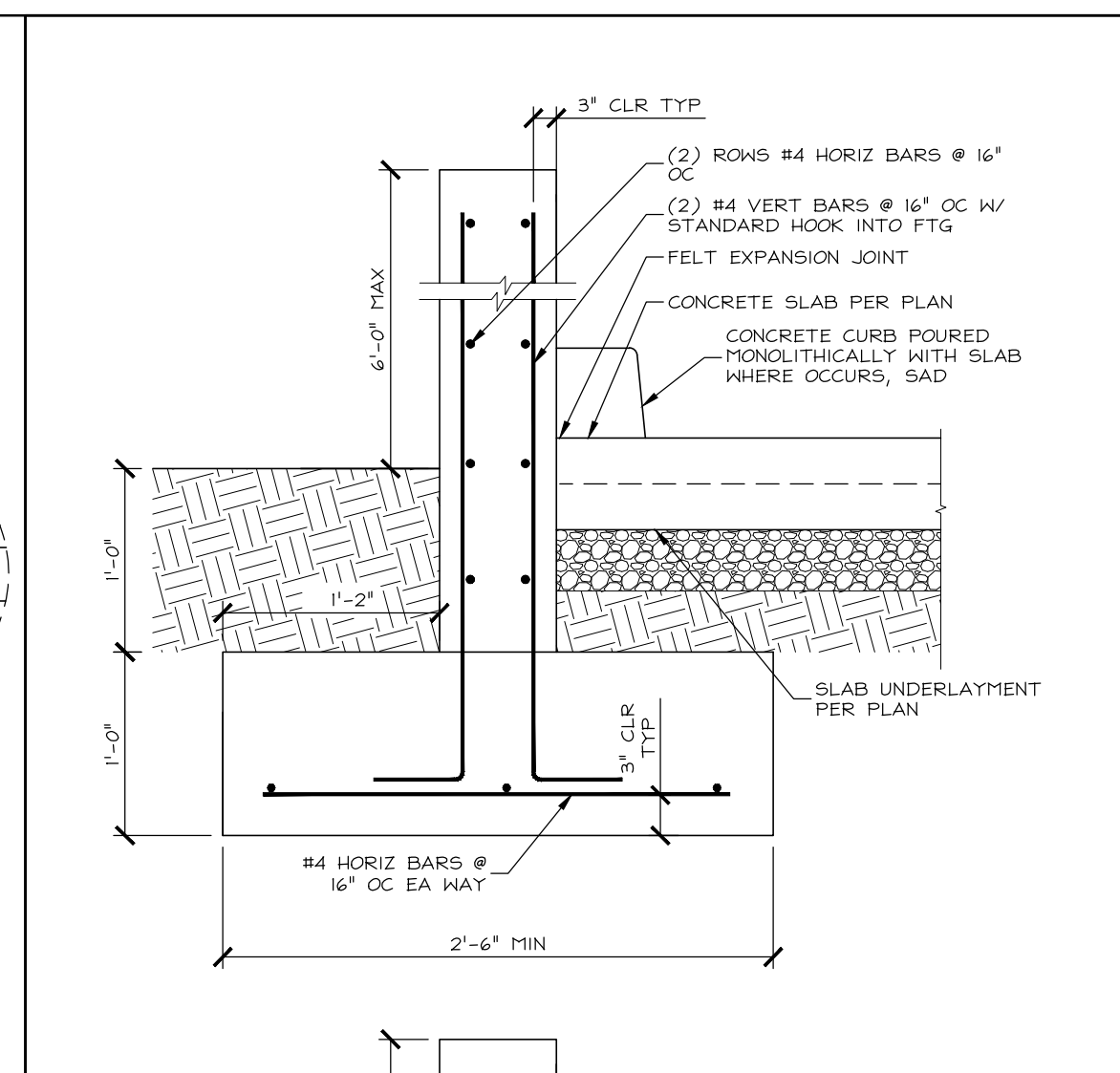
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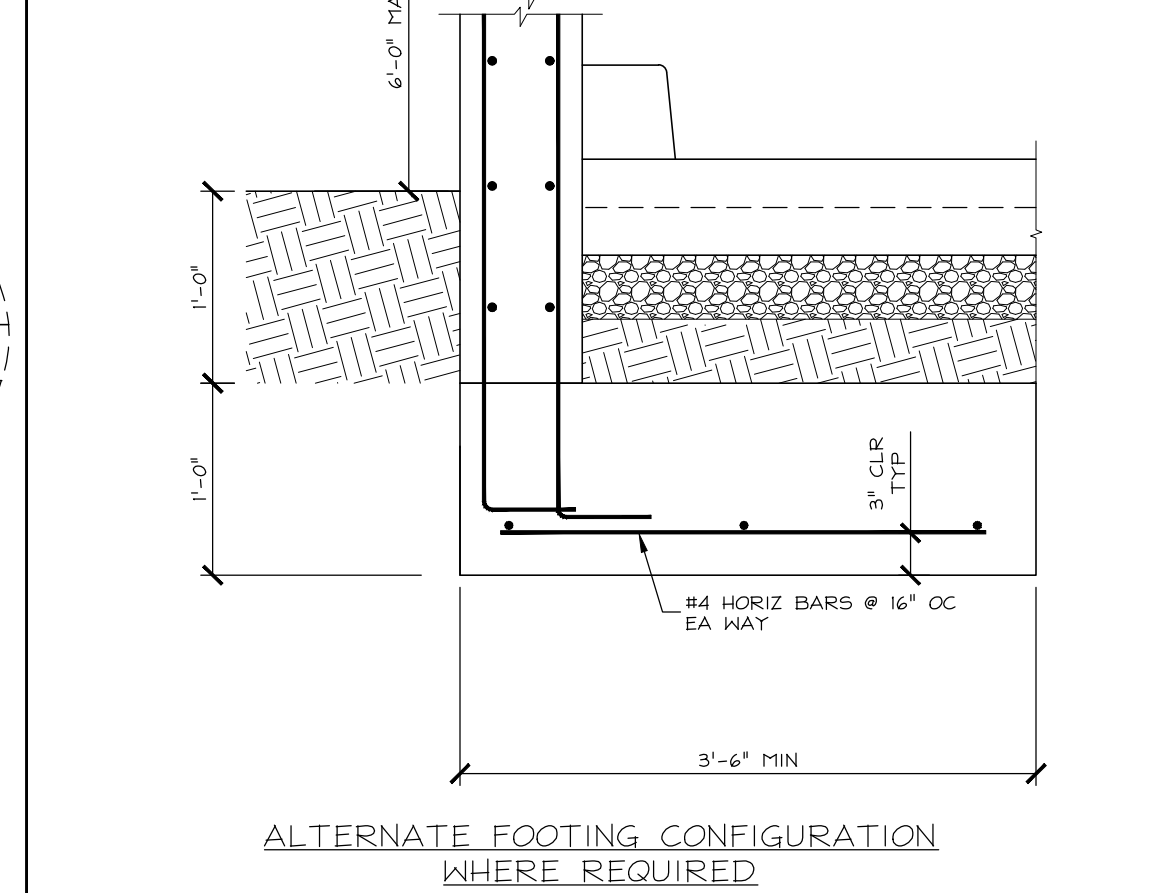
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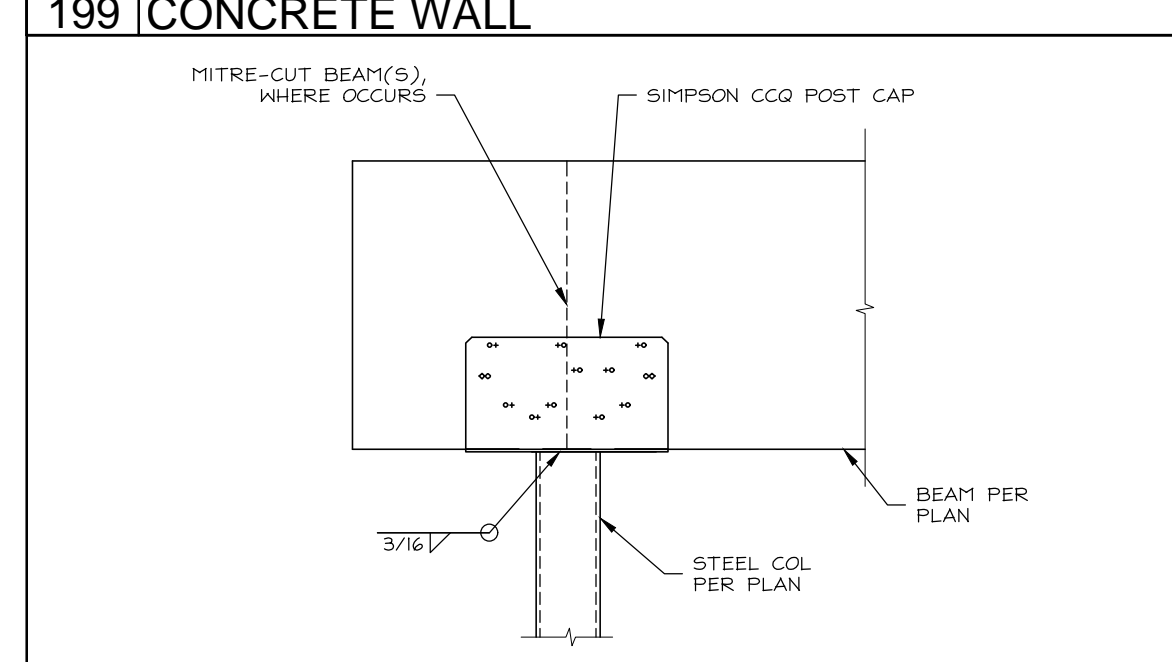
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199 | CONCRETE WALL



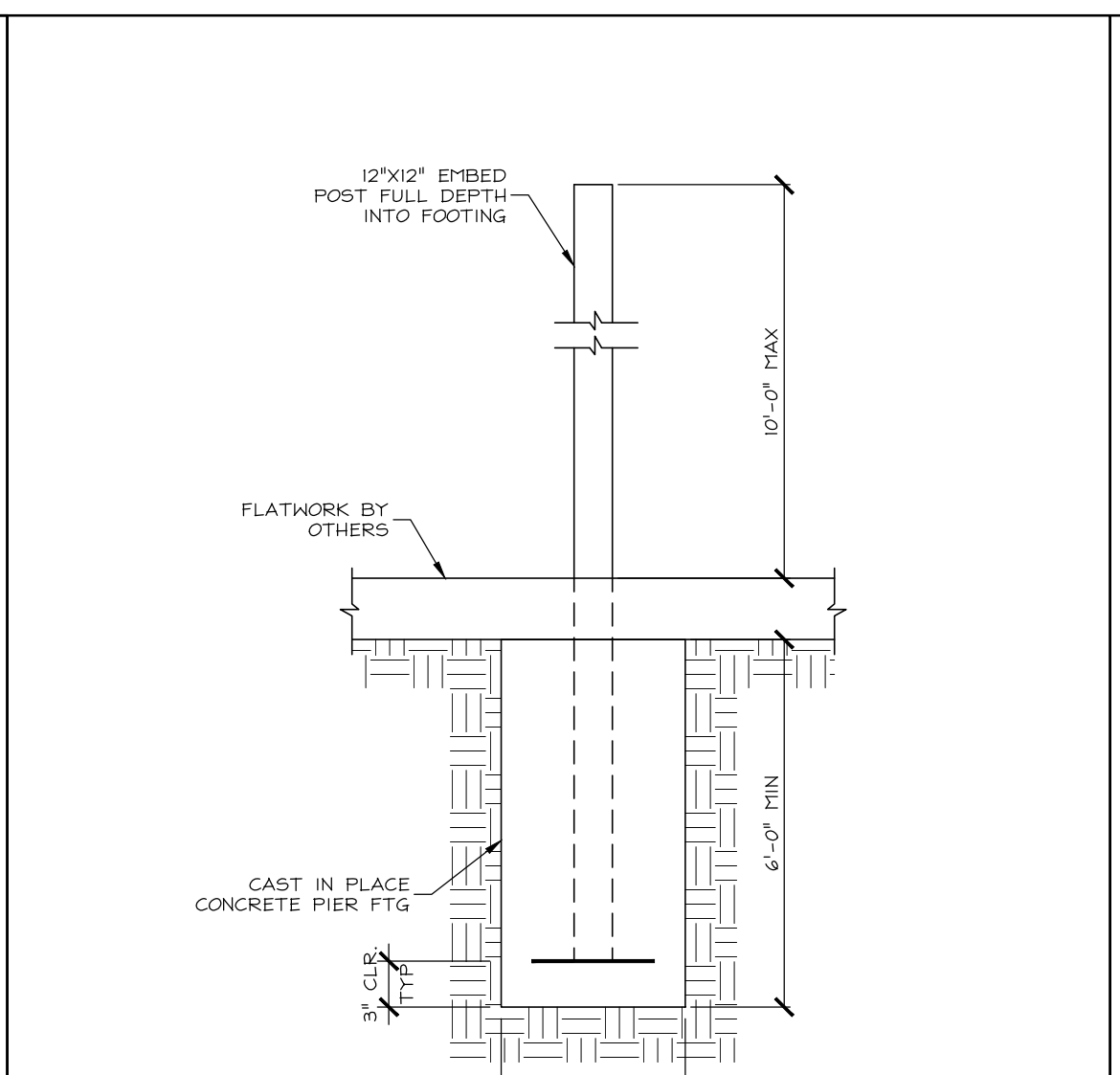
398 | WOOD BEAM TO STEEL POST



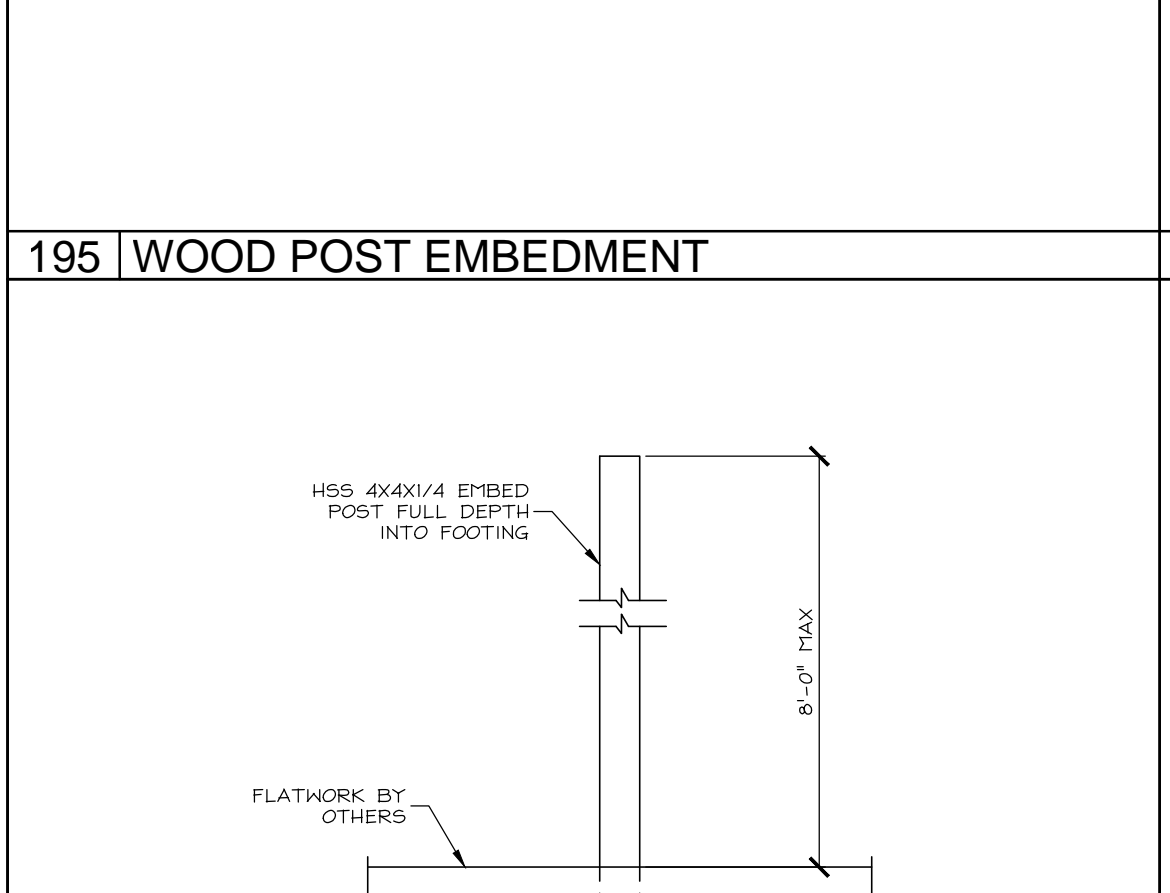
196 | STEEL POST EMBEDMENT



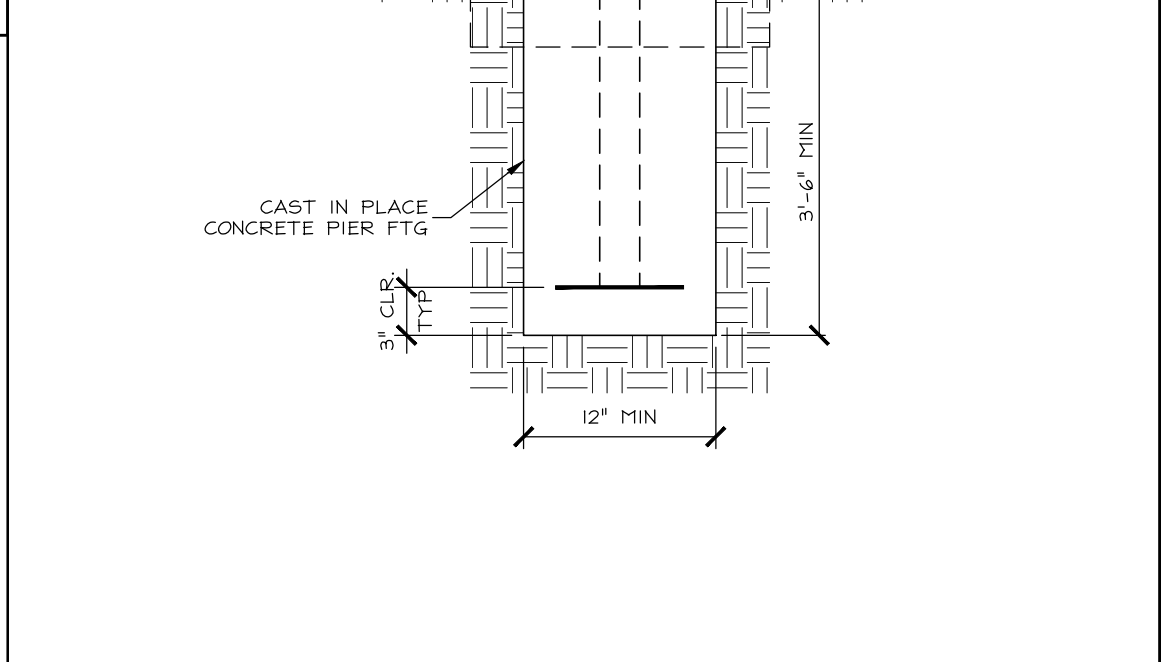
198 | MASONRY WALL



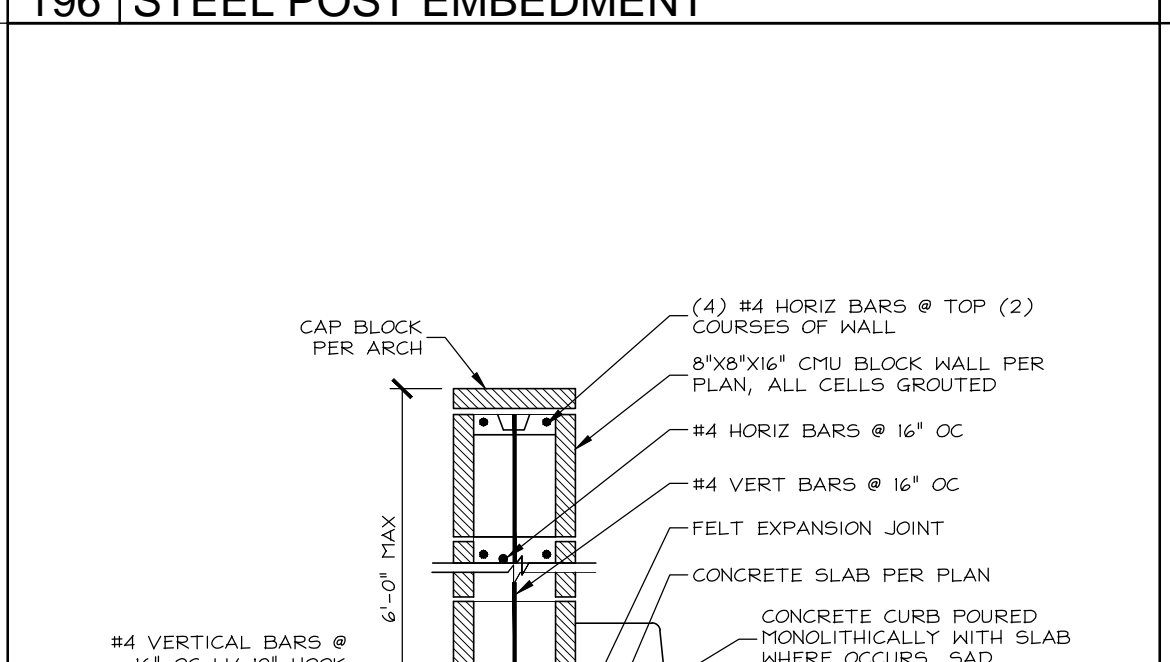
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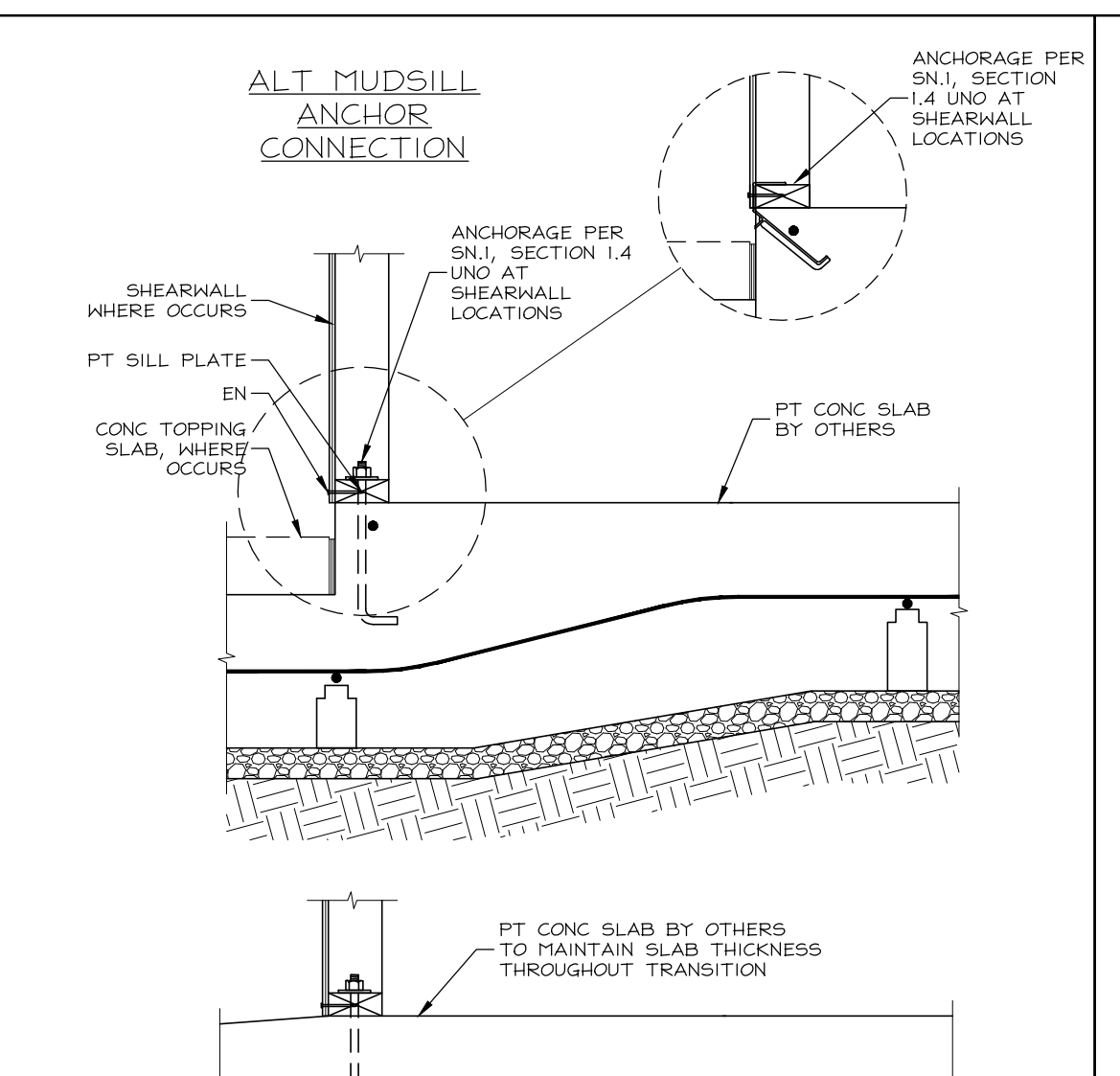
105 | SLAB AT STEM



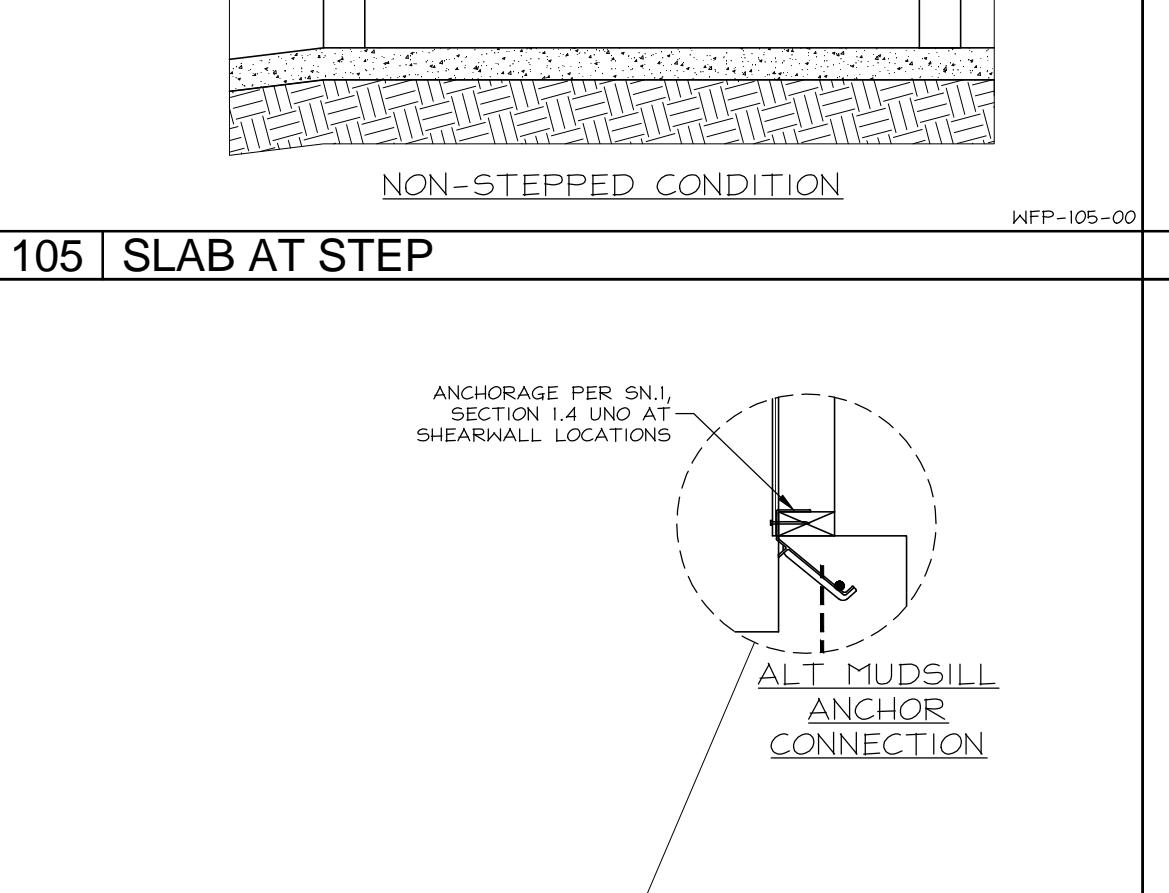
107 | SLAB AT INTERIOR W/ STEM



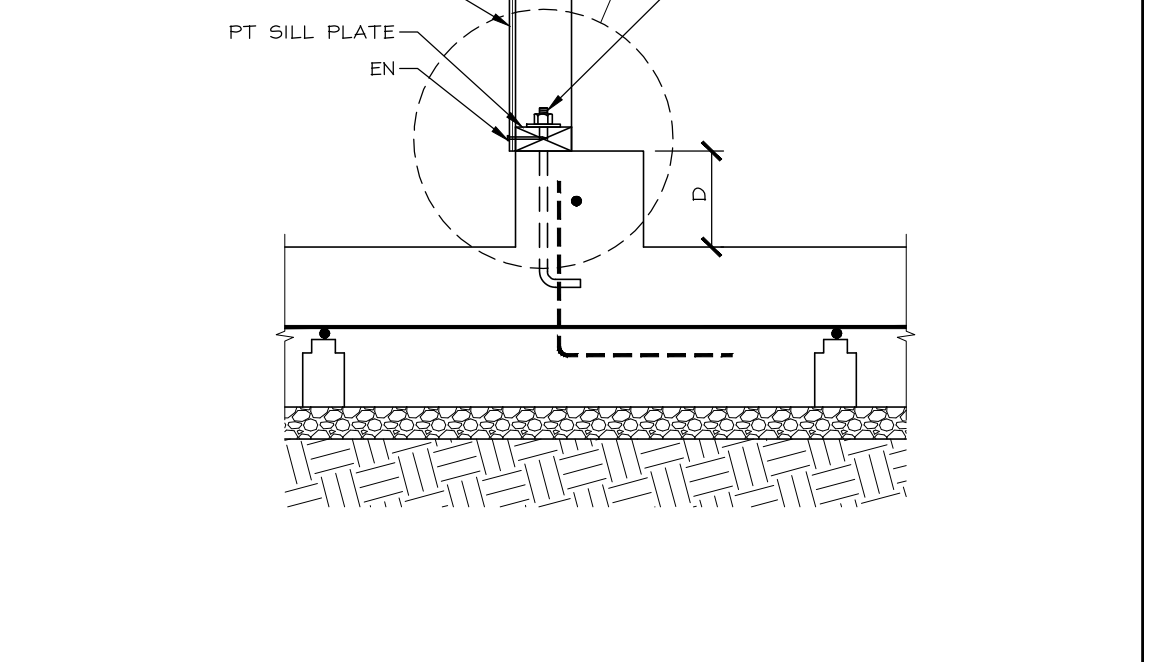
102 | SLAB AT PERIMETER W/ STEM



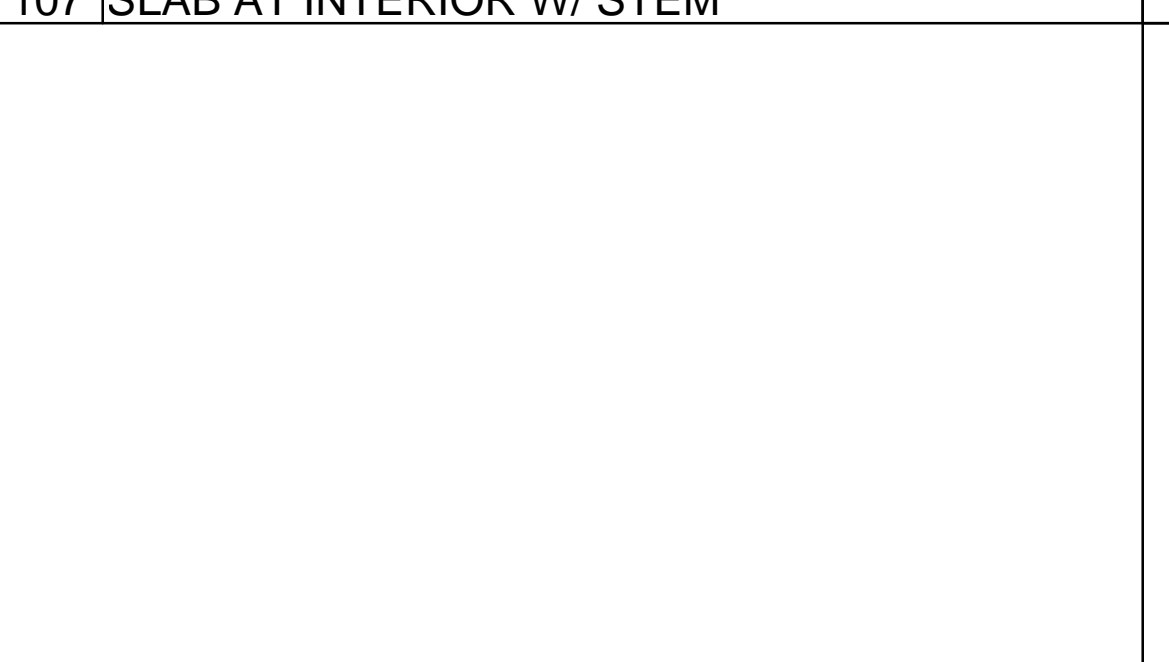
103 | SLAB AT PERIMETER W/ STEM WALL



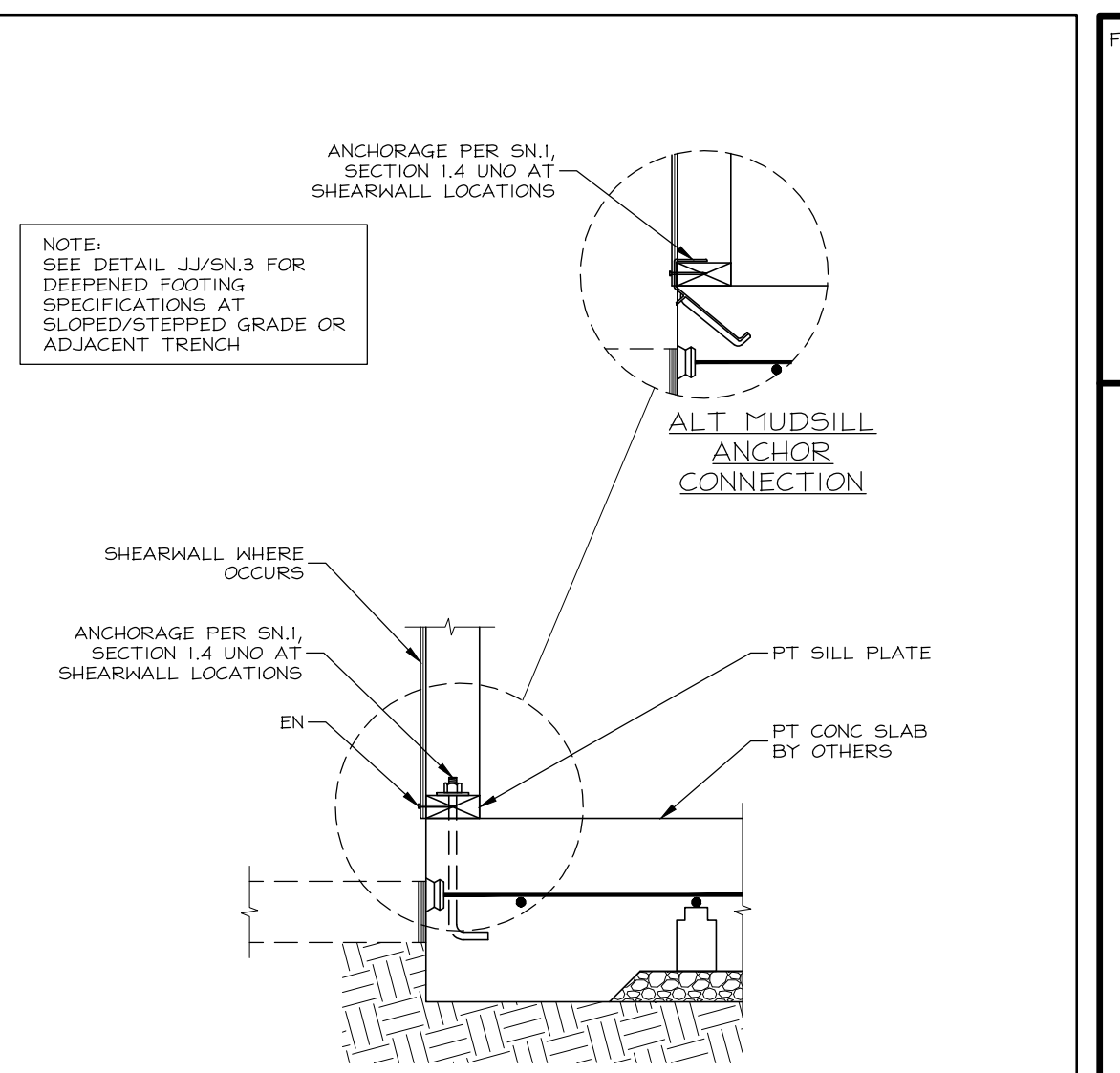
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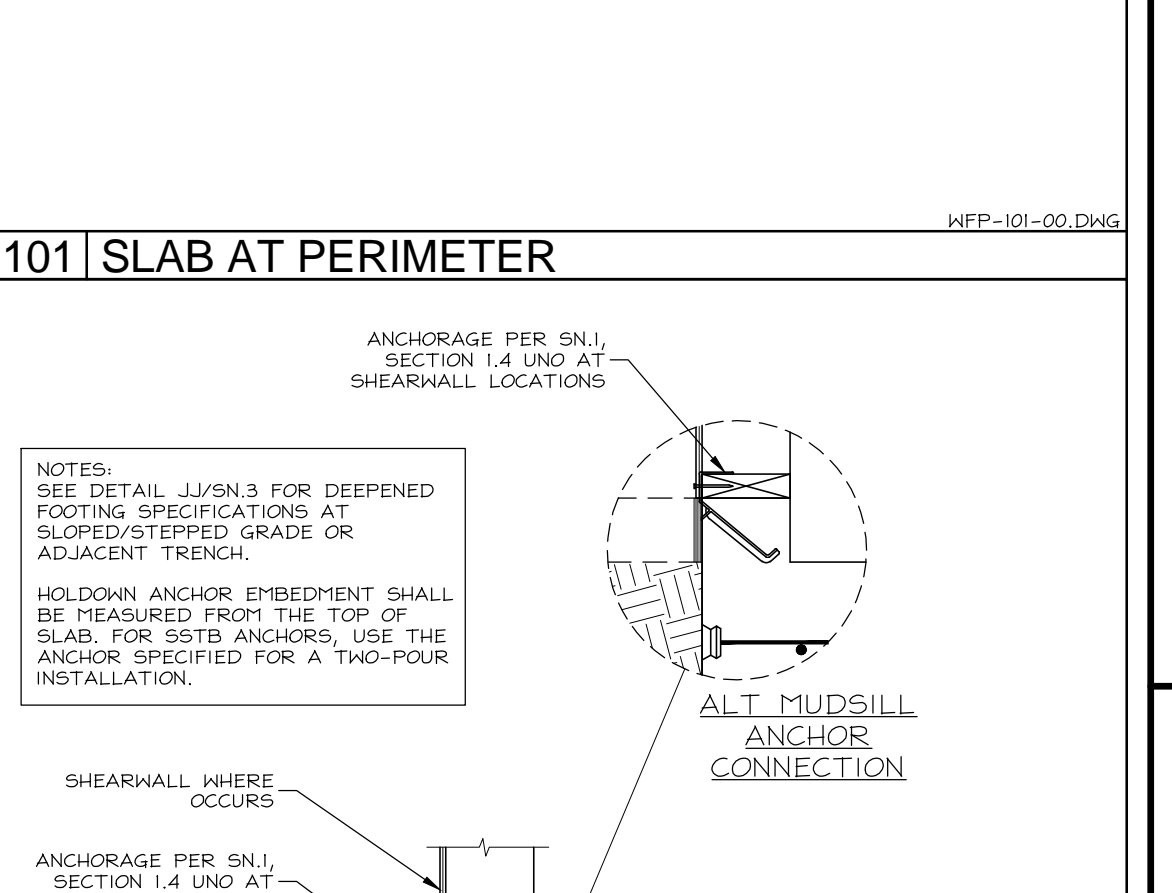
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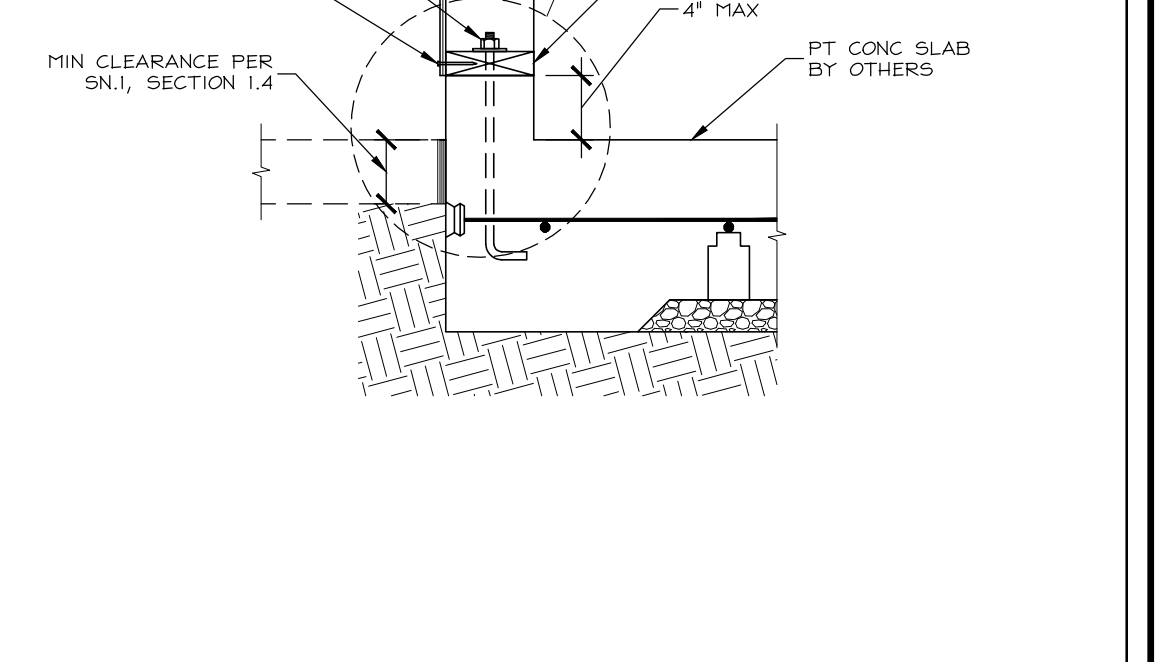
103 | SLAB AT PERIMETER W/ STEM WALL



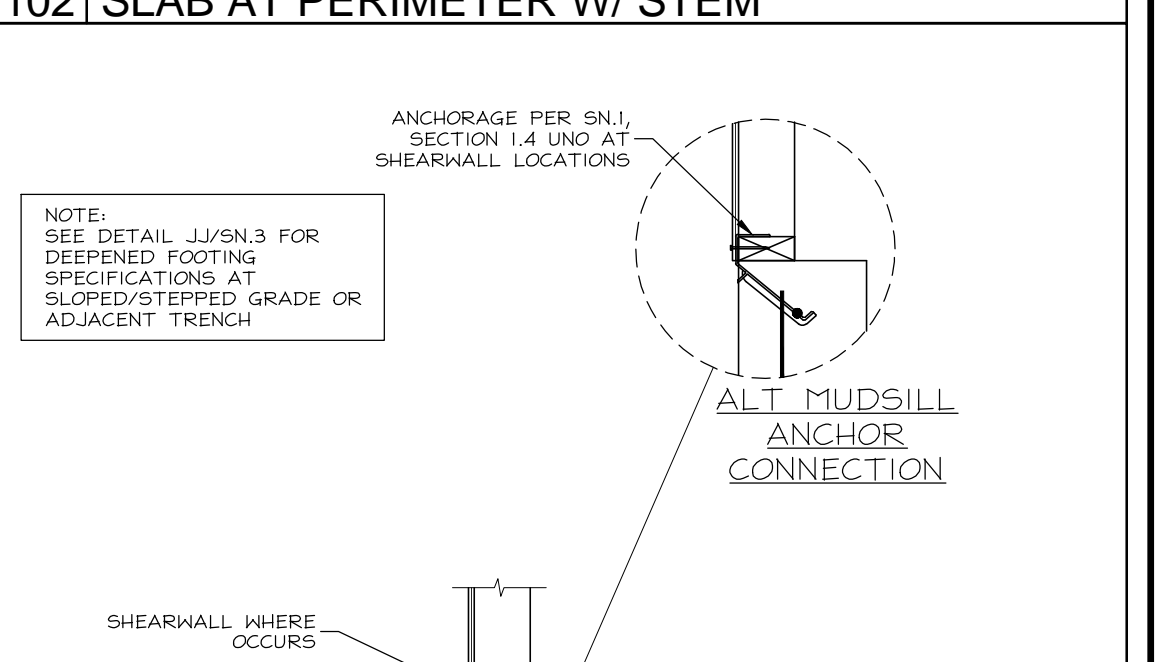
103 | SLAB AT PERIMETER W/ STEM WALL



107 | SLAB AT INTERIOR W/ STEM



102 | SLAB AT PERIMETER W/ STEM



103 | SLAB AT PERIMETER W/ STEM WALL

FOR JURISDICTION USE:

Structural Mechanical Electrical Plumbing Energy

Aliso Viejo San Ramon

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PROJECT: COTA VERA SWIM CLUB CHULA VISTA, CA

CLIENT: HOMEFED CORPORATION 1903 WILSON ROAD, CA 92008

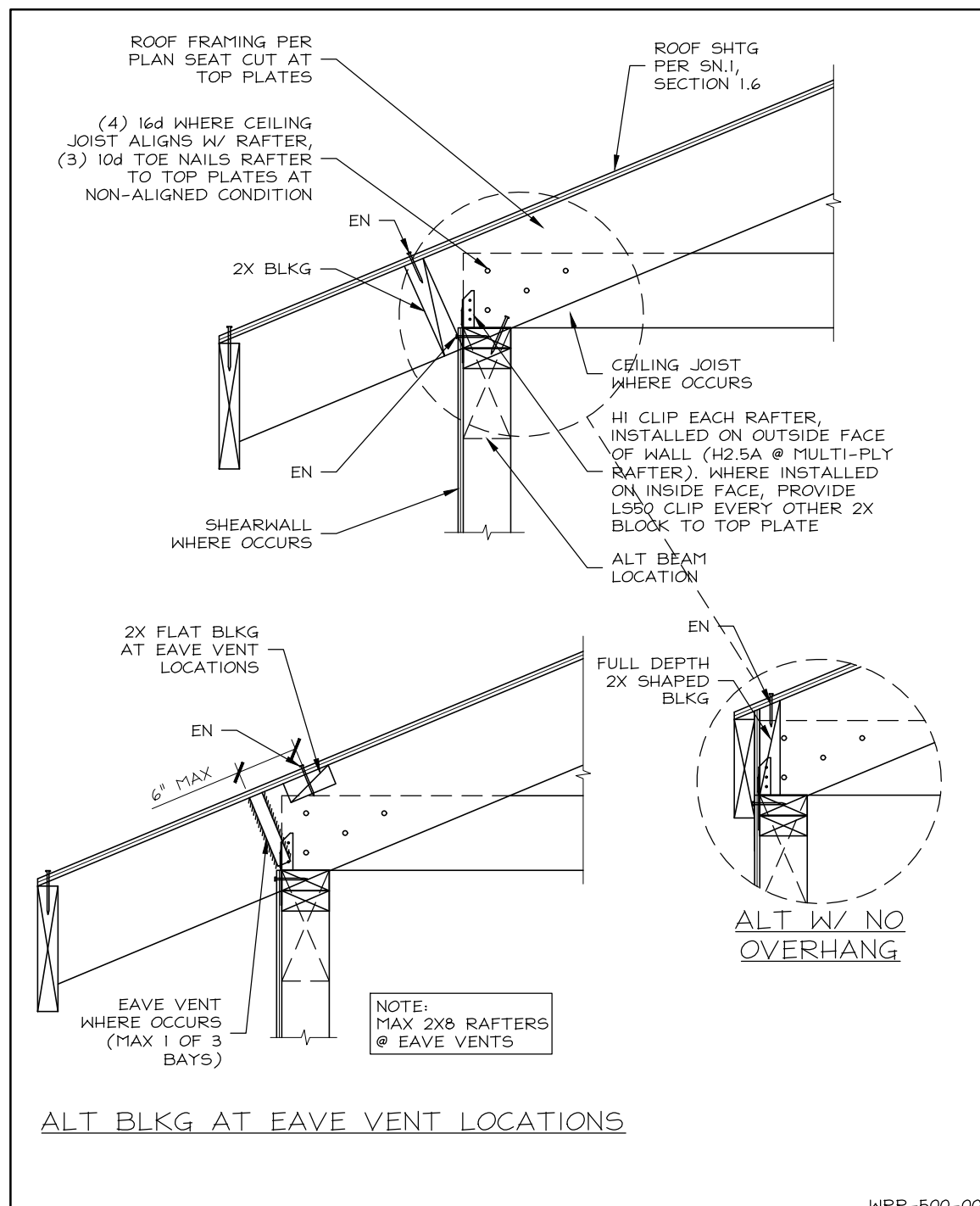
PROJECT MANAGER: PJ
DESIGNER: LK
DRAWN BY: GES
CHECKED BY: PJ
ISSUE DATE: 01-13-2023

REVISIONS:

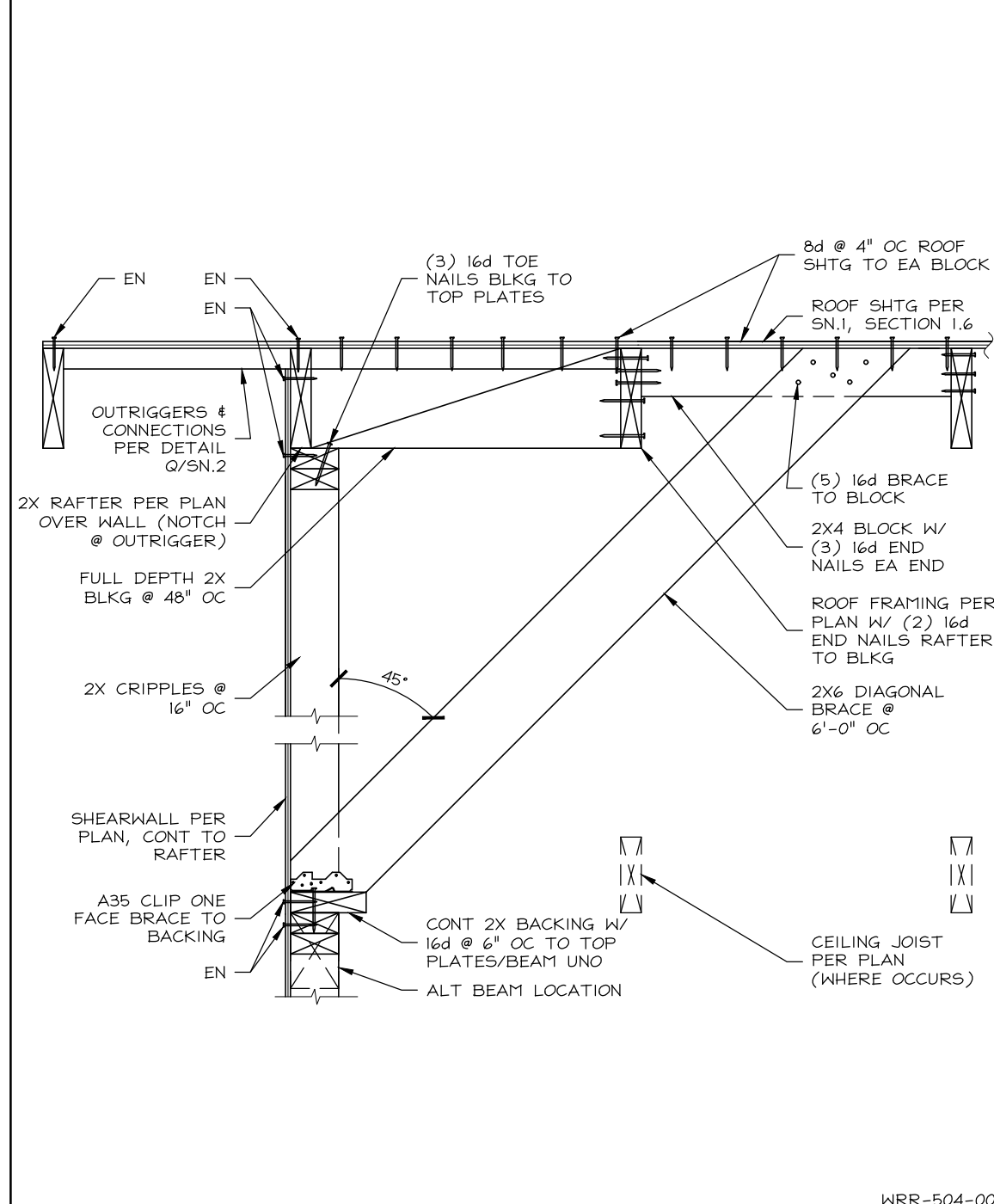
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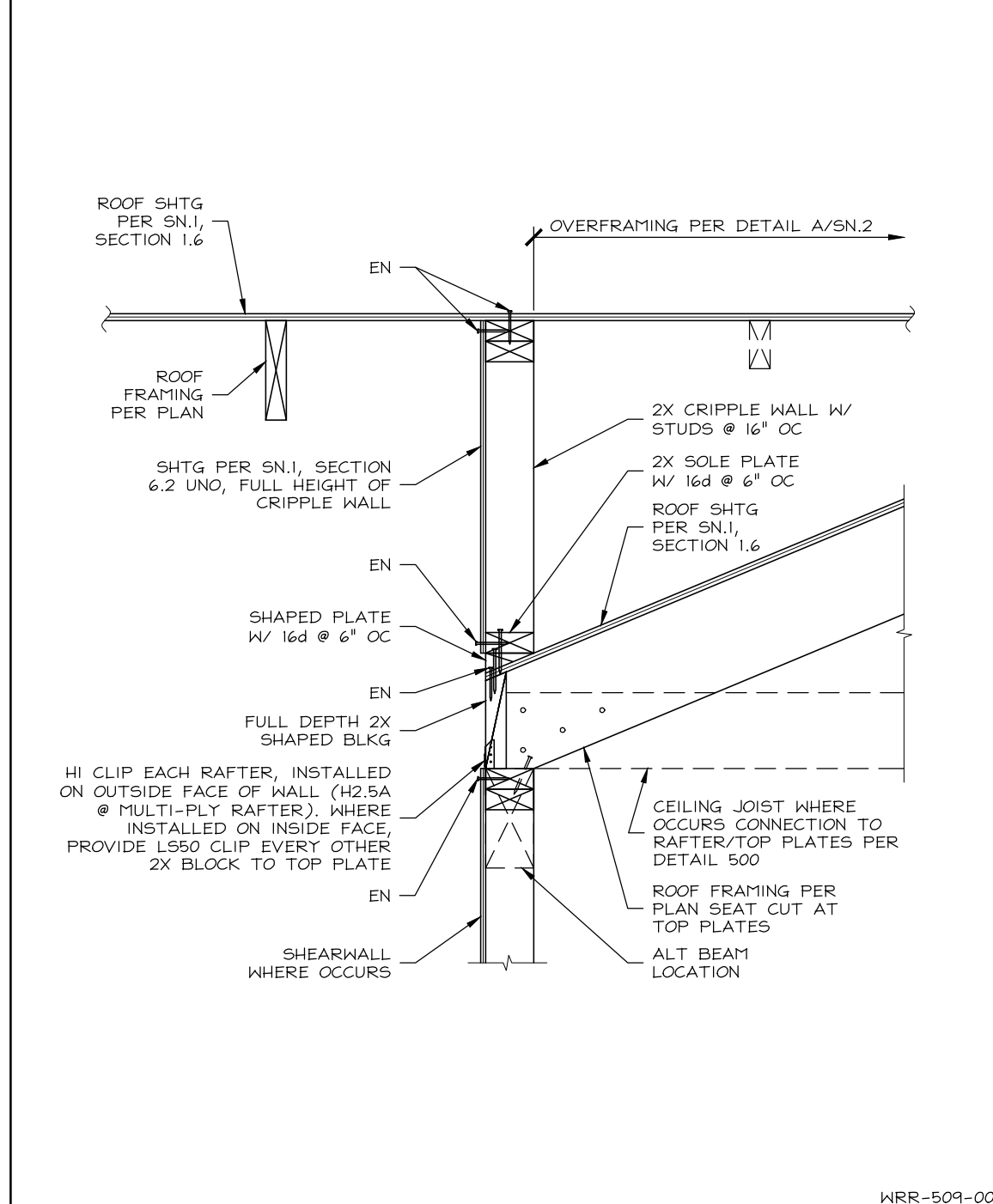
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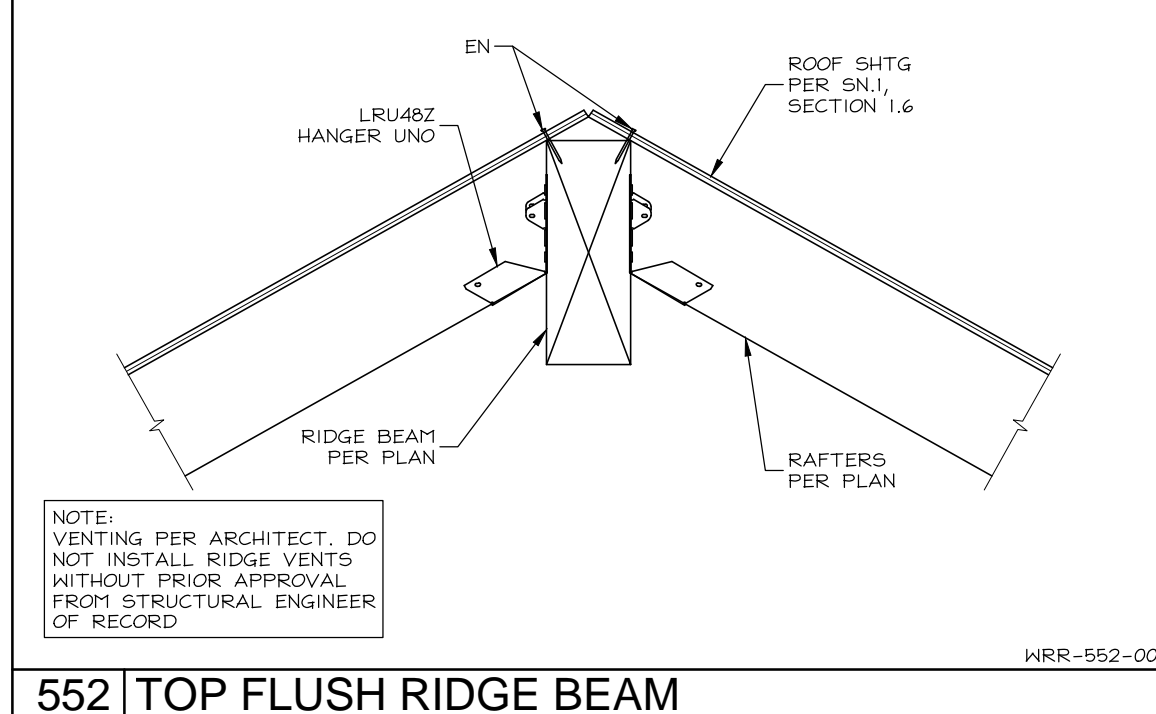
500 | TYPICAL EAVE DETAIL



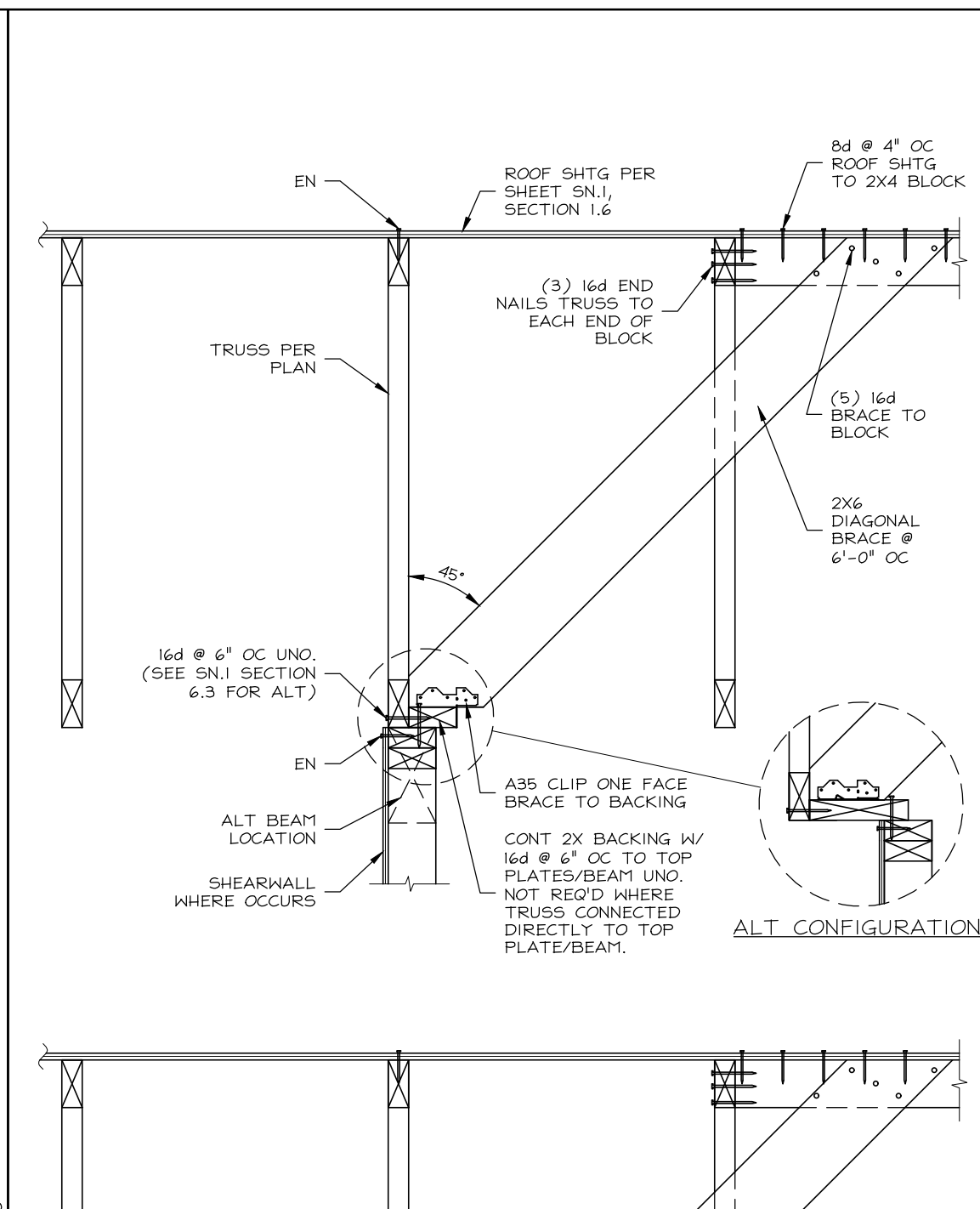
504 | GABLE END



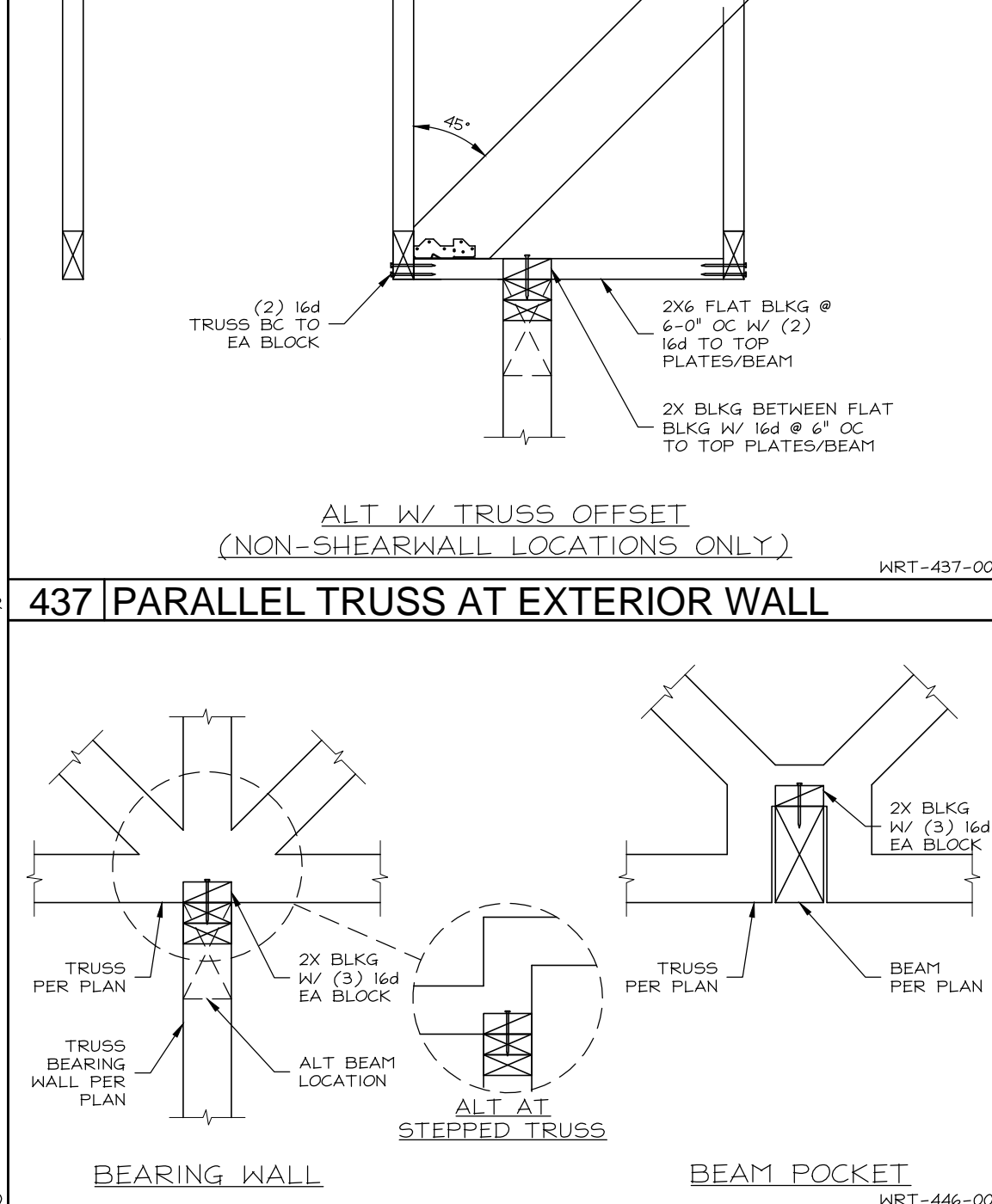
509 | RAFTER TO WALL CONNECTION



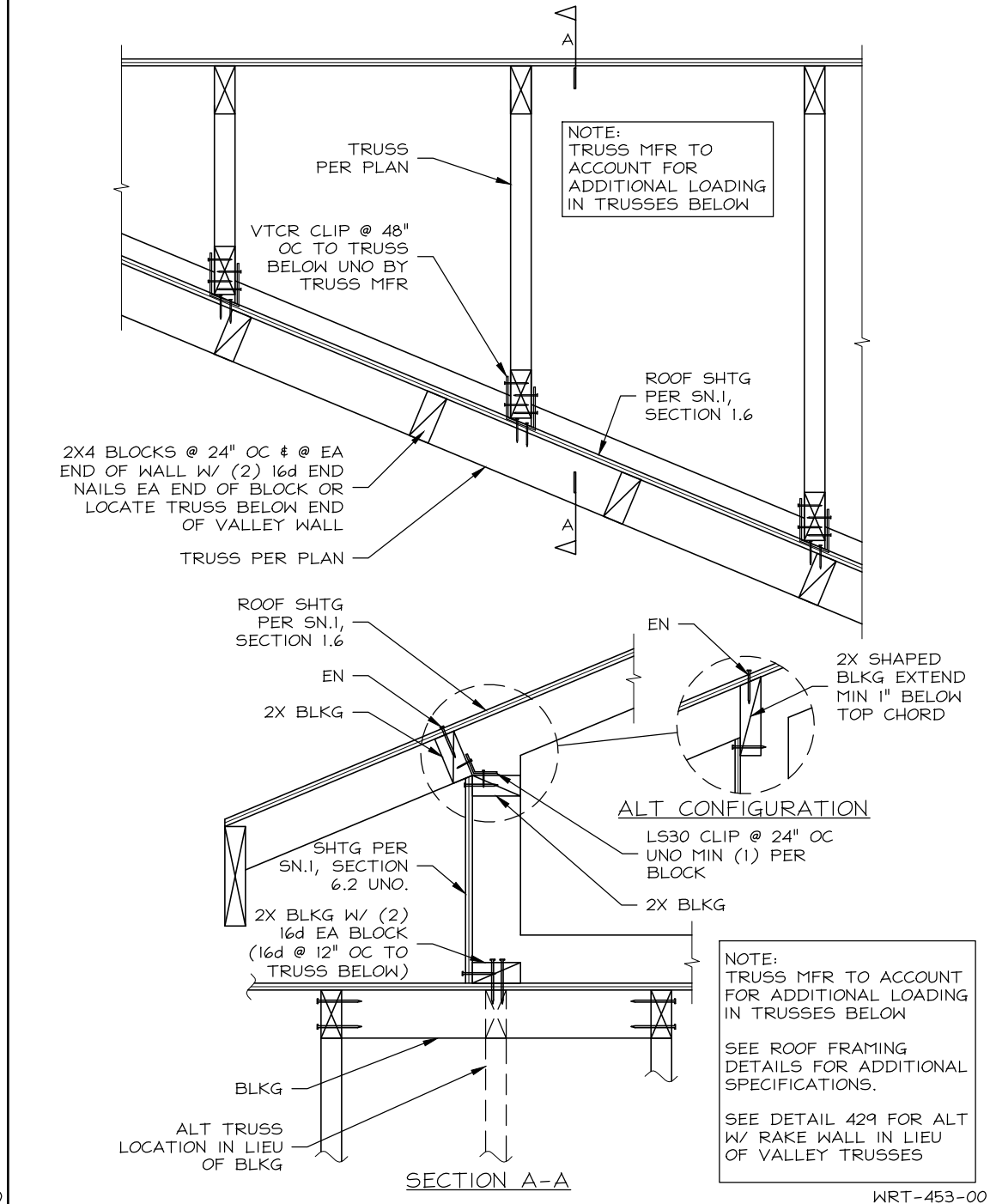
552 | TOP FLUSH RIDGE BEAM



501 | PARALLEL TRUSS AT EXTERIOR WALL



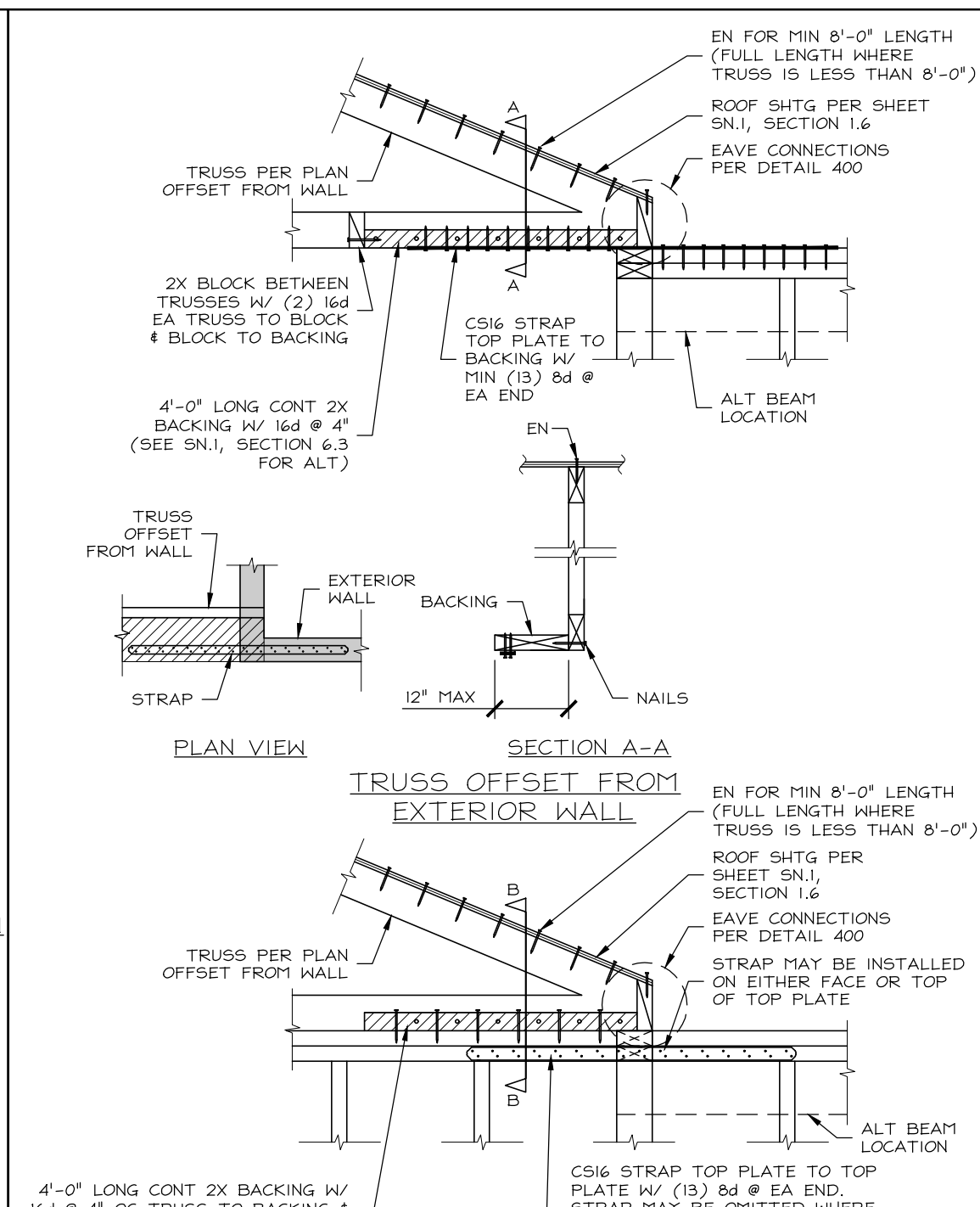
504 | INTERIOR TRUSS BEARING



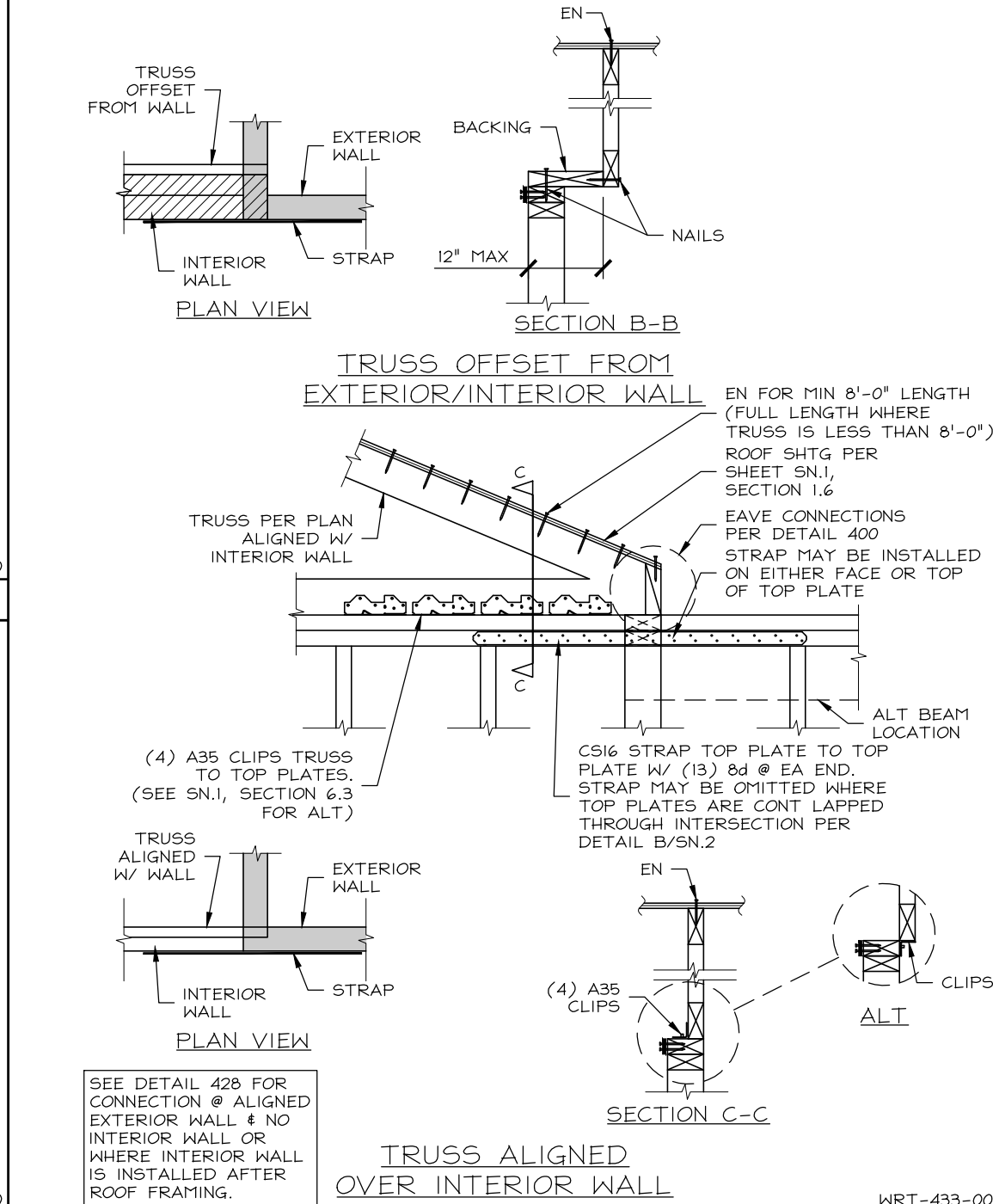
513 | HIGH HEEL VALLEY TRUSS



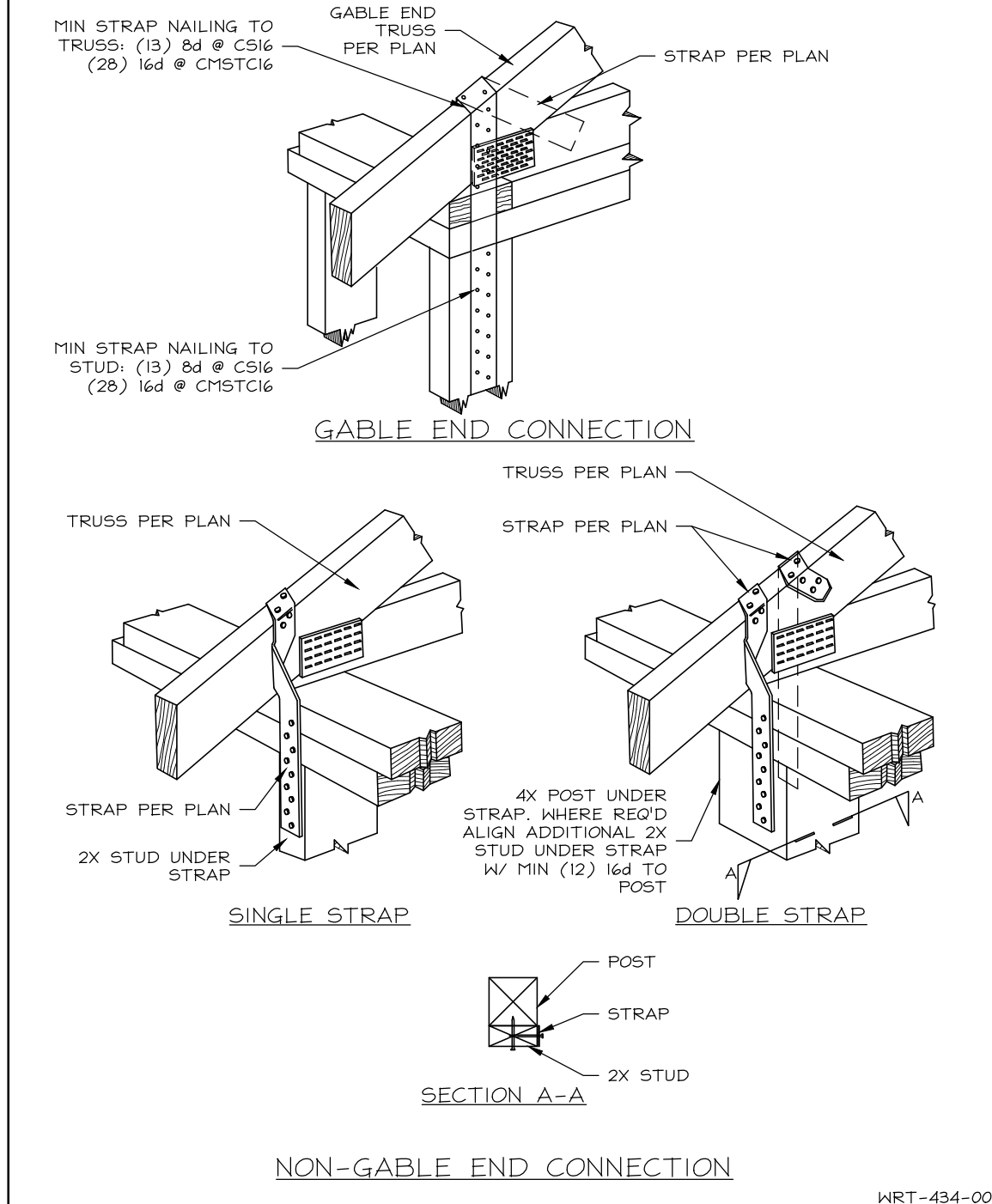
517 | STRAP AT FULL DEPTH BLOCKING



517 | TRUSS OFFSET FROM EXTERIOR WALL



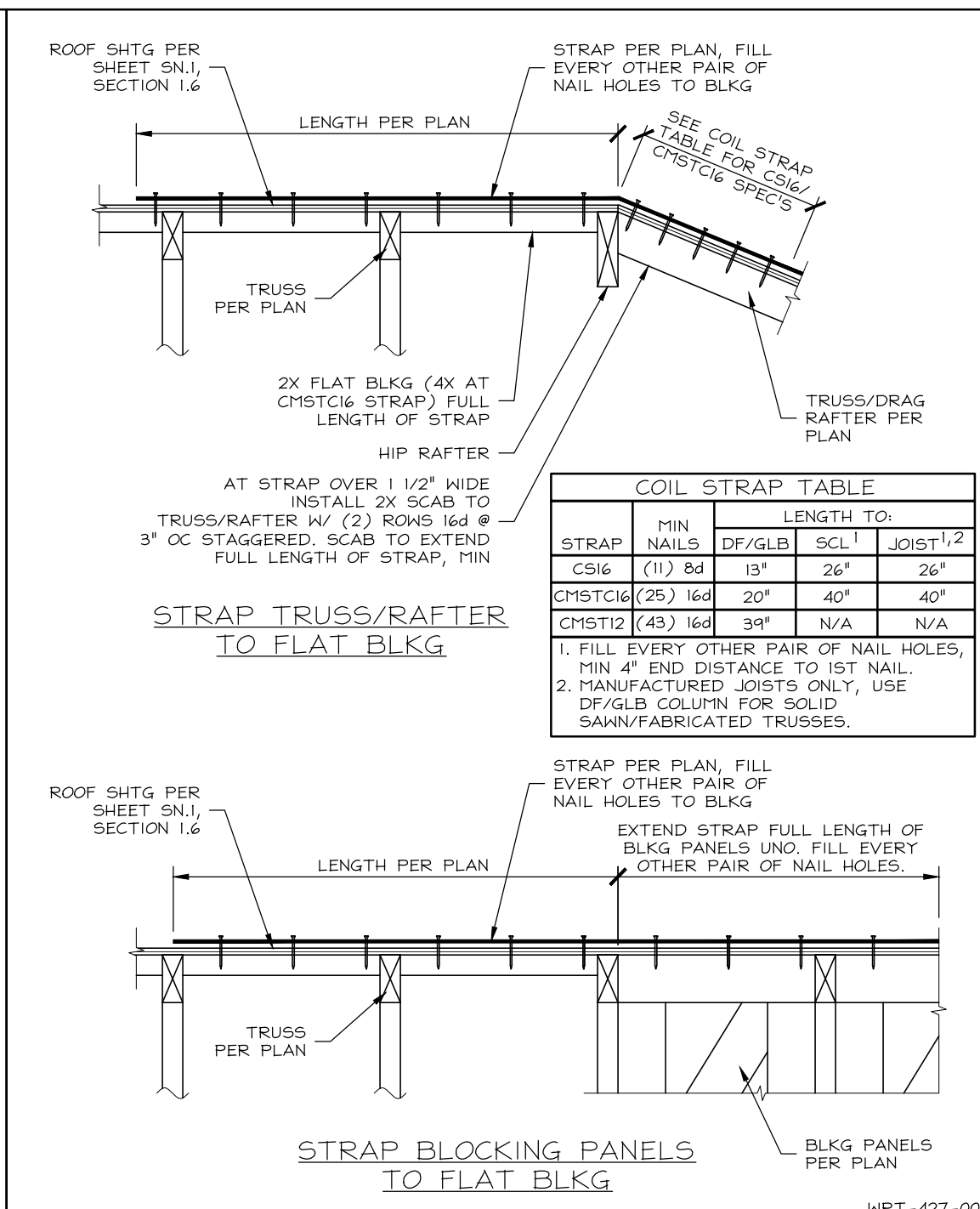
517 | TRUSS OFFSET FROM EXTERIOR/INTERIOR WALL



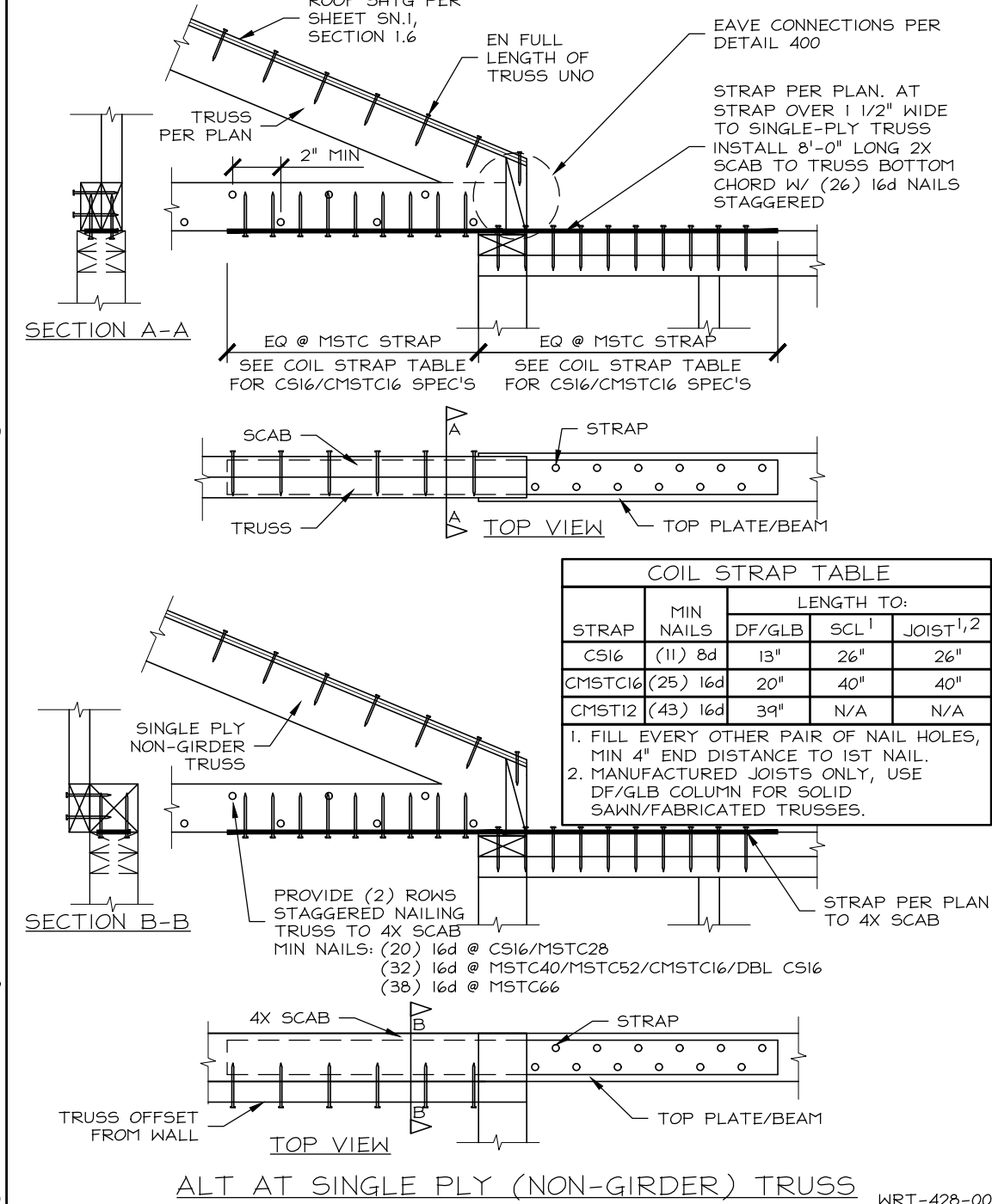
517 | TRUSS ALIGNED OVER INTERIOR WALL



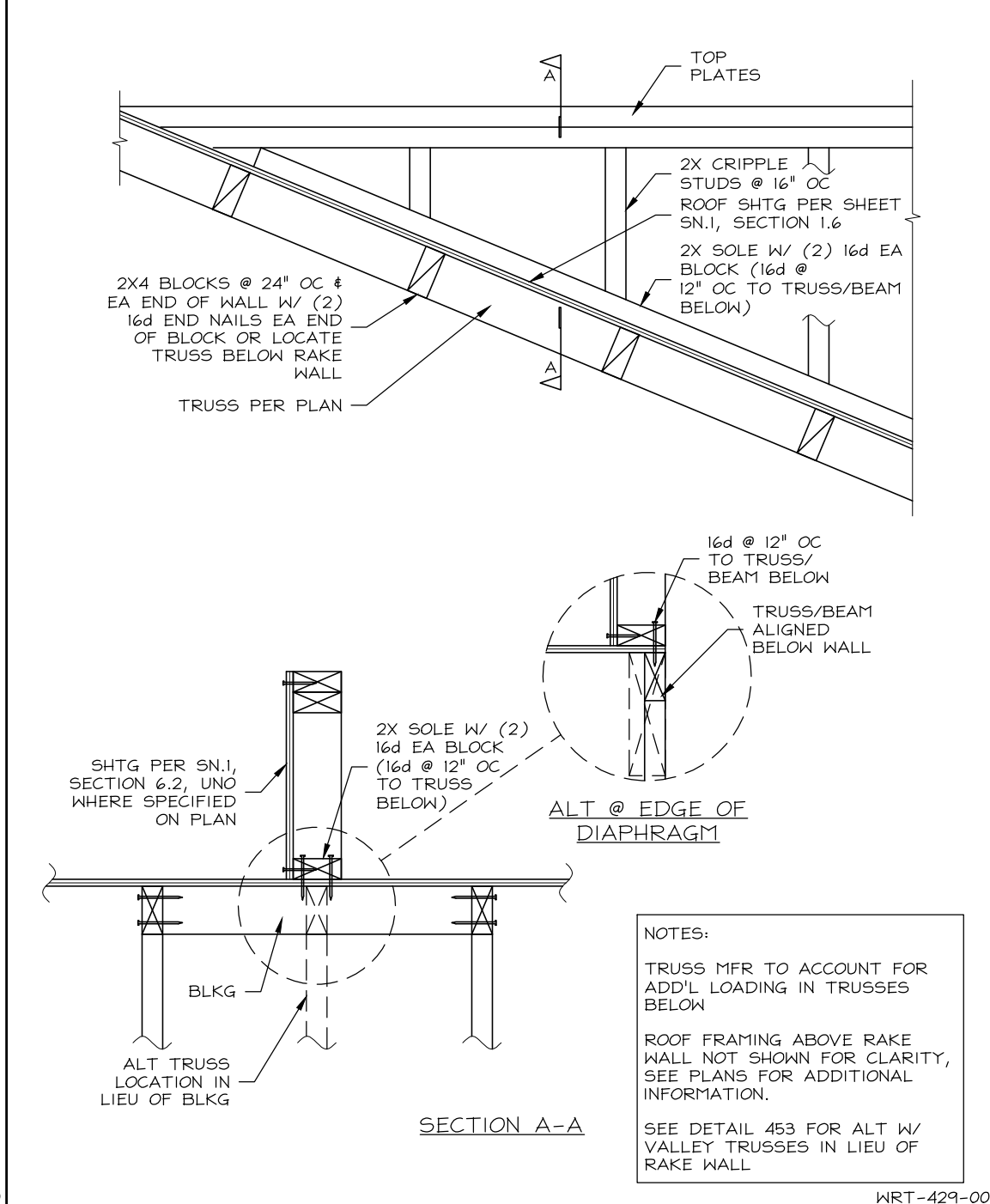
517 | STRAP TRUSS TO TOP PLATE/BEAM



517 | STRAP AT FLAT BLKG



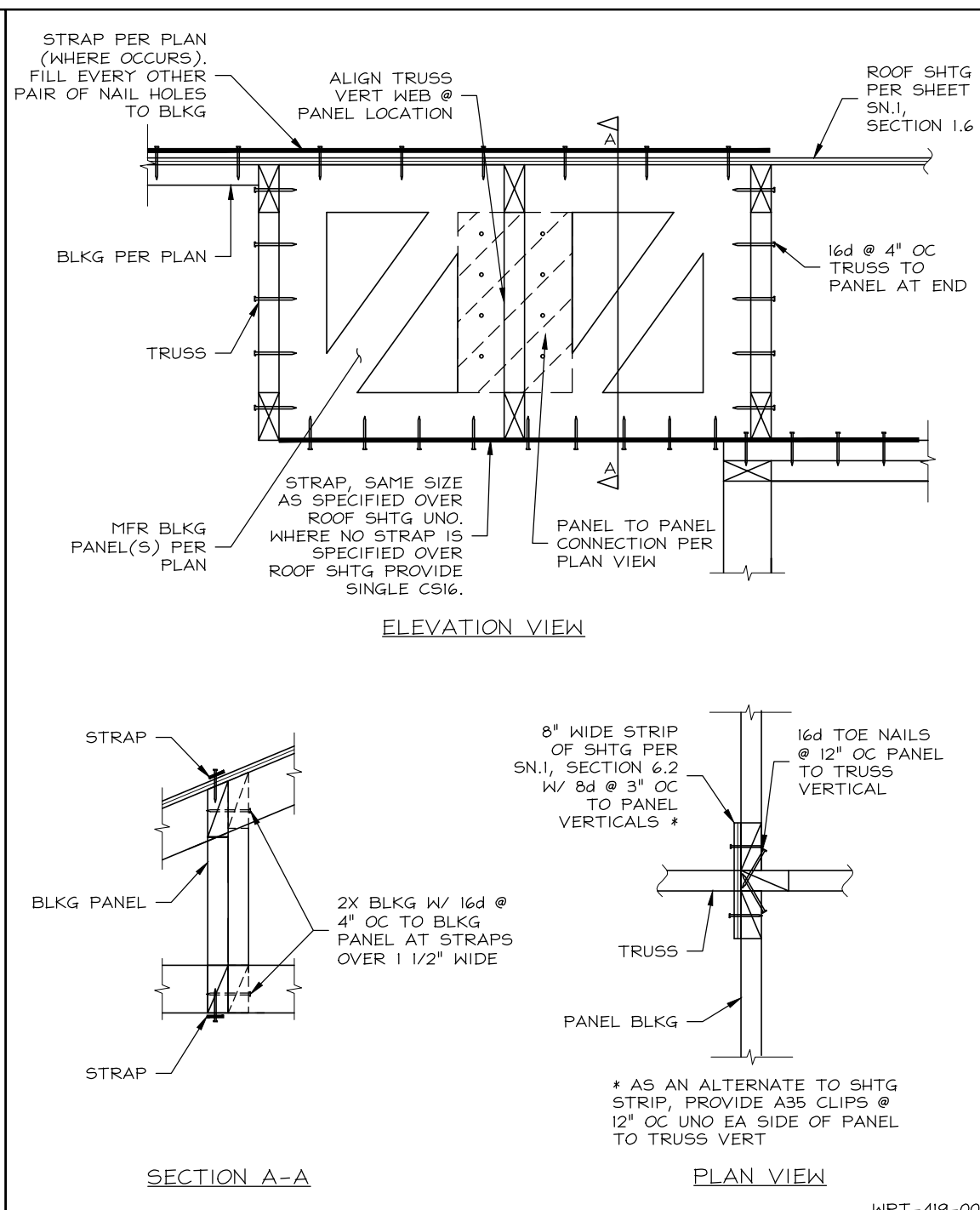
517 | STRAP TRUSS TO TOP PLATE/BEAM



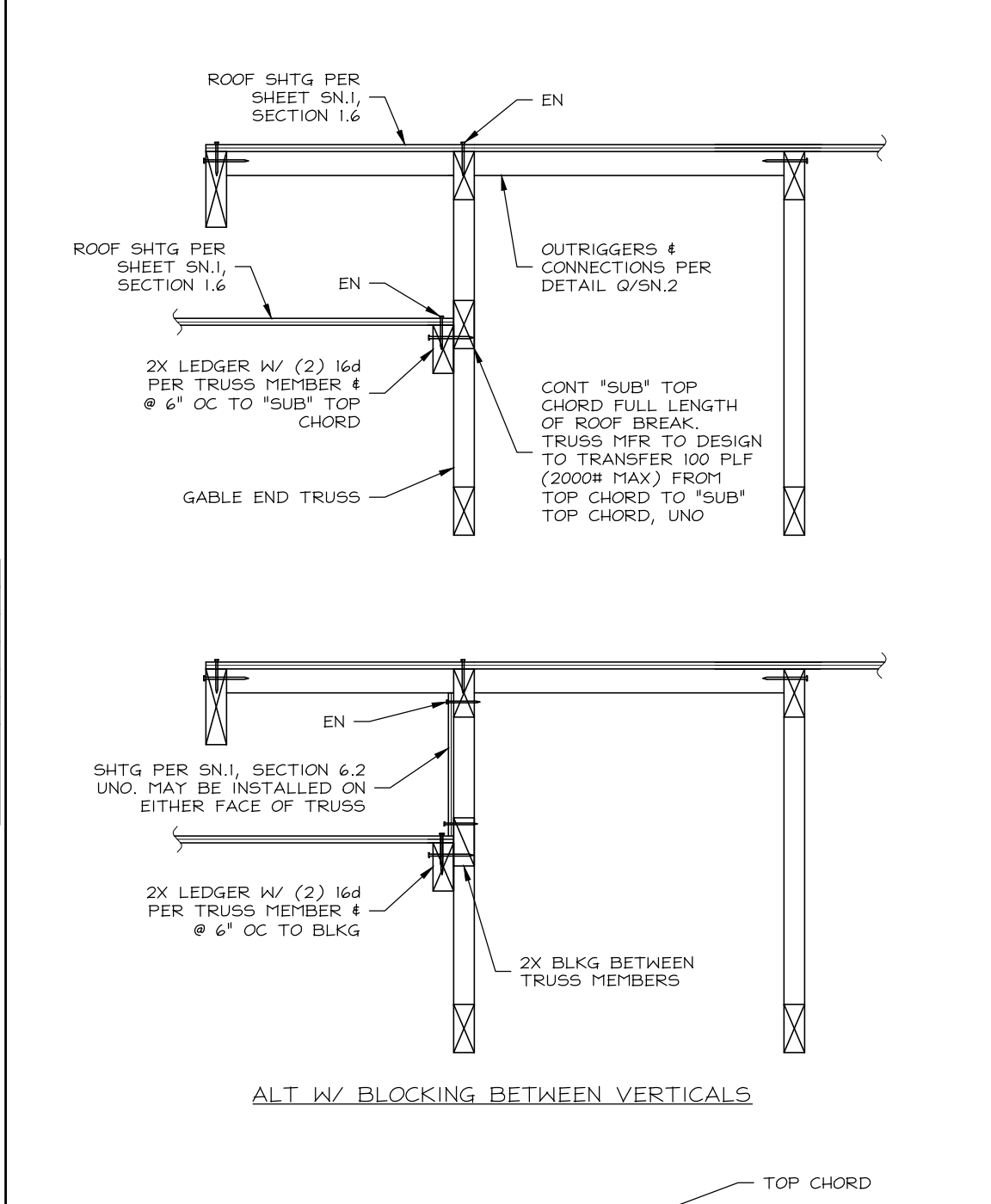
517 | RAKE WALL FRAMED ON LOW ROOF



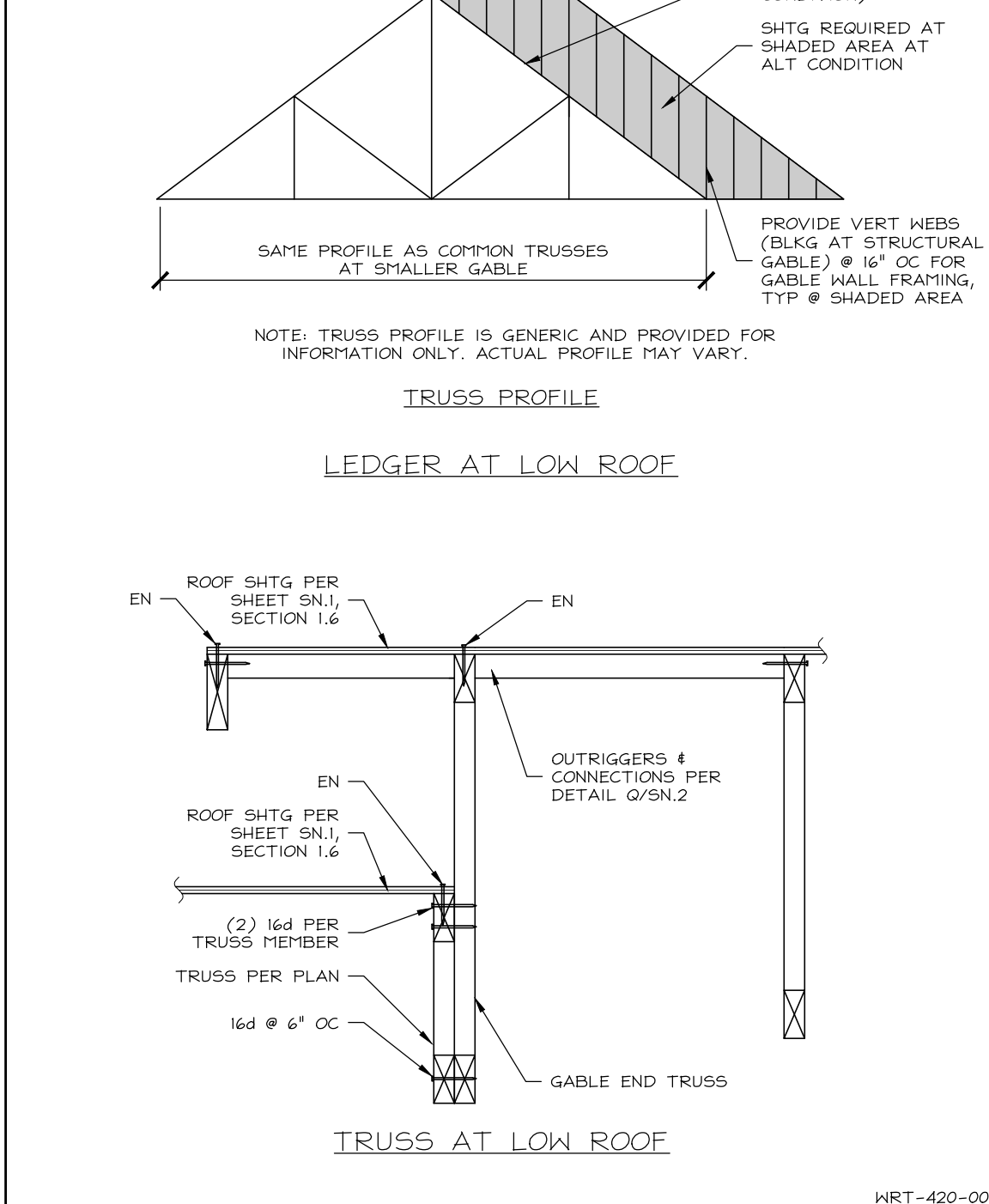
517 | STRAP TRUSS TO TOP PLATE/BEAM



517 | BLOCKING PANELS - MANUFACTURED



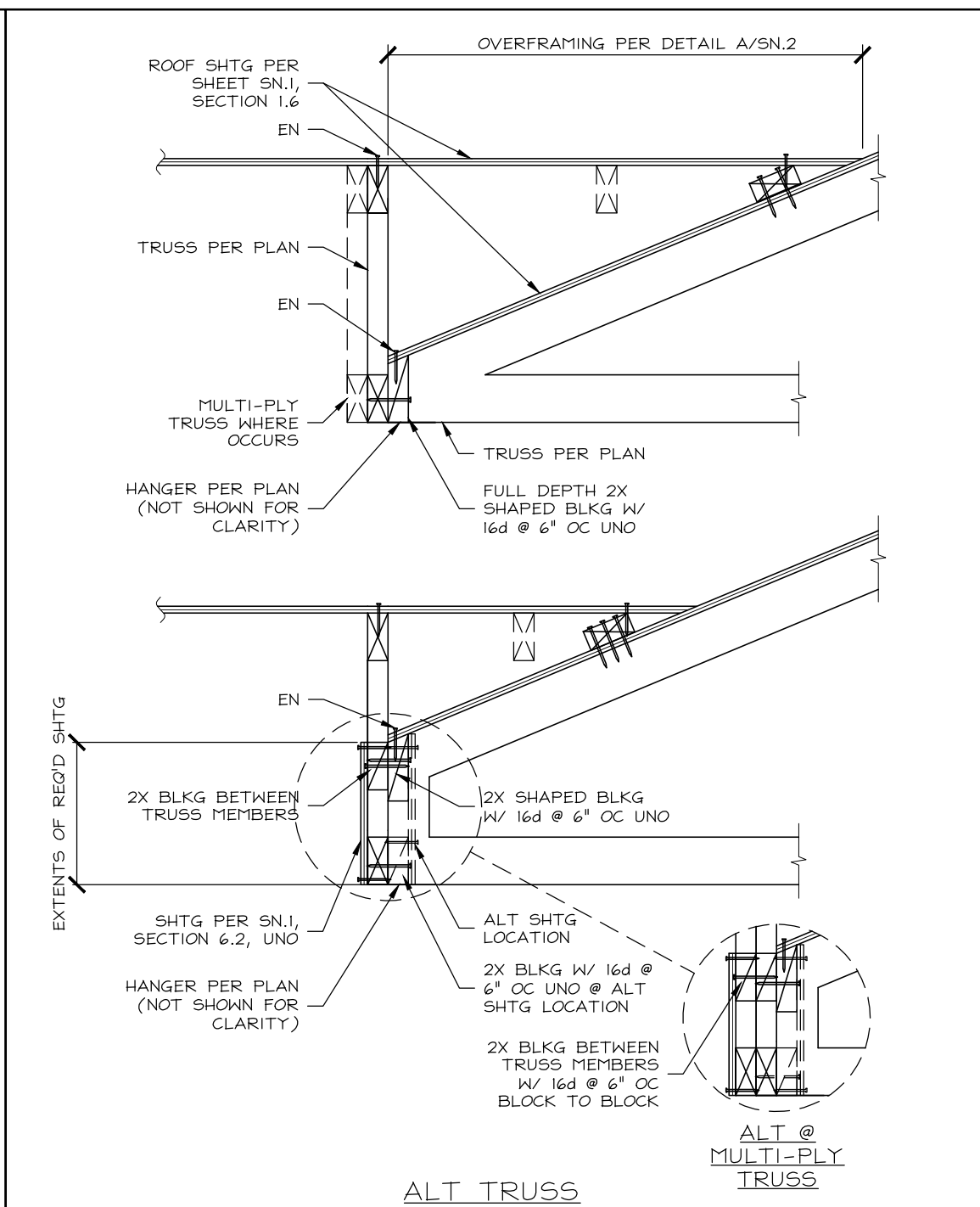
517 | TRUSS TO TRUSS CONNECTION



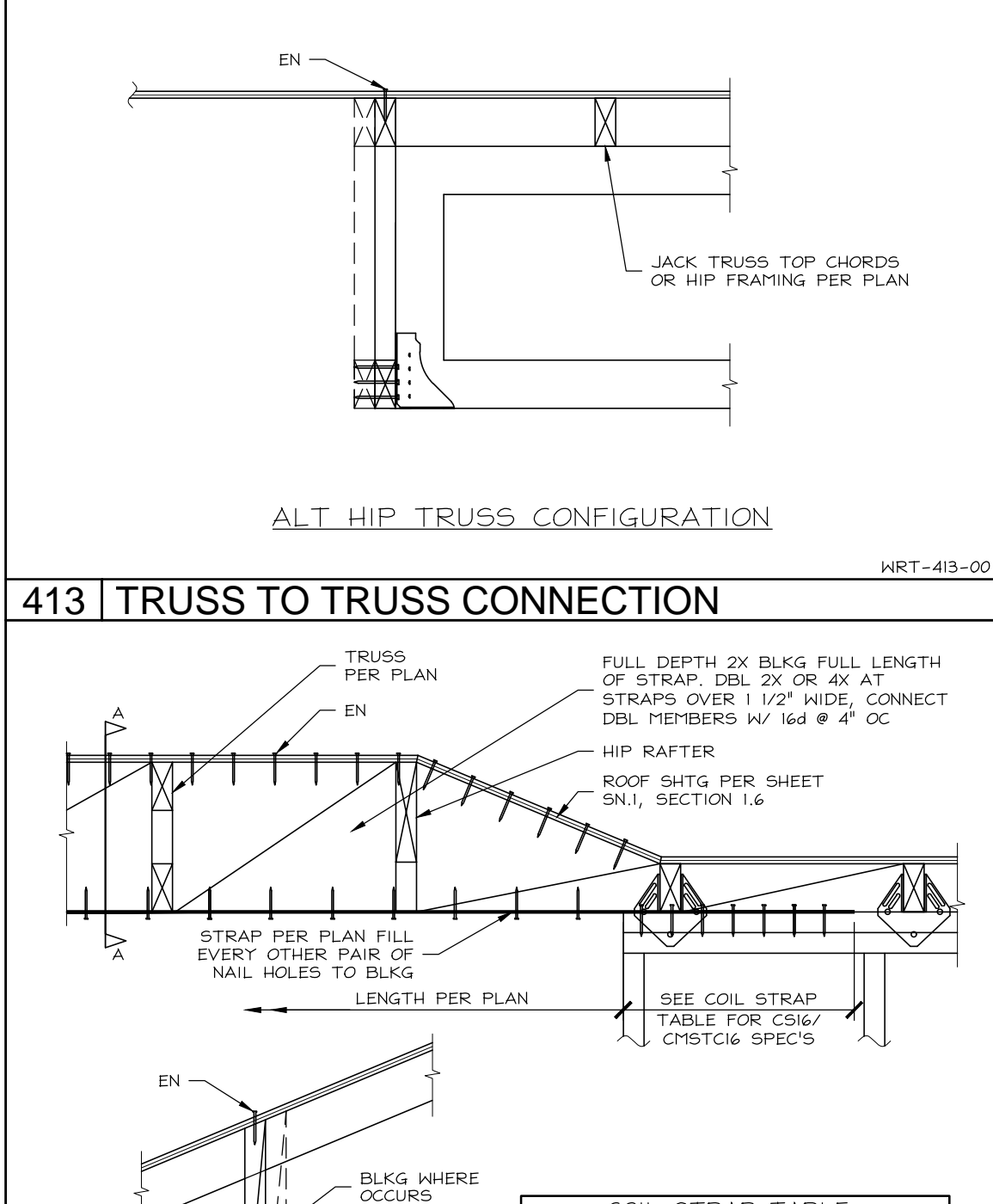
517 | TRUSS AT LOW ROOF



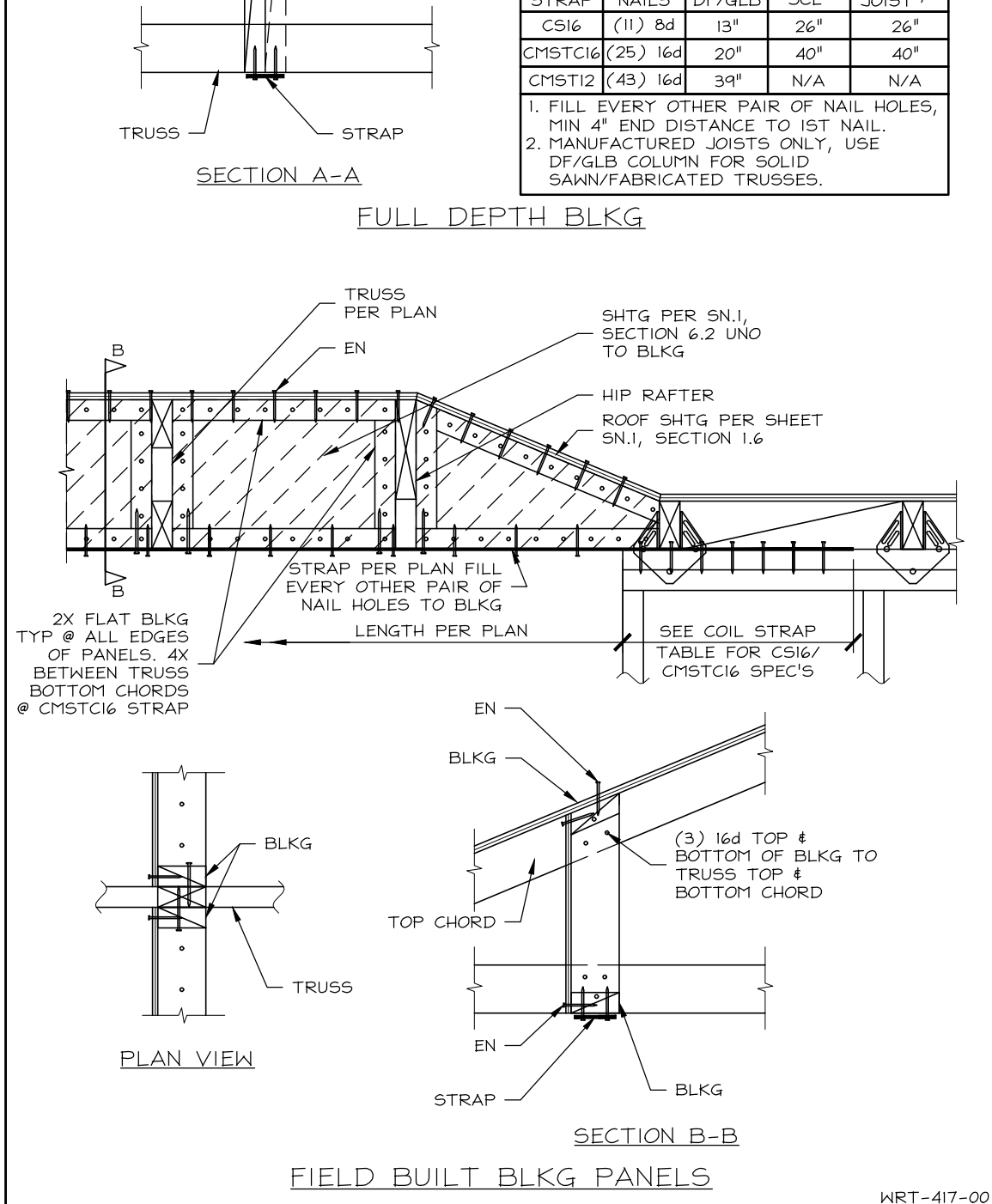
517 | STRAP AT FULL DEPTH BLOCKING



517 | ALT TRUSS CONFIGURATION



517 | ALT HIP TRUSS CONFIGURATION



517 | ALT H/V BLOCKING BETWEEN VERTICALS



517 | ALT H/V BLOCKING BETWEEN VERTICALS

FOR JURISDICTION USE:

Sacramento Structural Mechanical Electrical Plumbing Energy

Aliso Viejo San Ramon

harris & sloan

PROJECT: COTA VERA SWIM CLUB

CLIENT: CHULA VISTA, CA

DESIGNER: LK

DRAWN BY: GES

CHECKED BY: PJ

ISSUE DATE: 01-13-2023

REVISIONS:

PROJECT MANAGER: PJ

DESIGNER: LK

DRAWN BY: GES

CHECKED BY: PJ

ISSUE DATE: 01-13-2023

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL

STATE OF CALIFORNIA

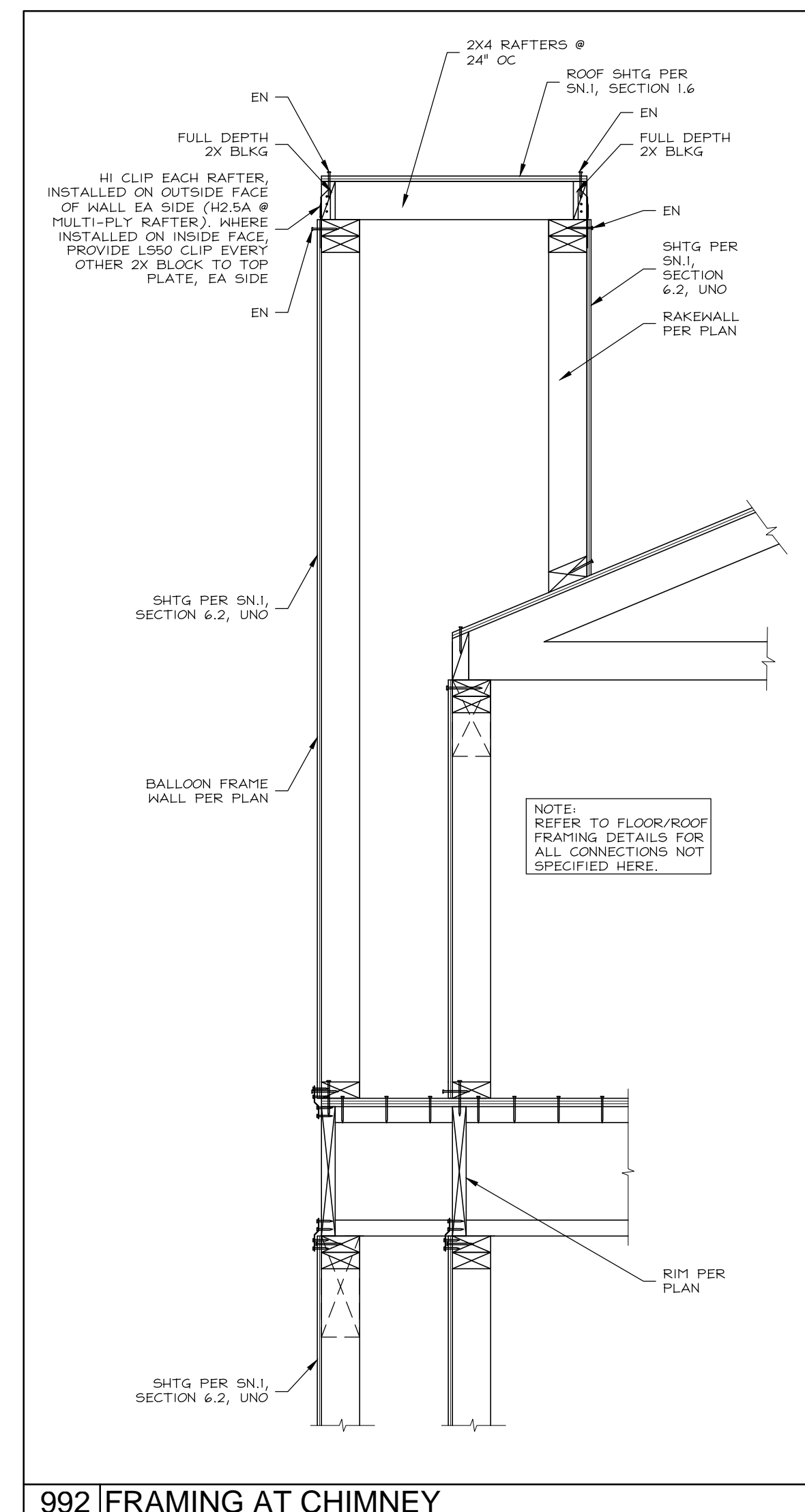
PLAN

STRUCTURAL DETAILS

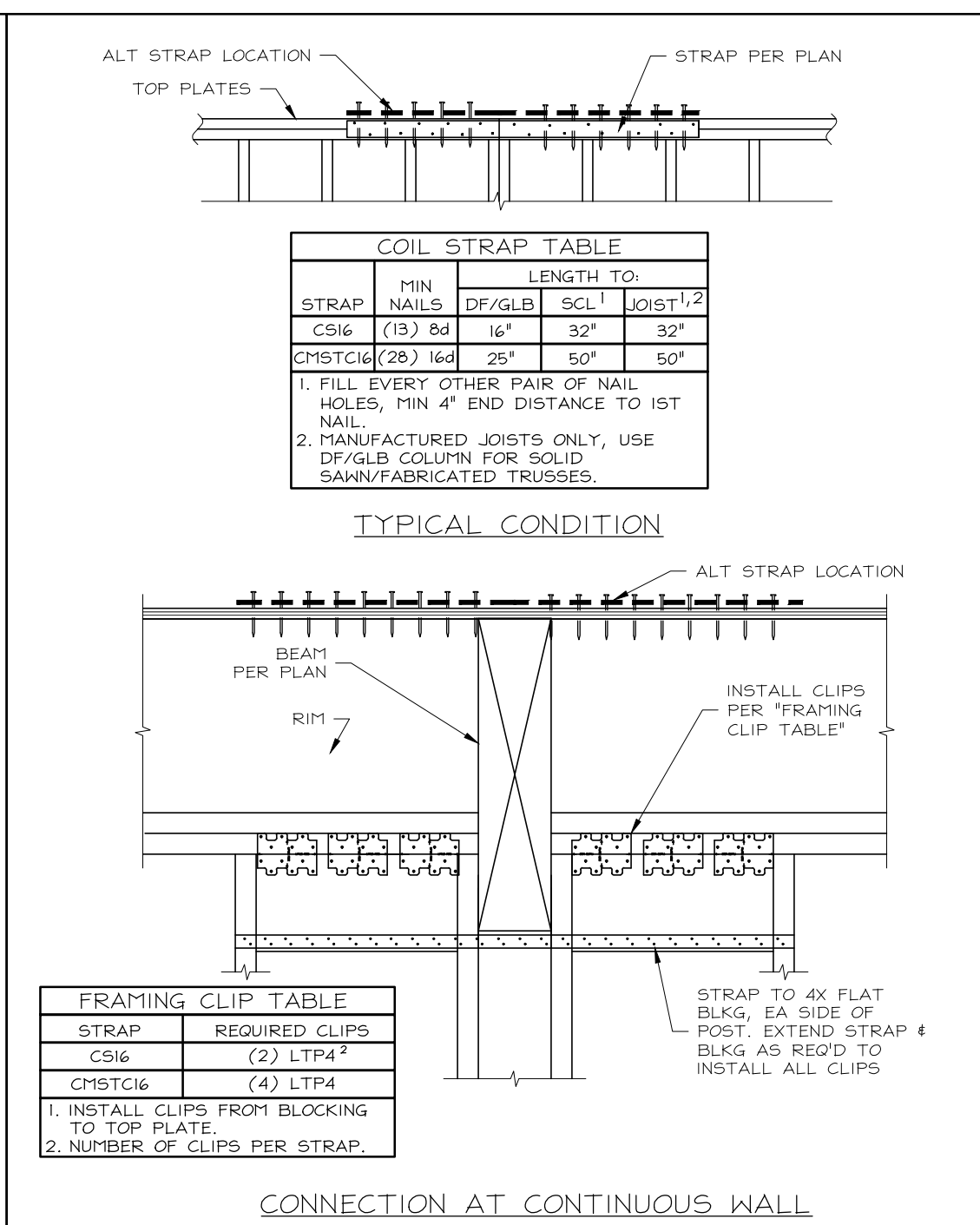
SCALE: 1/4" = 1'-0"

SHEET NUMBER: SD.2

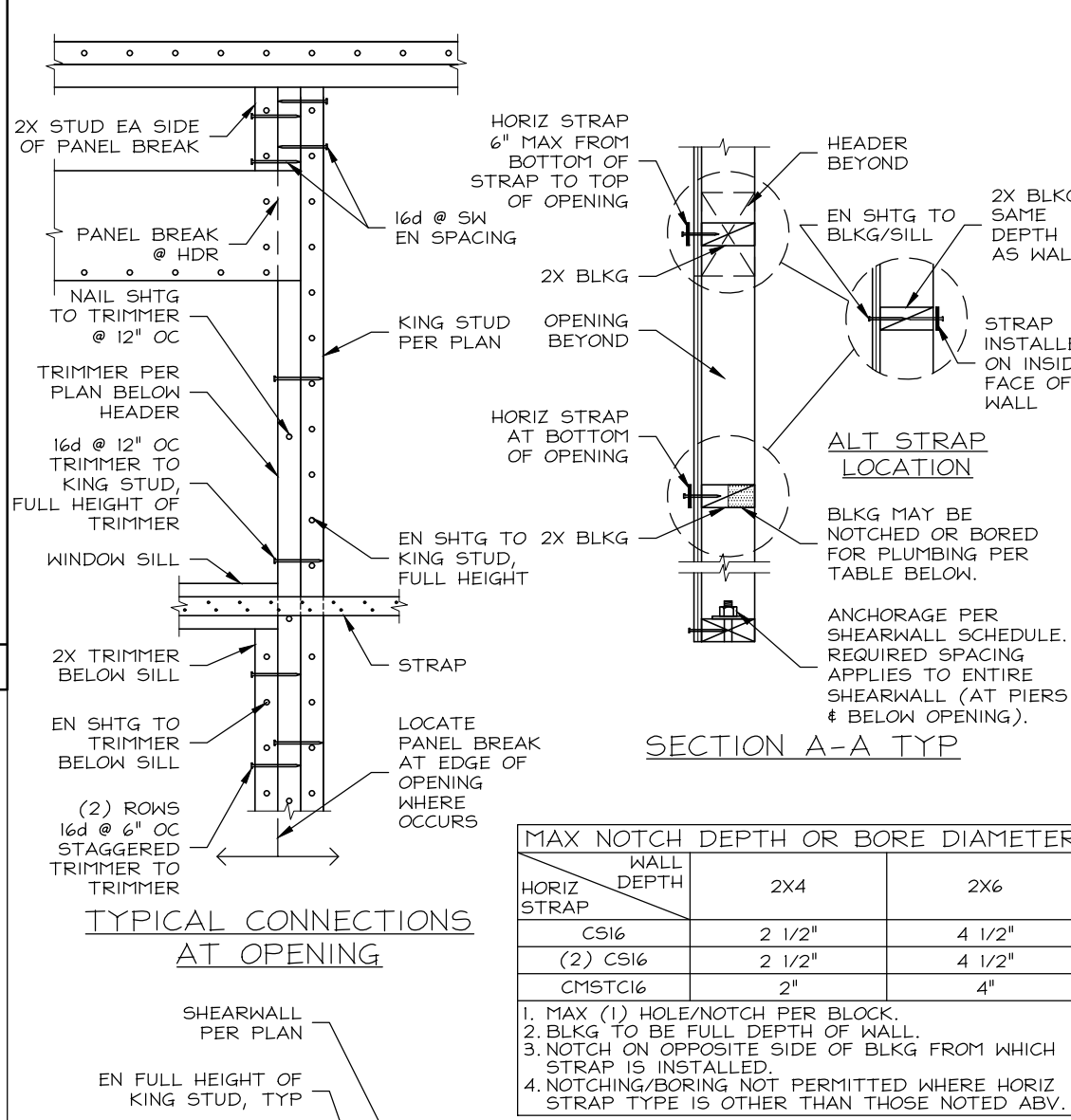
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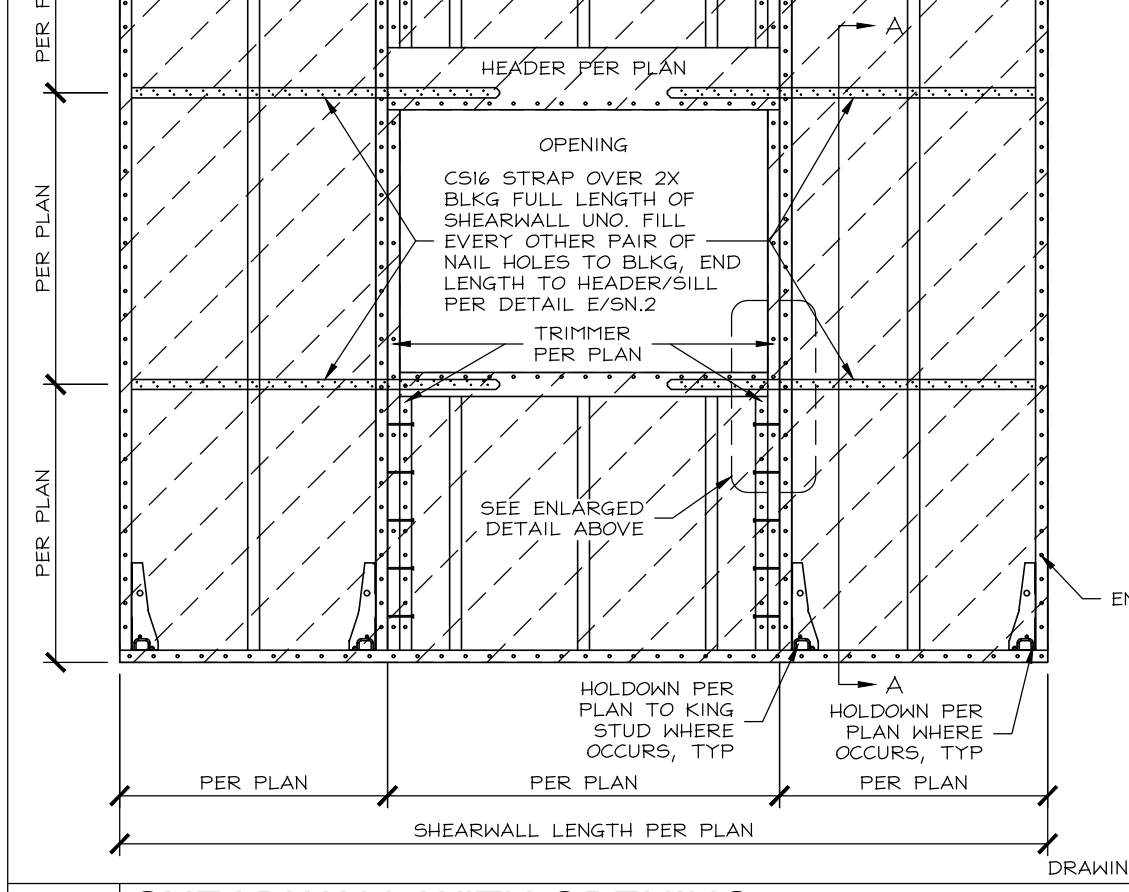
992 FRAMING AT CHIMNEY



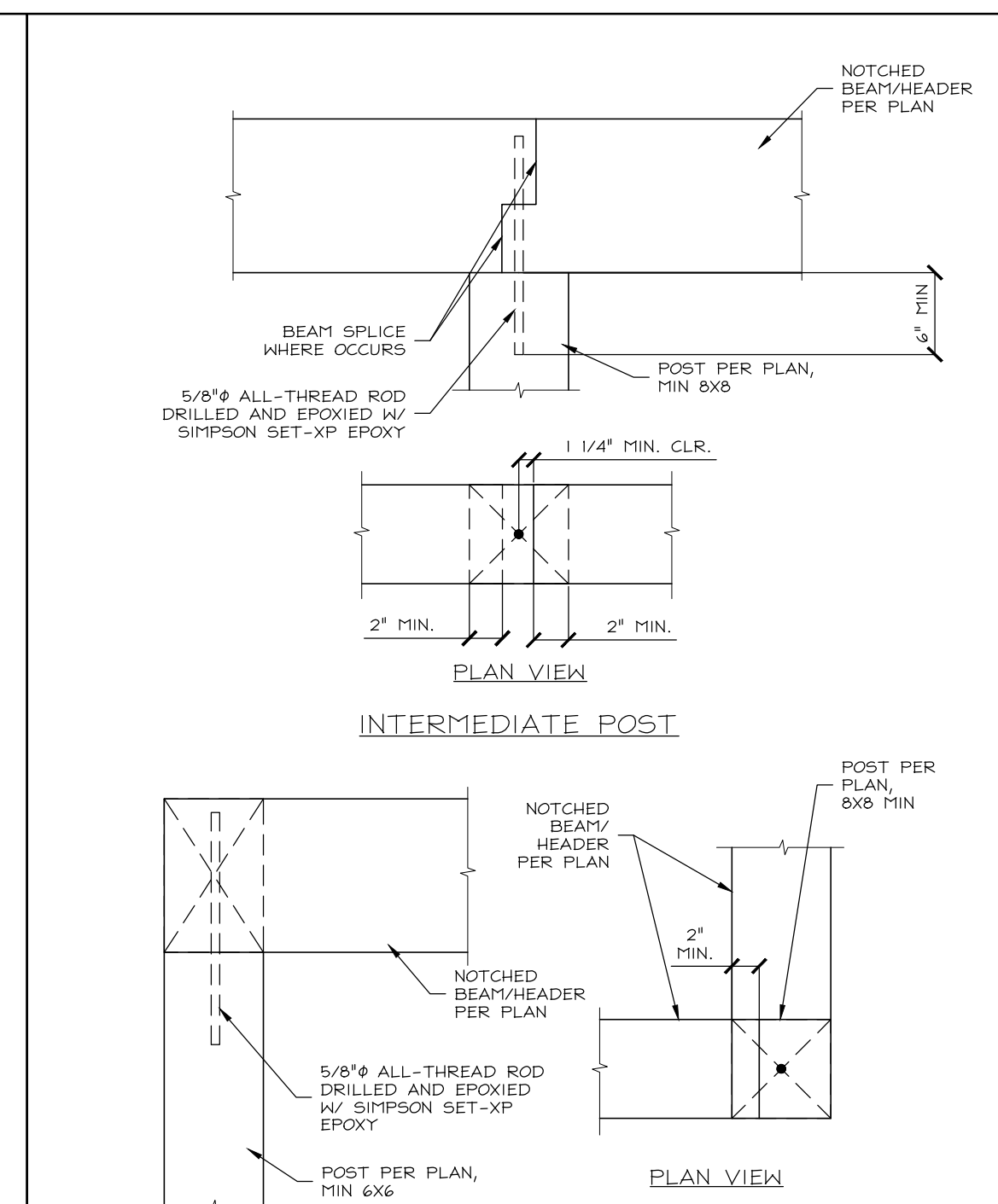
645 STRAP AT TOP PLATE BREAK



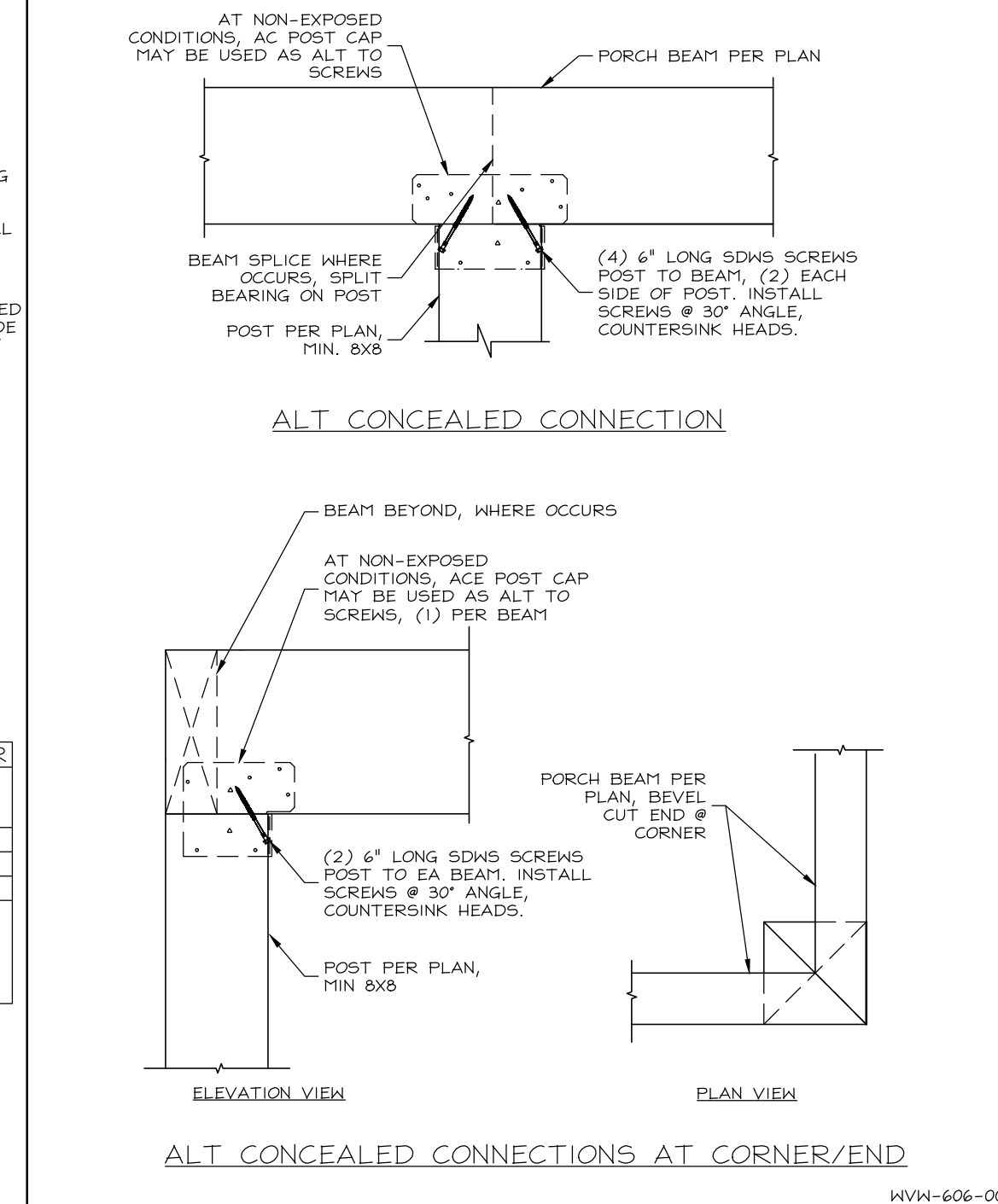
650 SHEARWALL WITH OPENING



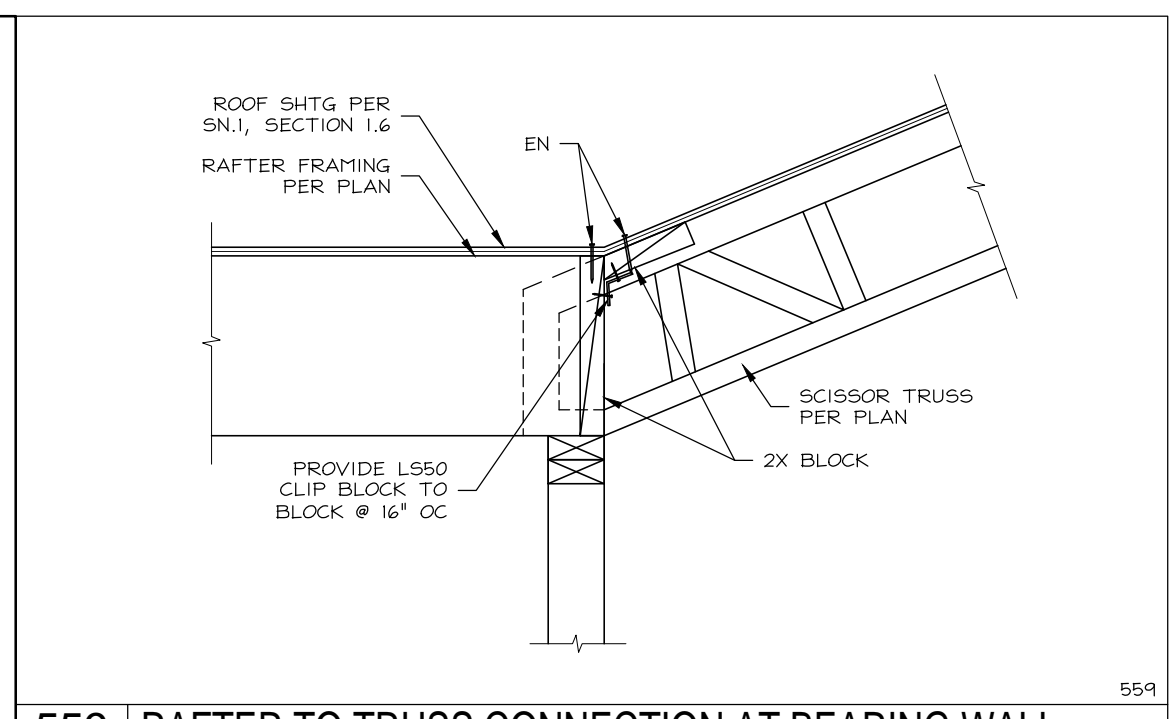
687 STEPPED CEILING CONNECTIONS



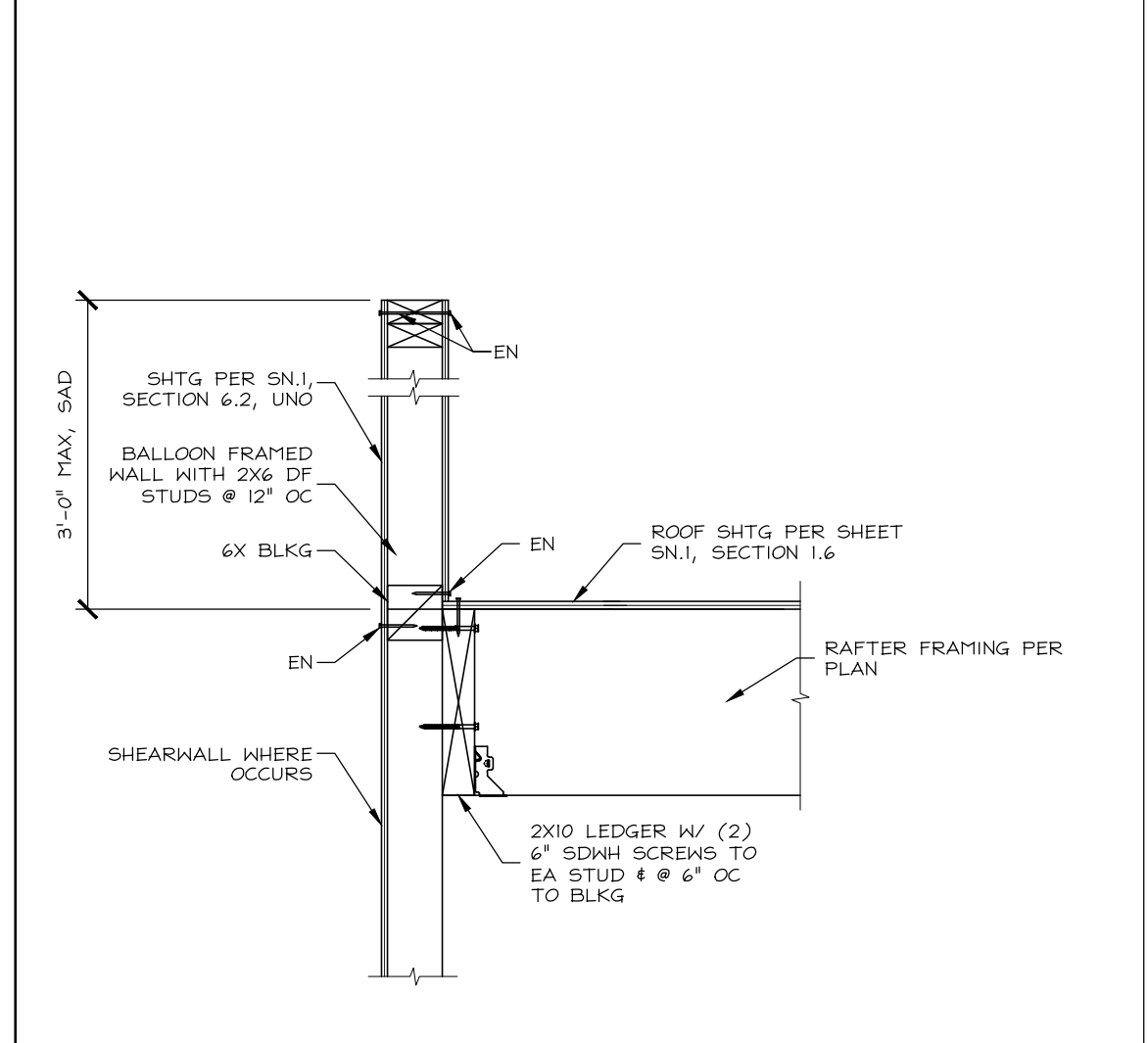
606 BEAM TO POST CONNECTION



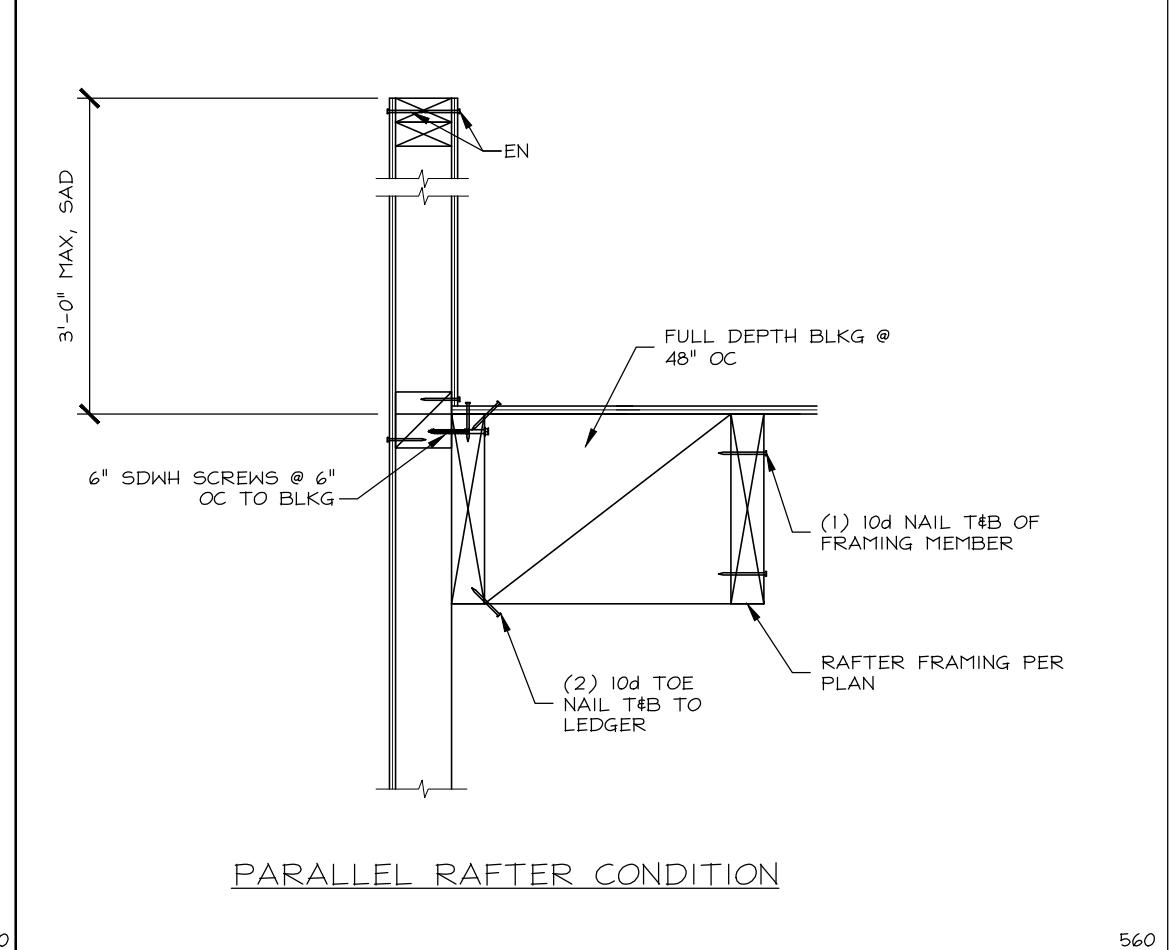
620 ARCHITECTURAL BRACKET SUPPORT



559 RAFTER TO TRUSS CONNECTION AT BEARING WALL



560 PARAPET FRAMING



560 PARAPET FRAMING

FOR JURISDICTION USE:

PROJECT: COTA VERA SWIM CLUB
 CLIENT: CHULA VISTA, CA

DESIGNER: LK
 DRAWN BY: GE5
 CHECKED BY: PJ
 ISSUE DATE: 01-13-2023

REVISIONS:

PROJECT MANAGER: PJ
 DESIGNER: LK
 DRAWN BY: GE5
 CHECKED BY: PJ
 ISSUE DATE: 01-13-2023

REVISIONS:

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

SHEET NUMBER: PLAN

STRUCTURAL DETAILS

SD.3

JOB NUMBER: HS22244

PROJECT: COTA VERA SWIM CLUB
 CLIENT: CHULA VISTA, CA

PROJECT MANAGER: PJ
 DESIGNER: LK
 DRAWN BY: GE5
 CHECKED BY: PJ
 ISSUE DATE: 01-13-2023

REVISIONS:

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

SHEET NUMBER: PLAN

STRUCTURAL DETAILS

SD.3

JOB NUMBER: HS22244

Sacramento
 Aliso Viejo
 San Ramon

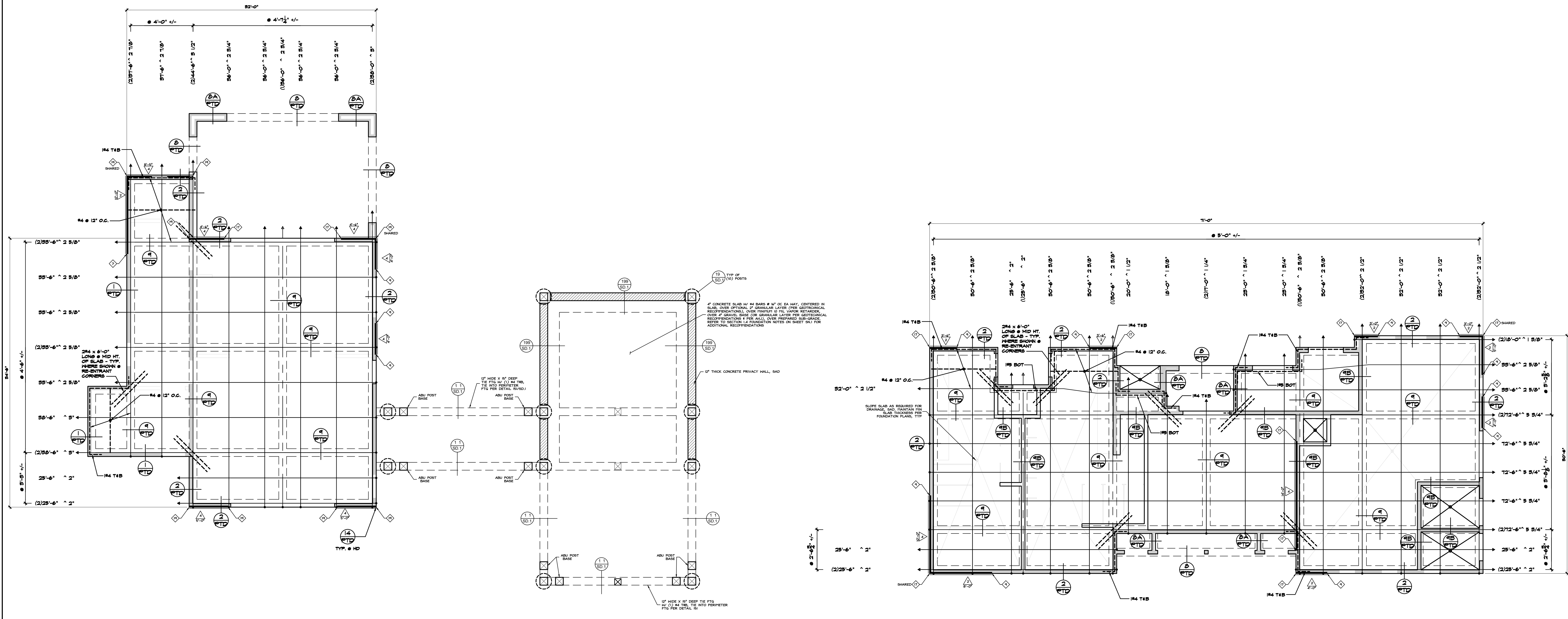
Structural
 Mechanical
 Electrical
 Plumbing
 Energy

harris & sloan
 toll free 800.877.1430
 www.harrisandsloan.com

COTA VERA SWIM CLUB
 CHULA VISTA, CA

HOMEFIELD CORPORATION
 1803 WILLOW CREEK SUITE 200
 CARLSBAD, CA 92008





POST-TENSION PLACEMENT PLAN SWIM CLUB

HOLDOWN SCHEDULE			
TYPE	SPACING/TYPE	HD TO POST CONNECTION	ANCHOR DESIGN LOAD ¹
◇	H04	4x (2) 200 (2) 1/2" SCREWS	5.9K
◇	H08	4x (2) 200 (2) 1/2" SCREWS	5.9K
◇	H04	4x (2) 200 (2) 1/2" SCREWS	5.9K
◇	H04	4x (2) 200 (2) 1/2" SCREWS	5.9K

1. SEE DETAIL CORNER FOR TYPICAL HOLDOWN INSTALLATION.
 2. HOLDOWN POSTS TO MATCH WALL DEPTH, HERE, AS A 2" SECTION IS SHOWN, INSTALL AND 3" IF WALL, 4" IF 2" WALL.
 3. UPLIFT CAN BE APPLIED IN UPWARD OR DOWNWARD DIRECTION.

NOTES:
 1. HOLDOWN HARDWARE MUST BE IN PLACE PRIOR TO FOUNDATION IMPOSITION.
 2. SEE SHEET PTD FOR GENERAL NOTES AND SPECIAL CONSTRUCTION NOTES.
 3. REFER TO DETAIL L417D FOR HOLDOWN ANCHOR BOLT AND REINFORCEMENT INFORMATION.
 4. VERIFY WITH STRUCTURAL PLANS FOR SHEARWALL HOLDOWN AND ANCHOR BOLT LOCATIONS.
 5. VERIFY WITH ARCHITECTURAL PLANS FOR SLAB DIMENSIONS.
 6. VERIFY WITH ARCHITECTURAL PLANS FOR REINFORCEMENT.
 7. MISC. #4 TIE REINFORCEMENT SHALL HAVE MINIMUM 18" TAIL.
 (1) INDICATES TENSION TOP & BOTTOM OF BEAM
 (2) INDICATES TENSION AT BOTTOM OF BEAM
 (3) INDICATES TENSION AT TOP OF BEAM
 --- INDICATES TENSION ELONGATION
 --- INDICATES TENSION LENGTH
 --- INDICATES TENSION SPACING
 @ X'-X" +/-

REVISIONS		NO.	DATE	BY
		1		
		2		
		3		
		4		

DWG. INFO.	DATE
DRAWN BY: IRV	01/19/25
CHECKED BY: IRV	
DESIGNED BY: IRV	
APPROVED BY: IRV	

WADDELL & ASSOCIATES
 519 10th St.
 HUNTINGTON BEACH, CA. 92647
 telephone
 714-334-5441



PROJECT: COTA VERA SWIM CLUB
 OTAY RANCH VILLAGE 8 WEST
 LOCATION: CHULA VISTA, CA
 BUILDER: HOMEFED CORPORATION
 INFORMATION THIS SHEET:
 SHT. NO. 11
 JOB NO. 23-01
 SCALE: 3/8" = 1'-0"

POST-TENSION FOUNDATION & PLACEMENT PLAN

STANDARD NOTES AND SPECIFICATIONS

3.7 CALGREEN CODE MANDATORY MEASURES REQUIREMENTS

SECTION 5.402 BUILDING MAINTENANCE AND OPERATION
5.402.1 THERMOSTATS SHALL BE PROGRAMMABLE SET BACK TYPE AND HAVE THE CAPABILITY OF TERMINATING COOLING AT 75° F AND HEATING AT 70° F. THERMOSTATS SHALL HAVE AN ADJUSTABLE RANGE UP TO 10° F.
5.402.2 COMMISSIONING (CM) NEW BUILDINGS 10,000 SQUARE FEET AND OVER: FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PHASES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY FOR OCCUPANCIES THAT ARE NOT REGULATED BY CMSPR OR RELATED SYSTEMS AND OCCUPANCIES THAT ARE NOT REGULATED BY THE CALIFORNIA ENERGY CODE SECTION 100.0 SCOPE. ALL REQUIREMENTS IN SECTIONS 5.402.2 THROUGH 5.402.2.8 SHALL APPLY.
NOTE: FOR ENERGY RELATED SYSTEMS UNDER THE SCOPE (SECTION 100) OF THE CALIFORNIA ENERGY CODE, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEMS AND CONTROLS, AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO CALIFORNIA ENERGY CODE SECTION 100.0 FOR COMMISSIONING REQUIREMENTS.
5.402.3 TESTING AND ADJUSTING: NEW BUILDINGS LESS THAN 10,000 SQUARE FEET: TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 503.1.

SECTION 5.504 POLLUTANT CONTROL
5.504.1 TEMPORARY VENTILATION: THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONTROL THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-MPM, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.2-MPM. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF COVERED WITH TAPE, PLASTIC SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REMOVE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
5.504.3 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. HEVY B 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. EXCEPTION: EXISTING MECHANICAL EQUIPMENT
5.504.3.1 LABELING: INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE HEVY RATING.

SECTION 5.505 INDOOR MOISTURE CONTROL
5.505.1 INDOOR MOISTURE CONTROL: BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, TITLE 24, PART 2, SECTIONS 052 (VENTILATION) AND CHAPTER 4 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES, SEE SECTION 5.407.2 OF THIS CODE.

SECTION 5.506 AIR QUALITY AND EXHAUST
5.506.1 OUTDOOR AIR DELIVERY: FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 100.1 (REQUIREMENTS FOR VENTILATION) OF THE CALIFORNIA ENERGY CODE OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CBC, 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 100.0(C)(4).

SECTION 5.508 OUTDOOR AIR QUALITY
5.508.1 OZONE DEPLETION AND GLOBAL WARMING REDUCTIONS: INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.
5.508.2 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.

2.6 THERMOSTATS

- 1. GENERAL REQUIREMENTS:
1.1. THERMOSTATS SHALL BE PROGRAMMABLE SET BACK TYPE AND HAVE THE CAPABILITY OF TERMINATING COOLING AT 75° F AND HEATING AT 70° F. THERMOSTATS SHALL HAVE AN ADJUSTABLE RANGE UP TO 10° F.
1.2. UNLESS INDICATED OTHERWISE, RULL HIRN THREE WIRE BEEHIVE THERMOSTAT AND CONDENSER TO ALLOW FOR FUTURE CHANGES. FOR BEST RESULTS, CENTRALLY LOCATE THERMOSTAT IN ZONE NOT NEAR OPERABLE WINDOW OPENINGS.
1.3. WHERE SOLAR PANELS ARE NOT INSTALLED AND SOLAR RADIATION ZONE IS NOT PROVIDED, INSTALL DEMAND RESPONSE THERMOSTAT TO COMPLY WITH SOLAR READY ZONE EXISTION.
2. CONSTRUCTION REQUIREMENTS:
2.1. MOUNT THERMOSTAT BETWEEN 4'-6" - 5'-0" (2'-0" AT ACCESSIBLE DWELLINGS) ABOVE FINISH FLOOR HEIGHT, ALIGNED WITH THE CENTERLINE OF THE THERMOSTAT.
2.2. AT BUILDER OPTION, THERMOSTAT MAY BE RELOCATED WITHIN THE ZONE IT CONTROLS.

3.1 SUPPLY AND RETURN GRILLES

- 1. GENERAL REQUIREMENTS:
SUPPLY, RETURN, 4 TRANSFER GRILLES SHALL BE OF THE SIZE, LOCATION, TYPE, AND BLOW PATTERN INDICATED ON PLAN.
1.1. EXHAUST GRILLES, WHERE USED, SHALL BE TTUS 450 OR EQUAL.
1.2. WHERE STAPPED FACE RETURNS ARE USED IN PLACE OF RETURN AIR GRILLE SPECIFIED, THE CONTRACTOR SHALL INSTALL A LARGER SIZE OR ADDITIONAL GRILLES TO MAINTAIN AN EQUIVALENT CREEP EFFECTIVE AREA, REFER TO MANUFACTURER'S DATA FOR SIZING.
1.3. ALTERNATE MANUFACTURER'S PRODUCTS MAY BE USED. CONTRACTOR SHALL SELECT SUPPLY GRILLE ALTERNATES BASED UPON THE REQUIREMENT DROP OF 0.02" WATER COLUMN AT DEVICE AND MAX FLOW VELOCITY OF 700 FEET PER MINUTE. ALL PRODUCTS SHALL BE PERFORMED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70.
2. CONSTRUCTION REQUIREMENTS:
2.1. LOCATE SUPPLY 4 RETURN AIR GRILLES MIN 3'-0" FROM SMOKE/CO DETECTOR, TYPICAL AT ALL LOCATIONS. COORDINATE SMOKE/CO DETECTOR ADJUSTMENTS WITH ARCHITECT/ELECTRICAL ENGINEER PRIOR TO CONSTRUCTION.
3. ALTERNATES 4 MODIFICATIONS:
3.1. ALTERNATE LOCATIONS
3.1.1. LOCATION OF GRILLES ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED TO MAINTAIN REQUIRED CLEARANCES. PROVIDED DUCT LENGTH IS NOT INCREASED BY MORE THAN 10%. CONTRACTOR SHALL VERIFY THAT ADJUSTED LOCATION DOES NOT NEGATIVELY IMPACT AIRFLOW.
3.1.2. ADJUSTED LOCATIONS TO BE APPROVED BY BUILDER FOR AESTHETIC PURPOSES.

3.2 INTAKE DUCTS

- 1. GENERAL REQUIREMENTS:
1.1. ELECTRICAL CONTRACTOR WILL FURNISH A SEPARATE DISCONNECT SWITCHING DEVICE AND INSTALL ALL COMPONENTS FOR THIS IN THE SAME LOCATION AS THE WHOLE BUILDING VENTILATION SYSTEM.
2. MATERIALS:
2.1. 2x 6x4 HARD PIPE TO ROOF JACK.
2.2. PROVIDE INTAKE DAMPER 4 SCREEN OPENING PER SECTION 3.3.
2.3. PROVIDE BACKDRAFT DAMPER AT INTAKE DUCT WHERE CONNECTED TO SUPPLY/RETURN DUCT DAMPER TO BE INSTALLED BETWEEN INTAKE FAN AND SUPPLY/RETURN DUCT OR BE INTEGRATED INTO FAN SYSTEM
3. CONSTRUCTION REQUIREMENTS:
3.1. FRESH AIR INTAKE DUCT TO MAINTAIN MIN 10'-0" CLEARANCE FROM ANY EXHAUST OR HASTE VENT.

3.3 VENTILATION AND EXHAUST DUCTS

WHOLE BUILDING VENTILATION
1. WHOLE BUILDING VENTILATION MUST BE PROVIDED PER ASHRAE 62.1.
2. BUILDING VENTILATION PER LOCAL EXHAUST REQUIREMENTS.
3. WHERE OCCURS OR AT BUILDERS REQUEST, TRANSFER GRILLES MAY BE REPLACED WITH IDENTICAL SIZED JUPPER DUCT IN CEILING TO ELIMINATE CONFLICTS WITH DOOR HINGERS, HOLDINGS, CEILING TREATMENTS, ETC.

EXHAUST DUCTS
1. EXHAUST DUCTS SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEET METAL DUCT WITH SMOOTH INTERIOR SURFACES. ALL DUCTS SHALL BE CONSTRUCTED PER CBC CHAPTER 6.
2. LOCAL EXHAUST VENTILATION FOR BATHROOMS MUST BE AS SCHEDULED ON THE DRAWINGS, FOR A BATH FAN EITHER THROUGH ONSITE TESTING OR USING THEIR CERTIFIED RATED FLOW AT 0.25" WATER COLUMN, AND BE ENERGY STAR RATED.
2. BATH FANS MUST BE RATED AT 3.0 SONES OR LESS (OR BE REPLACED BY A PICKUP GRILLE FOR A RETOTE FAN) AND BE ENERGY STAR RATED.

3.4 SUPPLY AND RETURN DUCTS

- 1. ALL DUCTWORK SHALL BE HARD DUCT.
2. WHERE SUPPLY AIR DUCTS AND PLENUMS THAT ARE DESIGNED TO OPERATE AT STATIC PRESSURES 25" +/- WATER COLUMN ARE LOCATED OUTSIDE OF CONDITIONED SPACE OR IN RETURN PLENUMS, THEIR JOINTS SHALL BE SEALED IN ACCORDANCE WITH CLASS C, AS DEFINED IN SPACMA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AND CBC CHAPTER 6.
3. INSULATE ALL UNLINED INTERIOR SUPPLY AND RETURN DUCTWORK WITH FIBERGLASS INSULATION. SEAL ALL JOINTS PRIOR TO INSULATING. SEE TITLE 24 ENERGY DOCUMENTS FOR INSULATION REQUIREMENTS.
4. ENSURE THAT FLEXIBLE DUCTS ARE TO MAINTAIN A MINIMUM LENGTH OF 5' AND A MINIMUM RADIUS AT THE CENTERLINE OF THE DUCT, MINIMUM IN THE DIAMETER OF THE DUCT TURN OR SUPPLY SHEET METAL ELBOWS AS REQUIRED.
5. ALL DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
6. MATERIALS EXPOSED RETURN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50.
7. DUCT LINING MATERIALS SHALL HAVE A HOLD, HUMIDITY AND EROSION RESISTANT SURFACE THAT MEETS THE REQUIREMENTS OF UL 94.
8. BALANCE AIR FLOW TO ALL AIR INLETS AND OUTLETS TO AIR QUANTITIES SHOWN ON FLOOR PLAN.
9. INTIAL FILTER PRESSURE DROP SHALL NOT EXCEED 0.1" WATER COLUMN WITH THE USE OF A MINIMUM 1" TAPE.
10. DUCT OPENINGS AND ALL OTHERS RELEASED AIR DISTRIBUTION COMPONENT OPENINGS TO BE COVERED WITH TAPE, PLASTIC, OR OTHER METHODS UNTIL FINAL STARTUP HVAC EQUIPMENT.
11. MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS ARE REQUIRED FOR COMFORT BALANCING.
12. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE 4 ADJUSTABLE VOLUME DAMPERS (SHOWN OR NOT) AS REQUIRED TO BALANCE THE SYSTEMS AND MAINTAIN A NOISE CRITERIA LEVEL NOT TO EXCEED 25-35.
13. SEE ARCHITECTURAL PLANS AND ACOUSTICAL REPORT (WHERE OCCURS) FOR ACOUSTICAL REQUIREMENTS.
14. RETURN DUCT LENGTH SHALL NOT EXCEED 30 FEET AND SHALL CONTAIN NO MORE THAN 180 DEGREES OF BEND. IF THE TOTAL BENDING EXCEEDS 90 DEGREES, ONE BEND SHALL BE A METAL ELBOW.
15. FABRICATE AND INSTALL DUCTWORK IN ACCORDANCE WITH THE LATEST EDITION OF ASHRAE GUIDE, SPACMA MANUALS AND CBC CHAPTER 6.
16. ALL FACTORY MADE DUCTWORK TO BE CLASS 1 PER CBC 602.4

3.5 NONRESIDENTIAL PROJECT GENERAL REQUIREMENTS

START-UP REQUIREMENTS
1. ALL MAJOR EQUIPMENT START-UP SHALL BE PERFORMED BY EQUIPMENT MANUFACTURE, THEIR REPRESENTATIVE, OR FACTORY TRAINED INSTALLERS. ALL OTHERS MUST GET PRIOR AUTHORIZATION BEFORE PERFORMING EQUIPMENT START-UP.

TESTING AND BALANCING (TAB)
1. ALL INSTALLED HVAC SYSTEMS WILL REQUIRE SYSTEMS TESTING AND BALANCING. TAB SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, AGENT OF CONTRACTOR, BALANCING COMPANY, MANUFACTURE, OR MANUFACTURE REPRESENTATIVE. ALL TAB WORK SHALL BE PERFORMED BY INDIVIDUALS EXPERIENCED AND CAPABLE OF PERFORMING TESTING AND BALANCING PER TAB REQUIREMENTS AND GREEN CODE SECTIONS 5.404.3.
2. SYSTEMS SHALL BE TESTED AND BALANCED PER TAB REQUIREMENTS AND GREEN CODE SECTIONS 5.404.3.
3. SYSTEM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES FROM TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROTOCOL STANDARDS, ASHRAE 154, AND RELATED REQUIREMENTS PER TAB.
4. HVAC BALANCING SHALL BE COMPLETED IN ACCORDANCE WITH TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROTOCOL STANDARDS, ASHRAE 154, AND RELATED REQUIREMENTS PER TAB.
5. PROVIDE A FINAL REPORT OF TESTING RESULTS AFTER COMPLETION OF TESTING, ADJUSTING, AND BALANCING PER GREEN CODE 5.404.4.
6. PROVIDE A COPY OF ALL INSPECTIONS VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY PER GREEN CODE 5.404.5.

OPERATION AND MAINTENANCE (OM) MANUAL
1. PROVIDE BUILDING OWNER DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OR WARRANTIES FOR EACH SYSTEM PER GREEN CODE 5.404.5.

CONSTRUCTION NOTES
1. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF SPACE CONDITIONING IS NECESSARY AND WITH REQUIRED AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY AFTER CONSTRUCTION PER GREEN CODE 5.504.1 AND WITH REQUIRED AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY AFTER CONSTRUCTION PER GREEN CODE 5.504.1.
2. INSTALLATION OF HVAC OR REFRIGERATION EQUIPMENT SHALL COMPLY WITH THE OZONE DEPLETION AND GREEN CODE 5.508.2.
3. DO NOT INSTALL HVAC OR REFRIGERATION EQUIPMENT THAT CONTAIN CHLOROFLUOROCARBONS (CFC) OR HALONS.

INDOOR MOISTURE CONTROL AND INDOOR AIR QUALITY
1. HVAC SYSTEMS SHALL PROVIDE MINIMUM EXHAUST OR VENTILATION REQUIRED TO MEET TAB INDOOR MOISTURE REQUIREMENTS.
2. HVAC SYSTEMS SHALL PROVIDE MINIMUM OUTSIDE VENTILATION AIR AS NEEDED TO MEET TAB VENTILATION REQUIREMENTS.
3. FOR BUILDING THAT HAVE CARBON DIOXIDE MONITORING (CO2) FOR DEMAND CONTROL VENTILATION, SENSORS AND CONTROLS SHALL BE PROVIDED AND INSTALLED FOR A FULLY FUNCTIONAL SYSTEMS PER THE TAB VENTILATION REQUIREMENTS.
4. PROVIDE MINIMUM HEVY B FILTERS FOR ALL OUTSIDE AIR AND RETURN AIR. FILTERS TO BE CLEARLY LABELED WITH FILTRATION RATINGS.

3.6 PROJECT BASIS OF DESIGN AND COMMISSIONING

BASIS OF DESIGN
1. THESE PROJECT DOCUMENTS INCLUDING THE SHER-T24, CALCULATION PACKAGES AND REPORTS SHALL BE CONSIDERED THE PROJECT BASIS OF DESIGN.
2. THE CONTRACTOR SHALL VERIFY THAT THE DESIGN INTENT HAS BEEN SELECTED BASED ON PERFORMANCE, RELIABILITY AND PROJECT SUITABILITY.
3. THESE DOCUMENTS REPRESENT THE DESIGN INTENT THAT THE CONTRACTOR IS EXPECTED TO BUILD, INSTALL, AND PROVIDE THE FUNCTIONING HVAC SYSTEMS AS DESCRIBED IN THESE DOCUMENTS.

COMMISSIONING REQUIREMENTS
1. NONRESIDENTIAL BUILDING WITH LESS THAN 10,000 SF OF CONDITIONED SPACE SHALL COMPLY WITH THE APPLICABLE COMMISSIONING REQUIREMENTS BELON PER TAB ENERGY CODE.
2. DESIGN PHASE REVIEW
2.1. DESIGN REVIEWER REQUIREMENTS: THE DESIGN REVIEWER SHALL BE THE SIGNER OF THE DESIGN REVIEW KICKOFF CERTIFICATE OF COMPLIANCE AND CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST AS SPECIFIED IN PART I SECTION 10-10.
2.2. DESIGN REVIEW KICKOFF: DURING THE SCHEMATIC DESIGN PHASE OF THE BUILDING PROJECT, THE OWNER REPRESENTATIVE, DESIGN TEAM AND DESIGN REVIEWER MUST MEET TO DISCUSS THE PROJECT SCHEDULE AND HOW THE DESIGN REVIEWER WILL COORDINATE WITH THE PROJECT TEAM, THE BUILDING OWNER OR OWNER'S REPRESENTATIVE SHALL INCLUDE THE DESIGN REVIEW KICKOFF CERTIFICATE OF COMPLIANCE FORM IN THE CERTIFICATE OF COMPLIANCE DOCUMENTATION AS SPECIFIED IN PART I SECTION 10-10.
2.3. CONSTRUCTION DOCUMENT DESIGN REVIEW: THE CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST CERTIFICATE OF COMPLIANCE SHALL LIST THE ITEMS CHECKED BY THE DESIGN REVIEWER DURING THE CONSTRUCTION DOCUMENT REVIEW. THE COMPLETED FORM SHALL BE RETURNED TO THE OWNER AND DESIGN TEAM FOR REVIEW AND SIGNATURE. THE BUILDING OWNER SHALL BE RESPONSIBLE FOR RETURNING THIS FORM IN THE CERTIFICATE OF COMPLIANCE DOCUMENTATION AS SPECIFIED IN PART I SECTION 10-10.
3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS: COMPLETE DESCRIPTIONS OF ALL MEASURES OR REQUIREMENTS NECESSARY FOR COMMISSIONING SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS (PLANS AND SPECIFICATIONS). COMMISSIONING MEASURES OR REQUIREMENTS SHALL BE CLEAR, DETAILED AND COMPLETE TO CLARIFY THE COMMISSIONING PROCESS.

1.1 DESIGN CRITERIA

- 1. GENERAL PROJECT INFORMATION:
1.1. PROJECT SHALL CONFORM TO THE 2022 CGC ITS CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS.
1.2. DESIGN CRITERIA ARE AS FOLLOWS:
CLIMATE ZONE: 2
DESIGN TEMPERATURES: HEATING: 65° F, COOLING: 83° F
OUTDOOR DRY BULB: 33° F, 83° F
INDOOR RELATIVE HUMIDITY: 65%, 75%

1.2 GENERAL NOTES

- 1. SCOPE:
1.1. THE PROJECT DOCUMENTS THAT NOT BE USED IN A LOCATION OTHER THAN THAT DESIGNATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR ARCHITECT.
1.2. THIS IS A "BUILDER'S SET" PRODUCED SOLELY FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR.
1.3. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMITS ONLY. THEY ARE NOT EXTENSIVELY DETAILED NOR ARE COMPLETE SPECIFICATIONS PROVIDED. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SAME OR SIMILAR CONSTRUCTION SHOWN ELSEWHERE WITHIN THE PLAN SET. FOR ITEMS, METHODS AND MATERIALS NOT SPECIFIED WITHIN THE SET, THE FIN REQUIREMENT OF THE APPLICABLE CODE SHALL GOVERN.
1.4. THE ENGINEER PROVIDES NO WARRANTY OR GUARANTEE ON THE FINAL PROJECT, NOR DUTY TO ANY PERSON OR ENTITY BEYOND THE AFORESAID LISTED INFORMATION OF THESE PLANS.
2. CONTRACTOR REQUIREMENTS:
2.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY AND CONSTRUCTION STANDARDS FOR THIS PROJECT. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
2.2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC.
2.3. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT SPECIFICALLY PROVIDED IN THESE PLANS ARE THE SOLE AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY VERIFY AND INSTALL.
2.4. CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT WHERE A CONFLICT OCCURS ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT, UNTIL CONFLICT IS RESOLVED BY THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS.
2.5. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE MECHANICAL ENGINEER.
2.6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER OR ARCHITECT FOR ANY REQUIRED DIMENSIONS NOT SHOWN, DRAWINGS 4 DETAILS WITHIN THIS SET SHALL NOT BE SCALED FOR ANY PURPOSE.
2.7. THE GENERAL CONTRACTOR AND ITS SUB-CONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS, SHOP DRAWINGS THAT ARE SUBMITTED TO THE ENGINEER OR RECORD FOR ITS REVIEW. DO NOT CONSTITUTE IN WRITING CHANGES TO THE PLANS AND SPECIFICATIONS BY MEANS OF SHOP DRAWINGS BECOME THE RESPONSIBILITY OF THE PERSON INITIATING SUCH CHANGES.
2.8. THE HERS RATER AND THE CONTRACTOR SHALL SUBMIT ALL THE REQUIRED AND CURRENTLY APPROVED FORMS TO THE HERS RATER PRIOR TO TESTING OR INSTALLATION. A REGISTERED COPY OF REQUIRED FORMS SHALL BE SUBMITTED PRIOR TO THE FINAL INSPECTION. GUIDED BY THE CERTIFIED INSTALLER AND THE HERS RATER FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING AS REQUIRED.
2.9. ALL HIGH VOLTAGE POWER WIRING, DISCONNECTS, AND CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE CONTROL WIRING FOR HVAC EQUIPMENT TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
2.10. MECHANICAL INSTALLERS MUST BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF HVAC SYSTEMS UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. SEE CALGREEN 702 FOR APPROPRIATE TRAINING PROGRAMS.

1.3 TYPICAL ABBREVIATIONS

Table with 3 columns: Abbreviation, Full Name, and Notes. Includes entries like A/A ATTIC ACCESS, ABV ABOVE, ACFA AIR CONDITIONING CONTRACTORS ASSOCIATION, etc.

2.2 HEAT PUMP UNITS

- 1. OUTDOOR UNIT GENERAL REQUIREMENTS:
1.1. WATERPROOF GFI EQUIPMENT OUTLET REQUIRED WITHIN 25'-0" MAX DISTANCE FROM UNIT.
1.2. EQUIPMENT DISCONNECT PER CBC SECTION 440.11.1. POINT TO HALL OR FREESTANDING MOUNTING SUPPORT, CONSTRUCT FLOOR OR EQUAL, FINISHING HEIGHT TO BE BETWEEN 1'-6" AND 4'-0" ABOVE FINISH FLOOR.
2. OUTDOOR UNIT CONSTRUCTION REQUIREMENTS:
2.1. REFRIGERANT PIPING LOCATED OUTDOORS SHALL BE FILLED WITH LOCKING-TYPE TAPPER-RESISTANT CAPS OR SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS BY A MEANS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION PER CBC SECTION 108.11.
2.2. THE SECTION REFRIGERANT LINE FROM THE INDOOR COIL TO THE OUTDOOR UNIT SHALL BE INSULATED WITH MIN R6 INSULATION, INSULATION USED FOR REFRIGERANT SUCTING LINE SHALL BE WATER RETARDANT AND PROTECTED FROM PHYSICAL DAMAGE.
2.3. PROVIDE PIPING SLEEVE FOR REFRIGERANT PIPING THAT RUNS BELOW GRADE OR THROUGH CONCRETE FLOOR. SLEEVE TO HAVE MIN 1/2" CLEARANCE AROUND PIPE INSULATION.
2.4. AN EQUIPMENT PAD SHALL BE PROVIDED FOR GRADE MOUNTED EQUIPMENT MIN 6" WIDER THAN THE OUTDOOR UNIT IN ALL DIRECTIONS, 4" THICK AND MIN 3" ABOVE ADJACENT GRADE. REFER TO MANUFACTURER'S REQUIREMENTS FOR CLEARANCES.
2.5. WHERE PIPING RUNS VERTICALLY THROUGH WALL, BORE/NOTCH TOP PLATES PER STRUCTURAL PLANS.
2.6. REFRIGERANT PIPING TO BE SECURELY FASTENED TO FRAMING WITHIN 6" +/- OF FIRST BEND FROM OUTDOOR UNIT, WITHIN +/-0" OF EACH SUBSEQUENT BEND, AND AT POINTS NO MORE THAN 15'-0" APART. SEE DETAIL.
3. OUTDOOR UNIT ALTERNATES 4 MODIFICATIONS:
3.1. ALTERNATE LOCATIONS
3.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE. VERIFY EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM.
3.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE, MAINTENANCE AREA, 4 LOT LINE SETBACKS PRIOR TO RELOCATING.
4. INDOOR HEAT PUMP UNIT GENERAL REQUIREMENTS:
4.1. PROVIDE MIN 22X30" ACCESS LARGE ENOUGH TO ACCOMMODATE THE REMOVAL OF THE LARGEST COMPONENT OF HEAT PUMP. LOCATE ACCESS MAX 20" FROM FAN UNLESS PASSENGER HEIGHT IS OVER 4'-0", PROVIDE CONTINUOUS SLOID FLOORING NOT LESS THAN 3/4" WIDE FROM ACCESS TO UNIT.
4.2. PROVIDE A LEVEL WORKING PLATFORM MIN 30" IN DEPTH, WIDTH, AND HEIGHT ALONG SERVICE SIDE OF UNIT FOR MAINTENANCE.
4.3. DUCTS AND PLENUMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED IN ACCORDANCE WITH TAB, CBC, AND SPACMA HVAC DUCT CONSTRUCTION STANDARDS.
4.4. PROVIDE A PERMANENT 120V ELECTRICAL OUTLET AND LIGHTING FIXTURE AT OR NEAR UNIT. LIGHTING FIXTURE SHALL BE CONTROLLED BY SWITCH. SWITCH TO BE LOCATED AT ACCESS POINT WHEN UNIT IS INSTALLED IN ATTIC.
4.5. DESIGN AND UNIT SELECTION EXTERNAL STATIC PRESSURE MUST INCLUDE FILTER PRESSURE DROP.
5. CONSTRUCTION REQUIREMENTS:
5.1. PROVIDE 3/4" PVC CONDENSATE DRAIN TO NEAREST DRAIN OR DRAIN TAP PICE.
5.2. PROVIDE WATER TIGHT CORROSION-RESISTANT PAN BELOW COOLING COIL. 1/2" 3/4" PVC DRAIN OR AS REQUIRED BY MANUFACTURE LINE. 1/2" MIN 1/8" PER FT. OF SLOPE TOWARDS DRAIN TO EXTERIOR POINT THAT IS READILY OBSERVABLE OR PROVIDE WATER DETECTING DEVICE THAT WILL SPLIT OFF EQUIPMENT WHEN WATER IS DETECTED.
5.3. PROVIDE CONDENSATE LIFT PUMP WHEN REQUIRED BY INDOOR UNIT OR IF SLOPED CONDENSATE PIPING WILL NOT ROUTE PROPERLY TO DRAIN CONNECTION.
6. ALTERNATES 4 MODIFICATIONS:
6.1. ALTERNATE LOCATIONS
6.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED FOR OPTIMAL FIT. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM.
6.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE, MAINTENANCE AREA, 4 ACCESS TO EQUIPMENT PRIOR TO RELOCATING.
6.2. ALTERNATE EQUIPMENT
6.2.1. EQUIPMENT SUBSTITUTIONS SHALL MEET OR EXCEED THE DESIGN SPECIFICATIONS FOR SEER/SEER/SEAF, SHALL MATCH NOMINAL TONNAGE OF EQUIPMENT SPECIFIED, AND SHALL PROVIDE EQUIVALENT SYSTEM PERFORMANCE.

2.3 DUCTLESS SYSTEM COMPONENTS

- 1. GENERAL REQUIREMENTS:
1.1. PROVIDE ACCESS PER MANUFACTURER REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO CLEARANCES 4 ACCESS PANEL ACCESSORIES AND ELECTRICAL PANELS.
2. ALTERNATES 4 MODIFICATIONS:
2.1. ALTERNATE LOCATIONS
2.1.1. LOCATION OF EQUIPMENT ON PLAN IS DIAGRAMMATIC IN NATURE AND MAY BE ADJUSTED FOR OPTIMAL FIT. CONTRACTOR SHALL VERIFY THAT ADJUSTED EQUIPMENT LOCATION DOES NOT NEGATIVELY IMPACT THE PERFORMANCE OF THE OVERALL SYSTEM.
2.1.2. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE 4 ACCESS TO EQUIPMENT PRIOR TO RELOCATING.
2.2. ALTERNATE EQUIPMENT
2.2.1. EQUIPMENT SUBSTITUTIONS SHALL MEET OR EXCEED THE DESIGN SPECIFICATIONS FOR SEER/SEER/SEAF, SHALL MATCH NOMINAL TONNAGE OF EQUIPMENT SPECIFIED, AND SHALL PROVIDE EQUIVALENT SYSTEM PERFORMANCE PER THE REQUIREMENTS OF SECTIONS 1.4 4 1.5.
2.2.2. ALL EQUIPMENT MUST HAVE VALID AHRM CERTIFICATION AT TIME OF INSTALLATION.

2.4 DAMPERS

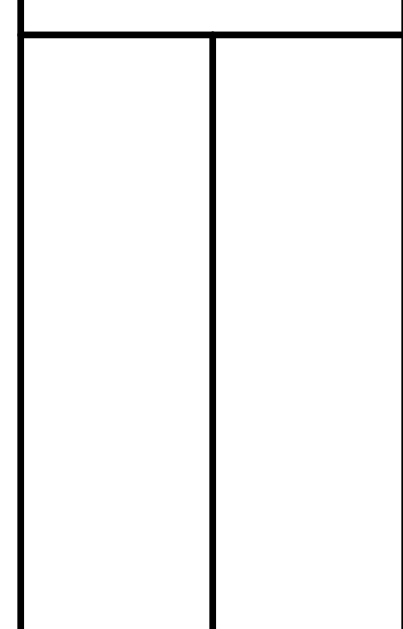
- 1. GENERAL REQUIREMENTS:
1.1. DAMPERS TO BE ACCESSIBLE FOR ADJUSTMENT AND MAINTENANCE, WHERE NOT ACCESSIBLE THROUGH ATTIC BEHIND CEILING MOUNTED FAN GRILLES, PROVIDE 18X14 WALL/CILING ACCESS PANEL. PANEL TO HAVE BARE FIRE RATING AS WALL/CILING, WHERE REQUIRED. SEE ARCHITECTURAL PLANS FOR FIRE RATING SPECIFICATIONS.
1.2. MANUAL VOLUME DAMPERS:
1.2.1. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL BOXES, DIFFUSERS, GRILLES AND REGISTERED AND SHALL BE LOCATED IN THE FINAL POSITION AFTER COMPLETION OF AIR BALANCE. SEE ARCHITECTURAL PLANS FOR LOCATION AND SIZING.
1.2.2. MANUAL DAMPERS MAY BE OMITTED WHERE INSTALLED IN A BLEND TO BALANCE SYSTEM WITHOUT USE OF DAMPER.
1.3. MOTORIZED DAMPERS:
1.3.1. INSTALL A MOTORIZED DAMPER AT THE TRUNK OF EACH ZONE OF FULL-ZONE SYSTEMS.
1.3.2. DAMPER TO HAVE EXTERNAL MOUNTED POWER ACTUATOR, INSTALLED IN FLOATING POSITION WITH DAMPER STOP INSTALLED AS SPECIFIED IN SECTION 1.1.
1.4. BAROMETRIC DAMPERS:
1.4.1. ADJUST COUNTERWEIGHT AS NEEDED TO ACHIEVE THE AIRFLOW SPECIFIED ON PLANS WHEN SMALLEST ZONE IS CALLING FOR SUPPLY AIR.
1.5. FIRE DAMPERS:
1.5.1. PROVIDE FIRE DAMPER AND/OR FIRE SMOKE (CALIFORNIA STATE FIRE MARSHAL APPROVED) AT EVERY PENETRATION OF A FIRE-SMOKE RATED PARTITION. DAMPER TO HAVE BARE FIRE RATING AS PARTITION, SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.
1.5.2. FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 904 4 MANUFACTURER'S INSTRUCTIONS, BE UL-955 LISTED, AND BE RATED FOR THE SAME DURATION AS THE FIRE ASSEMBLY BEING PENETRATED.
1.5.3. FIRE RATED ACCESS IS REQUIRED AT EACH DAMPER. ACCESS MAY BE PROVIDED THROUGH ATTIC ACCESS, REMOVABLE GRILLE, OR CEILING ACCESS PANEL.
1.5.4. AT ATTIC APPLICATIONS WHERE DUCT DOES NOT PASS THROUGH CEILING, A RADIATION DAMPER MAY BE USED AS AN ALTERNATE TO THE FIRE DAMPER.
1.6. RADIATION DAMPERS:
1.6.1. RADIATION DAMPERS SHALL UL-955 RATED HINGE DOOR TYPE DAMPERS. DAMPER TO HAVE BARE FIRE RATING AS PARTITION, SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS.

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HOMEDEC CORPORATION
1903 WILHELM ROAD, SUITE 200
CARLSBAD, CA 92008

PROJECT:
CLIENT:
PROJECT MANAGER: MW
DESIGNER: CB
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2025
REVISIONS:

STAMP:

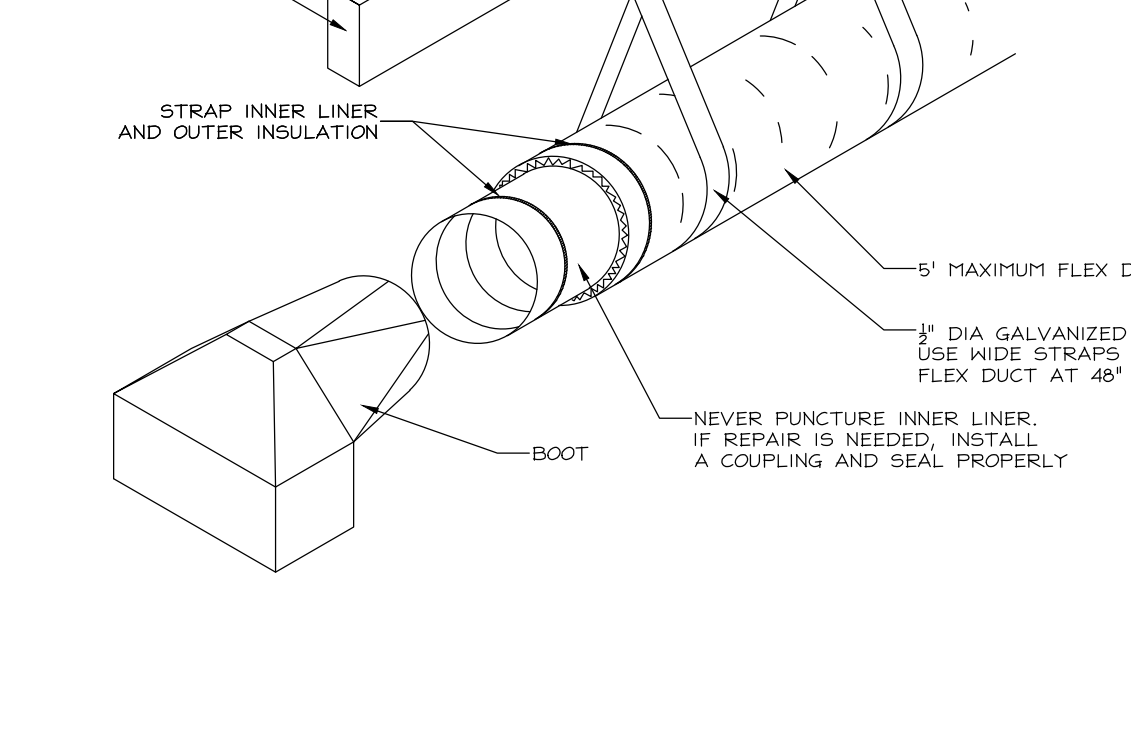
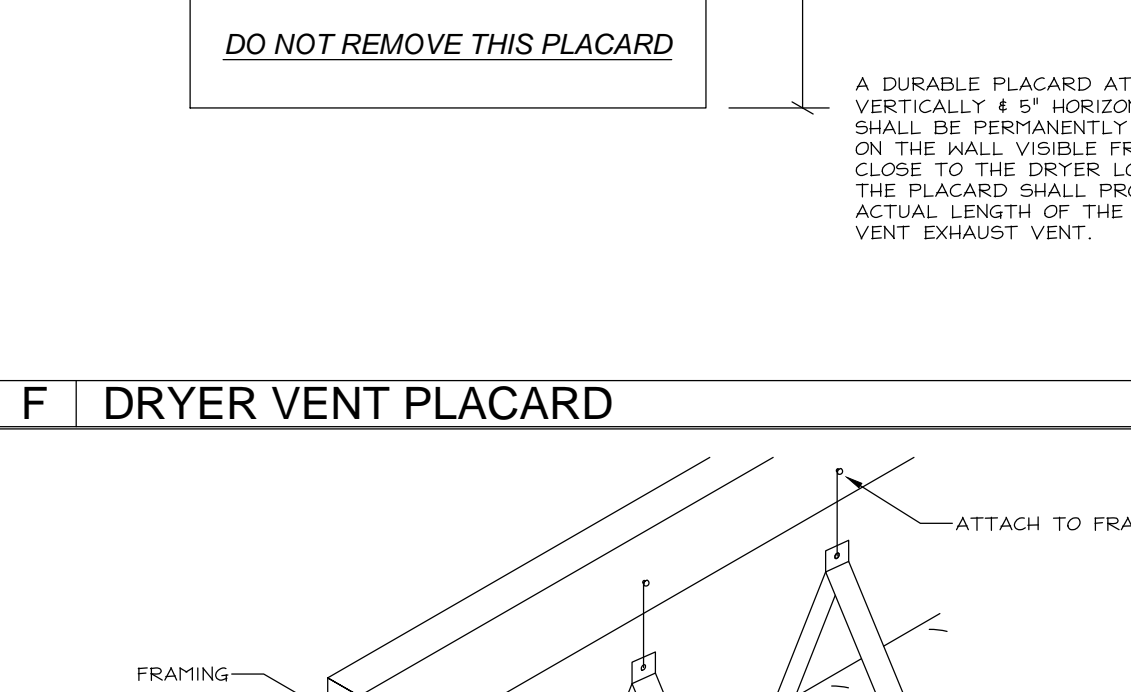
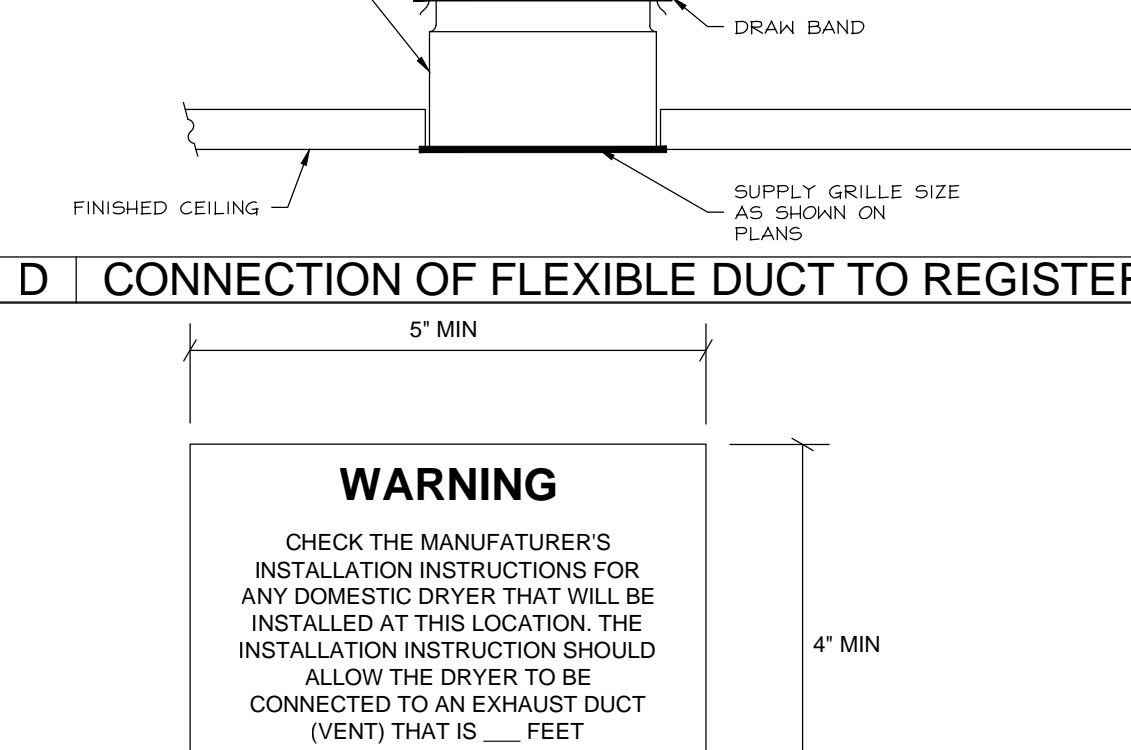
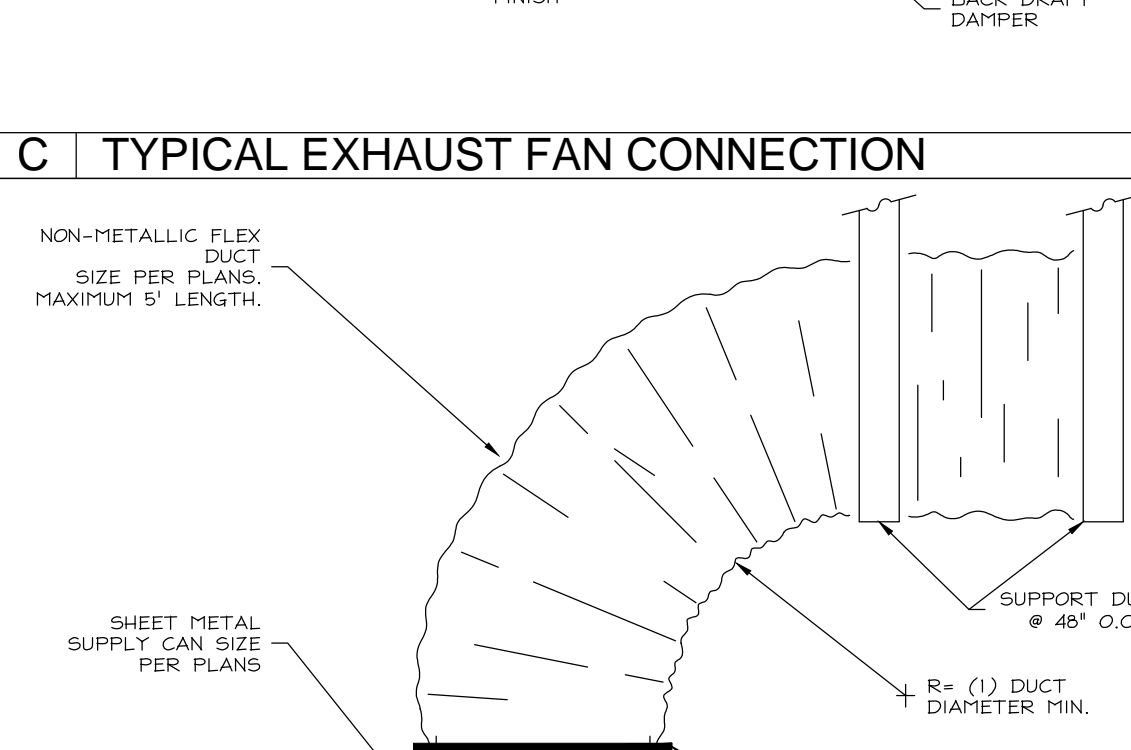
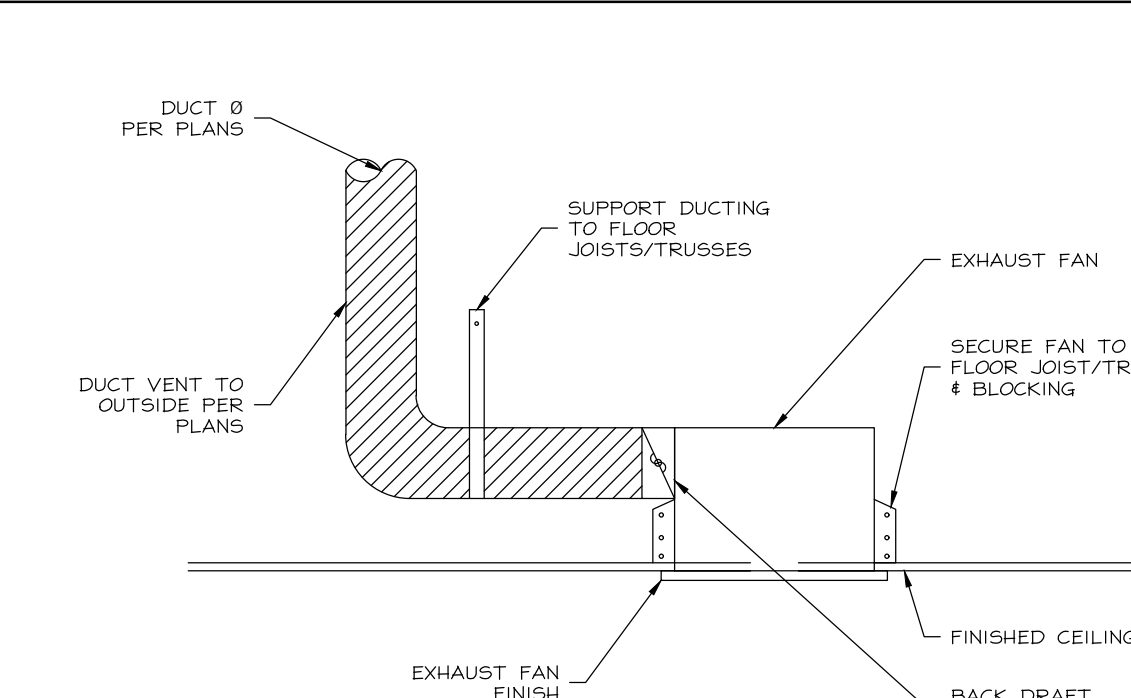
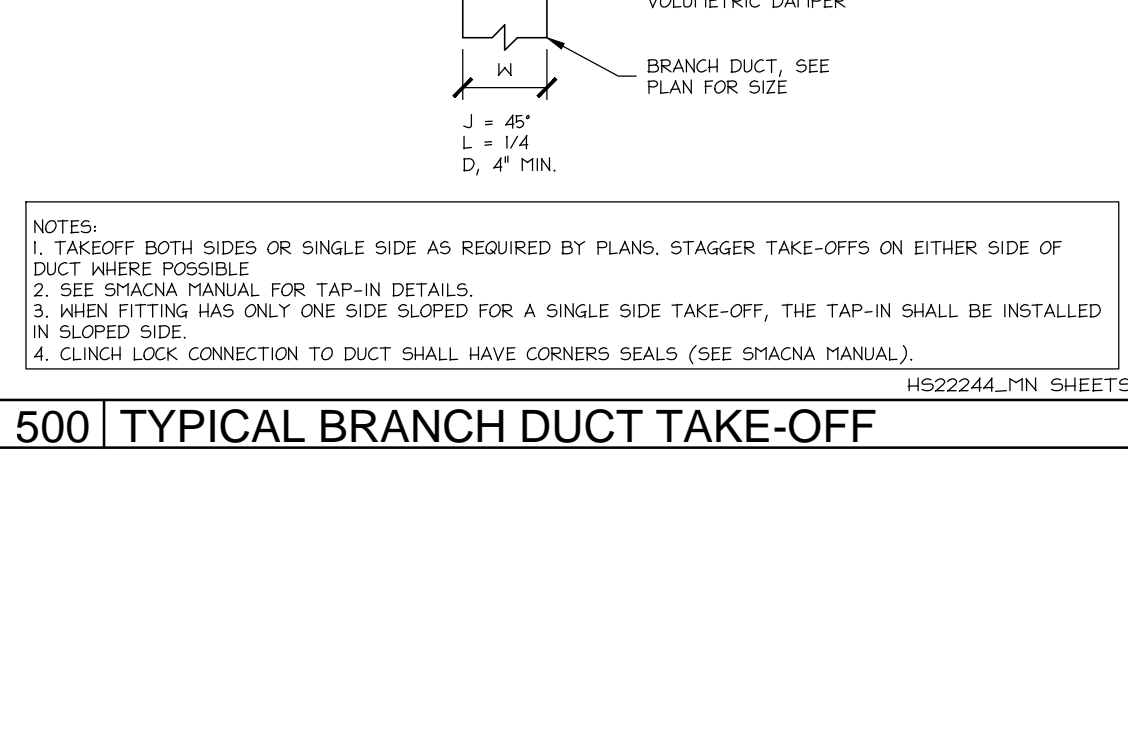
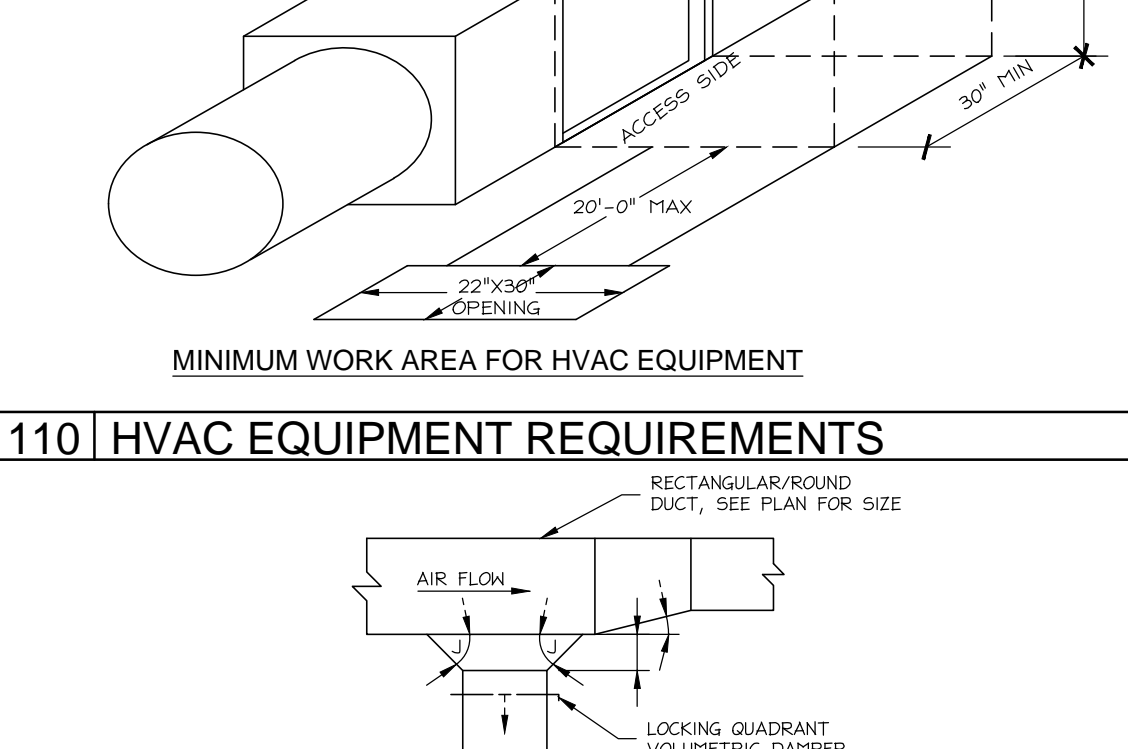
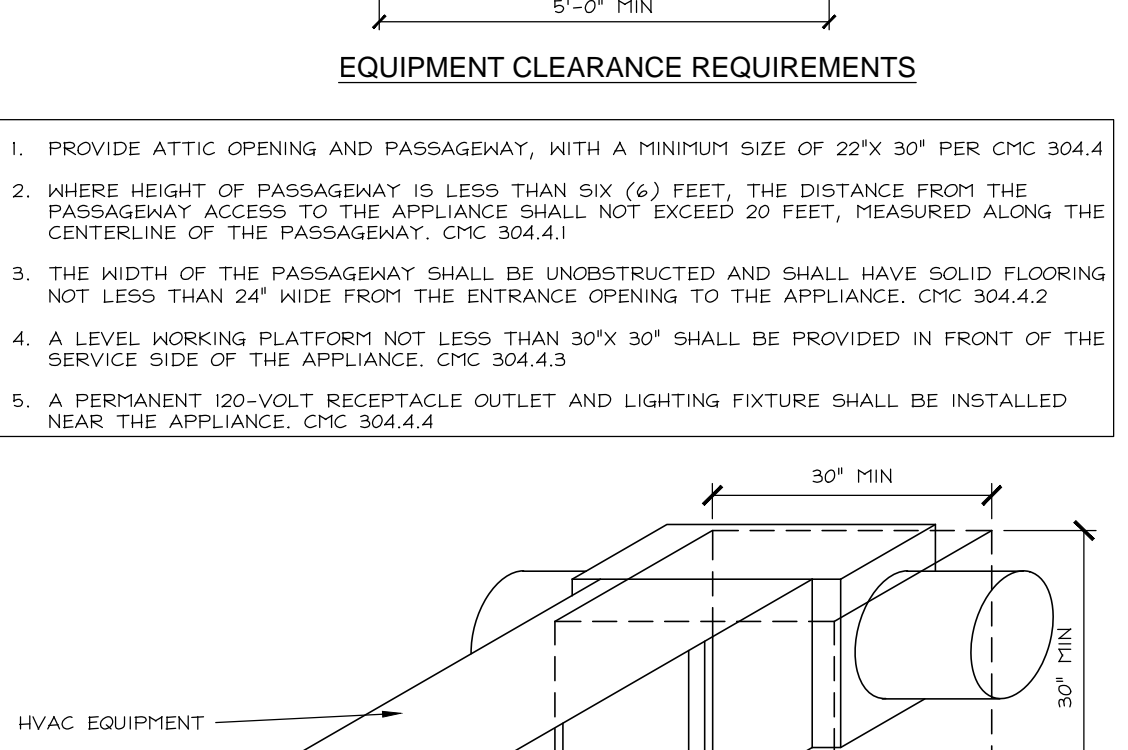
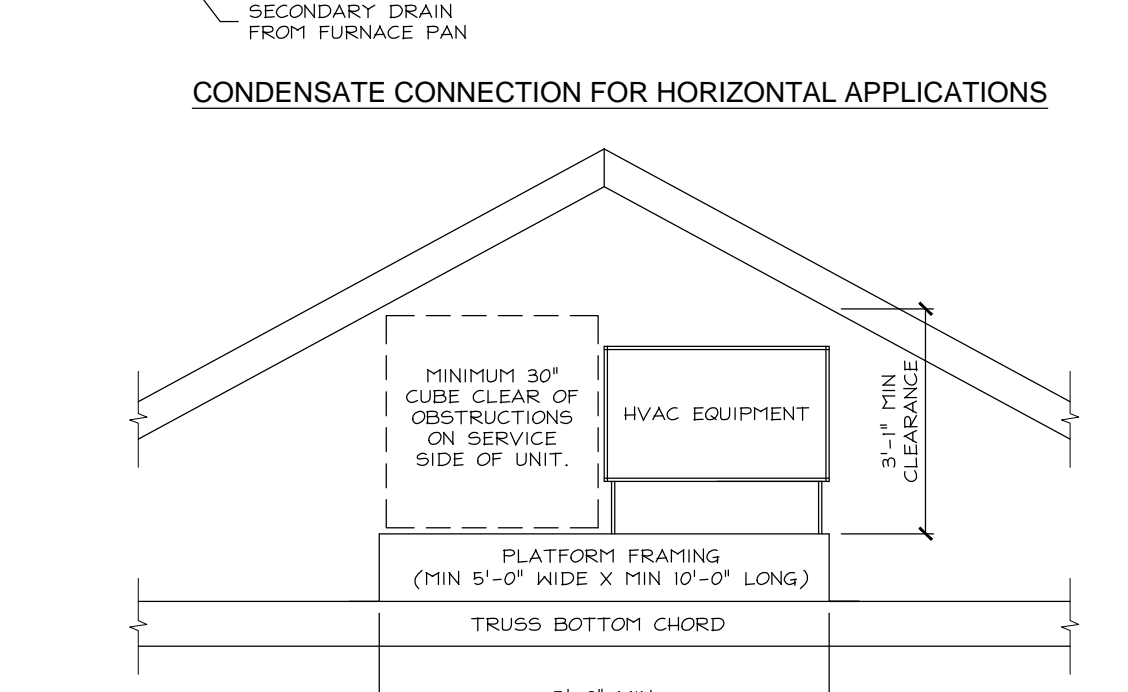
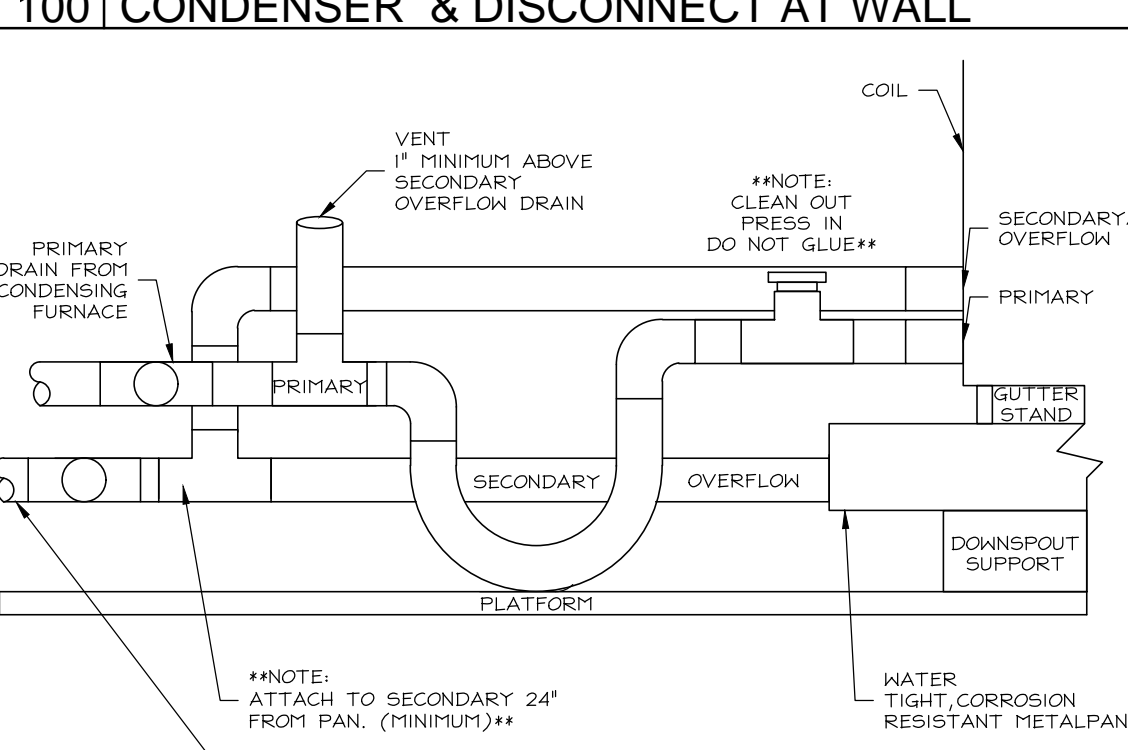
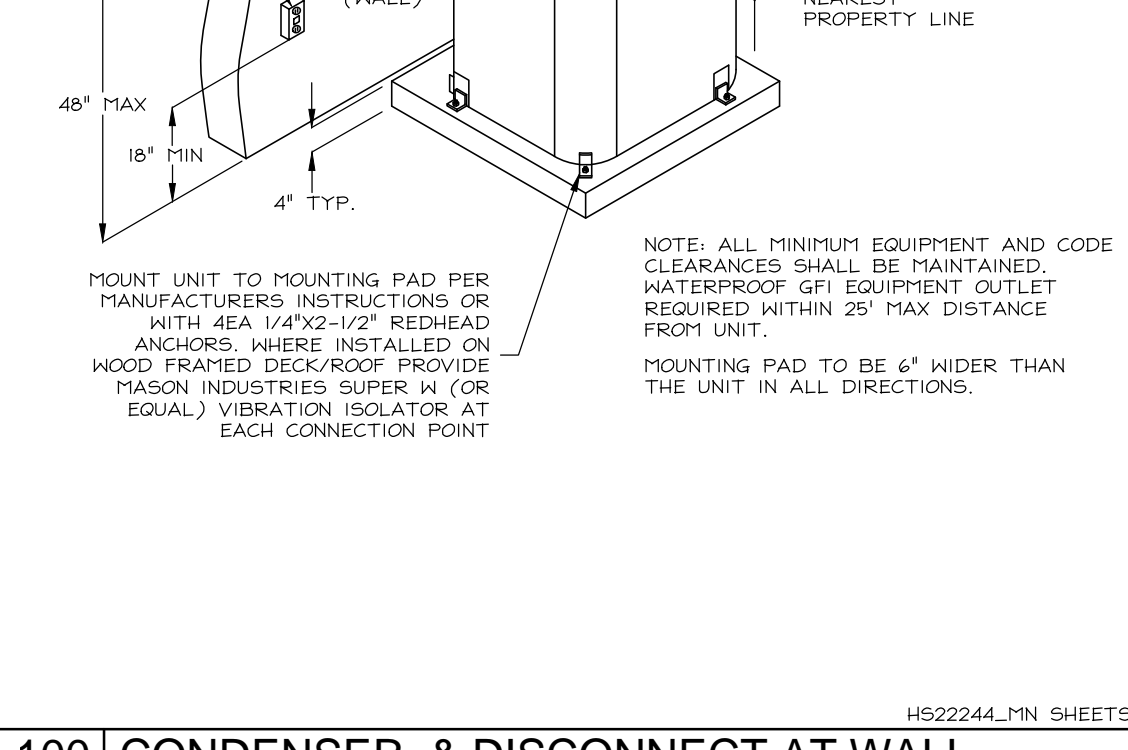
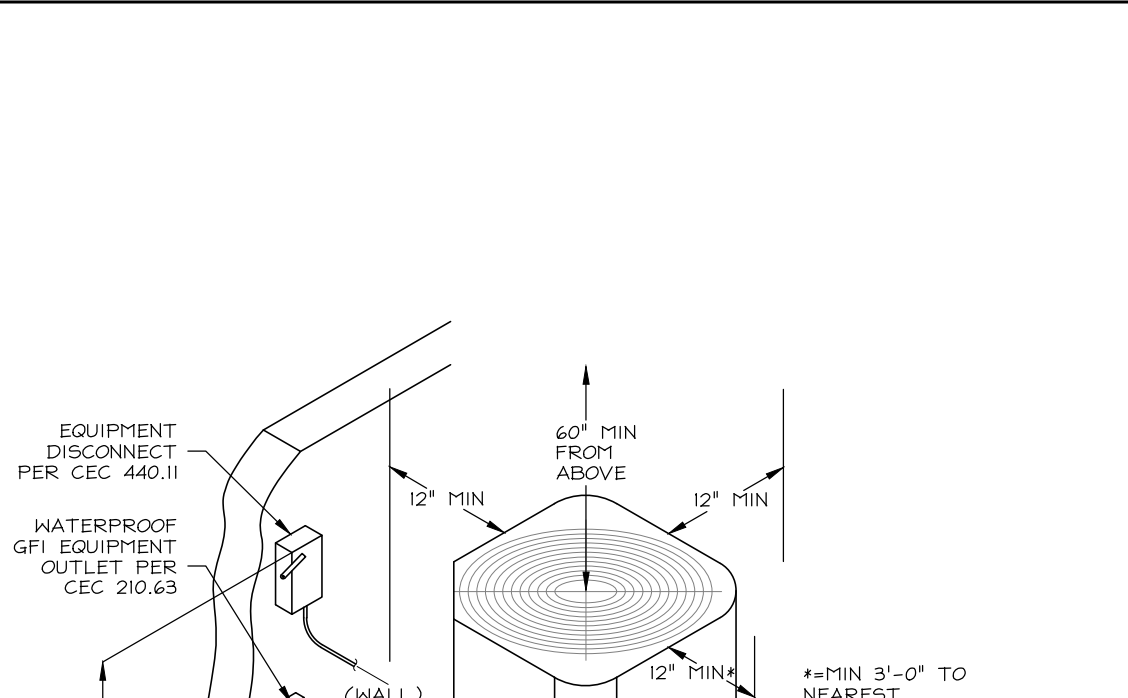
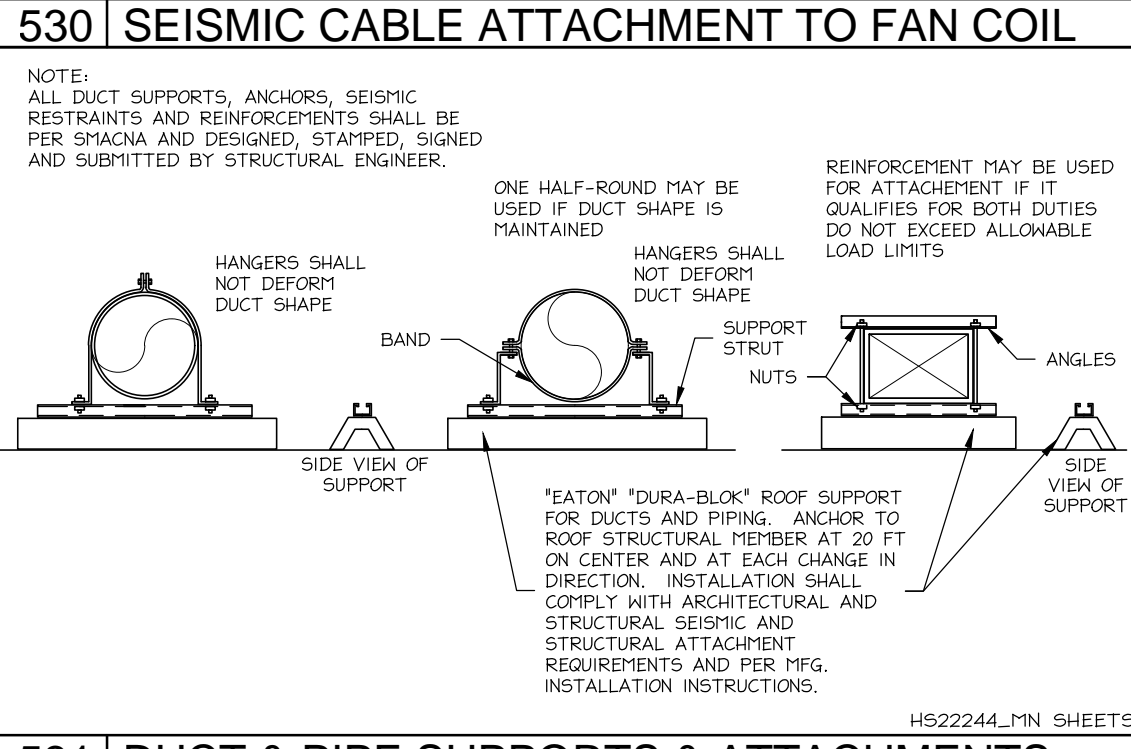
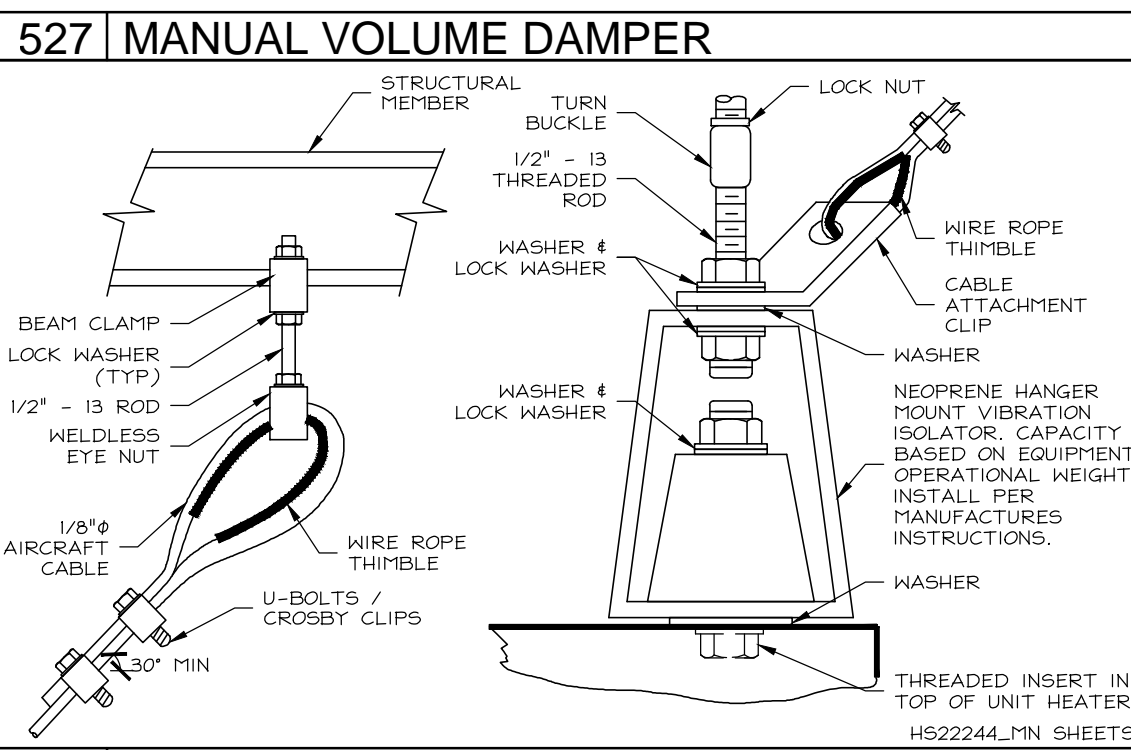
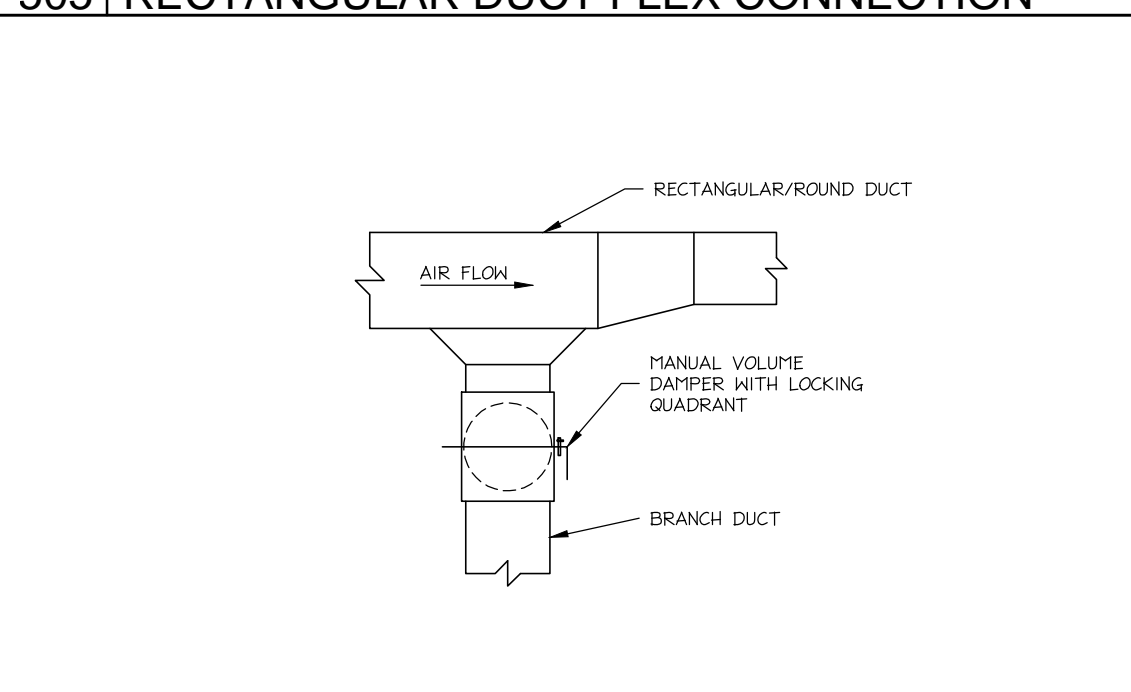
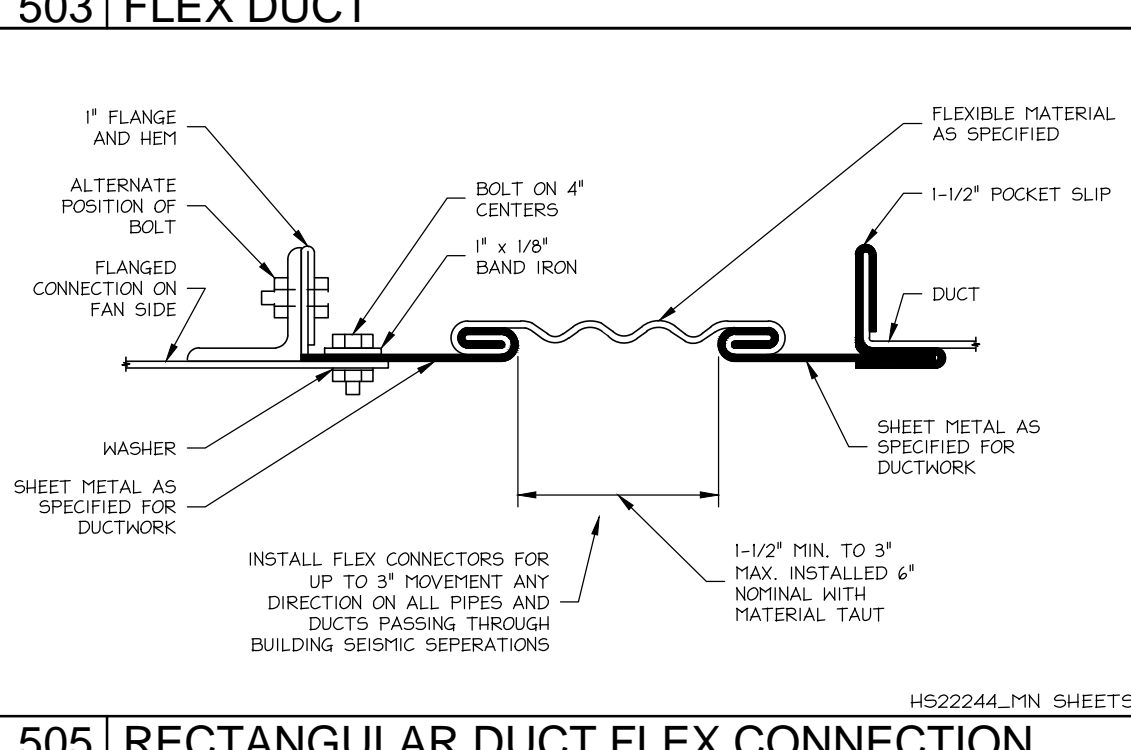
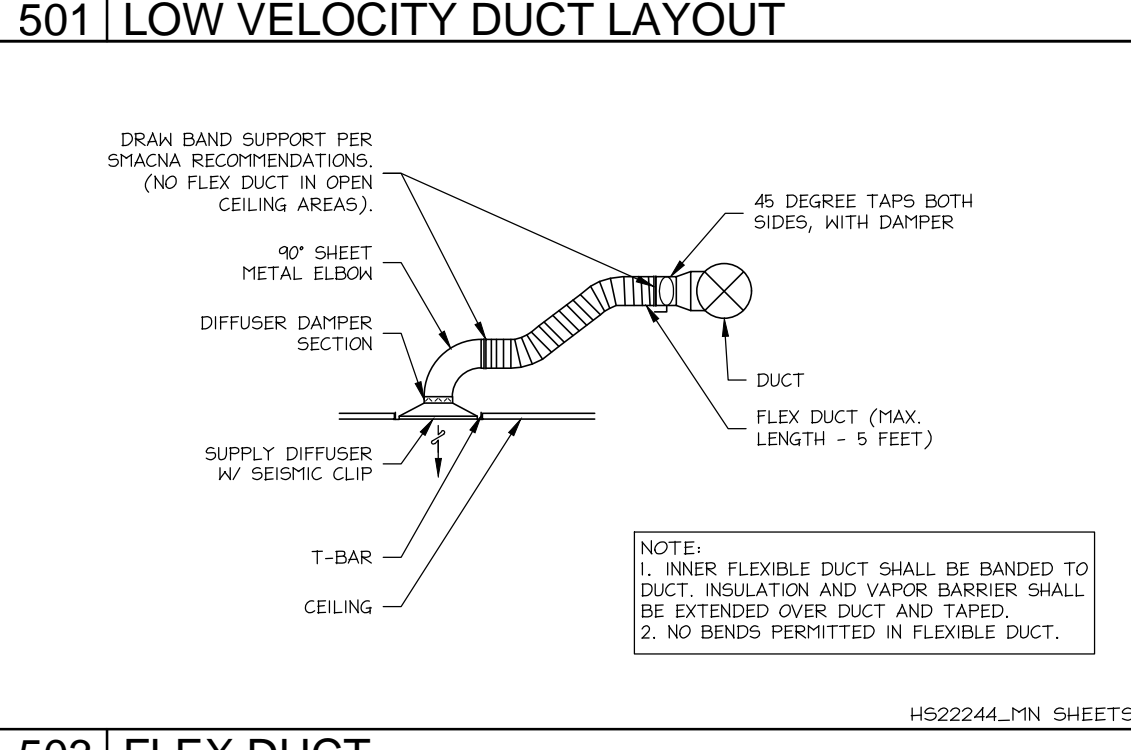
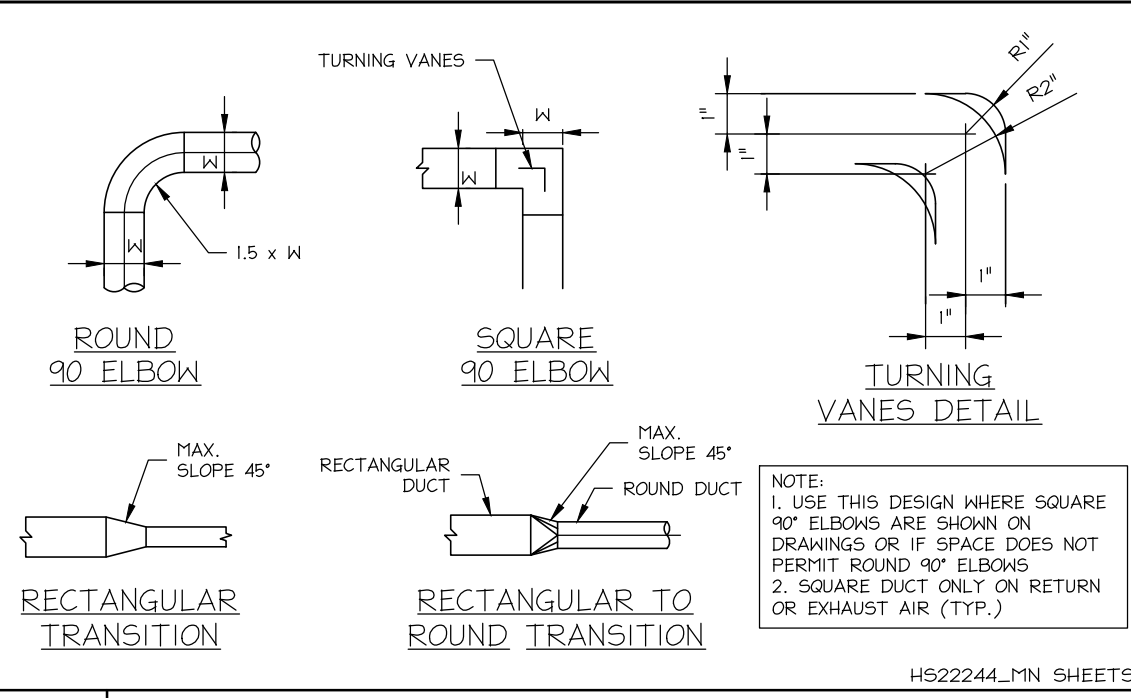
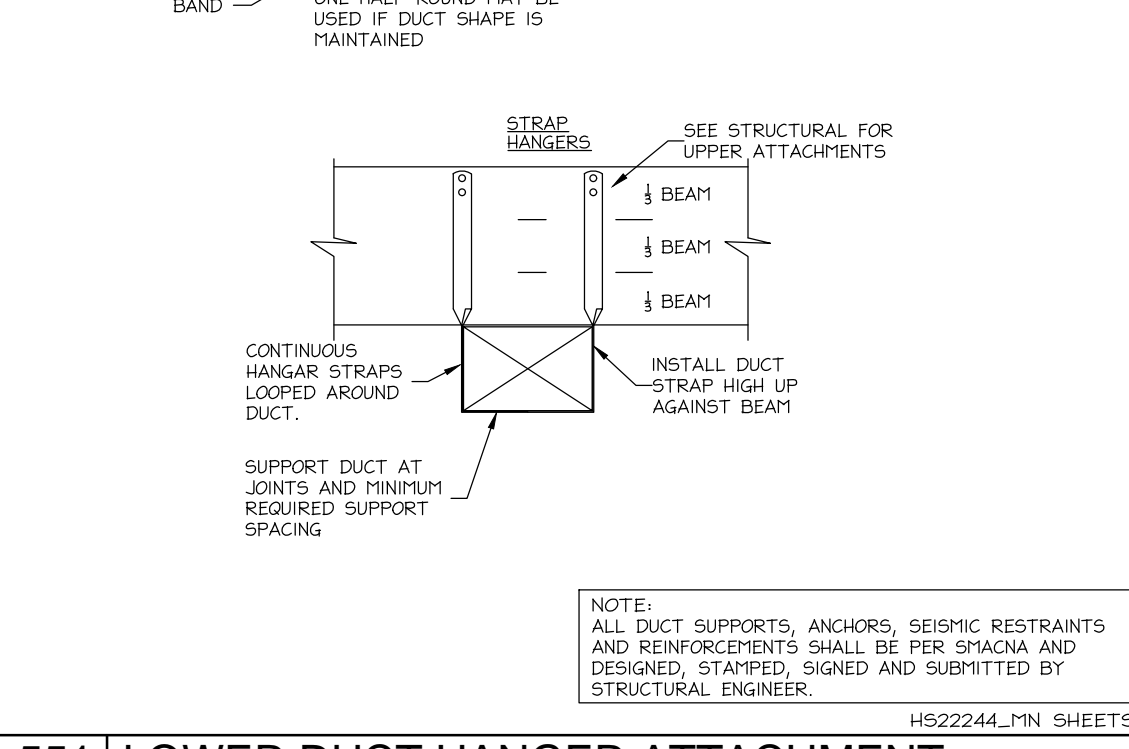
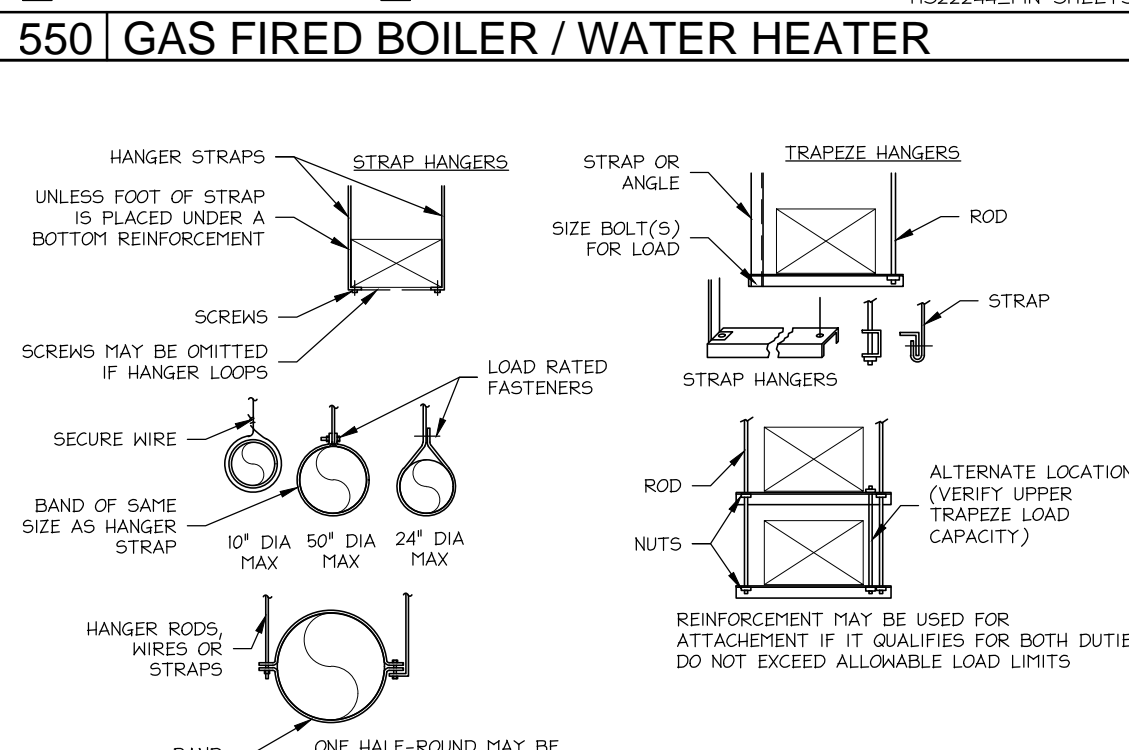
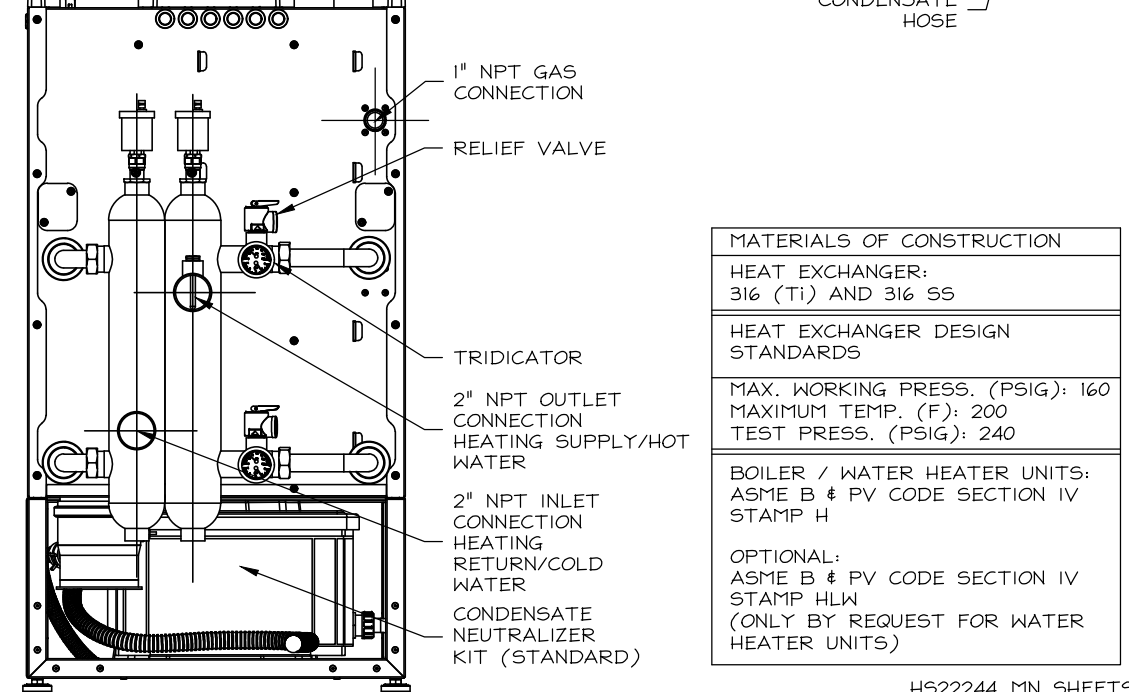
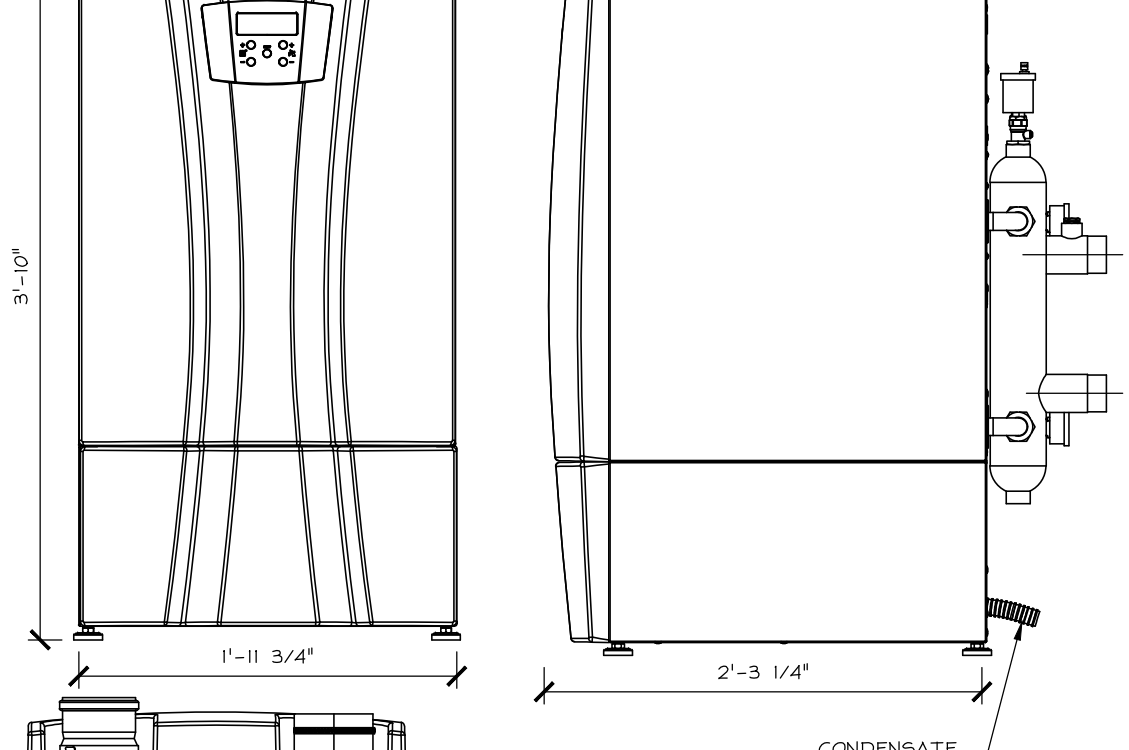
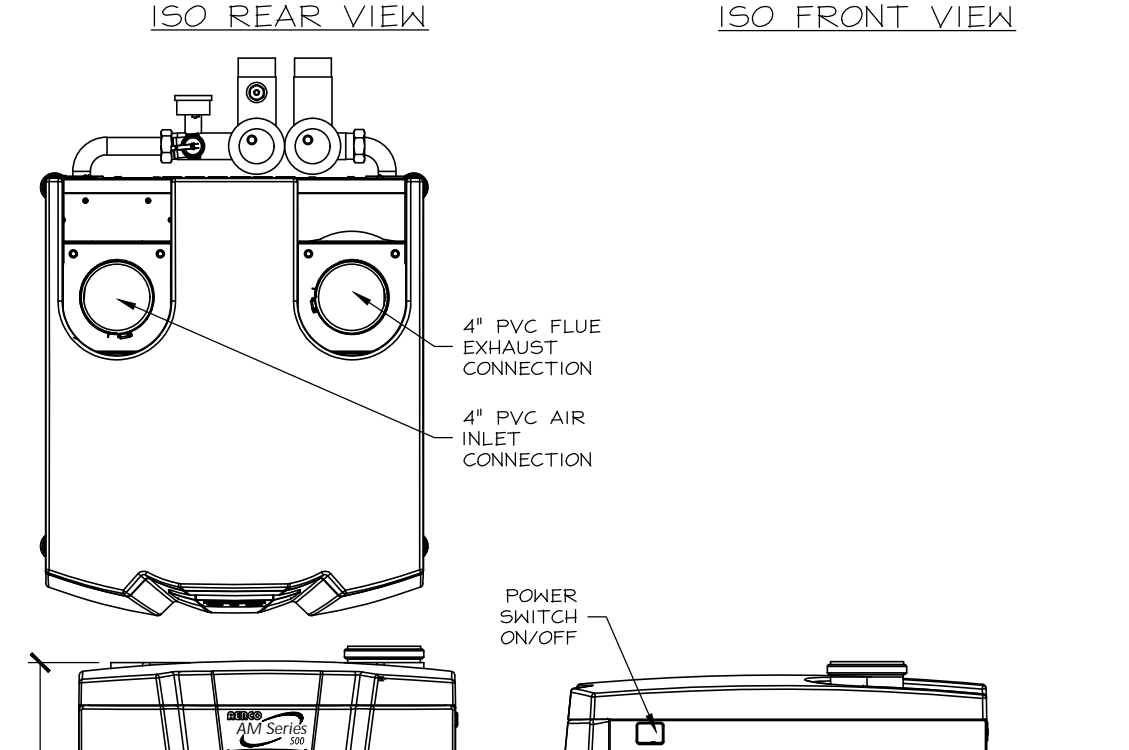
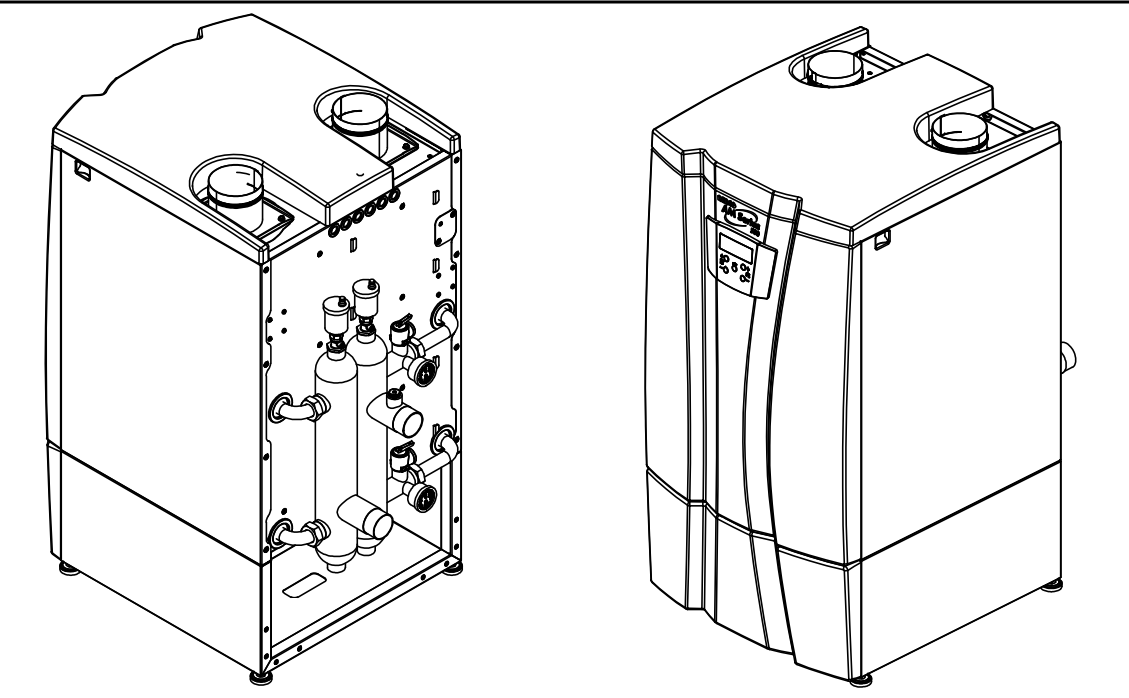
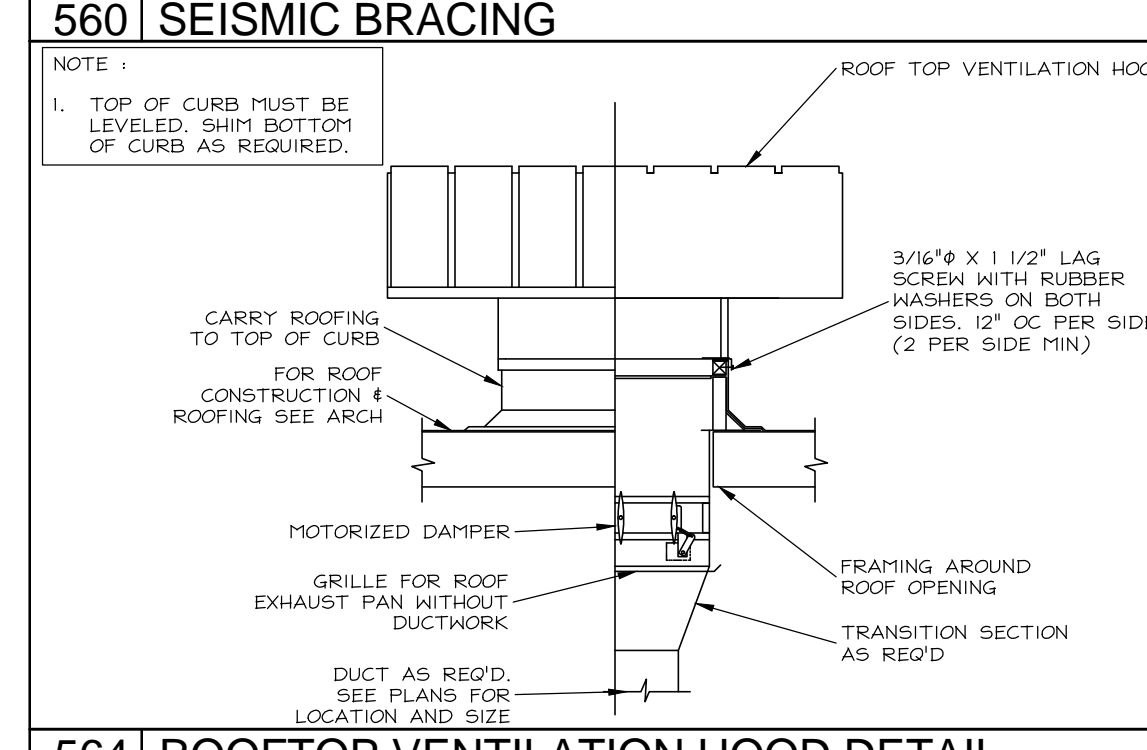
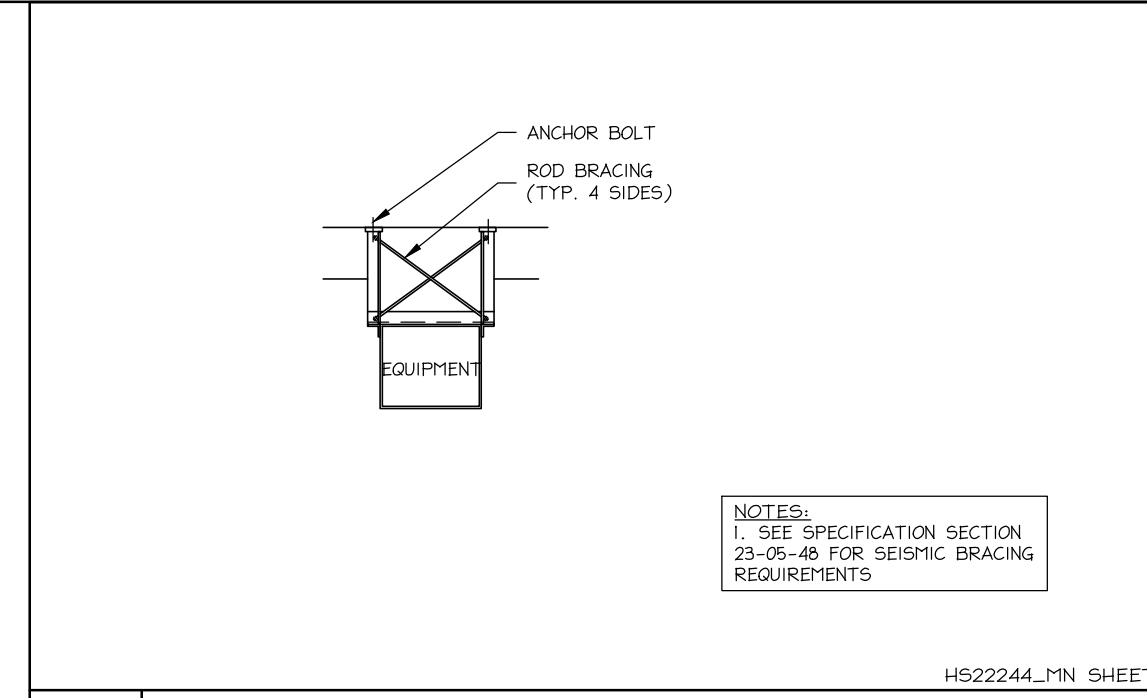


PLAN NUMBER:
SHEET NUMBER:

STANDARD NOTES

MN.1
JOB NUMBER: HS22244

STANDARD DETAILS



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CARLSBAD, CA 92008

PROJECT MANAGER: MNW
DESIGNER: CB
DRAWN BY: GES
CHECKED BY: MNW
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:
REGISTERED PROFESSIONAL MECHANICAL ENGINEER
EXPIRES 06/30/24
STATE OF CALIFORNIA

STANDARD DETAILS
SCALE:
SHEET NUMBER:
MN.2
JOB NUMBER: HS22244

SECTION

GENERAL NOTES

- 1. IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE P/N SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

NON-RESIDENTIAL NOTES

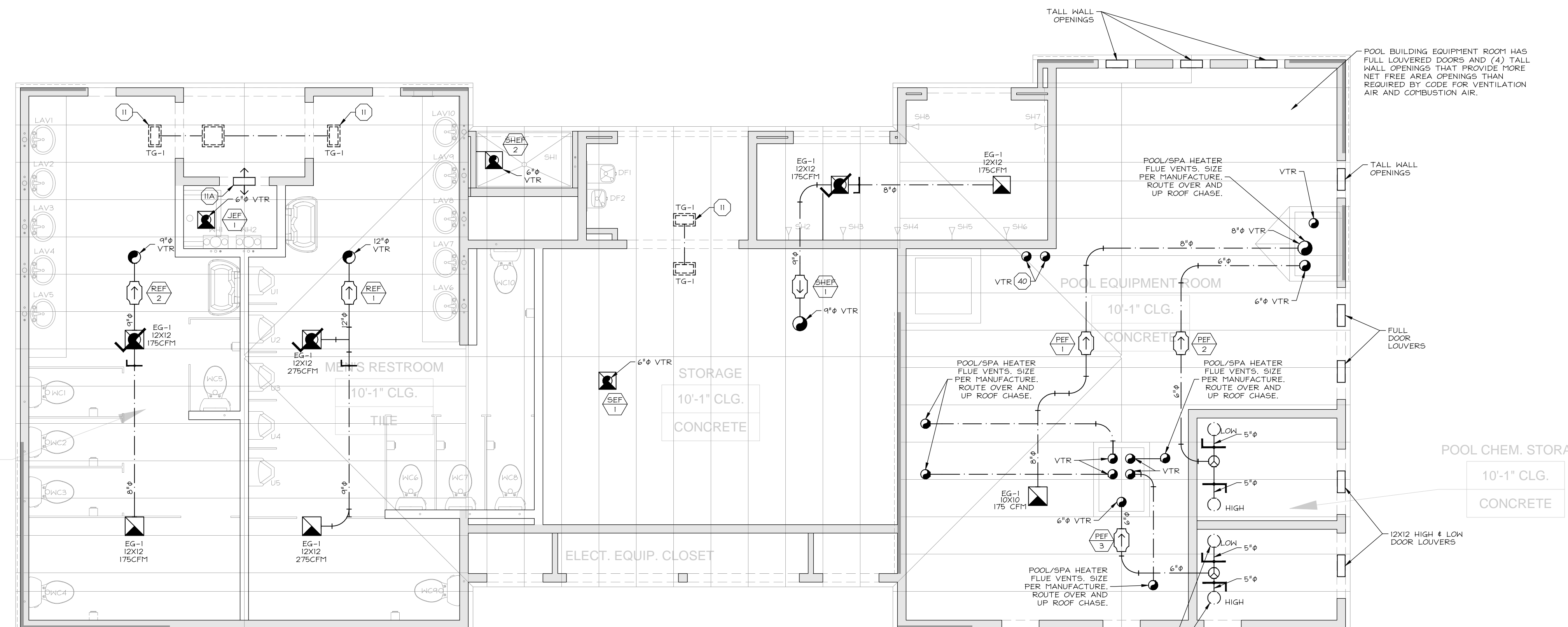
- 1. GENERAL HVAC INSTALLATION NOTE: ALL EQUIPMENT AND DUCTWORK LOCATED AND INSTALLED WITHIN THE FLOOR, CEILING OR TRUSS SYSTEM SHALL BE COORDINATED AMONGST THE TRADES PRIOR TO INSTALLATION TO ENSURE ALL REQUIRED CLEARANCES ARE MAINTAINED FOR SERVING CONTRACTOR TO ADJUST EQUIPMENT LAYOUTS AND DUCTWORK ROUTES AS NEEDED.
2. PROVIDE HERV IS FILTERS FOR ALL NON-RESIDENTIAL HVAC SYSTEMS
3. ALL NON-RESIDENTIAL HVAC DUCTWORK SYSTEMS SHALL BE CONSTRUCTED OF SHEET METAL UNLESS OTHERWISE NOTED. ALL DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH SPACNA AND CRC. FLEX DUCT SHALL BE LIMITED TO 5' MAXIMUM LENGTH. DUCTWORK INSULATION SHALL BE R8 MINIMUM
4. PROVIDE FULL SIZE MANUAL VOLUME DAMPERS (MVD) FOR EACH SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TO ALLOW FOR SYSTEM AIR BALANCING HEATER SHOWN OR NOT. LOCATE MVD TO BE ACCESSIBLE AND UPSTREAM JUST BEFORE TRUNK CONNECTION WHENEVER POSSIBLE TO REDUCE NOISE.

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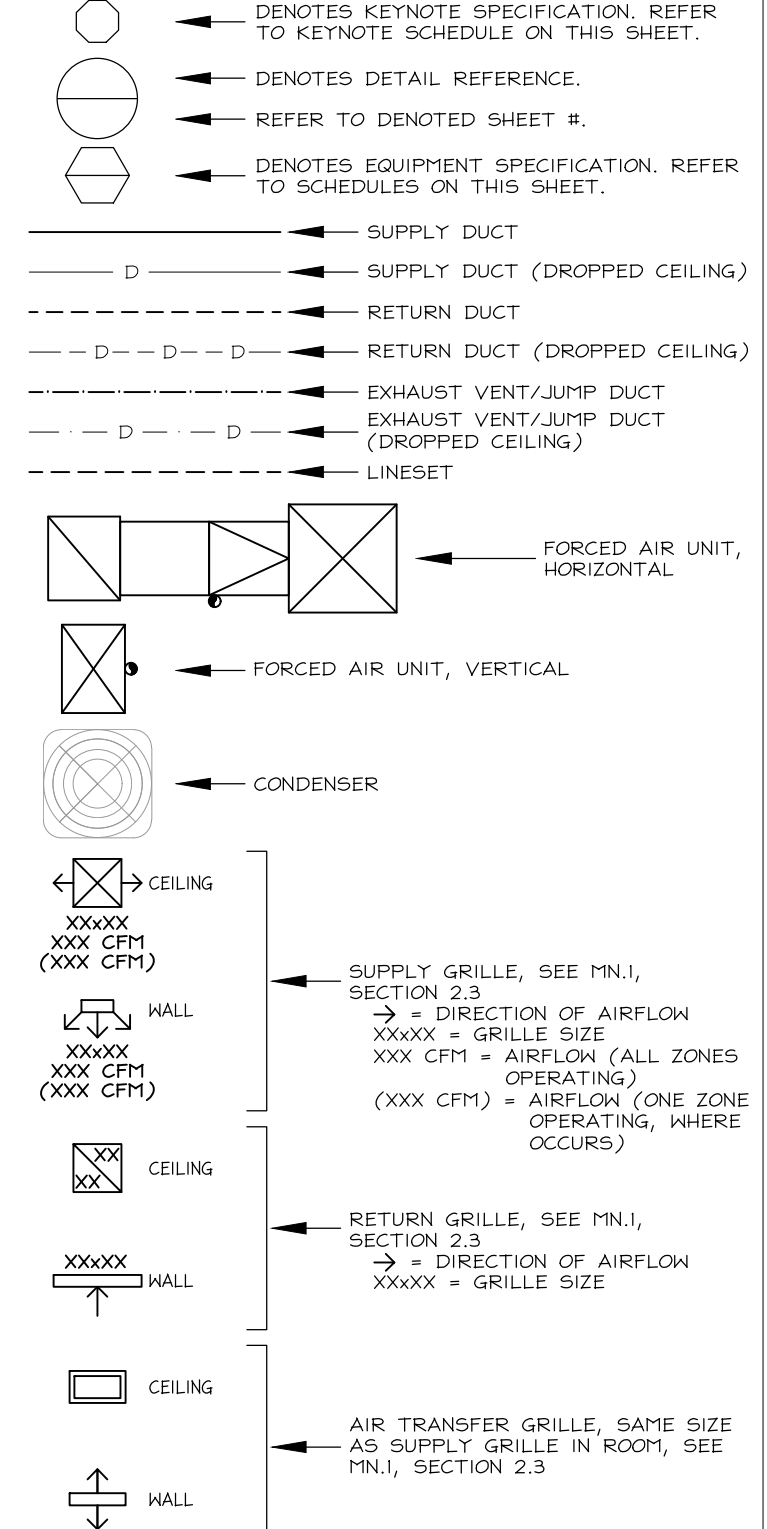
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FAN SCHEDULE

Table with columns: TYPE, MAKE MODEL, FAN TYPE, CFM, ENERGY, HEIGHTS, NOTES. Lists various fans like GREENHECK, PLASTEC, and their specifications for different rooms.

SYMBOLS LEGEND



DUCT MATERIAL SCHEDULE

Table with columns: TYPE, MATERIAL, REMARKS. Lists supply ducts, return ducts, and exhaust ducts made of sheet metal lino.

GRILLE REGISTER DIFFUSER SCHEDULE

Table with columns: TYPE, DESCRIPTION, MANUFACTURER, MODEL NUMBER, CEILING TYPE. Lists various grille and diffuser models and their specifications.

HEAT PUMP SCHEDULE

Table with columns: TAG, MAKE, INDOOR MODEL, OUTDOOR MODEL, CLG. CAP, HTG. CAP, INDOOR UNIT, BEER/SEER, HSPF, VOLT/FREQ, PCA, HEIGHT, FREE COOLING, SIZE. Lists heat pump models and their performance metrics.

KEYNOTES

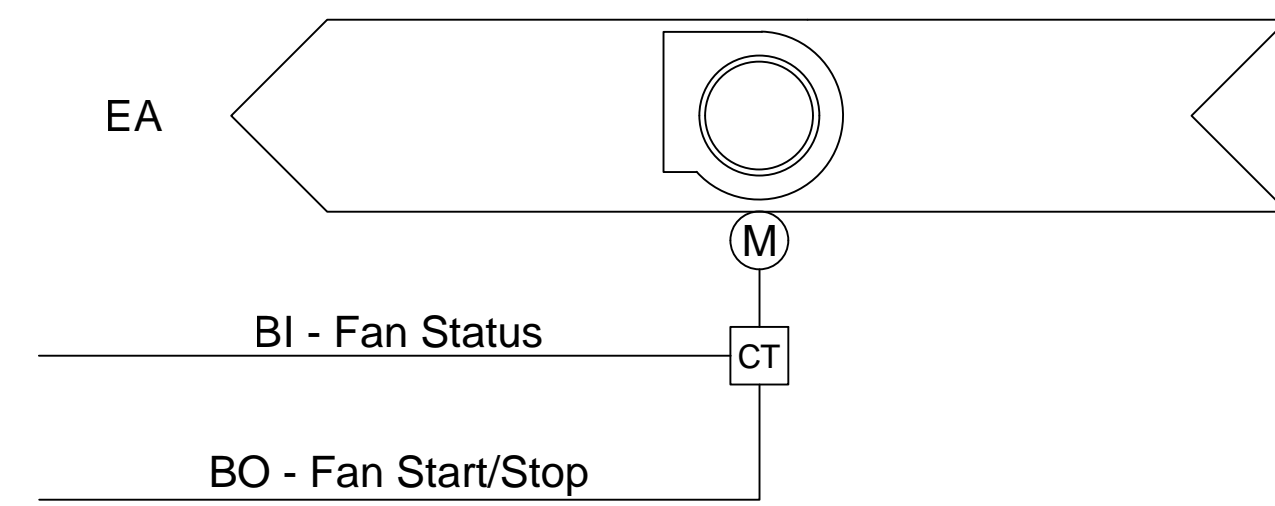
- (AA) ROUTE LINENET TO FAN COIL UNITS. COORDINATE ROUTING WITH STRUCTURAL FOR ALLOWABLE PENETRATIONS AS REQUIRED.
(II) DUCTED AIR TRANSFER SYSTEMS. CEILING GRILLES SIZED TO MATCH FAN HIGH AND DUCTWORK (RESPECTED C/FM). AND ASSOCIATED HARDWARE SHALL BE CHEMICAL RESISTANT AND MANUFACTURED TO WITHSTAND THE CHEMICAL WITHIN THE POOL CHEMICAL STORAGE ROOM. PROVIDE ADJUSTABLE VOLUME DAMPER FOR EXHAUST FLOW CONTROL.
(1A) THROUGH-HALL AIR TRANSFER GRILLE.
(1B) 16X16 DOOR LOUVERS AT +12'
(1E) PROVIDE FLEXIBLE CONNECTION FOR VIBRATION ISOLATION ON ALL DUCTWORK CONNECTIONS TO FANS OR UNITS. TRANSITION DUCTWORK TO FAN INLET AS REQUIRED.
(2A) PROVIDE CEILING ACCESS PANEL WHERE FAN/DAMPER OR VAV BOX IS NOT ACCESSIBLE THROUGH ATTIC PANEL TO HAVE SAME FIRE RATING AS CEILING, WHERE REQUIRED. SEE ARCHITECTURAL PLANS FOR FIRE RATING SPECIFICATIONS.
(33) EXHAUST VENT HTE, SIZE AS NOTED ON PLANS. ROUTE SINGLE VENT RISER TO ROOF OR HALL. VENT BRANCH DUCTS SHALL CONNECT TO MAIN VENT RISER SEPARATELY WITH INDIVIDUAL FITTINGS TO PREVENT ANY POSSIBLE BACK-FLOW. THE LARGEST DUCT SHALL ALWAYS ELBOW TO THE BEGINNING OF THE RISER VENT. SMALLER VENTS WILL CONNECT WITH INDIVIDUAL FITTINGS DOWNSTREAM OF MAIN RISER ELBOW.
(36A) ROUTE SHEET METAL DUCT THROUGH CEILING FRAMING AS REQUIRED. RECTANGULAR DUCTS MAY BE ROTATED, SPLIT UP, OFFSET OR TRANSITIONED TO ROUND DUCT AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. ROUND DUCTS MAY BE SPLIT UP, OR OFFSET AS NEEDED TO FIT THROUGH ANGLED FRAMING FREE AREAS. AIR DUCT ALTERATIONS SHALL COMPLY WITH SPACNA DUCT DESIGN REQUIREMENTS.
(36B) ROUTE DUCTWORK AS HIGH AS NEEDED TO PASS OVER AND AVOID LIGHT FIXTURES, SUPPORT AS REQUIRED.
(39A) SEALED COMBUSTION WATER HEATER, BY OTHERS. MUST MEET REQUIREMENTS OF TITLE 24 DOCUMENTATION. PROVIDE CONCENTRIC VENT THROUGH WALL, UNDO (SEE P/N), SECTION 3.3 FOR SPECIFICATIONS AND ALTERNATES.

PROJECT MANAGER: MW
DESIGNER: CB
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023
REVISIONS:



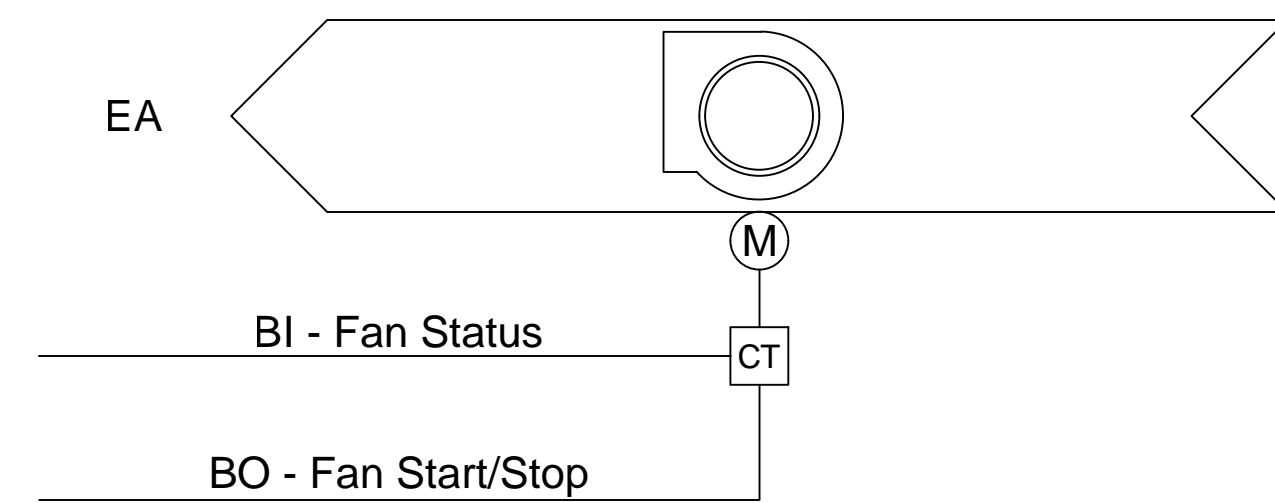
SEGMENT 2
LEVEL 1 MECHANICAL LAYOUT
SCALE: 1/4" = 1'-0"
JOB NUMBER: HS22244

CONTROLS: SEQUENCE OF OPERATION



1.1 EXHAUST Fan - On/Off
 Run Conditions - Interlocked:
 The fan(s) shall be interlocked to run continuously unless manually turned off.
 Fan Status:
 The controller shall monitor the fan status.

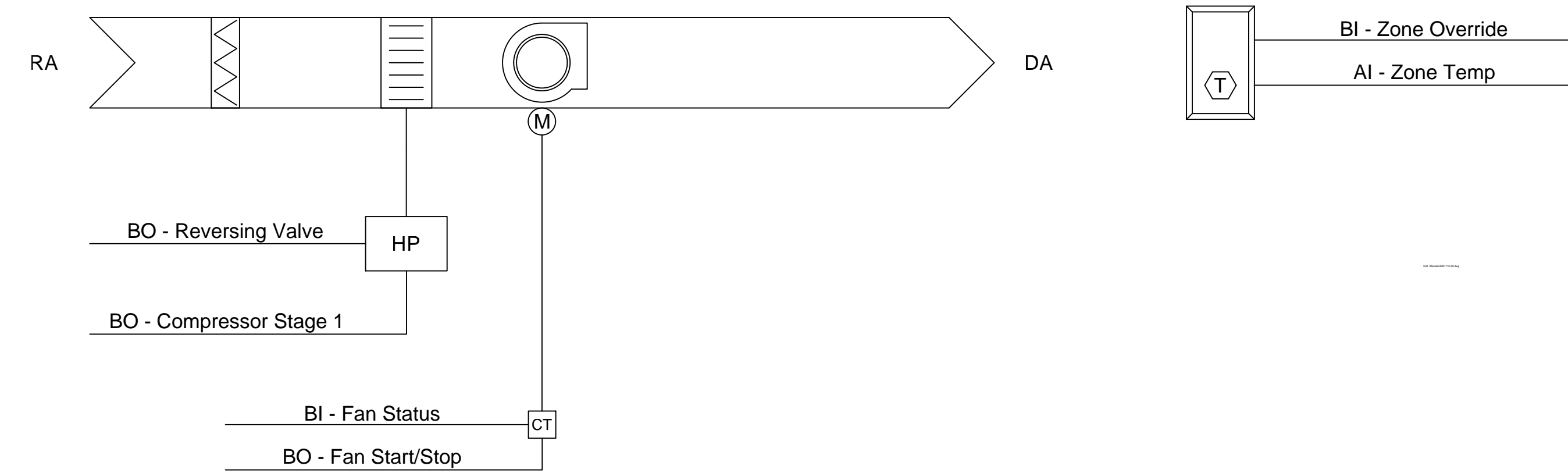
EXHAUST FAN - REST ROOMS



1.1 Exhaust Fan - On/Off
 Run Conditions - Interlocked:
 The Fan(s) shall run whenever temperatures exceed 85 deg. F
 Fan Status:
 The controller shall monitor the fan status.

EXHAUST FAN - GENERAL EXHAUST

EXHAUST FANS



CONTROLS: SEQUENCE OF OPERATION

1.1 AIR SOURCE HEAT PUMP

RUN CONDITIONS - SCHEDULED:
 THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 74 F ADJ. COOLING SETPOINT
 - A 70 F ADJ. HEATING SETPOINT
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
 - A 8 F ADJ. COOLING SETPOINT.
 - A F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN:
 THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

HEATING AND COOLING - 1 COMPRESSOR STAGE:
 THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND CYCLE THE COMPRESSOR TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE COMPRESSOR SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

THE HEATING SHALL BE ENABLED WHENEVER:
 OUTSIDE AIR TEMPERATURE IS LESS THAN F ADJ. .
 AND THE FAN IS ON.
 AND THE REVERSING VALVE IS IN HEAT MODE.

THE COOLING SHALL BE ENABLED WHENEVER:
 OUTSIDE AIR TEMPERATURE IS GREATER THAN 0 F ADJ. .
 AND THE FAN IS ON.
 AND THE REVERSING VALVE IS IN COOL MODE.

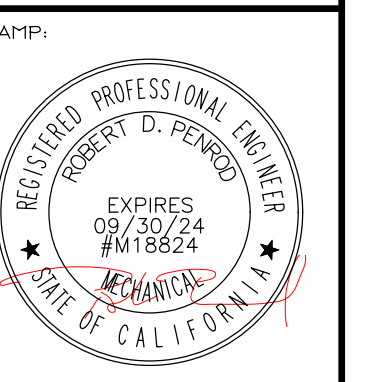
ON MODE CHANGE, THE COMPRESSOR SHALL BE DISABLED AND REMAIN OFF UNTIL AFTER THE REVERSING VALVE HAS CHANGED POSITION..

FAN STATUS:
 THE CONTROLLER SHALL MONITOR THE FAN STATUS.

- ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
 - FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
 - FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

AIR SOURCE HEAT PUMP CONTROLS DIAGRAM

PROJECT MANAGER:	MW
DESIGNER:	CB
DRAWN BY:	QES
CHECKED BY:	MW
ISSUE DATE:	01-13-2023
REVISIONS:	



PLAN NUMBER:
 SHEET TITLE:

**MECHANICAL
 DETAILS**

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

MD.1

BUILDING LOAD/SERVICE FEEDER CALCS		
BUILDING/SITE	FEEDER TYPE	SWIM CLUB
BUILDING PANEL LOADS:	208Y120V, 3Ø, 4W	
LIGHTING -8F * 2VA/SF PLUS SITE		7,200VA
RECEPTACLES-8F * 3VA/SF		8,000VA
FUTURE ON-SITE EVCS @ 125%	2	16,640VA
HVAC	2	15,000VA
WATER HEATER (TANKLESS)		360VA
POOL PANEL	-	54,000VA
LOW VOLTAGE (IT, FA, IRRIGATION, ETC)		500VA
TOTAL SERVICE DEMAND LOAD		101,700VA
TOTAL SERVICE DEMAND AMPS		283A
SERVICE FEEDER AMPS		400A

BUILDING LOAD/FEEDER CALCULATIONS

NEW	EXISTING	MOUNTING SURFACE (NEMA 3R)										AIC:	10KAIC (FIELD VERIFY)			
VOLTAGE:		208Y120V, 3Ø, 4W										MAIN:	150A WEBS			
BUS:		200A										LOCATION:	EXTERIOR OFF BLDG			
LOAD DESCRIPTION	VOLT-AMPERES	ØA	ØB	ØC	T	P	A	B	C	T	P	ØA	ØB	ØC	LOAD DESCRIPTION	MLO
1 OFF/KITCHEN/STOR LGT					20	1	●	20	1	720					SECURITY RECPS	2
3 EXTERIOR LGT					20	1	●	20	1	360				KITCHEN/STOR CONV RECEP	4	
5 OFF MEET R RECPS					20	1	●	20	1	800				FIDGE RECEP	8	
7 OFF MEET R RECPS	540				20	1	●	20	1	400				GARBAGE DISPOSAL RECEP	8	
9 OFF W RECPS					20	1	●	20	1	1,200				DISHWASHER RECEP	10	
11 OFF E RECPS					20	1	●	20	1	540				KITCH AC RECEP	12	
13 FIRE/PT RECEP	180				20	1	●	20	1	800				PRINTER/COPPER RECEP	14	
15 SPARE					20	1	●	20	1					SPARE	16	
17 EXTERIOR RECPS					20	1	●	20	1					SPARE	18	
SPLIT BUS FOR AGGREGATION OF LOADS																
19 HP-1A	386				15	2	●	20	1					SPARE	20	
21					20	1	●	20	1					SPARE	22	
23 HP-1	2,412				40	2	●	20	1					EXHAUST FANS	24	
25					20	1	●	20	1					SPARE	26	
27					20	1	●	20	1					SPARE	28	
29					20	1	●	20	1					SPARE	30	
31					20	1	●	20	1					SPARE	32	
33					20	1	●	20	1					SPARE	34	
35					20	1	●	20	1					SPARE	36	
37					20	1	●	20	1					SPARE	38	
39					20	1	●	20	1					SPARE	40	
41					20	1	●	20	1					SPARE	42	
SUBTOTAL																
TOTAL VOLT-AMPERES/PHASE:	ØA = 5,419											1,920	1,560	1,540		
TOTAL PANEL VOLT-AMPERES:	14,096											ØB = 2,786	ØC = 5,892	CONNECTED AMPS:	39	

NEW	EXISTING	MOUNTING SURFACE (NEMA 3R)										AIC:	22KAIC (FIELD VERIFY)			
VOLTAGE:		208Y120V, 3Ø, 4W										MAIN:	150A WEBS			
BUS:		200A										LOCATION:	POOL EQUIPMENT ROOM			
LOAD DESCRIPTION	VOLT-AMPERES	ØA	ØB	ØC	T	P	A	B	C	T	P	ØA	ØB	ØC	LOAD DESCRIPTION	MLO
1 SPACE															SPACE	2
3 SPACE														SPACE	4	
5 SPACE														SPACE	6	
7 SPACE														SPACE	8	
9 SPACE														SPACE	10	
11 SPACE														SPACE	12	
13 SPACE														SPACE	14	
15 SPACE														SPACE	16	
17 SPACE														SPACE	18	
19 SPACE														SPACE	20	
21 SPACE														SPACE	22	
23 SPACE														SPACE	24	
25 SPACE														SPACE	26	
27 SPACE														SPACE	28	
29 SPACE														SPACE	30	
31 SPACE														SPACE	32	
33 SPACE														SPACE	34	
35 SPACE														SPACE	36	
37 SPACE														SPACE	38	
39 SPACE														SPACE	40	
41 SPACE														SPACE	42	
SUBTOTAL																
TOTAL VOLT-AMPERES/PHASE:	ØA = 0											ØB = 0	ØC = 0	CONNECTED AMPS:	0	

NEW	EXISTING	MOUNTING SURFACE (NEMA 3R)										AIC:	42KAIC (FIELD VERIFY)			
VOLTAGE:		208Y120V, 3Ø, 4W										MAIN:	150A WEBS			
BUS:		400A										LOCATION:	ELEC RM			
LOAD DESCRIPTION	VOLT-AMPERES	ØA	ØB	ØC	T	P	A	B	C	T	P	ØA	ØB	ØC	LOAD DESCRIPTION	MLO
1 SPARE					20	1	●	20	1	400					RESTROOM EFS	2
3 SPARE					20	1	●	20	1	400				STOR/ELC EFS	4	
5 SPARE					20	1	●	20	1	720				POOL EQUIP EFS	6	
7 SPACE					20	1	●	20	1	400				SHOWER EFS	8	
9 SPACE					20	1	●	20	1					SPACE	10	
11 SPACE					20	1	●	20	1					SPACE	12	
13	1,440				20	1	●	20	1					SPACE	14	
15	1,680				40	2	●	20	1					PANEL "R"	16	
17	1,940				20	1	●	20	1					SPACE	18	
19	6,656				20	1	●	20	1	1,250				SPACE	20	
21					20	1	●	20	1	500				PANEL "EV"	22	
23	3,328				40	2	●	20	1					SPACE	24	
SUBTOTAL																
TOTAL VOLT-AMPERES/PHASE:	ØA = 10,146											2,050	900	1,220		
TOTAL PANEL VOLT-AMPERES:	22,542											ØB = 5,908	ØC = 6,468	CONNECTED AMPS:	63	

NEW	EXISTING	MOUNTING SURFACE (NEMA 3R)										AIC:	42KAIC (FIELD VERIFY)			
VOLTAGE:		208Y120V, 3Ø, 4W										MAIN:	150A WEBS			
BUS:		100A										LOCATION:	ELEC RM			
LOAD DESCRIPTION	VOLT-AMPERES	ØA	ØB	ØC	T	P	A	B	C	T	P	ØA	ØB	ØC	LOAD DESCRIPTION	MLO
1 BY CAPABLE RESERVED FOR FUTURE ON-SITE EVCS	3,328				40	2	●	40	2						SPARE	2
3 FUTURE ON-SITE EVCS	3,328				40	2	●	40	2					SPARE	4	
5 BY CAPABLE RESERVED FOR FUTURE ON-SITE EVCS	3,328				40	2	●	40	2					SPARE	6	
7 EXT BATH RECEP					20	1	●	20	1					SPACE	8	
9 SPACE					20	1	●	20	1					SPACE	10	
11 SPACE					20	1	●	20	1					SPACE	12	
13 SPACE					20	1	●	20	1					SPACE	14	
15 SPACE					20	1	●	20	1					SPACE	16	
17 SPACE					20	1	●	20	1					SPACE	18	
SUBTOTAL																
TOTAL VOLT-AMPERES/PHASE:	ØA = 6,656											0	0	0		
TOTAL PANEL VOLT-AMPERES:	13,312											ØB = 3,328	ØC = 3,328	CONNECTED AMPS:	37	

BUILDING PANEL SCHEDULES

*POOL EQUIPMENT AND DESIGN SELECTION IS A DEFERRED SUBMITTAL. PANEL SCHEDULE FOR POOL EQUIPMENT SHALL BE PROVIDED BY OTHERS.

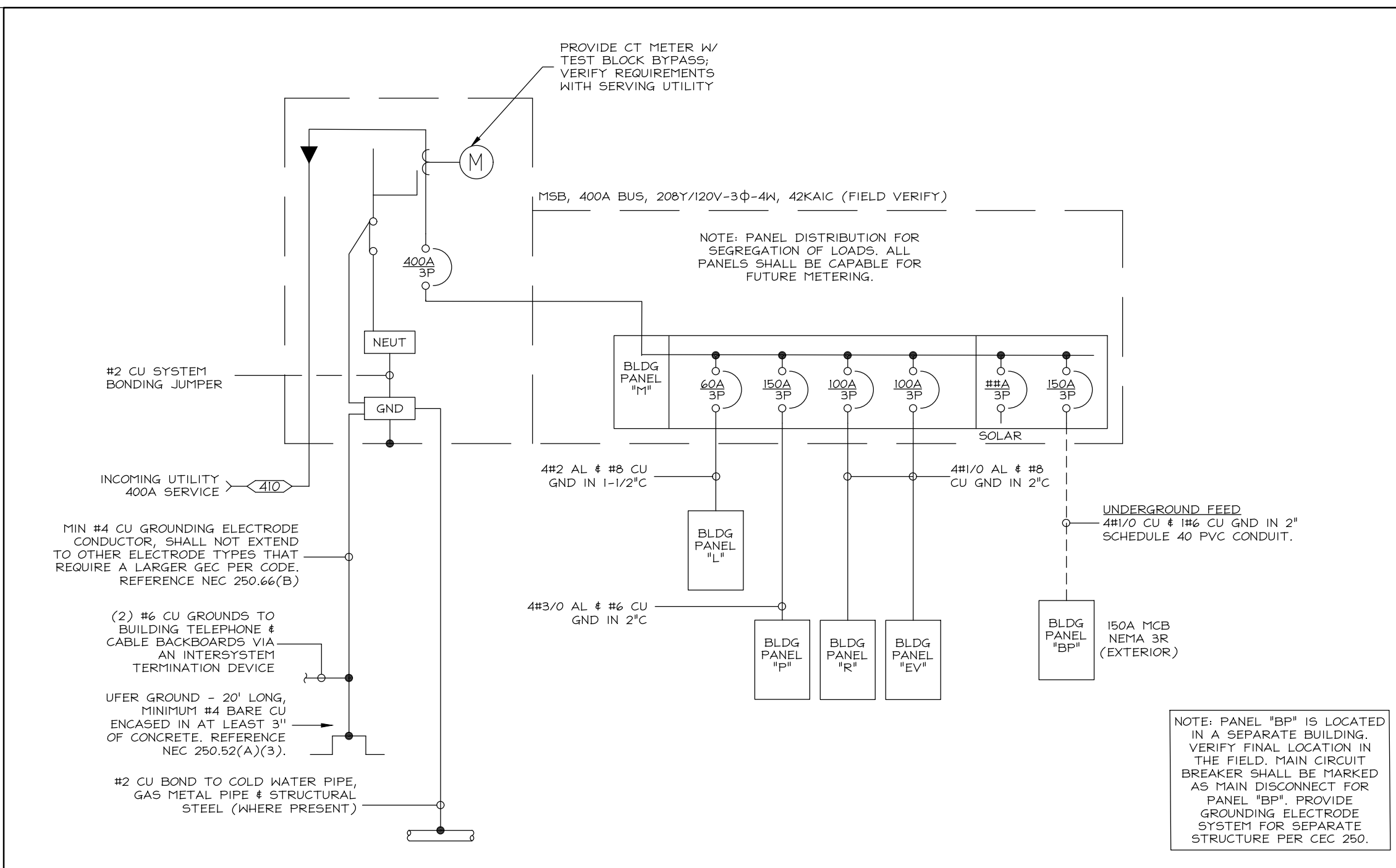
AVAILABLE FAULT CALCULATION - SWIM CLUB	L	R	EV	P	BP
APPROXIMATE DISTANCE FROM SOURCE TO EACH PANEL	5 ft.	5 ft.	5 ft.	40 ft.	152 ft.
STARTING AFC VALUE	42,000	42,000	42,000	42,000	42,000
VOLTAGE (V)	208	208	208	208	208
WIRE TYPE	AL	AL	AL	AL	CU
WIRE SIZE	2	2	1/0	3/0	1/0
WIRE CONSTANT	3713	3713	5777	8826	9317
APPROXIMATE AFC AT PANEL	28,553	28,553	32,241	16,248	6,263
EQUIPMENT AFC RATING	42KAIC	42KAIC	42KAIC	22KAIC	10KAIC

AFC/AIC CALCULATIONS

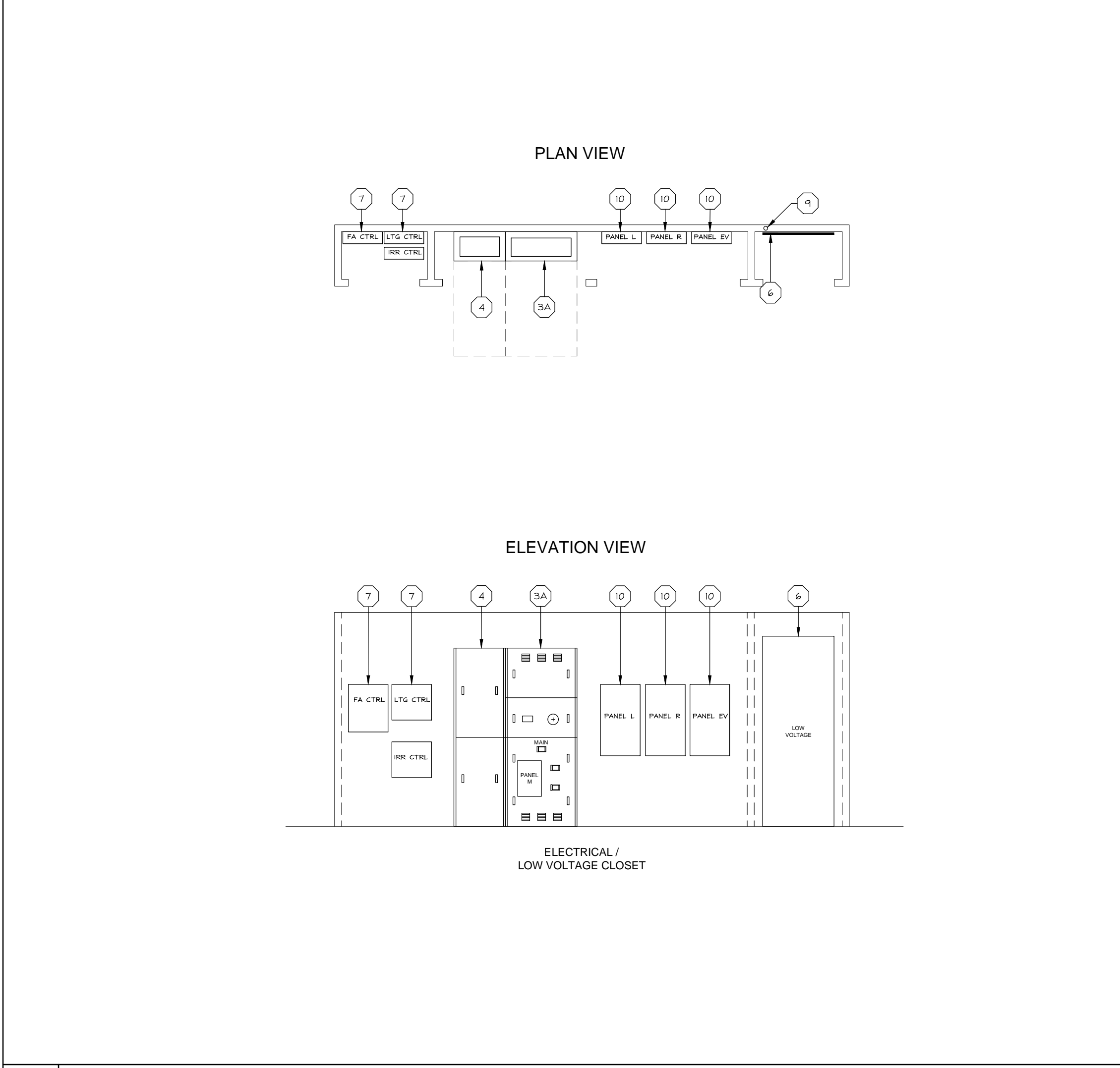
THE INTERRUPTING RATING OF ALL EQUIPMENT IS BASED ON WORST-CASE UTILITY FAULT CONTRIBUTION. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL AFC VALUES. ANY DEVIATIONS FROM THE CONSTRUCTION DRAWINGS REQUIRES APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO PURCHASING EQUIPMENT. CONTRACTOR SHALL PROVIDE UPDATED CALCULATIONS BASED ON FIELD CONDITIONS AND FINAL UTILITY CONTRIBUTION VALUES WHICH SHALL BE USED TO MARK THE EQUIPMENT IN THE FIELD PER CODE. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THAT GIVEN BY THE SERVING UTILITY.

LOAD	CIRCUIT TYPE	VOLTAGE (V)	PHASE	CURRENT (A)	PF	LENGTH IN FT (ONE-WAY)	WIRE SIZE	WIRE TYPE	WIRE SETS	CONDUIT TYPE	Z ₀ /1000FT	VOLTAGE DROP (V)	% DROP
MSBM TO PANEL L	FEEDER	208	3PH	42	0.85	5	2	AL	1	STEEL	0.3	0.11	0.05%
PANEL L TO FURTHEST INT LIGHT	BRANCH	120	1PH	5	0.85	60	12	CU	1	STEEL	1.7	1.02	0.85%
MSBM TO PANEL R	FEEDER	208	3PH	42	0.85	5	2	AL	1	STEEL	0.3	0.11	0.05%
PANEL R TO FURTHEST OUTLET	BRANCH	120	1PH	3	0.85	55	12	CU	1	STEEL	1.7	0.56	0.47%
MSBM TO PANEL EV	FEEDER	208	3PH	80	0.85	5	1/0	AL	1	STEEL	0.2	0.14	0.07%
PANEL R TO FURTHEST OUTLET	BRANCH	208	1PH	32	0.85	20	8	CU	1	PVC	0.69	0.88	0.42%
MSBM TO PANEL P	FEEDER	208	3PH	120	0.85	40	3/0	AL	1	STEEL	0.14	1.16	0.56%
MSBM TO PANEL BP (OFF BLDG)	FEEDER	208	3PH	120	0.85	152	1/0	CU	1	PVC	0.13	4.11	1.97%
PANEL BP TO FURTHEST INT LIGHT	BRANCH	120	1PH	5	0.85	65	12	CU	1	STEEL	1.7	1.11	0.92%
PANEL BP TO FURTHEST OUTLET	BRANCH	120	1PH	6	0.85	45	12	STEEL	1	STEEL	1.7	0.92	0.74%
PANEL BP TO FURTHEST MECH UNIT	BR												

ONE-LINE'S AND CLOSET LAYOUTS



E1 | ONE-LINE DIAGRAM - SWIM CLUB



E2 | UTILITY CLOSET EQUIPMENT LAYOUT

SERVICE CONDUCTORS				
TAG	CONDUIT & CONDUCTOR SIZES			
<410>	(2) 28°C. W/ (4) # 250 KCMIL AL IN EACH			
<615>	(3) 28°C. W/ (4) # 250 KCMIL AL IN EACH			
<820>	(4) 28°C. W/ (4) # 250 KCMIL AL IN EACH			
<1020>	(3) 4°C. W/ (4) # 600 KCMIL AL IN EACH			
<1240>	(4) 4°C. W/ (4) # 500 KCMIL AL IN EACH			
<1300>	(6) 3°C. W/ (4) # 400 KCMIL AL IN EACH			

BRANCH CIRCUIT CONDUCTORS					
CIRCUIT CAPACITY	CONDUIT 2-WIRE	CONDUIT 3-WIRE	CONDUIT 4-WIRE	WIRE SIZE 1	GROUND SIZE 2
20A	3/4"	3/4"	3/4"	#12	#12
25A	3/4"	3/4"	3/4"	#10	#10
30A	3/4"	3/4"	3/4"	#10	#10
35A	3/4"	3/4"	3/4"	#10	#10
40A	3/4"	3/4"	3/4"	#8	#10
45A	3/4"	3/4"	3/4"	#6	#10
50A	3/4"	3/4"	1"	#6	#10
60A	3/4"	1"	1-1/4"	#4	#10
70A	1"	1"	1-1/4"	#4	#8
80A	1"	1-1/4"	1-1/4"	#3	#8
90A	1"	1-1/4"	1-1/4"	#2	#8
100A	1-1/4"	1-1/4"	1-1/2"	#1	#8
150A	1-1/4"	1-1/4"	1-1/2"	#1	#6
125A	1-1/4"	1-1/4"	1-1/2"	#1	#6

1 WIRE SIZE IS BASED ON CEC TABLE 310.16. CONDUCTORS ARE ALL COPPER TYPE. ALL CIRCUITS 100A AND LOWER ARE SIZED FROM 40°C COLUMN AND CIRCUITS GREATER THAN 100A ARE SIZED FROM 75°C COLUMN.

2 GROUND SIZE IS BASED ON THE EQUIPMENT GROUNDING CONDUCTOR USING CEC TABLE 250.122

NOTES:

- CIRCUITS DO NOT USE THE ALLOWANCES STATED UNDER CEC 240.4(B). ALL CONDUCTORS ARE FULLY RATED FOR THE BREAKER.
- CONDUITS SHALL NOT EXCEED 40% FILL USING THE SELECTED CONDUIT TYPE. INTERIOR DIAMETER FOR CONDUIT CHANGED BASED ON CONDUIT TYPE.
- TABLE SHALL NOT BE USED FOR TAPS OR OTHER DE-RATING REQUIREMENTS.
- VOLTAGE DROP IS NOT CONSIDERED PART OF THE TABLE.
- WIRE AND CONDUIT SIZE ARE BASED ON A SINGLE SET.

ELECTRICAL EQUIPMENT KEYNOTES	
3	BUILDING METER/HAIN WITH DISTRIBUTION (NOT TO EXCEED 24" DEPTH AND 36" WIDTH)
4	FULL BOX (MAX 24" SECTION)
6	LOW VOLTAGE BACKBOARD / CABINET(S)
7	IRRIGATION CONTROLLER / FIRE ALARM CONTROL PANEL (WHERE OCCUR)
10	PANELBOARD (20" SECTION)

SEE ARCHITECTURAL PLANS FOR SPECIFIC CLOSET DIMENSIONS AND LOCATION / ORIENTATION OF UTILITY CLOSET(S). PER THE SITE PLAN.

TYPICAL CLEARANCE REQUIREMENTS:
EQUIPMENT INSIDE CLOSET - MIN 4" FROM SIDE WALL AND MIN 24" INTERIOR CLOSET DEPTH.
SERVICE CLEARANCE AT ALL EQUIPMENT - MIN 30" X 36" WITH A LEVEL WORKING SURFACE AT CLOSET. CLEARANCE REQUIRED WITH DOORS OPEN 90° OR MORE.
* VERIFY SERVING UTILITY REQUIREMENTS PRIOR TO INSTALLATION.

ELECTRICAL SYMBOLS LEGEND	
	GFI DUPLEX RECEPTACLE, PROVIDE (2) FOR TELECOMMUNICATIONS BACKBOARD / BACKBOARD
	GFI DUPLEX RECEPTACLE, PROVIDE (2) FOR IRRIGATION CONTROLLER & FIRE ALARM CONTROL PANEL (WHERE OCCURS)
	SWITCH
	SURFACE MOUNT LED LIGHT WITH 90 MINUTE BATTERY BACKUP
	4-FOOT LONG SURFACE MOUNT LED STRIP LIGHTS WITH 90 MINUTE BATTERY BACKUP

NOTE: ALL RECEPTACLES AND LIGHTING LOCATED IN UTILITY CLOSET TO BE HIRED TO THE BUILDING PANEL.

FOR JURISDICTION USE:

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COTA VERA SWIM CLUB
CHULA VISTA, CA

HOMEFIELD CORPORATION
1803 WILLOW CREEK, SUITE 200
CARLSBAD, CA 92008

PROJECT: PROJECT MANAGER: AS

DESIGNER: AS

DRAWN BY: SAM

CHECKED BY: AS

ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:

PLAN NUMBER:

SHEET TITLE: ONE-LINE AND CLOSET LAYOUTS

SCALE:

SHEET NUMBER: EN.2

JOB NUMBER: HS22244

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 1 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 5 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document.

Table with 4 columns: YES, NO, Form/Title, Field Inspector (Pass/Fail). Rows include NRCLTI-01-E, NRCLTI-02-E, NRCLTI-04-E, NRCLTI-05-E, NRCLTI-06-E.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 6 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections have been made based on information provided in previous tables of this document.

Table with 4 columns: YES, NO, Form/Title, Field Inspector (Pass/Fail). Rows include NRCA-LTI-02-A, NRCA-LTI-03-A, NRCA-LTI-04-A, NRCA-LTI-05-A, NRCA-ENV-03-F.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 4 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 5 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document.

Table with 4 columns: YES, NO, Form/Title, Field Inspector (Pass/Fail). Rows include NRCLTI-01-E, NRCLTI-02-E, NRCLTI-04-E, NRCLTI-05-E, NRCLTI-06-E.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 6 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections have been made based on information provided in previous tables of this document.

Table with 4 columns: YES, NO, Form/Title, Field Inspector (Pass/Fail). Rows include NRCA-LTI-02-A, NRCA-LTI-03-A, NRCA-LTI-04-A, NRCA-LTI-05-A, NRCA-ENV-03-F.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 1 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

A. GENERAL INFORMATION Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations.

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 2 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

Controls Compliance (See Table H for Details) COMPLIES with Exceptional Conditions

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

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

F. INDOOR LIGHTING FIXTURE SCHEDULE Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Table with 11 columns: 01-10, Name or Item Tag, Complete Luminaire Description, Modular (Track) Fixture & Color Change, Small Aperture, Watts per luminaire, How Wattage is determined, Total number luminaires, Exempt per §140.6(a)(3), Design Watts, Field Inspector (Pass/Fail).

* FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCCLTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 3 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

G. MODULAR LIGHTING SYSTEMS This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs) Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table.

Table with 3 columns: 01, 02, 03. Rows include Building Level Controls, Area Level Controls.

Table with 12 columns: 04-12. Rows include Area Description, Complete Building or Area Category, Area Controls, Multi-Level Controls, Shut-Off Controls, Primary/Skylit Daylighting, Secondary Daylighting, Interlocked Systems, Field Inspector (Pass/Fail).

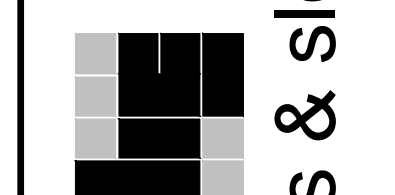
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(a)(2)

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

FOR JURISDICTION USE:

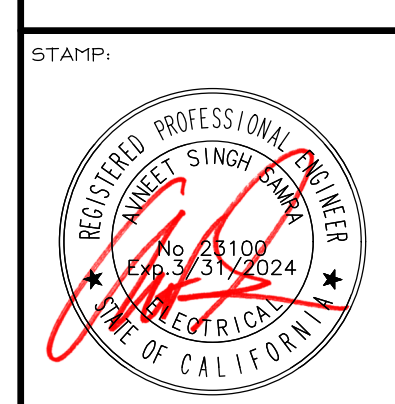
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COTA VERA SWIM CLUB CHULA VISTA, CA HOMEFEED CORPORATION 1803 WILLOW ROAD, SUITE 200 CARLETON, CA 92008

PROJECT MANAGER: AS DESIGNER: AS DRAWN BY: SAM CHECKED BY: AS ISSUE DATE: 01-13-2023 REVISIONS:



PLAN NUMBER: POOL BLDG SHEET TITLE: TITLE 24 INDOOR LIGHTING FORMS

SCALE: SHEET NUMBER: EN.4 JOB NUMBER: HS22244

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 1 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 5 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 6 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 4 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 5 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 6 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 1 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 2 of 7. Date Prepared: 12/04/2022.

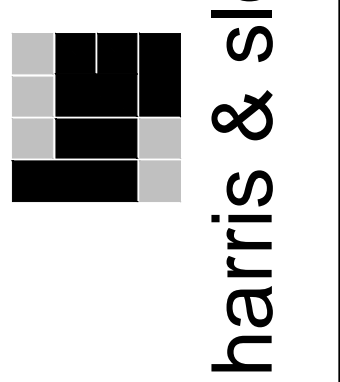
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE. Project Name: COTA VERA SWIM CLUB - OFFICE BLDG. Report Page: Page 3 of 7. Date Prepared: 12/04/2022.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

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COTA VERA SWIM CLUB CHULA VISTA, CA

HOMEFIELD CORPORATION 1803 WILLOW LANE, SUITE 200 CARLSBAD, CA 92008

PROJECT MANAGER: AS DESIGNER: AS DRAWN BY: SAJM CHECKED BY: AS ISSUE DATE: 01-13-2023



PROJECT: OFFICE BLDG SHEET TITLE: TITLE 24 INDOOR LIGHTING FORMS

SCALE: SHEET NUMBER: EN.5 JOB NUMBER: HS22244

TITLE 24 COMPLIANCE

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 1 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 4 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 5 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 6 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 1 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 2 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

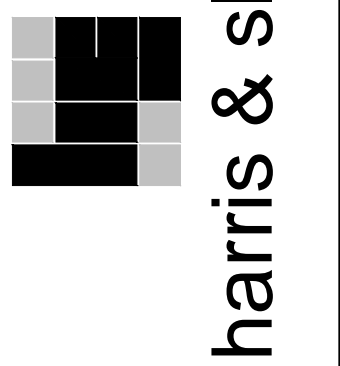
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 03/21) CERTIFICATE OF COMPLIANCE Project Name: COTA VERA SWIM CLUB - POOL BLDG Report Page: Page 3 of 7 Project Address: CHULA VISTA, CALIFORNIA Date Prepared: 12/04/2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards March 2021

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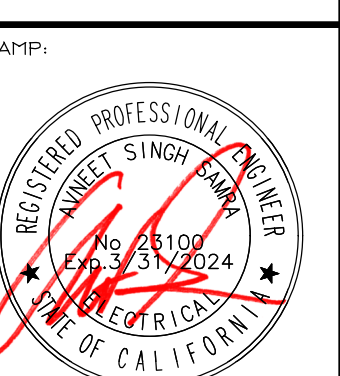
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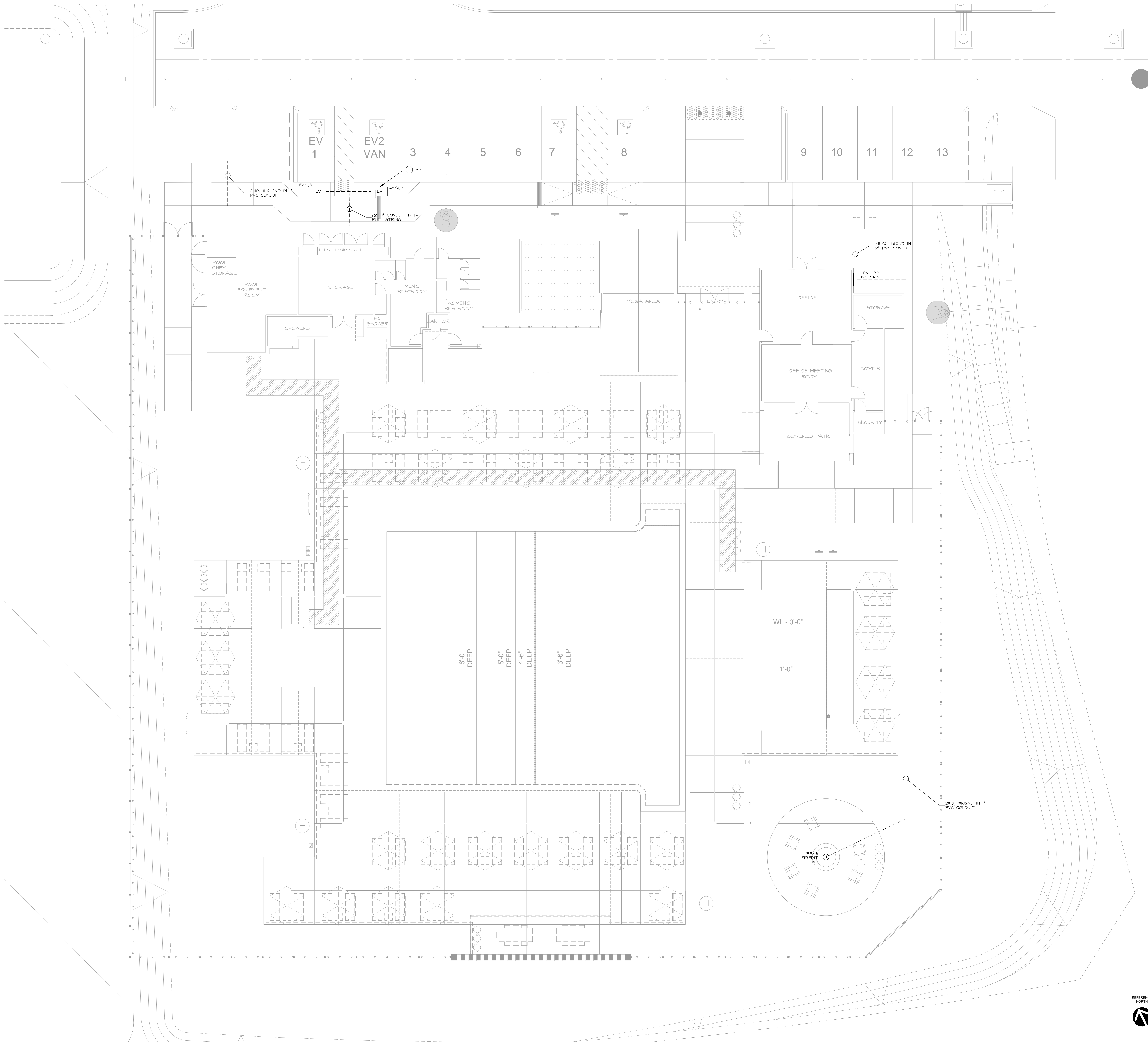
COTA VERA SWIM CLUB CHULA VISTA, CA

HOMEEED CORPORATION 1803 WILSON BLVD, SUITE 200 CARLSBAD, CA 92008

PROJECT MANAGER: AS DESIGNER: AS DRAWN BY: SAJM CHECKED BY: AS ISSUE DATE: 01-13-2023 REVISIONS:



PROJECT: POOL BLDG SHEET TITLE: TITLE 24 INDOOR LIGHTING FORMS SCALE: SHEET NUMBER: EN.6 JOB NUMBER: HS22244



GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE EN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

COMPONENTS SHOWN IN PLANS SHALL BE CREDITED TO DESIGNATED PANEL. ANY DEVIATION FROM ASSIGNED CIRCUITS SHALL BE APPROVED BY ENGINEER AND AS-BUILT FOR FINAL RECORD SET.

ELECTRICAL EQUIPMENT:
ELECTRIC SERVICE / EQUIPMENT ARE LOCATED IN A UTILITY CLOSET/ETOR EXTERIOR OF BUILDING.

EXTERIOR LIGHTING:
WHERE SITE LIGHTING IS PROVIDED BY FIXTURE(S) ATTACHED TO THE BUILDING, SEE LIGHTING / PHOTOMETRIC PLAN (BY OTHERS) FOR FIXTURE SPECIFICATIONS AND LOCATIONS AT EACH BUILDING.

KEYNOTES

- PROVIDE UNDERGROUND JUNCTION BOX PER CEC 314. COORDINATE FINAL LOCATION WITH LANDSCAPE.

SYMBOLS LEGEND

NOTATION DEFINITIONS:

- AFF → ABOVE FINISH FLOOR
- BP → BUILDING PANEL
- CCT → CIRCUIT
- EV → ELECTRICAL VEHICLE
- MS → MOTION SENSOR
- PC → PHOTOCELL
- WP → WEATHER PROOF

SYMBOLS:

- ⊕ → JUNCTION BOX
- ⊕ → DUPLEX WALL RECEPTACLE, GFI PROTECTED
- ⊕ → SINGLE WALL SWITCH
- ⊕ → WALL-MOUNT LIGHT FIXTURE
- ⊕ → CEILING-MOUNT LIGHT FIXTURE
- ⊕ → CEILING-MOUNT UTILITY FIXTURE
- ⊕ → POLE LIGHT WITH ARM
- ⊕ → LUMINOUS POLE LIGHT
- ⊕ → POST-TOP LIGHT
- ⊕ → BOLLARD

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COTA VERA SWIM CLUB
CHULA VISTA, CA

HOMEFEEED CORPORATION
1983 WILMINGTON PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT: _____
CLIENT: _____

PROJECT MANAGER: AS
DESIGNER: AS
DRAWN BY: SAM
CHECKED BY: AS
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:

PLAN NUMBER: _____
SHEET NUMBER: _____
SHEET TITLE: _____

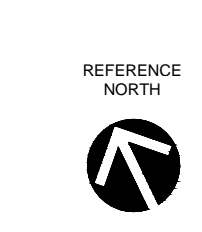
ELECTRICAL SITE LAYOUT

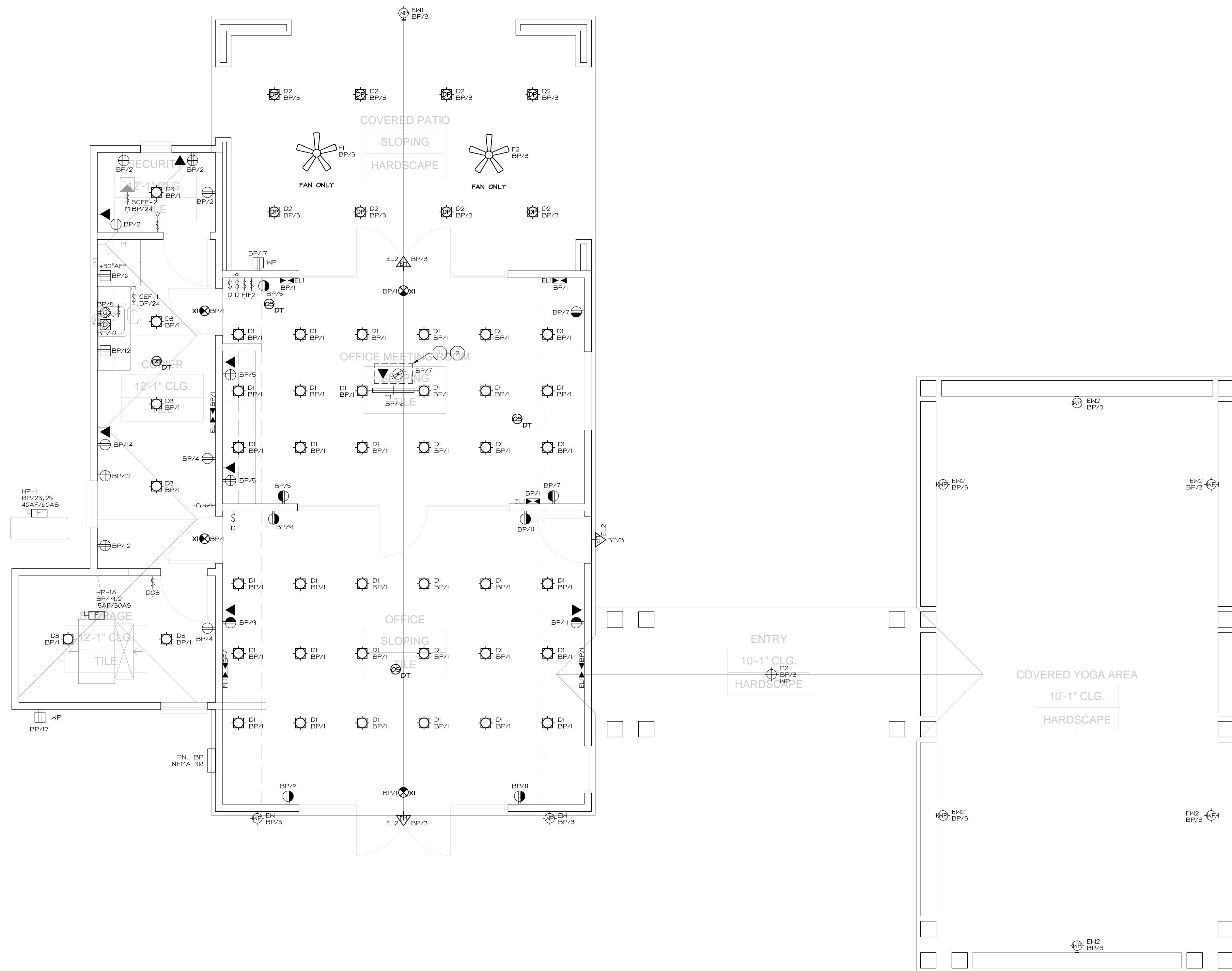
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SHEET NUMBER: _____

ES.1

JOB NUMBER: HS22244





GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE EN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

ELECTRICAL EQUIPMENT:
ELECTRIC AND LOW VOLTAGE SERVICES / EQUIPMENT ARE LOCATED IN A UTILITY CLOSET OR AN EXTERIOR HALL AT THE END OF THE BUILDING, SEE BUILDING PLANS FOR LOCATION(S) AND COORDINATE WITH ARCHITECTURAL SITE PLAN.

MECHANICAL EQUIPMENT:
CONDENSING UNITS ARE LOCATED ON THE GROUND AT THE END OF THE BUILDING / OR THE ROOF, COORDINATE WITH ARCHITECTURAL SITE PLAN FOR LOCATION(S). PROVIDE DISCONNECT AND SERVICE OUTLET, SEE SHEET EN1 SECTION 1.5 FOR GENERAL REQUIREMENTS.

EXTERIOR LIGHTING:
WHERE SITE LIGHTING IS PROVIDED BY FIXTURE(S) ATTACHED TO THE BUILDING, SEE LIGHTING / PHOTOMETRIC PLAN (BY OTHERS) FOR FIXTURE SPECIFICATIONS AND LOCATIONS AT EACH BUILDING.

SOLAR:
SOLAR PANELS PROVIDED ON ROOF, LOCATION VARIES BASED ON ORIENTATION OF STRUCTURE, SEE SOLAR PLANS PROVIDED BY OTHERS FOR LOCATION AND COORDINATE SOLAR SYSTEM INTERFACE REQUIREMENTS.

EXTERIOR LAYOUT NOTES

- ALL FIXTURES SHOWN IN BUILDING LAYOUTS ARE TO BE WIRED TO THE BUILDING PANELS, AND:
- WIRE CONDENSING UNITS TO THE UNIT SUB-PANEL AND PROVIDE A MEANS OF CIRCUIT INTERRUPT WITHIN SIGHT OF AND NOT OVER 50' FROM THE CONDENSING UNIT PER CPC. SEE DETAIL E221.2. A HEATER-RESISTANT GFI PROTECTED SERVICE RECEPTACLE SHALL BE LOCATED WITHIN 25' OF CONDENSING UNIT. WHERE CONDENSING UNITS ARE GROUPED AT THE SIDE OF A BUILDING OR ON THE ROOF, A SINGLE COPPER RECEPTACLE WITHIN 25' CAN BE USED TO SERVICE MULTIPLE CONDENSING UNITS. IF PROVIDED, WIRE COPPER RECEPTACLE TO THE BUILDING PANEL. COORDINATE LOCATION OF DISCONNECT AND SERVICE RECEPTACLE WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
- ILLUMINATED ADDRESS LIGHTS SHALL COMPLY WITH ADDRESS IDENTIFICATION REQUIREMENTS PER ARCHITECTURAL PLANS.

KEYNOTES

- PROVIDE COOPERATION POWER/DATA FLOOR BOX. ARCHITECT TO PROVIDE FINAL LOCATION.
- ROUTE CONDUITS FOR COOPERATION FLOOR BOX PRIOR TO SLAB POUR. CONDUIT/WIRING SHALL ROUTED AND DROP DOWN THROUGH NEAREST HALL WITH UNDERGROUND RUN TO FLOOR LOCATION.
- REFER TO EN SHEETS FOR POWER AND LIGHTING LAYOUT(S) AT UTILITY CLOSET(S).

SYMBOLS LEGEND

NOTATION DEFINITIONS:	
3	3-WAY
APF	ABOVE FINISH FLOOR
D/DOS	DIFFER/DIFFER W/ OCCUPANCY SENSOR
DP/HP	DAMP PROOF OR HEATHER PROOF
DT	DUAL TECHNOLOGY
IR	INFRARED
M	MOTOR RATED SWITCH
OS	OCCUPANCY SENSOR
PC	PHOTOCELL
US	ULTRASONIC
V	VACUANCY SENSOR
WP	WEATHER PROOF
KEY	AUTHORIZED KEY LIGHT SWITCH
TC	TIMELOCK
EMER	EMERGENCY
NL	NIGHT LIGHT
LV	LOW VOLTAGE

SYMBOLS	
[Symbol]	DUPLX HALL RECEPTACLE
[Symbol]	AFCI LOCATIONS, SEE SHEET EN1 SECTION 1.5
[Symbol]	HALF-SWITCHED DUPLX HALL RECEPTACLE
[Symbol]	AFCI LOCATIONS, SEE SHEET EN1 SECTION 1.5
[Symbol]	USB AND DUPLX COMBO RECEPTACLE
[Symbol]	LEBRAND FITTING/AC/USB OR EQUIVALENT
[Symbol]	ABOVE-COUNTER DUPLX HALL RECEPTACLE (AFCI/GFI)
[Symbol]	DISHWASHER (UNDER-COUNTER) RECEPTACLE
[Symbol]	GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE
[Symbol]	MICROWAVE RECEPTACLE
[Symbol]	220V HALL RECEPTACLE (+30" AFF, UNO)
[Symbol]	DUPLX OVERHEAD RECEPTACLE
[Symbol]	DUPLX FLOOR RECEPTACLE (FLUSH FLOOR BOX OR POKE-THRU)
[Symbol]	FOURPLX HALL RECEPTACLE #
[Symbol]	AFCI PROTECTED AT INTERIOR LOCATIONS(S), UNO OR IDENTIFIED AS GFI PROTECTED BY SQUARE SYMBOL
[Symbol]	SPECIAL PURPOSE RECEPTACLE (AS NOTED)
[Symbol]	SINGLE WALL SWITCH
[Symbol]	WALL-MOUNT SCENCE LIGHT FIXTURE
[Symbol]	HALL-MOUNT LIGHT FIXTURE
[Symbol]	CEILING-MOUNT LIGHT FIXTURE
[Symbol]	RECESSED CEILING LIGHT FIXTURE
[Symbol]	RECESSED / PIVOT CEILING LIGHT FIXTURE
[Symbol]	HANGING CEILING-MOUNT LIGHT FIXTURE WITH RE-INFORCED JUNCTION BOX
[Symbol]	JUNCTION BOX
[Symbol]	LED LINEAR PENDANT
[Symbol]	LED ROUND/SQUARE PENDANT
[Symbol]	LED UTILITY STRIP LIGHT
[Symbol]	LED RECESSED SLOT FIXTURE
[Symbol]	CEILING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX
[Symbol]	PUSH-BUTTON SWITCH (AS NOTED)
[Symbol]	GARAGE DOOR OPENER
[Symbol]	GARAGE DOOR OPENER SENSOR/RECEIVER
[Symbol]	SPOKE ALARM & CARBON MONOXIDE ALARM
[Symbol]	LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE)
[Symbol]	DATA JACK (AS NOTED)
[Symbol]	DATA/VOICE JACK (AS NOTED)
[Symbol]	TELEVISION / CABLE JACK
[Symbol]	FURNITURE FEED (2 DUPLX RECEPTABLES)
[Symbol]	FLOOR BOX WITH (1) DUPLX, (1) DATA, AND (1) TV
[Symbol]	FUSED HEAVY DUTY DISCONNECT
[Symbol]	DIRECTIONAL EXIT LIGHT, VERIFY WITH ARCHITECTURAL EGRESS PLAN
[Symbol]	EMERGENCY THIN-HEAD FIXTURE
[Symbol]	EMERGENCY LIGHT BEAM

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PROJECT MANAGER: AS
DESIGNER: AS
DRAWN BY: SAM
CHECKED BY: AS
ISSUE DATE: 01-13-2023

REVISIONS:



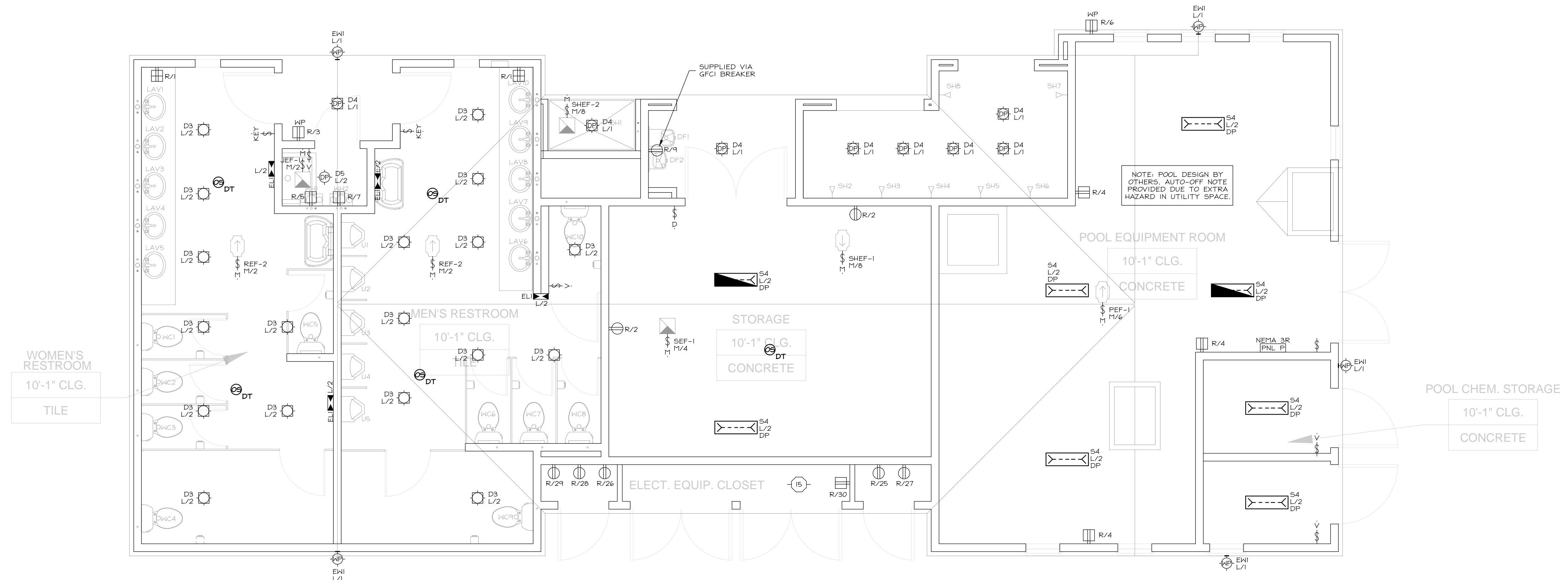
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SHEET TITLE:

LEVEL 1 ELECTRICAL LAYOUT

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

E1.1
JOB NUMBER: HS22244

HATCHLINE



GENERAL NOTES

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PROJECT SPECIFICATIONS

ELECTRICAL EQUIPMENT:
ELECTRIC AND LOW VOLTAGE SERVICES / EQUIPMENT ARE LOCATED IN A UTILITY CLOSET OR AN EXTERIOR HALL AT THE END OF THE BUILDING, SEE BUILDING PLANS FOR LOCATION(S) AND COORDINATE WITH ARCHITECTURAL SITE PLAN.

MECHANICAL EQUIPMENT:
CONDENSING UNITS ARE LOCATED ON THE GROUND AT THE END OF THE BUILDING / OR THE ROOF, COORDINATE WITH ARCHITECTURAL SITE PLAN FOR LOCATION(S). PROVIDE DISCONNECT AND SERVICE OUTLET, SEE SHEET EN1 SECTION 1.5 FOR GENERAL REQUIREMENTS.

EXTERIOR LIGHTING:
WHERE SITE LIGHTING IS PROVIDED BY FIXTURE(S) ATTACHED TO THE BUILDING, SEE LIGHTING / PHOTOMETRIC PLAN (BY OTHERS) FOR FIXTURE SPECIFICATIONS AND LOCATIONS AT EACH BUILDING.

SOLAR:
SOLAR PANELS PROVIDED ON ROOF, LOCATION VARIES BASED ON ORIENTATION OF STRUCTURE, SEE SOLAR PLANS PROVIDED BY OTHERS FOR LOCATION AND COORDINATE SOLAR SYSTEM INTERFACE REQUIREMENTS.

EXTERIOR LAYOUT NOTES

- ALL FIXTURES SHOWN IN BUILDING LAYOUTS ARE TO BE HIRED TO THE BUILDING PANELS, AND:
- HIRE CONDENSING UNITS TO THE UNIT SUB-PANEL AND PROVIDE A MEANS OF CIRCUIT INTERRUPT WITHIN SIGHT OF AND NOT OVER 50' FROM THE CONDENSING UNIT PER CPC. SEE DETAIL E272.2. A HEATER-RESISTANT GFCI PROTECTED SERVICE RECEPTACLE SHALL BE LOCATED WITHIN 25' OF CONDENSING UNIT. WHERE CONDENSING UNITS ARE GROUPED AT THE SIDE OF A BUILDING OR ON THE ROOF, A SINGLE COPPER RECEPTACLE WITHIN 25' CAN BE USED TO SERVICE MULTIPLE CONDENSING UNITS. IF PROVIDED, HIRE COPPER RECEPTACLE TO THE BUILDING PANEL. COORDINATE LOCATION OF DISCONNECT AND SERVICE RECEPTACLE WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
- ILLUMINATED ADDRESS LIGHTS SHALL COMPLY WITH ADDRESS IDENTIFICATION REQUIREMENTS PER ARCHITECTURAL PLANS.

KEYNOTES

- PROVIDE COOPERATION POWER/DATA FLOOR BOX, ARCHITECT TO PROVIDE FINAL LOCATION.
- ROUTE CONDUITS FOR COOPERATION FLOOR BOX PRIOR TO SLAB POUR. CONDUIT/WIRING SHALL ROUTED AND DROP DOWN THROUGH NEAREST HALL WITH UNDERGROUND RUN TO FLOOR LOCATION.
- REFER TO EN SHEETS FOR POWER AND LIGHTING LAYOUT(S) AT UTILITY CLOSET(S).

SYMBOLS LEGEND

NOTATION DEFINITIONS:	
3	3-WAY
3 AFF	ABOVE FINISH FLOOR
D/DOB	DIPPER/DIPPER W/ OCCUPANCY SENSOR
DP/HP	DAMP PROOF OR HEATHER PROOF
DT	DUAL TECHNOLOGY
IR	INFRARED
M	MOTOR RATED SWITCH
OS	OCCUPANCY SENSOR
PC	PHOTOCELL
US	ULTRASONIC
V	VACUANCY SENSOR
WP	WEATHER PROOF
KEY	AUTHORIZED KEY LIGHT SWITCH
TC	THRELOCK
EM	EMERGENCY
NL	NIGHT LIGHT
LV	LOW VOLTAGE

SYMBOLS:	
[Symbol]	DUPLEX HALL RECEPTACLE
[Symbol]	AFCI LOCATIONS, SEE SHEET EN1 SECTION 1.5
[Symbol]	HALF-SWITCHED DUPLEX HALL RECEPTACLE
[Symbol]	AFCI LOCATIONS, SEE SHEET EN1 SECTION 1.5
[Symbol]	USB AND DUPLEX COMBO RECEPTACLE
[Symbol]	LEBRAND FITTING/AC/USB OR EQUIVALENT
[Symbol]	ABOVE-COUNTER DUPLEX HALL RECEPTACLE (AFCI/GFI)
[Symbol]	DISHWASHER (UNDER-COUNTER) RECEPTACLE
[Symbol]	GARBAGE DISPOSAL (UNDER-COUNTER) RECEPTACLE
[Symbol]	MICROWAVE RECEPTACLE
[Symbol]	220V HALL RECEPTACLE (+30" AFF, UNO)
[Symbol]	DUPLEX OVERHEAD RECEPTACLE
[Symbol]	DUPLEX FLOOR RECEPTACLE (FLUSH FLOOR BOX OR POKE-THRU)
[Symbol]	FOURPLEX HALL RECEPTACLE #
[Symbol]	# AFCI PROTECTED AT INTERIOR LOCATIONS(S), UNO OR IDENTIFIED AS GFI PROTECTED BY SQUARE SYMBOL
[Symbol]	SPECIAL PURPOSE RECEPTACLE (AS NOTED)
[Symbol]	SINGLE WALL SWITCH
[Symbol]	WALL-MOUNT SCENCE LIGHT FIXTURE
[Symbol]	HALL-MOUNT LIGHT FIXTURE
[Symbol]	CEILING-MOUNT LIGHT FIXTURE
[Symbol]	RECESSED CEILING LIGHT FIXTURE
[Symbol]	RECESSED / PIVOT CEILING LIGHT FIXTURE
[Symbol]	HANGING CEILING-MOUNT LIGHT FIXTURE WITH RE-INFORCED JUNCTION BOX
[Symbol]	JUNCTION BOX
[Symbol]	LED LINEAR PENDANT
[Symbol]	LED ROUND/SQUARE PENDANT
[Symbol]	LED UTILITY STRIP LIGHT
[Symbol]	LED RECESSED SLOT FIXTURE
[Symbol]	CEILING FAN / LIGHT (AS NOTED) WITH RE-INFORCED JUNCTION BOX
[Symbol]	PUSH-BUTTON SWITCH (AS NOTED)
[Symbol]	GARAGE DOOR OPENER
[Symbol]	GARAGE DOOR OPENER SENSOR/RECEIVER
[Symbol]	SPOKE ALARM & CARBON MONOXIDE ALARM
[Symbol]	LOW VOLTAGE/STRUCTURED WIRING PANEL (PROVIDE SERVICE RECEPTACLE)
[Symbol]	DATA JACK (AS NOTED)
[Symbol]	DATA/VOICE JACK (AS NOTED)
[Symbol]	TELEVISION / CABLE JACK
[Symbol]	FURNITURE FEED (2 DUPLEX RECEPTACLES)
[Symbol]	FLOOR BOX WITH (1) DUPLEX, (1) DATA, AND (1) TV
[Symbol]	FUSED HEAVY DUTY DISCONNECT
[Symbol]	DIRECTIONAL EXIT LIGHT, VERIFY WITH ARCHITECTURAL EGRESS PLAN
[Symbol]	EMERGENCY TRIN-HEAD FIXTURE
[Symbol]	EMERGENCY LIGHT BEAM

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CHULA VISTA, CA

HOMEEED CORPORATION
1903 WILMINGTON PLACE SUITE 200
CARLSBAD, CA 92008

PROJECT:

PROJECT MANAGER: AS

DESIGNER: AS

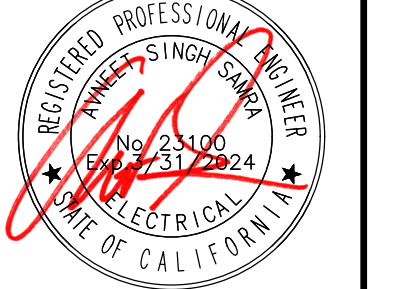
DRAWN BY: SAM

CHECKED BY: AS

ISSUE DATE: 01-13-2023

REVISIONS:

STAR#:



PLAN NUMBER:

SHEET TITLE:

COMMUNITY BLDG

LEVEL 1 ELECTRICAL LAYOUT (2)

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

SHEET NUMBER:

E1.1A

JOB NUMBER: HS22244

GENERAL NOTES

- 1. IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE EN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
2. PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

ELECTRICAL EQUIPMENT: ELECTRIC AND LOW VOLTAGE SERVICES / EQUIPMENT ARE LOCATED IN A UTILITY CLOSET OR AN EXTERIOR HALL AT THE END OF THE BUILDING, SEE BUILDING PLANS FOR LOCATION(S) AND COORDINATE WITH ARCHITECTURAL SITE PLAN.

MECHANICAL EQUIPMENT: CONDENSING UNITS ARE LOCATED ON THE GROUND AT THE END OF THE BUILDING / OR THE ROOF, COORDINATE WITH ARCHITECTURAL SITE PLAN FOR LOCATION(S). PROVIDE DISCONNECT AND SERVICE OUTLET, SEE SHEET EN1 SECTION 1.5 FOR GENERAL REQUIREMENTS.

EXTERIOR LIGHTING: WHERE SITE LIGHTING IS PROVIDED BY FIXTURE(S) ATTACHED TO THE BUILDING, SEE LIGHTING / PHOTOMETRIC PLAN (BY OTHERS) FOR FIXTURE SPECIFICATIONS AND LOCATIONS AT EACH BUILDING.

SOLAR: SOLAR PANELS PROVIDED ON ROOF, LOCATION VARIES BASED ON ORIENTATION OF STRUCTURE, SEE SOLAR PLANS PROVIDED BY OTHERS FOR LOCATION AND COORDINATE SOLAR SYSTEM INTERFACE REQUIREMENTS.

EXTERIOR LAYOUT NOTES

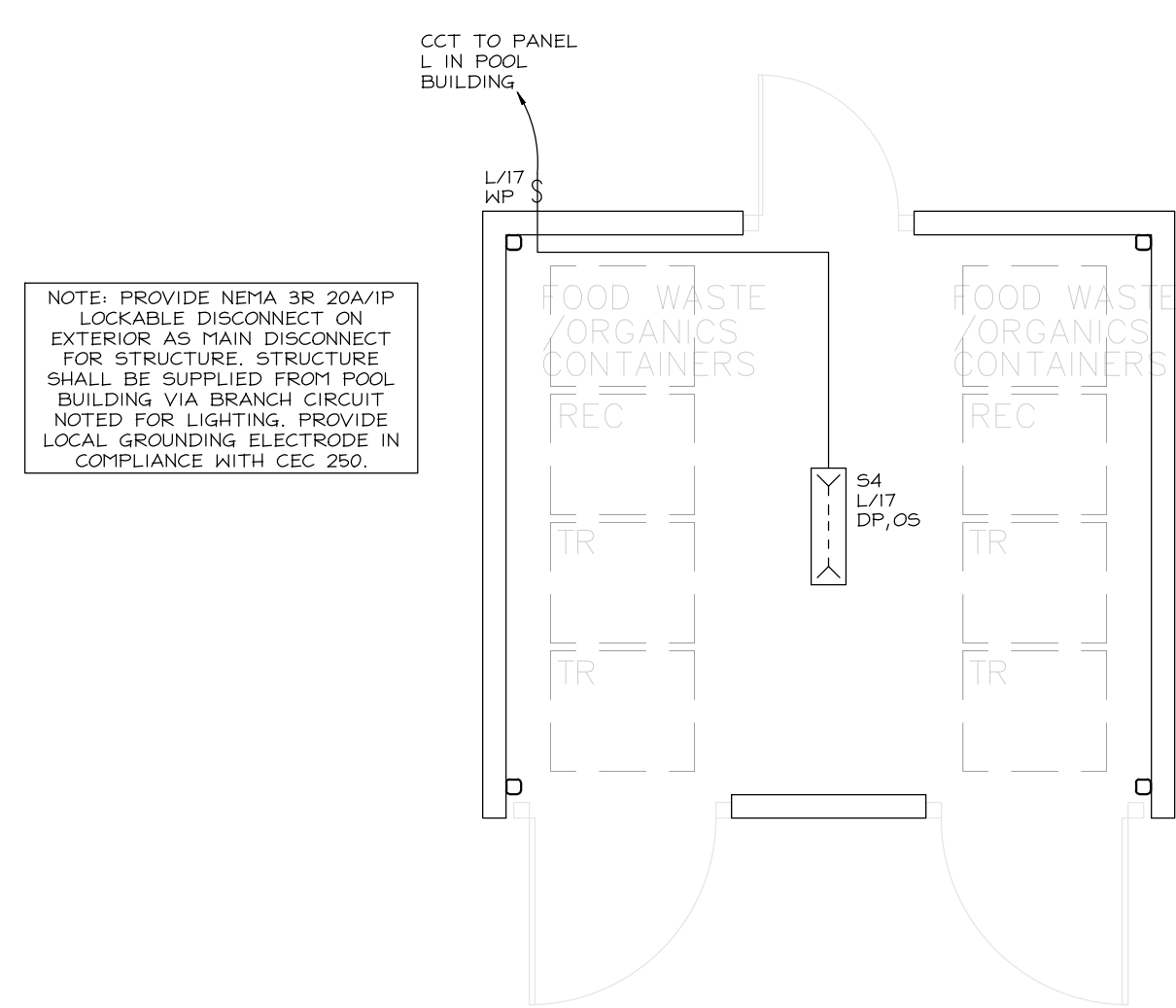
- 1. ALL FIXTURES SHOWN IN BUILDING LAYOUTS ARE TO BE HIRED TO THE BUILDING PANEL, AND.
2. HIRE CONDENSING UNITS TO THE UNIT SUB-PANEL AND PROVIDE A MEANS OF CIRCUIT INTERRUPT WITHIN SIGHT OF AND NOT OVER 50' FROM THE CONDENSING UNIT PER CPC. SEE DETAIL E221.2. A HEATHER-RESISTANT GFCI PROTECTED SERVICE RECEPTACLE SHALL BE LOCATED WITHIN 25' OF CONDENSING UNIT. WHERE CONDENSING UNITS ARE GROUPED AT THE SIDE OF A BUILDING OR ON THE ROOF, A SINGLE COPPER RECEPTACLE WITHIN 25' CAN BE USED TO SERVICE MULTIPLE CONDENSING UNITS. IF PROVIDED, HIRE COPPER RECEPTACLE TO THE BUILDING PANEL. COORDINATE LOCATION OF DISCONNECT AND SERVICE RECEPTACLE WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
3. ILLUMINATED ADDRESS LIGHTS SHALL COMPLY WITH ADDRESS IDENTIFICATION REQUIREMENTS PER ARCHITECTURAL PLANS.

KEYNOTES

- 1. PROVIDE CORPORATION POWER/DATA FLOOR BOX, ARCHITECT TO PROVIDE FINAL LOCATION.
2. ROUTE CONDUITS FOR CORPORATION FLOOR BOX PRIOR TO SLAB POUR. CONDUIT/WIRING SHALL ROUTED AND DROP DOWN THROUGH NEAREST HALL WITH UNDERGROUND RUN TO FLOOR LOCATION.
3. REFER TO EN SHEETS FOR POWER AND LIGHTING LAYOUT(S) AT UTILITY CLOSET(S).

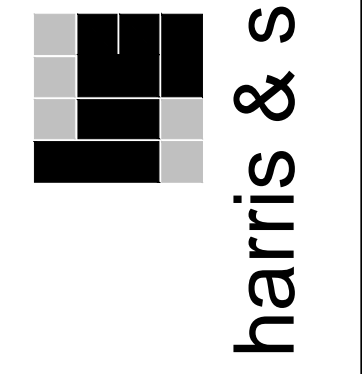
SYMBOLS LEGEND

Table with 2 columns: NOTATION DEFINITIONS and SYMBOLS. Lists various electrical symbols and their corresponding definitions, such as 3-WAY, 4-WAY, DIMMER, etc.



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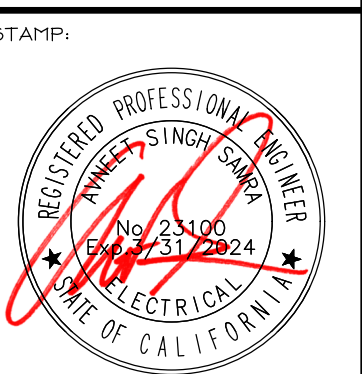


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COTA VERA SWIM CLUB CHULA VISTA, CA HOMEFEEED CORPORATION 1903 WILMINGTON PLACE SUITE 200 CARLSBAD, CA 92008

PROJECT MANAGER: AS DESIGNER: AS DRAWN BY: SAM CHECKED BY: AS ISSUE DATE: 01-13-2023

REVISIONS:



PLAN NUMBER: TRASH ENCLOSURE SHEET TITLE:

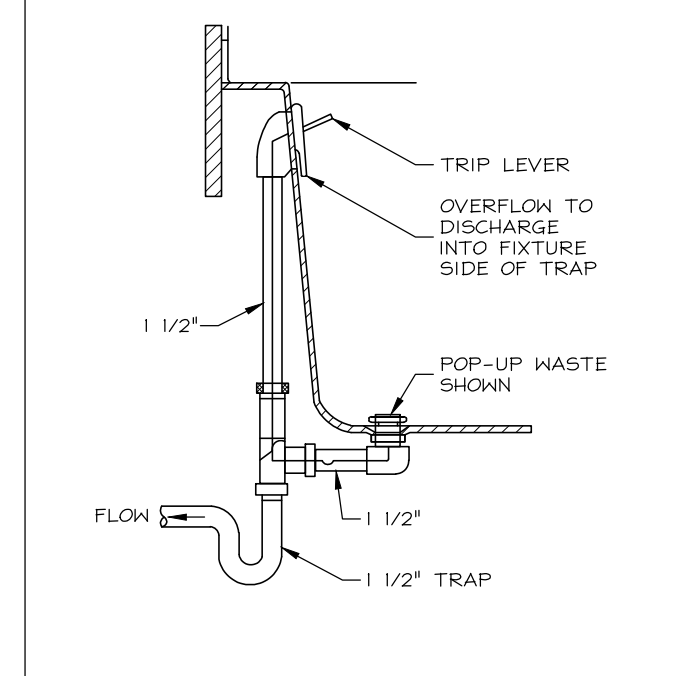
LEVEL 1 ELECTRICAL LAYOUT

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

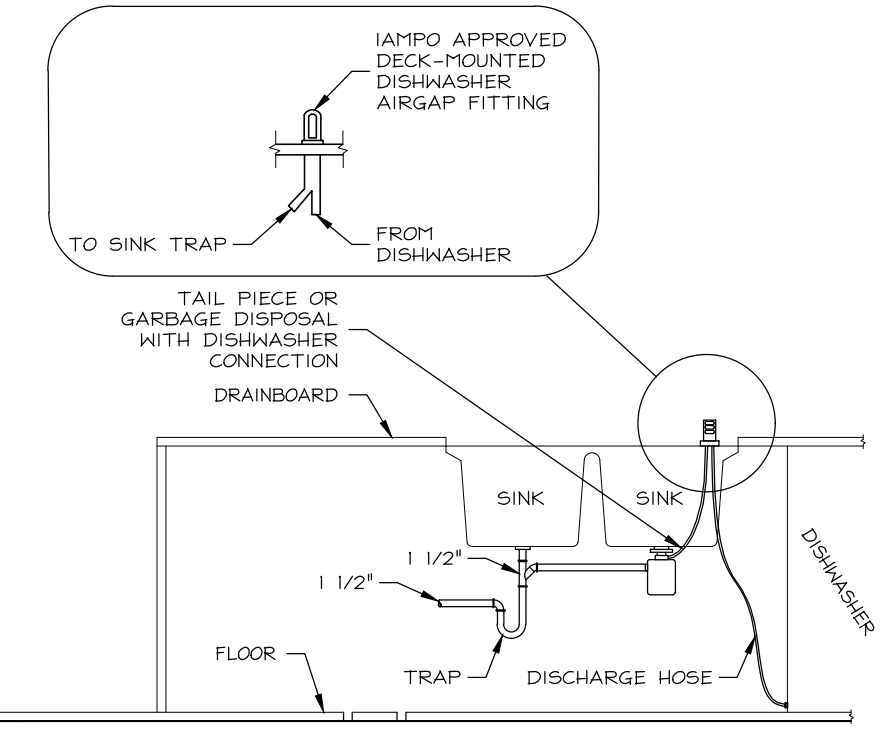
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JOB NUMBER: HS22244

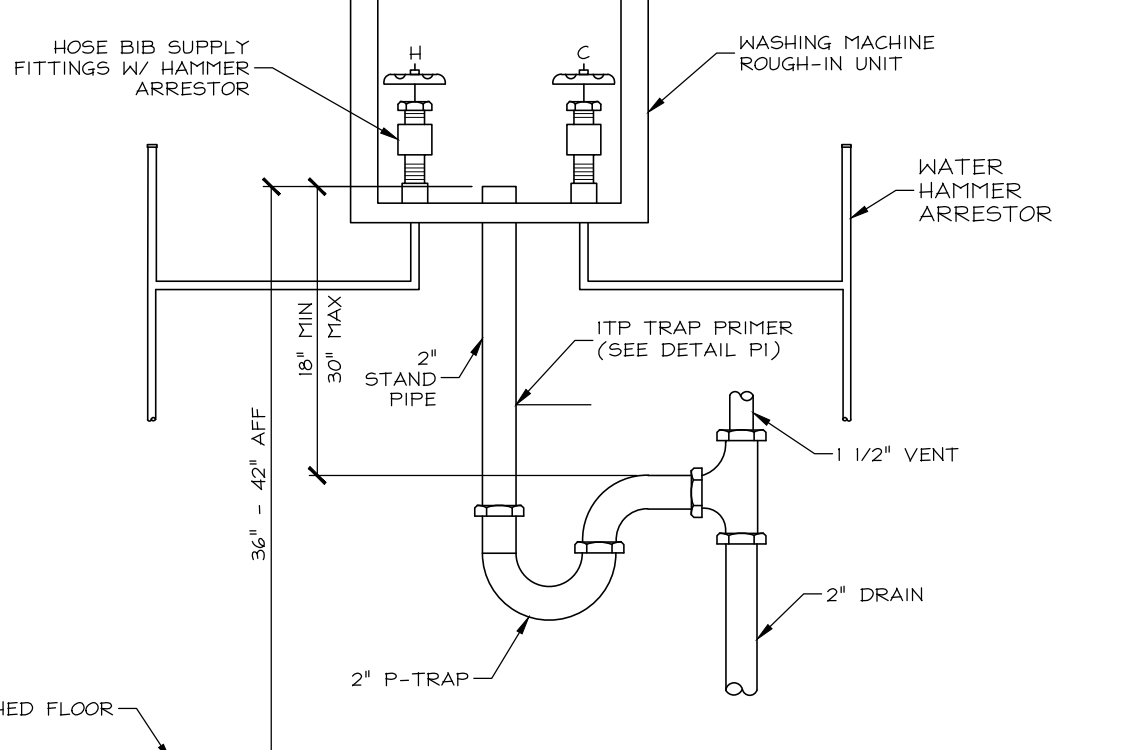
STANDARD DETAILS



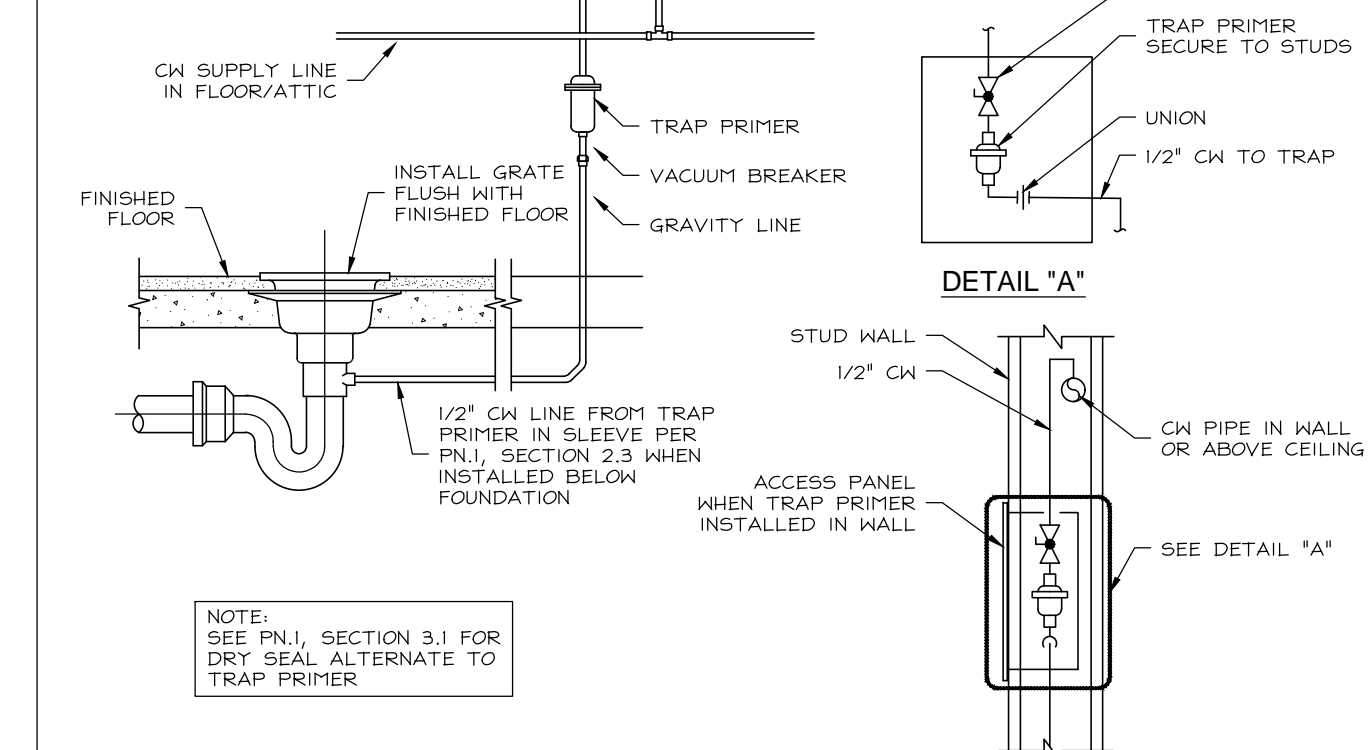
K TYPICAL BATHTUB WASTE & OVERFLOW



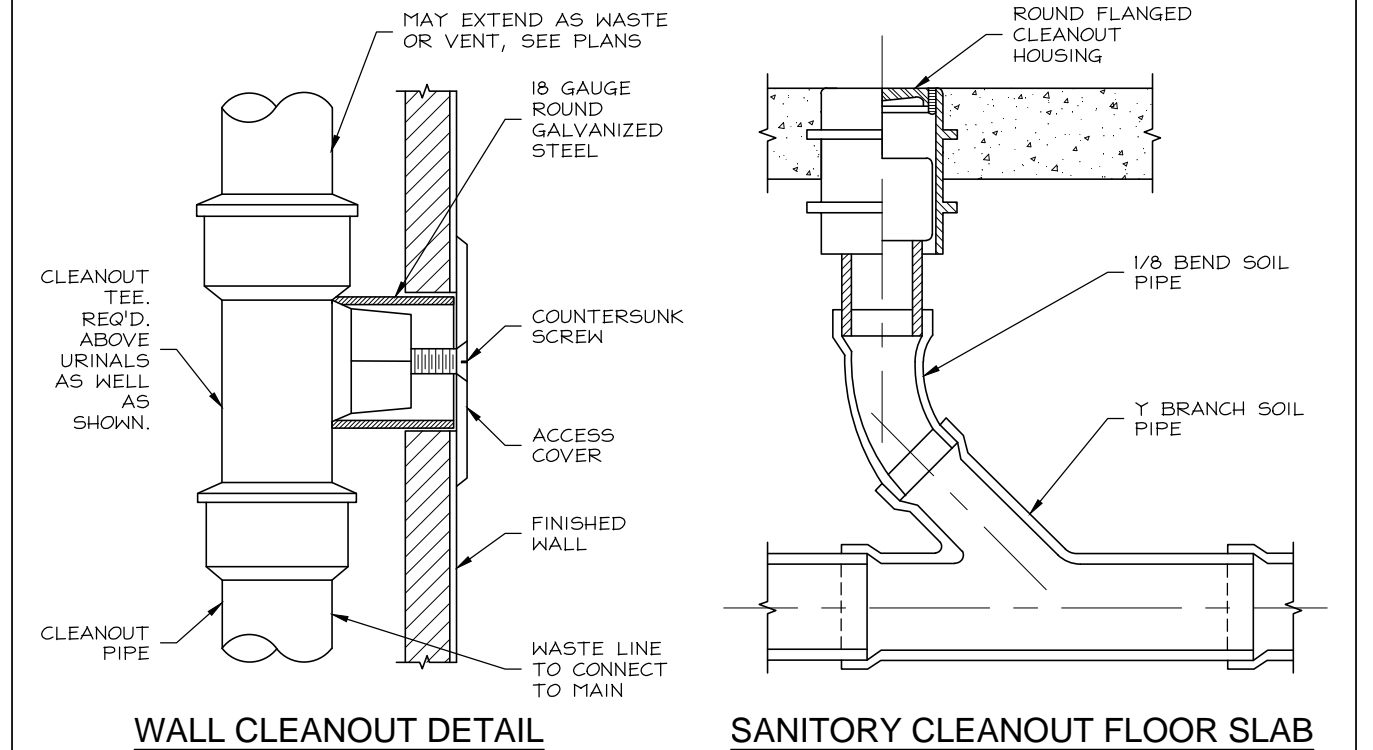
L TYPICAL RESIDENTIAL KITCHEN SINK & DISHWASHER



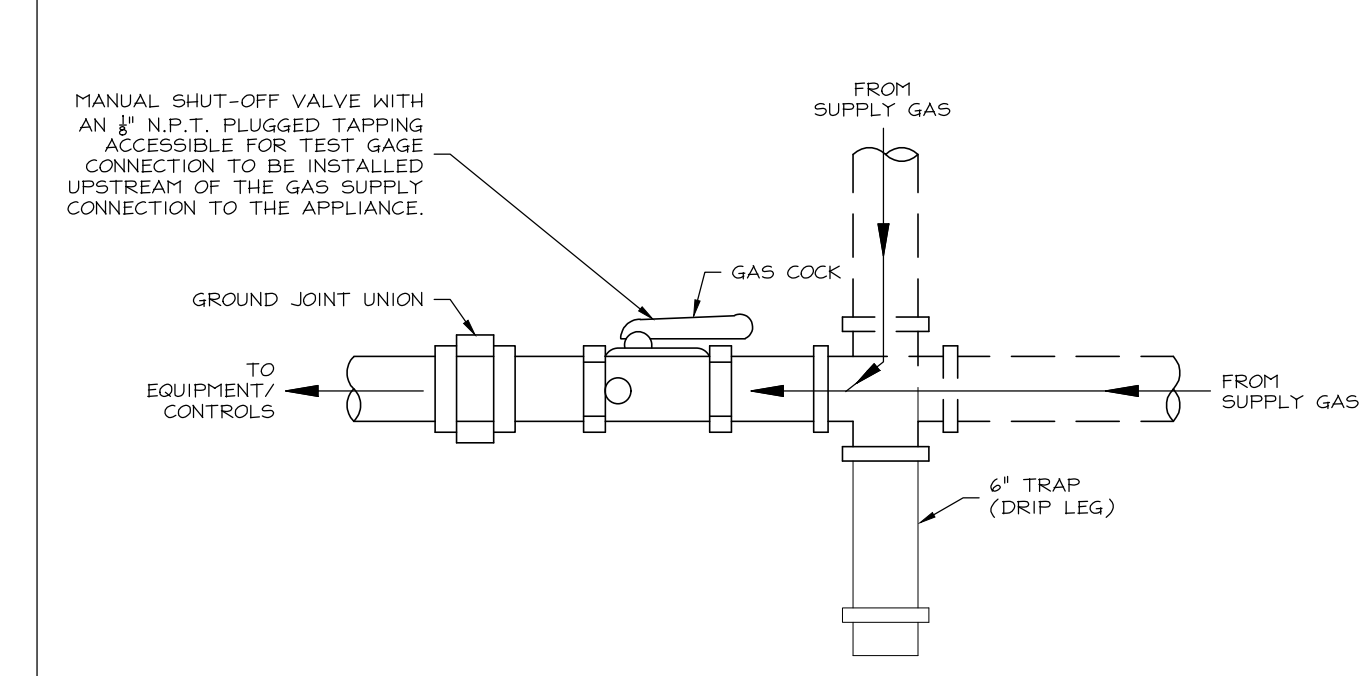
M WASHING MACHINE HOOK UP



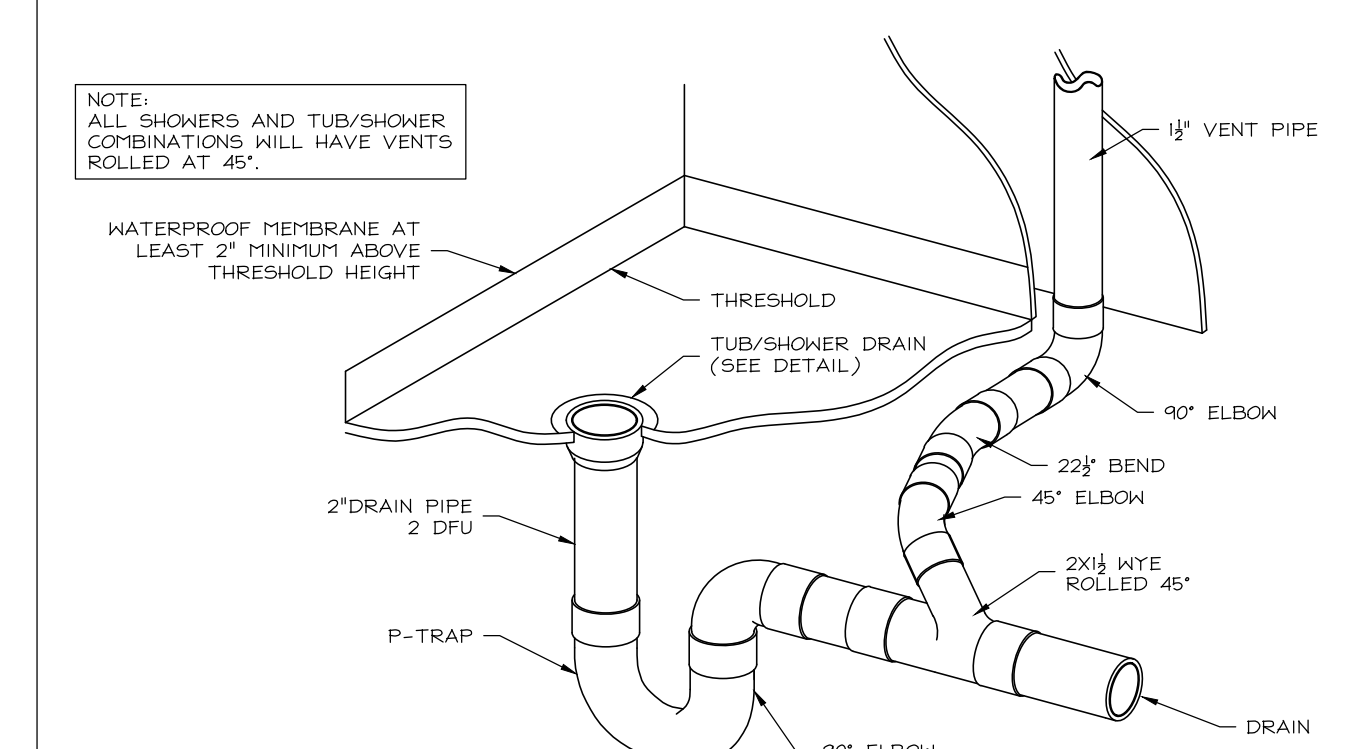
N FLOOR DRAIN WITH TRAP PRIMER CONNECTION



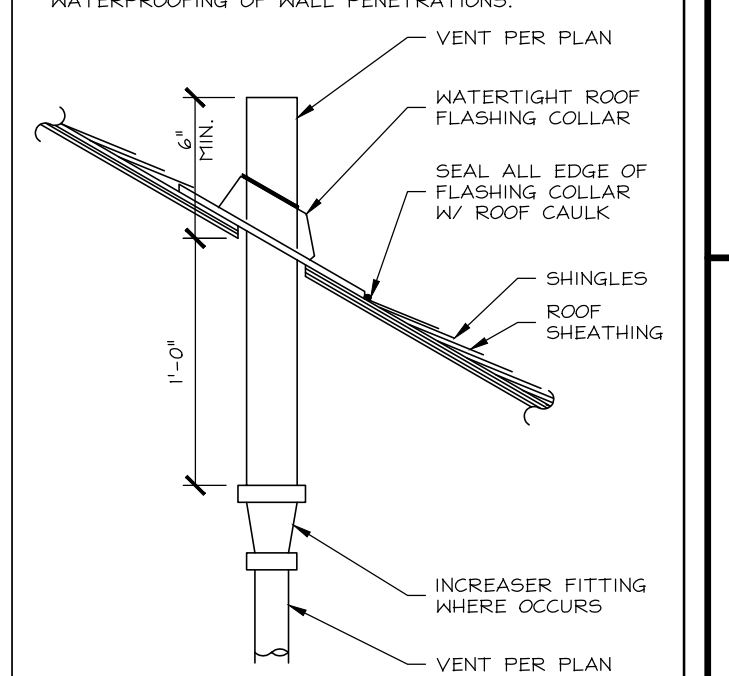
H CLEANOUT DETAILS



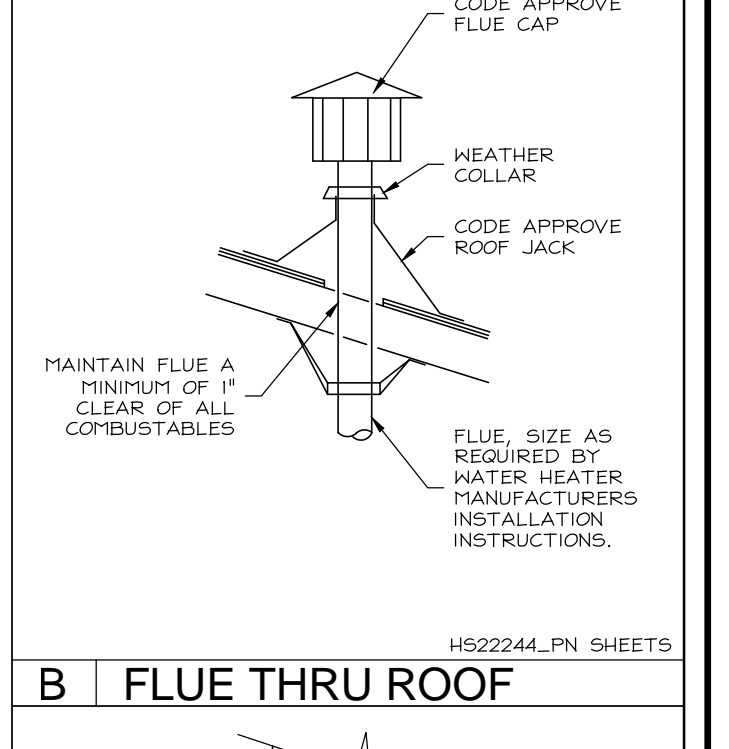
F TYPICAL GAS CONNECTION TO EQUIPMENT



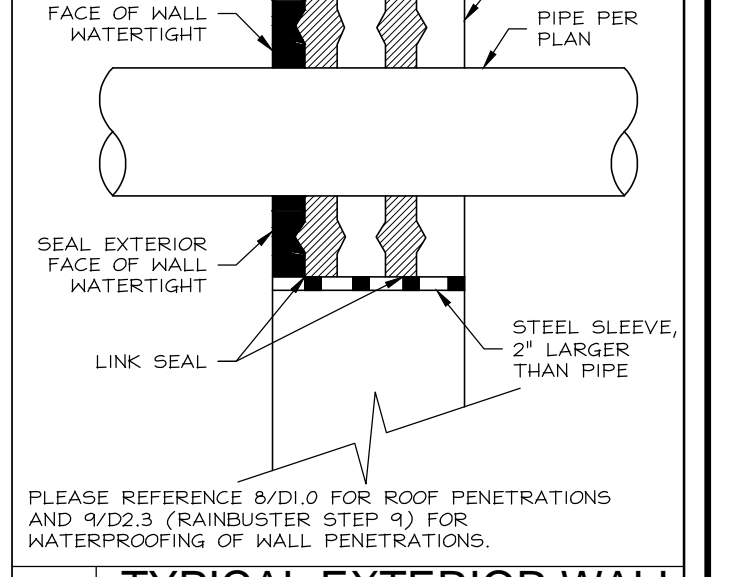
G SHOWER VENTING



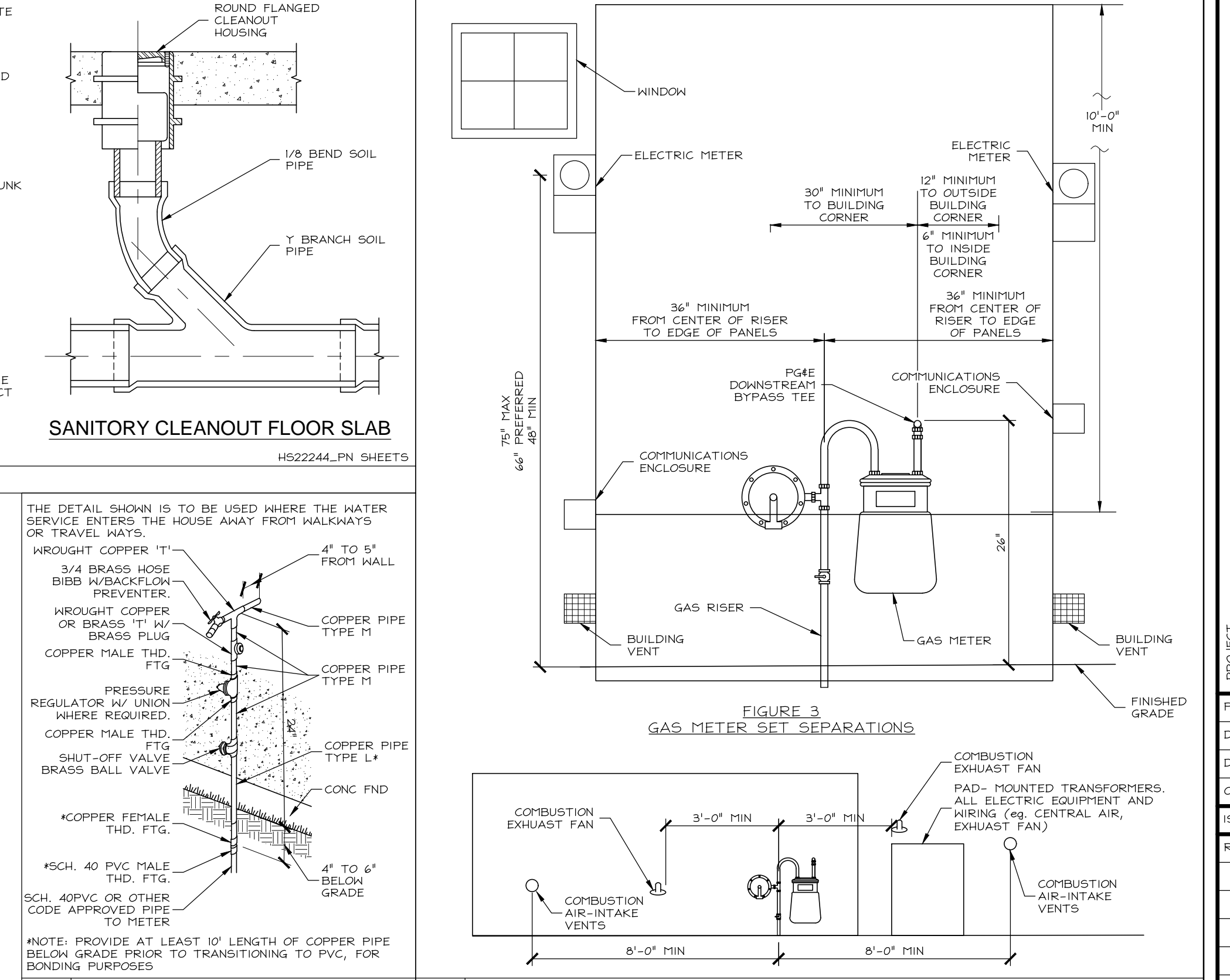
A TYPICAL VENT THROUGH PITCHED ROOF



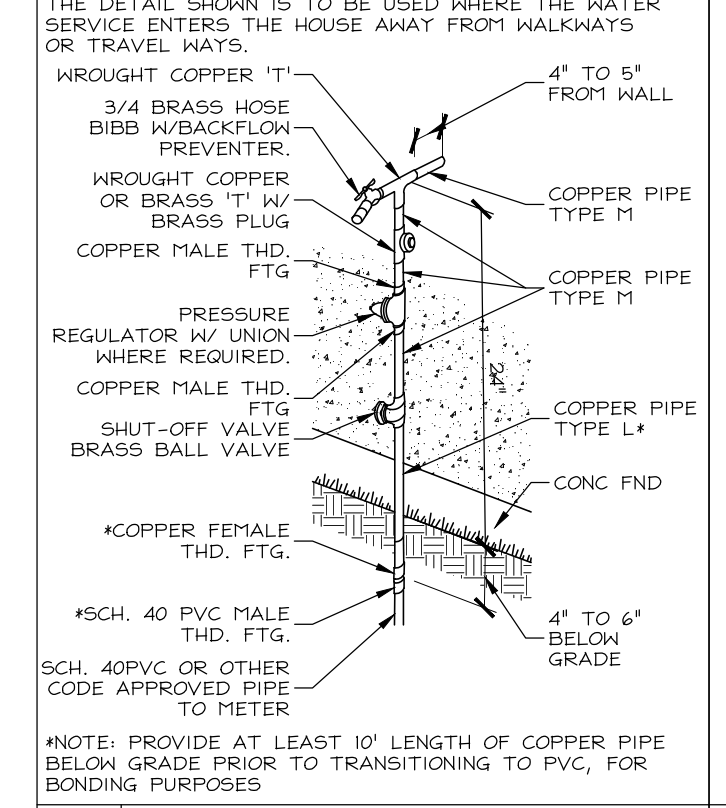
B FLUE THRU ROOF



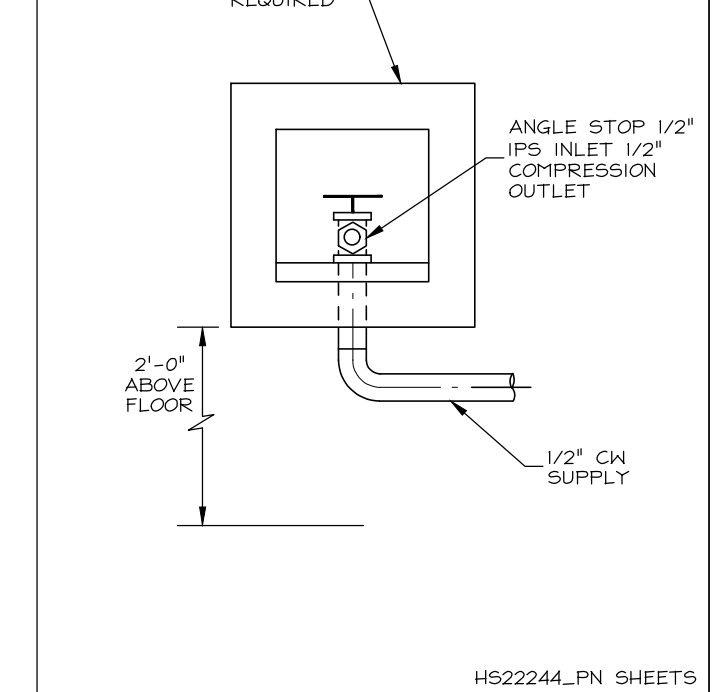
C TYPICAL EXTERIOR WALL SLEEVE



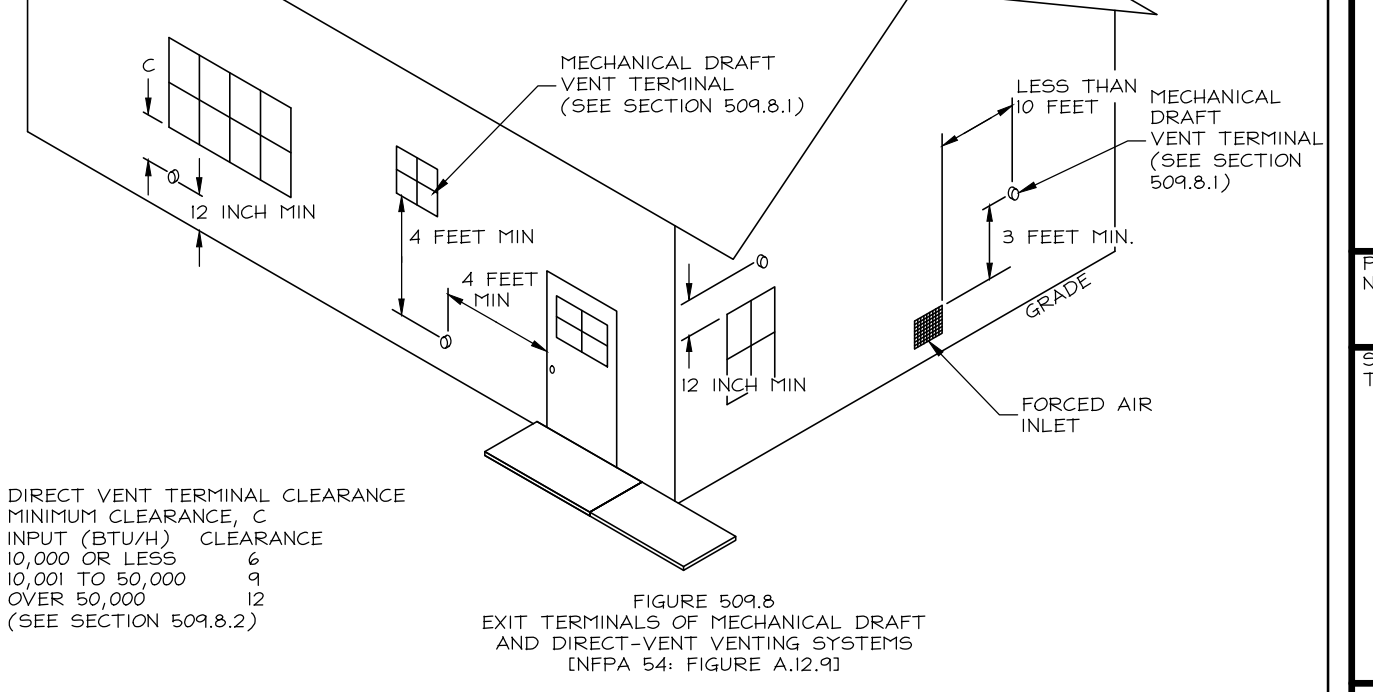
D GAS METER CLEARANCES



I WATER SERVICE RISER



J REFRIGERATOR BOX



E VENTING SYSTEMS

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CHULA VISTA, CA
HOMEFEEED CORPORATION
1903 WILMOUTH PARK, SUITE 200
CARLSBAD, CA 92008

PROJECT: VTC
CLIENT:

PROJECT MANAGER: MH
DESIGNER: VTC
DRAWN BY: GES
CHECKED BY: MH
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 08/31/24
SAN DIEGO
STATE OF CALIFORNIA

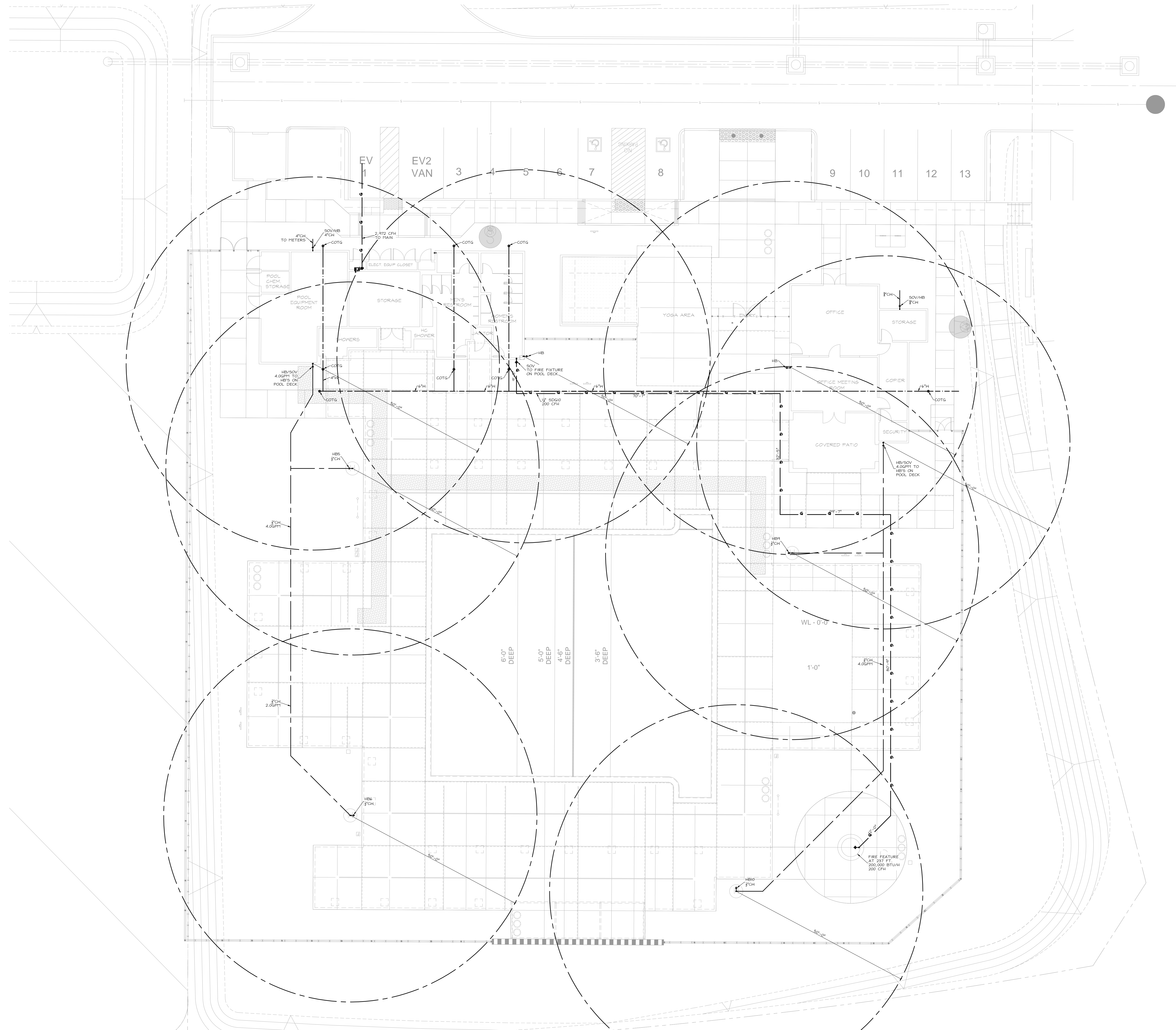
PLAN NUMBER:
SHEET TITLE:

STANDARD DETAILS

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

SHEET NUMBER:
PN.2

JOB NUMBER: HS22244



GENERAL NOTES

- IT IS THE CONTRACTOR'S/OWNER'S/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION/ BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZED SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC, ABOVE GRADE TO BE PEK TUBING, AND SEE PLAN SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER IN CIVIL PLANS PRIOR TO CONSTRUCTION.

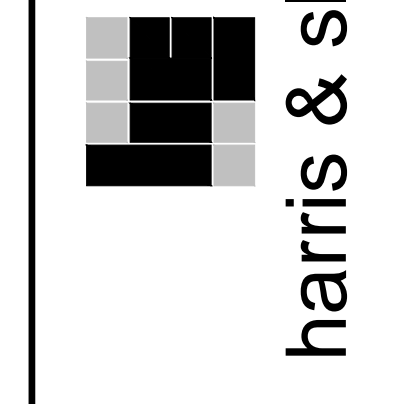
DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS, ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL IN CIVIL PLANS PRIOR TO CONSTRUCTION.

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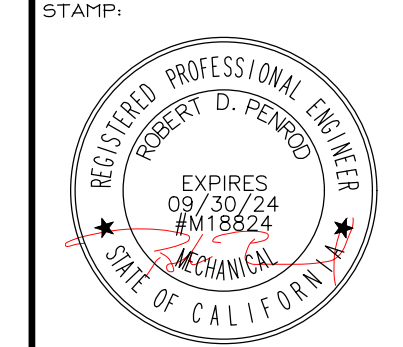
COTA VERA SWIM CLUB
CHULA VISTA, CA

HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT: COTA VERA SWIM CLUB
CLIENT: HOMEFED CORPORATION

PROJECT MANAGER: MFM
DESIGNER: VPKC
DRAWN BY: GES
CHECKED BY: MFM
ISSUE DATE: 01-13-2023

REVISIONS:

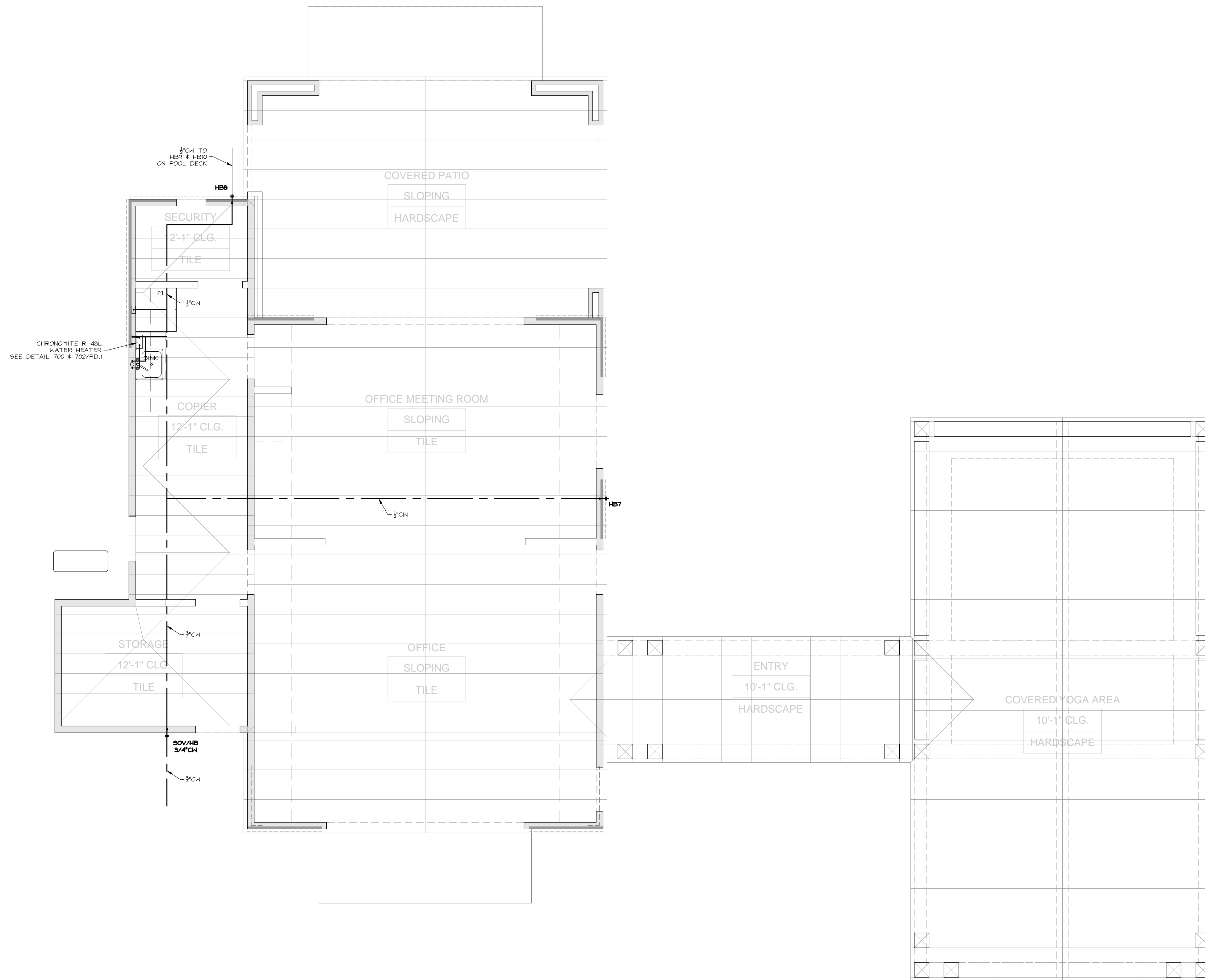


PLAN NUMBER:
SHEET TITLE:
POOL SITE GAS & WATER LAYOUT PLAN

SCALE: 1" = 10'-0"
SHEET NUMBER:

PS.1
JOB NUMBER: H522244





CLUB WATER			
FIXTURE	LINE SIZE	CW GPM	HW GPM
KS	1/2"	1.1	1/2" 1.1
DW	1/2"	0	1/2" 1.5
IM	1/2"	14	--
HB7	1/2"	12	--
HB8	1/2"	8	--
HB9	1/2"	8	--
HB10	1/2"	14	--
TOTAL		0	0

CLUB WATER TOTALS	
Water Service	9.1 GPM
Cold Water	9.1 GPM
Hot Water	2.6 GPM
TOTAL	0

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

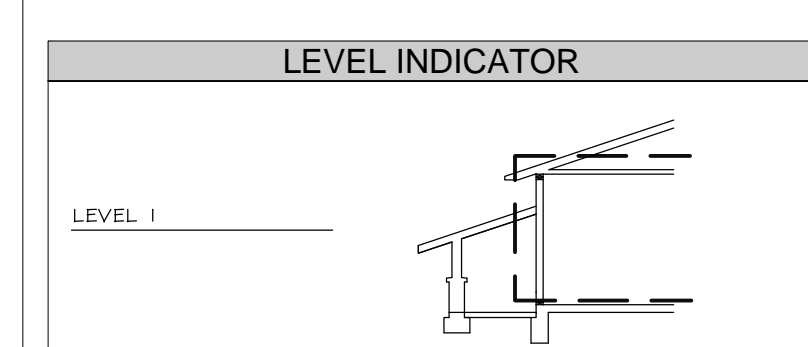
GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3/4" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM; THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING. (SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.)

DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS. ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

KEYNOTES	
(3)	THERMOSTATIC MIXING VALVE, BRADLEY-354-2007. SEE DETAIL (USE) (THERMOSTATIC MIXING VALVE FOR RINKS) OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
(11)	3" TRAP PRIMER FOR FLOOR DRAIN.
(12)	TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).
(13A)	ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).



SYMBOLS LEGEND	
	DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
	DENOTES DETAIL REFERENCE. REFER TO DENOTED SHEET #.
	WASTE LINE
	WASTE VENT LINE
	CONDENSATE
	GAS LINE
	COLD WATER LINE
	HOT WATER LINE
	RE-CIRCULATION LOOP
	GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1.
	MASTER WATER/DRAIN BOX, SEE PN1, SECTION 2.2.
	WASTE CLEAN OUT, SEE PN1, SECTION 2.3.
	NOSE BIBB, SEE PN1, SECTION 3.
	WATER METER/SUB-METER
	WATER HEATER, SEE PN1, SECTION 3.2.
	TANKLESS
	TANKED
	DENOTES PLUMBING FIXTURE @ CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
	DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).
	ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM.
	BEAM/HEADER PER STRUCTURAL PLANS
	SHEARWALL PER STRUCTURAL PLANS
	FRAMING MEMBER PER STRUCTURAL PLANS
	RECESSED LIGHT FIXTURE, VERIFY EXACT LOCATION WITH UTILITY PLANS
	DENOTES CONTINUOUS EXTERIOR FOOTING, (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS FOOTING WITH INTERNAL (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.)

FOR JURISDICTION USE:

PROJECT: COTA VERA SWIM CLUB
CHULA VISTA, CA

CLIENT: HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP: REGISTERED PROFESSIONAL ENGINEER
EXPIRES 09/30/24
#18224
MORAN
STATE OF CALIFORNIA

PLAN NUMBER: SEGMENT 1
SHEET TITLE: LEVEL 1 WATER & GAS LAYOUT

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

DRYER NUMBER: P1.1

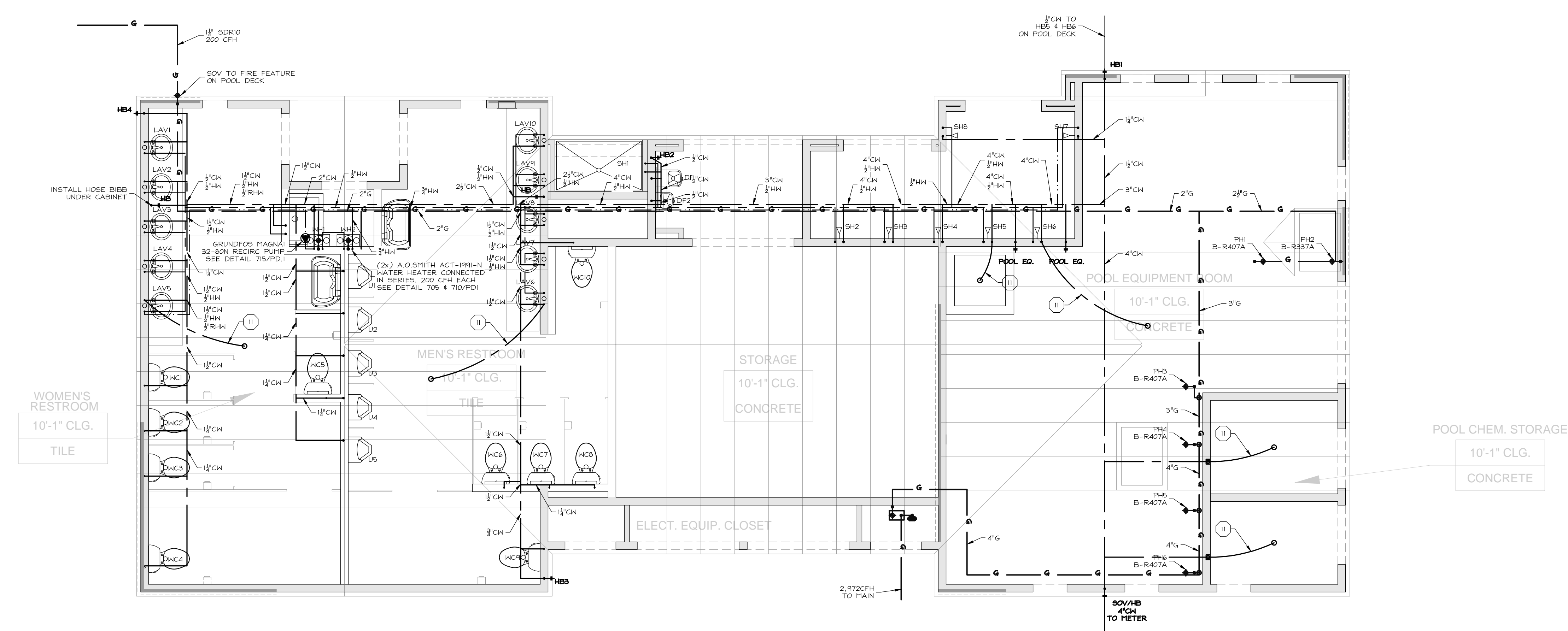
JOB NUMBER: HS22244

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SCALE



POOL / RESTROOM WATER				
LINE SIZE	CW	GPM	HW	GPM
WC1	3/4"	12	--	--
WC2	3/4"	14	--	--
WC3	1"	20	--	--
WC4	1"	25	--	--
WC5	1"	25	--	--
WC6	3/4"	12	--	--
WC7	1"	20	--	--
WC8	1"	25	--	--
WC9	3/4"	14	--	--
WC10	1/2"	8	--	--
U1	1/2"	8	--	--
U2	1/2"	8	--	--
U3	1/2"	8	--	--
U4	3/4"	12	--	--
U5	3/4"	14	--	--
LAV1	1/2"	0.8	--	--
LAV2	1/2"	0.8	--	--
LAV3	1/2"	0.8	--	--
LAV4	1/2"	0.8	--	--
LAV5	1/2"	0.8	--	--
LAV6	1/2"	0.8	1/2"	0.8
LAV7	1/2"	0.8	1/2"	0.8
LAV8	1/2"	0.8	1/2"	0.8
LAV9	1/2"	0.8	1/2"	0.8
LAV10	1/2"	0.8	1/2"	0.8
SH1	1/2"	1.5	1/2"	1.4
SH2	1/2"	1.5	1/2"	1.4
SH3	1/2"	1.5	1/2"	1.4
SH4	1/2"	1.5	1/2"	1.4
SH5	1/2"	1.5	1/2"	1.4
SH6	1/2"	1.5	1/2"	1.4
SH7	1/2"	1.5	1/2"	1.4
SH8	1/2"	1.5	1/2"	1.4
MCP	1/2"	2	1/2"	2.0
PE1	3/4"	14	--	--
PE2	3/4"	14	--	--
DF1	1/2"	0	--	--
DF2	1/2"	0	--	--
HB1	1/2"	2	--	--
HB2	1/2"	2	--	--
HB3	1/2"	2	--	--
HB4	1/2"	2	--	--
HB5	1/2"	2	--	--
HB6	1/2"	2	--	--

POOL WATER TOTALS		
Water Service	282.4	GPM
Cold Water	286.4	GPM
Hot Water	14.6	GPM

POOL GAS FLOW		
FIXTURE	FLOW	SIZE
WH1	200	1 1/4"
WH2	200	1 1/4"
PH1	407	1 1/2"
PH2	337	1 1/2"
PH3	407	1 1/2"
PH4	407	1 1/2"
PH5	407	1 1/2"
PH6	407	1 1/2"
FPT1	200	1 1/4"
TOTAL	2972	

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- BEFORE BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

GENERAL: SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS: GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER: THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING. (SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.)

DRAIN, WASTE AND VENT: BELOW GRADE WASTE/VENT PIPE TO BE ABS. ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

KEYNOTES	
(3)	THERMOSTATIC MIXING VALVE, BRADLEY-864-2007. SEE DETAIL 10/PP1. THERMOSTATIC MIXING VALVE FOR RINKS OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
(1)	3" TRAP PRIMER FOR FLOOR DRAIN.
(B)	TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25/PP1.
(BA)	ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25/PP1.

LEVEL INDICATOR	
LEVEL 1	

SYMBOLS LEGEND	
	DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
	DENOTES DETAIL REFERENCE.
	REFER TO DENOTED SHEET #.
	WASTE LINE
	WASTE VENT LINE
	CONDENSATE
	GAS LINE
	COLD WATER LINE
	HOT WATER LINE
	RE-CIRCULATION LOOP
	GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1.
	MASTER WATER/DRAIN BOX, SEE PN1, SECTION 2.2.
	WASTE CLEAN OUT, SEE PN1, SECTION 2.3.
	HOSE BIBB, (SEE PN1), SECTION 3.
	WATER METER/SUB-METER
	WATER HEATER, SEE PN1, SECTION 3.2.
	TANKLESS
	TANKED
	DENOTES PLUMBING FIXTURE @ CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
	DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).
	ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM.
	BEAM/HEADER PER STRUCTURAL PLANS
	SHEARWALL PER STRUCTURAL PLANS
	FRAMING MEMBER PER STRUCTURAL PLANS
	RECESSED LIGHT FIXTURE, VERIFY EXACT LOCATION WITH UTILITY PLANS
	DENOTES CONTINUOUS EXTERIOR FOOTING, (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS FOOTING WITH INTERNALS (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.)

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HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 09/30/24
M 18822
CALIFORNIA

PLAN NUMBER:
SEGMENT 2

SHEET NUMBER:
P1.1A

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

JOB NUMBER: HS22244

CLUB DRAIN-WASTE-VENT					
FIXTURE	LINE SIZE				
	DFU	TRAP	DRAIN	VENT	
KS	2.0	1 1/2"	2"	1 1/2"	1
DW	2.0	1 1/2"	0	0	1
RM		0	0	0	1
TOTAL	4.0				3

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM; THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING. (SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.)

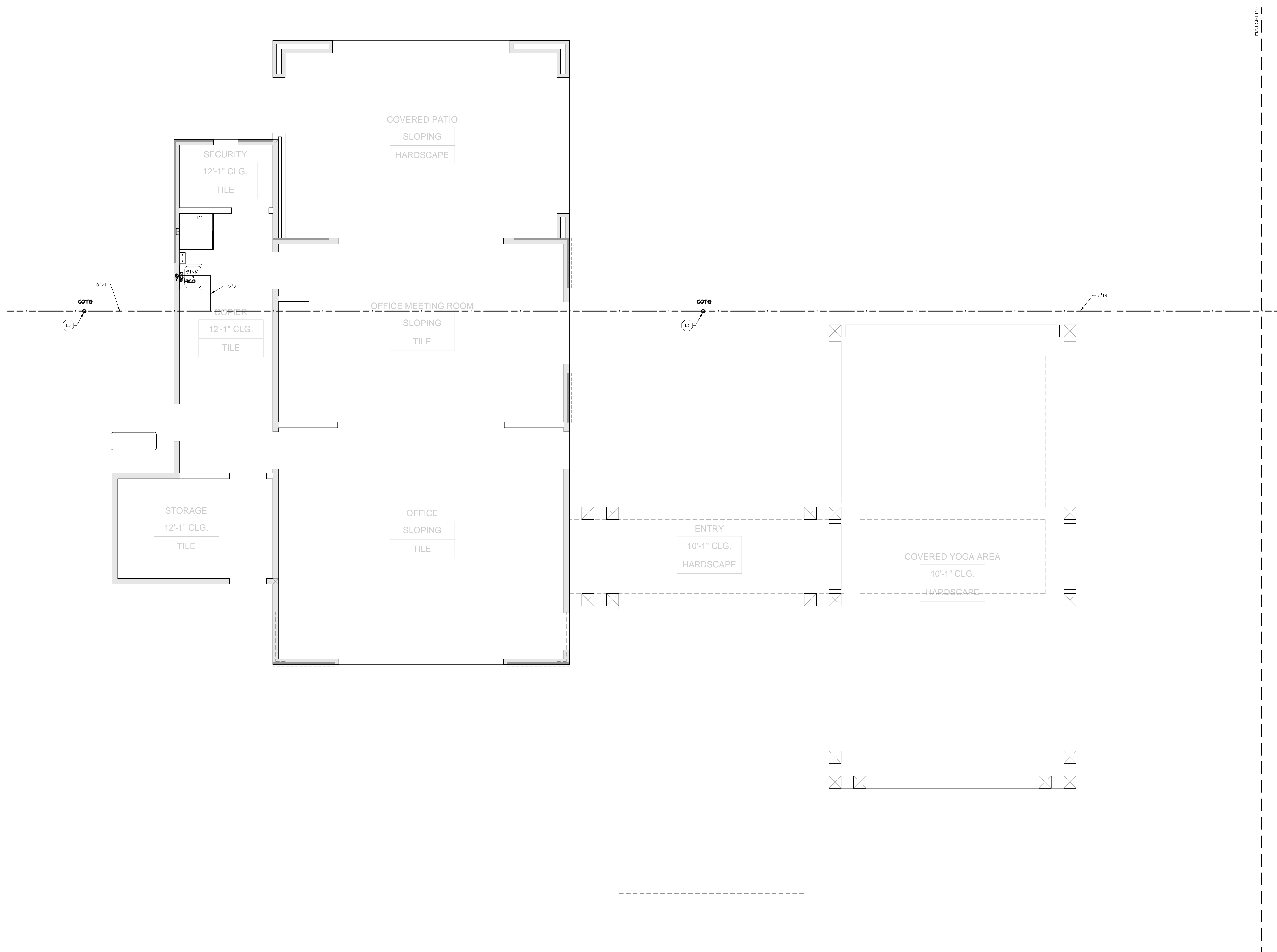
DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS; ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

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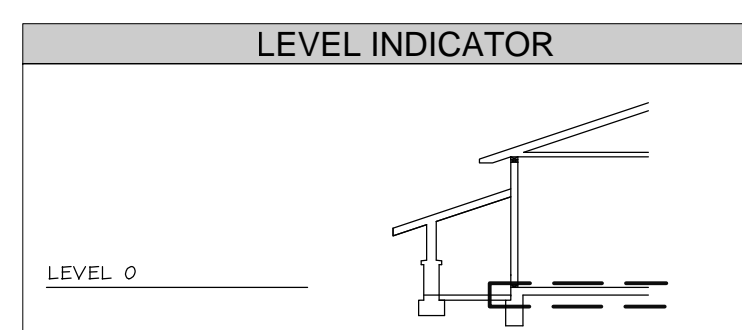
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KEYNOTES

- 3 THERMOSTATIC MIXING VALVE, BRADLEY-864-2007. SEE DETAIL (05/01) THERMOSTATIC MIXING VALVE FOR SINKS OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 11 3" TRAP PRIMER FOR FLOOR DRAIN.
- 12 TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).
- 13 ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).



SYMBOLS LEGEND

- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- WASTE LINE
- WASTE VENT LINE
- CONDENSATE
- GAS LINE
- COLD WATER LINE
- HOT WATER LINE
- RE-CIRCULATION LOOP
- GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1.
- MASHER WATER/DRAIN BOX, SEE PN1, SECTION 2.2.
- WASTE CLEAN OUT, SEE PN1, SECTION 2.3.
- HOSE BIBB, SEE PN1, SECTION 3.
- WATER METER/SUB-METER
- WATER HEATER, SEE PN1, SECTION 3.2.
- TANKLESS
- TANKED
- DENOTES PLUMBING FIXTURE @ CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
- DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).
- ATTIC ACCESS PER ARCHITECT W/ FIN 30" HEADROOM.
- BEAM/HEADER PER STRUCTURAL PLANS
- SHEARWALL PER STRUCTURAL PLANS
- FRAMING MEMBER PER STRUCTURAL PLANS
- RECESSED LIGHT FIXTURE, VERIFY EXACT LOCATION WITH UTILITY PLANS
- DENOTES CONTINUOUS EXTERIOR FOOTING, (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS FOOTING INTO INTERNALS (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.)

COTA VERA SWIM CLUB
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HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 09/30/24
M. S. S. S. S.
MECHANICAL
STATE OF CALIFORNIA

PLAN NUMBER: SEGMENT 1
SHEET TITLE: FOUNDATION DRAIN, WASTE & VENT LAYOUT
SCALE: 1/4" = 1'-0"
SHEET NUMBER: P1.2
JOB NUMBER: HS22244

POOL DRAIN-WASTE-VENT					
LINE SIZE					
FIXTURE	DFU	TRAP	DRAIN	VENT	QTY
WC1	4.0	3"	4"	2"	10
U	2.0	1 1/2"	2"	1 1/2"	5
LAV	1.0	1 1/2"	1 1/2"	1 1/2"	10
SH	2.0	2"	2"	1 1/2"	8
MOP	3.0	3"	3"	2"	1
DF	1.0	1 1/2"	1 1/2"	1 1/2"	2
TOTAL		81.0			36

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING. (SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.)

DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS. ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

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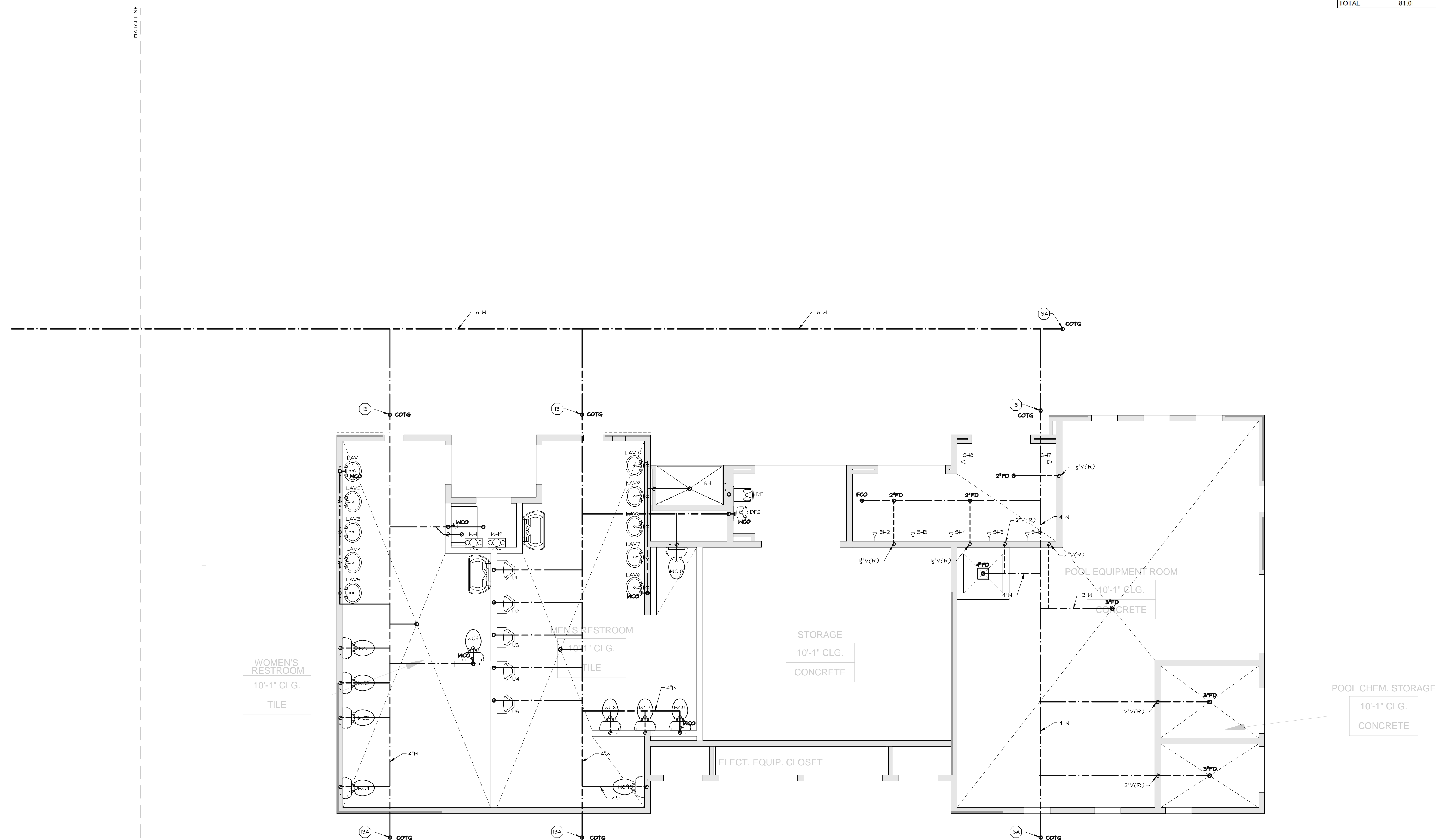
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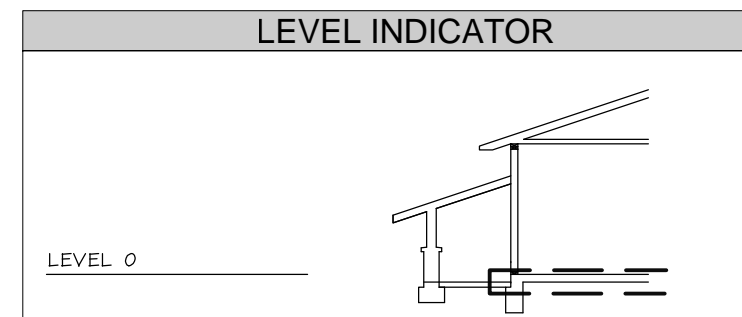


KEYNOTES

- 3) THERMOSTATIC MIXING VALVE, BRADLEY-354-2007. SEE DETAIL (U2P1). THERMOSTATIC MIXING VALVE FOR RINKS OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 11) 3" TRAP PRIMER FOR FLOOR DRAIN.
- 12) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PD).
- 13) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PD).

SYMBOLS LEGEND

- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- WASTE LINE
- WASTE VENT LINE
- CONDENSATE
- GAS LINE
- COLD WATER LINE
- HOT WATER LINE
- RE-CIRCULATION LOOP
- ⊕ GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1.
- ⊕ HOSER WATER/RAIN BOX, SEE PN1, SECTION 2.2.
- ⊕ WASTE CLEAN OUT, SEE PN1, SECTION 2.3.
- ⊕ HOSE BIBB, (SEE PN1, SECTION 3).
- ⊕ WATER METER/SUB-METER
- ⊕ WATER HEATER, SEE PN1, SECTION 3.2.
- TANKLESS
- TANKED
- DENOTES PLUMBING FIXTURE # CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
- DENOTES PLUMBING FIXTURE ABOVE LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
- AA ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM.
- BEAM/HEADER PER STRUCTURAL PLANS
- SHEARWALL PER STRUCTURAL PLANS
- FRAMING MEMBER PER STRUCTURAL PLANS
- RECESSED LIGHT FIXTURE, VERIFY EXACT LOCATION WITH UTILITY PLANS
- DENOTES CONTINUOUS EXTERIOR FOOTING, (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS FOOTING INTO STERNALL (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.)



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1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

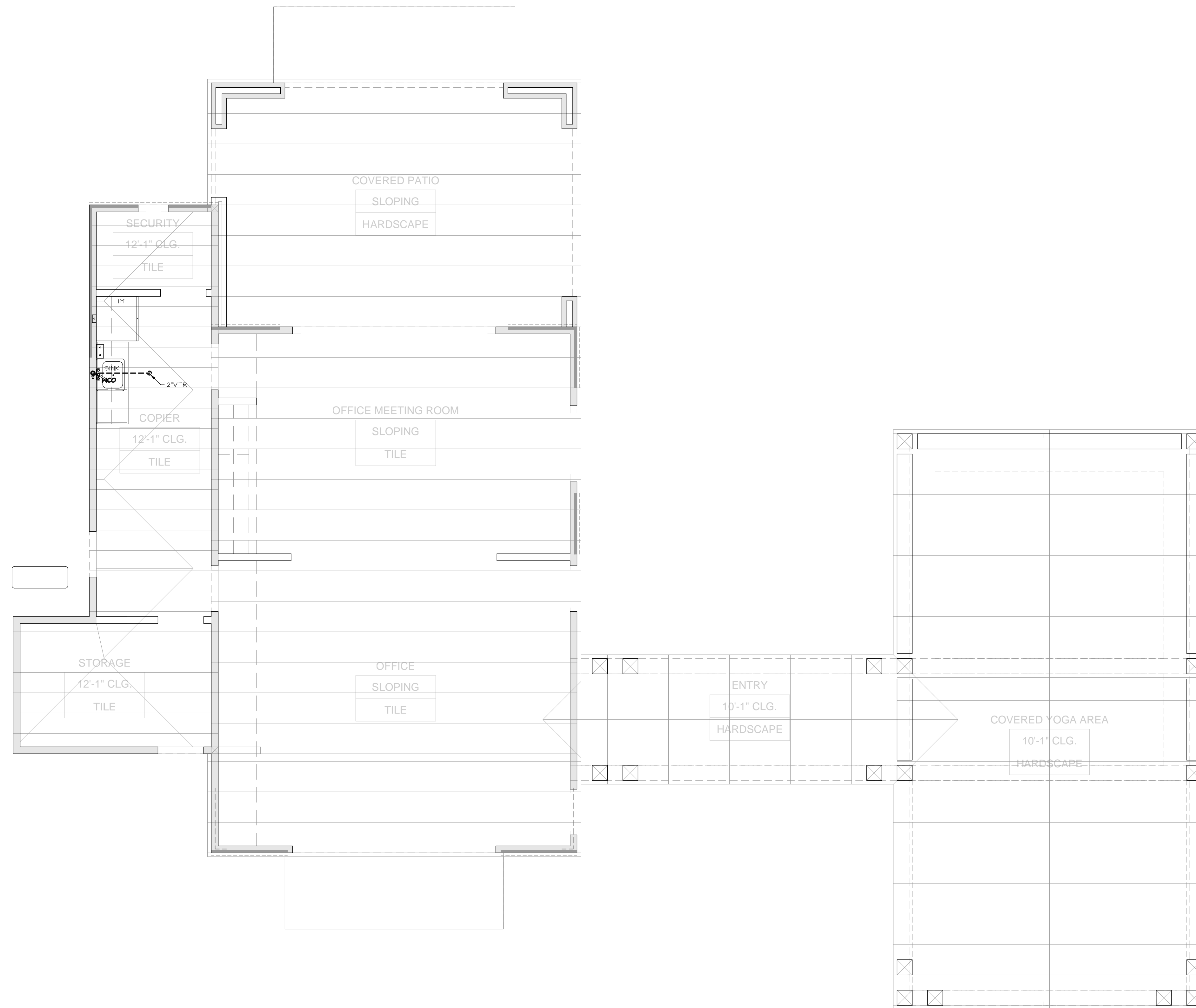
PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:

REGISTERED PROFESSIONAL ENGINEER
EXPIRES 09/30/24
M 18824
CALIFORNIA

PLAN NUMBER: SEGMENT 2
SHEET TITLE: FOUNDATION DRAIN, WASTE & VENT LAYOUT
SCALE: 1/4" = 1'-0"
SHEET NUMBER: P1.2A
JOB NUMBER: HS22244



CLUB DRAIN-WASTE-VENT					
FIXTURE	LINE SIZE				
	DFU	TRAP	DRAIN	VENT	
KS	2.0	1 1/2"	2"	1 1/2"	1
DW	2.0	1 1/2"	0	0	1
W	0	0	0	0	1
TOTAL	4.0				3

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
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PROJECT SPECIFICATIONS

GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3/4" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING. (SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.)

DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS. ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

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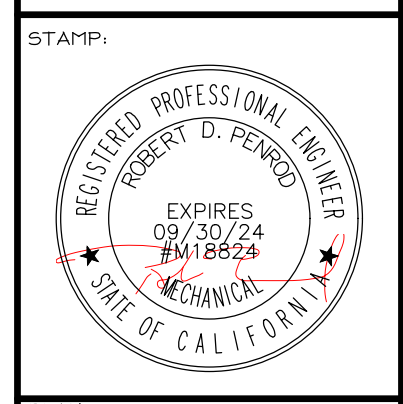
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HOMEFED CORPORATION
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CARLSBAD, CA 92008

PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023



PLAN NUMBER: **SEGMENT 1**

SHEET TITLE: **LEVEL 1 DRAIN, WASTE & VENT LAYOUT**

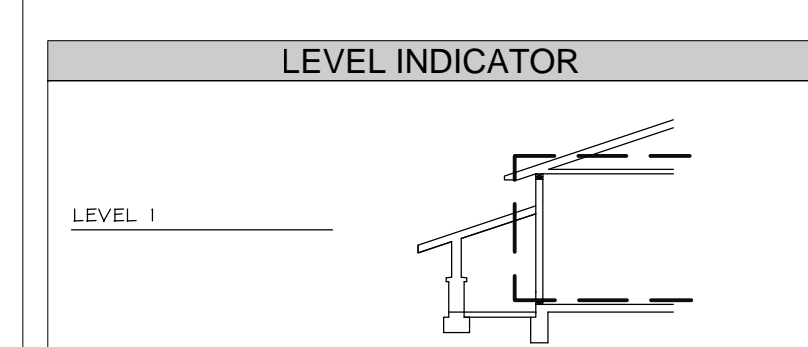
SCALE: 1/4" = 1'-0"

KEY NUMBER: **P1.3**

JOB NUMBER: HS22244

KEYNOTES

- 3 THERMOSTATIC MIXING VALVE, BRADLEY-354-2007. SEE DETAIL (USE) THERMOSTATIC MIXING VALVE FOR RINKS OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 11 3" TRAP PRIMER FOR FLOOR DRAIN.
- 12 TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).
- 13 ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30" USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PJ).



SYMBOLS LEGEND

	DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
	DENOTES DETAIL REFERENCE.
	REFER TO DENOTED SHEET #.
	WASTE LINE
	WASTE VENT LINE
	CONDENSATE
	GAS LINE
	COLD WATER LINE
	HOT WATER LINE
	RE-CIRCULATION LOOP
	GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1
	ROUGHER WATER/DRAIN BOX, SEE PN1, SECTION 2.2
	WASTE CLEAN OUT, SEE PN1, SECTION 2.3
	ROUGH BIBB, SEE PN1, SECTION 3
	WATER METER/SUB-METER
	WATER HEATER, SEE PN1, SECTION 3.2
	TANKLESS
	TANKED
	DENOTES PLUMBING FIXTURE @ CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
	DENOTES PLUMBING FIXTURE ABOVE (VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS).
	ATTIC ACCESS PER ARCHITECT W/ FIN 30" HEADROOM.
	BEAM/HEADER PER STRUCTURAL PLANS
	SHEARWALL PER STRUCTURAL PLANS
	FRAMING MEMBER PER STRUCTURAL PLANS
	RECESSED LIGHT FIXTURE, VERIFY EXACT LOCATION WITH UTILITY PLANS
	DENOTES CONTINUOUS EXTERIOR FOOTING, (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS FOOTING INTO STERNWALL (AS SPECIFIED ON STRUCTURAL PLANS.)
	DENOTES CONTINUOUS INTERIOR FOOTING (AS SPECIFIED ON STRUCTURAL PLANS.)

POOL DRAIN-WASTE-VENT					
LINE SIZE					
FIXTURE	DFU	TRAP	DRAIN	VENT	QTY
WC1	4.0	3"	4"	2"	10
U	2.0	1 1/2"	2"	1 1/2"	5
LAV	1.0	1 1/2"	1 1/2"	1 1/2"	10
SH	2.0	2"	2"	1 1/2"	8
MOP	3.0	3"	3"	2"	1
DF	1.0	1 1/2"	1 1/2"	1 1/2"	2
TOTAL	81.0				36

GENERAL NOTES

- IT IS THE CONTRACTOR/OWNER/DEVELOPER'S RESPONSIBILITY TO REVIEW ALL NOTES AND DETAILS ON THE PN SHEETS AND INCORPORATE IN THE CONSTRUCTION OF THE STRUCTURE.
- PRIOR TO BUILDING DEPARTMENT APPROVAL, THESE CONSTRUCTION DOCUMENTS ARE SUBJECT TO CHANGE AND SHALL NOT BE USED FOR CONSTRUCTION. ANY CONSTRUCTION BIDS PERFORMED BEFORE PERMIT ISSUANCE IS THE RESPONSIBILITY OF THE CONTRACTOR/BIDDER.

PROJECT SPECIFICATIONS

GENERAL:
SEE SCHEDULES ON PLAN FOR LINE SIZES SERVING SINGLE FIXTURE.

GAS:
GAS SERVICE METER LOCATED AT BACK SIDE STORAGE ROOM OF THE POOL BUILDING.

WATER:
THE POOL BUILDING'S 3" WATER SERVICE LINE IS LOCATED ON THE BACK SIDE OF THE POOL EQUIPMENT ROOM. THE OFFICE BUILDING'S 3/4" SERVICE METER THE BACK SIDE OF THE STORAGE ROOM. BELOW GRADE WATER PIPE TO BE PVC OR CPVC ABOVE GRADE TO BE PEX TUBING ONLY. SEE PN1 SECTION 2.2 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SERVICE LINE AND METER W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

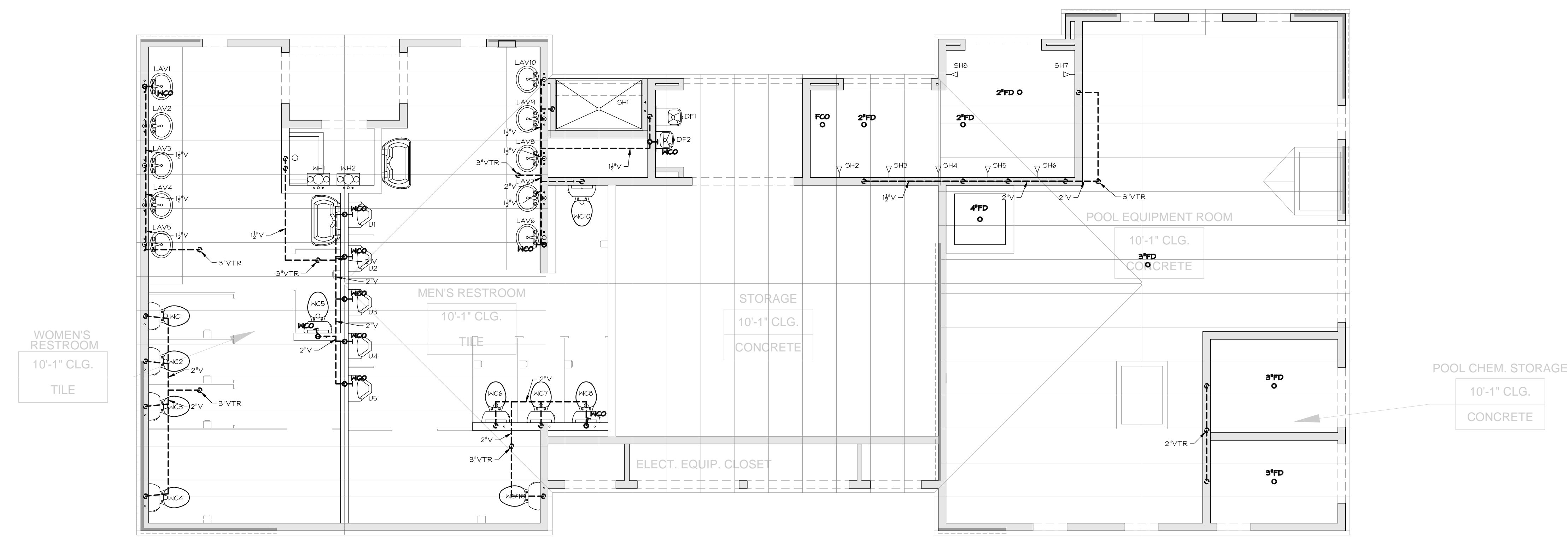
DRAIN, WASTE, AND VENT:
BELOW GRADE WASTE/VENT PIPE TO BE ABS. ABOVE GRADE TO BE ABS. SEE PN1 SECTION 2.3 FOR GENERAL REQUIREMENTS AND ALTERNATES. VERIFY LOCATION OF SEWER LATERAL W/ CIVIL PLANS PRIOR TO CONSTRUCTION.

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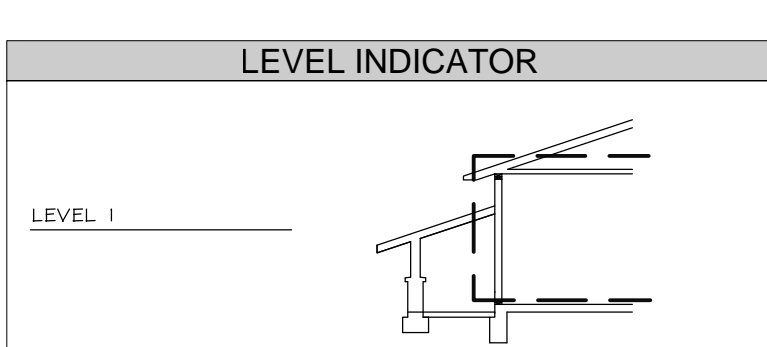
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KEYNOTES

- 3) THERMOSTATIC MIXING VALVE, BRADLEY-864-2007. SEE DETAIL (U2P1). THERMOSTATIC MIXING VALVE FOR RINSE OR EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 11) 3" TRAP PRIMER FOR FLOOR DRAIN.
- 12) TWO-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PD1).
- 13) ONE-WAY COTG SAME SIZE AS WASTE LATERAL, WHERE IS IN EXCESS OF 30' USE TERMINAL CLEAN OUTS. SEE DETAIL 25(PD1).



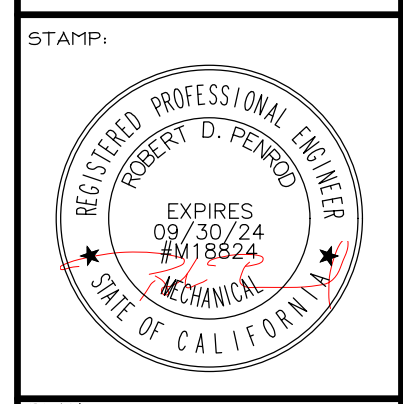
SYMBOLS LEGEND

- DENOTES KEYNOTE SPECIFICATION. REFER TO KEYNOTE SCHEDULE ON THIS SHEET.
- DENOTES DETAIL REFERENCE.
- REFER TO DENOTED SHEET #.
- WASTE LINE
- WASTE VENT LINE
- CONDENSATE
- GAS LINE
- COLD WATER LINE
- HOT WATER LINE
- RE-CIRCULATION LOOP
- GAS VALVE/STUB OUT, SEE PN1, SECTION 2.1.
- WASHER WATER/RAIN BOX, SEE PN1, SECTION 2.2.
- WASTE CLEAN OUT, SEE PN1, SECTION 2.3.
- HOSE BIBB, SEE PN1, SECTION 3.
- WATER METER/SUB-METER
- WATER HEATER, SEE PN1, SECTION 3.2.
- TANKLESS
- TANKED
- DENOTES PLUMBING FIXTURE # CURRENT LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
- DENOTES PLUMBING FIXTURE ABOVE LEVEL. VERIFY EXACT LOCATION W/ ARCHITECTURAL PLANS.
- AA ATTIC ACCESS PER ARCHITECT W/ MIN 30" HEADROOM.
- BEAM/HEADER PER STRUCTURAL PLANS
- SHEARWALL PER STRUCTURAL PLANS
- FRAMING MEMBER PER STRUCTURAL PLANS
- RECESSED LIGHT FIXTURE. VERIFY EXACT LOCATION WITH UTILITY PLANS.
- DENOTES CONTINUOUS EXTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS FOOTING INTO INTERNALS. (AS SPECIFIED ON STRUCTURAL PLANS.)
- DENOTES CONTINUOUS INTERIOR FOOTING. (AS SPECIFIED ON STRUCTURAL PLANS.)

COTA VERA SWIM CLUB
CHULA VISTA, CA

HOMEFED CORPORATION
1903 WRIGHT PLACE, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: MW
DESIGNER: VMC
DRAWN BY: GES
CHECKED BY: MW
ISSUE DATE: 01-13-2023



PLAN NUMBER: **SEGMENT 2**

SHEET TITLE: **LEVEL 1 DRAIN, WASTE & VENT LAYOUT**

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

DRY NUMBER: **P1.3A**

JOB NUMBER: HS22244

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 7 of 15)
C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹				
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹	
Receptacle	7.69	7.69	---	
Process	---	---	---	
Other Ltg	---	---	---	
Process Motors	---	---	---	
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	26.99	23.14	3.85 (14.3%)	
¹ Notes: This table is not used for Energy Code Compliance.				
C6. 'ABOVE CODE' QUALIFICATIONS				
<input type="checkbox"/> This project is pursuing CalGreen Tier 1 <input type="checkbox"/> This project is pursuing CalGreen Tier 2				

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 4 of 15)
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft² - yr)				
COMPLIES ²				
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹	
Space Heating	17.8	22.42	-4.62	
Space Cooling	32.83	51.91	-19.08	
Indoor Fans	121.52	63.12	58.4	
Heat Rejection	0	0	0	
Pumps & Misc.	0	0	0	
Domestic Hot Water	11.84	11.84	0	
Indoor Lighting	34.22	34.22	0	
Flexibility	---	---	---	
EFFICIENCY COMPLIANCE TOTAL	218.21	183.51	34.7 (15.9%)	
Photovoltaics	---	---	---	
Batteries	---	---	---	
TOTAL COMPLIANCE	218.21	183.51	34.7 (15.9%)	
¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.				

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 1 of 15)
Project Name:		COTA VERA OFFICE		Date Prepared: 2023-01-09
A. General Information				
1	Project Name	COTA VERA OFFICE		
2	Run Title	Title 24 Analysis		
3	Project Location	COTA VERA		
4	City	CHULA VISTA	5	Standards Version
6	Zip code	91913	7	Compliance Software (version)
8	Climate Zone	7	9	Building Orientation (deg)
10	Building Type(s)	• Nonresidential		
12	Project Scope	• New envelope and mechanical		
14	Total Conditioned Floor Area in Scope (ft ²)	1164	13	Number of Dwelling Units
16	Total Unconditioned Floor Area (ft ²)	0	15	Total # of hotel/motel rooms
18	Nonresidential Conditioned Floor Area	1164	17	Fuel Type
20	Residential Conditioned Floor Area	0	19	Total # of Stories (Habitable Above Grade)
				IMPERIAL-BEACH_NOLF_STYP20.epw
				0
				Natural gas
				1

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD							NRCC-PRF-E
Nonresidential Performance Compliance Method							(Page 8 of 15)
C7. ENERGY USE SUMMARY							
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)	
Space Heating	0.6	0.8	-0.2	---	---	---	
Space Cooling	1.2	2.1	-0.9	---	---	---	
Indoor Fans	5	2.6	2.4	---	---	---	
Heat Rejection	---	---	---	---	---	---	
Pumps & Misc.	---	---	---	---	---	---	
Domestic Hot Water	0.5	0.5	0	---	---	---	
Indoor Lighting	1.6	1.6	0	---	---	---	
Flexibility	---	---	---	---	---	---	
EFFICIENCY TOTAL	8.9	7.6	1.3	0	0	0	
Photovoltaics	---	---	---	---	---	---	
Batteries	---	---	---	---	---	---	
ENERGY USE SUBTOTAL	8.9	7.6	1.3	0	0	0	
Receptacle	5	5	0	---	---	---	
Process	---	---	---	---	---	---	
Other Ltg	---	---	---	---	---	---	
Process Motors	---	---	---	---	---	---	
ENERGY USE TOTAL	13.9	12.6	1.3	0	0	0	

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 5 of 15)
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹				
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹	
Receptacle	105.34	105.34	---	
Process	---	---	---	
Other Ltg	---	---	---	
Process Motors	---	---	---	
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	323.55	288.85	34.7 (10.7%)	
¹ Notes: This table is not used for Energy Code Compliance.				

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 2 of 15)
B1. PROJECT SUMMARY				
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.				
Building Components Complying via Performance			Building Components Complying Prescriptively	
Envelope (See Table G) Nonres	<input checked="" type="checkbox"/> Performance	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/> Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).
	<input type="checkbox"/> Not Included		<input type="checkbox"/> Not Included	
Mechanical (See Table H) Nonres	<input checked="" type="checkbox"/> Performance		<input type="checkbox"/> Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)
	<input type="checkbox"/> Not Included		<input checked="" type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)
Domestic Hot Water (See Table I) Nonres	<input type="checkbox"/> Performance	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/> Performance	Sign Lighting 140.8 & 170.2(e)
	<input checked="" type="checkbox"/> Not Included		<input checked="" type="checkbox"/> Not Included	
Lighting (Indoor Conditioned, see Table K) Nonres	<input type="checkbox"/> Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	Building Components Complying with Mandatory Measures	
	<input checked="" type="checkbox"/> Not Included		Electrical Power Distribution 110.11	NRCC-ELC-E is required
Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/> Performance		Commissioning 120.8	NRCC-CXR-E is required
	<input checked="" type="checkbox"/> Not Included		Solarand Battery 110.10	NRCC-SAB-E is required

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRCC-PRF-E
Nonresidential Performance Compliance Method					(Page 9 of 15)
C8. ENERGY USE INTENSITY (EUI)					
	Standard Design (kBtu/ft ² / yr)	Proposed Design (kBtu/ft ² / yr)	Margin (kBtu/ft ² / yr)	Margin Percentage	
GROSS EUI ¹	40.74	36.93	3.81	9.35	
NET EUI ¹	40.74	36.93	3.81	9.35	
¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.					
D1. EXCEPTIONAL CONDITIONS					
<ul style="list-style-type: none"> PrescriptiveDayLightCtrl NoServiceWaterHeating 					
G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)					
1	2	3	4		
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)		
North-Facing ¹	438	158	36.07		
East-Facing ²	510	15	2.94		
South-Facing ³	444	122	27.48		
West-Facing ⁴	510	74	14.51		
Total	1902	369	19.4		
Roof	1164	0	0		
Notes					
¹ North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).					
² East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).					
³ South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).					
⁴ West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).					

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 6 of 15)
C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kWh/ft² /yr)				
COMPLIES ²				
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹	
Space Heating	2.56	3.25	-0.69	
Space Cooling	1.56	2.56	-1	
Indoor Fans	11.43	5.89	5.54	
Heat Rejection	0	0	0	
Pumps & Misc.	0	0	0	
Domestic Hot Water	1.11	1.11	0	
Indoor Lighting	2.64	2.64	0	
Flexibility	---	---	---	
EFFICIENCY COMPLIANCE TOTAL	19.3	15.45	3.85 (19.9%)	
Photovoltaics	---	---	---	
Batteries	---	---	---	
TOTAL COMPLIANCE	19.3	15.45	3.85 (19.9%)	
¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.				

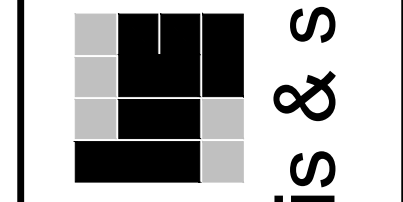
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 3 of 15)
C1. COMPLIANCE SUMMARY				
COMPLIES ¹				
	Time Dependent Valuation (TDV)		Source Energy Use	
	Efficiency ² (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)	Pass
Standard Design	218.21	218.21	19.3	
Proposed Design	183.51	183.51	15.45	
Compliance Margins	34.7	34.7	3.85	Pass
¹ Efficiency measures include improvements like a better building envelope and more efficient equipment				
² Compliance Totals include efficiency, photovoltaics and batteries				
³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded				

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Structural
Mechanical
Electrical
Plumbing
Energy



harris & sloan

1303 WILHELM PL, SUITE 200
CARLSBAD, CA 92008

COTA VERA SWIM CLUB
CHULA VISTA, CA
HOMEFEED CORPORATION
1903 WILHELM PL, SUITE 200
CARLSBAD, CA 92008

PROJECT MANAGER: TFW
DESIGNER: KN

DRAWN BY: KN
CHECKED BY:

ISSUE DATE: 01-13-2023

REVISIONS:

STAMP:

PLAN NUMBER: SWIM CLUB
SHEET TITLE: SWIM CLUB TITLE 24 COMPLIANCE

SCALE:
SHEET NUMBER:
T1.1

JOB NUMBER: HS22244

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION						
1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation			Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both	
	Ventilation Function	# of People/ People	Supply OA CFM			
1-Office	Office - Office space	5.82	174.6	500	1164	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY											
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
2-Office-VRF	Variable Refrigerant Flow	1	45.3	32.4	1,100	N/A	N/A	0.34	BHP	Continuous	Constant Speed

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all Buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration

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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Mechanical	NRCA-MCH-20-H Multifamily Ventilation

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
--------------------	------------

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Documentation Author's Declaration Statement

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

Documentation Author Name: KWEEKU NGISSAH	Documentation Author Signature: <i>Kweeku Ngissah</i>
Company: HARRIS & SLOAN	Signature Date:
Address: 2295 GATEWAY OAKS DR	CEA/HERS Certification Identification (if applicable):
City/State/Zip:	Phone: 916.921.2441

Responsible Person's Declaration statement

2. 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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
- I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: DAN MULLEN	Responsible Designer Signature: <i>Dan Mullen</i>
Company: STARCK ARCHITECTURE + PLANNING	Date Signed: 1/9/23
Address: 2045 KETTNER BLVD STE 100	License #: C10560
City/State/Zip: SAN DIEGO, CA 92101	Title: Architect
Phone: 619-299-7070	Scope: Envelope
Responsible Designer Name: ROB PENDROD	Responsible Designer Signature: <i>Rob Pendrod</i>
Company: HARRIS & SLOAN	Date Signed: 1/9/23
Address: 2295 GATEWAY OAKS DR	License #: M18824
City/State/Zip: SACRAMENTO, CA 95833	Title: Engineer
Phone: 916.921.2441	Scope: Mechanical

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G4. NONRESIDENTIAL AIR BARRIER	
01	02
Building Story Name	Air Barrier
Office Floor 1	No air barrier

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G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value	Units				
Surface Name	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Value	Value	Description of Assembly Layers	Status¹	
Slab On Grade²	Underground Floor	1,164	N/A	0	N/A	N/A	F-factor	0.73	Slab Type - Unheated slab on grade Insulation Orientation - None Insulation R-Value - none	N
R-19 Wall9	Exterior Wall	1,902	Wood	19	N/A	N/A	U-factor	0.0723	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
R-30 Roof Attic21	Roof	830	Wood	30	N/A	N/A	U-factor	0.0383	AsphaltShingles0_25in Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-2 Gypsum Board - 1/2 in.	N
R-0 Interior Wall23	Interior Wall	540	Wood	0	N/A	N/A	U-factor	0.3643	Gypsum Board - 1/2 in. Composite-3 Gypsum Board - 1/2 in.	N
Flat TPO Roof R-3030	Roof	334	Wood	30	N/A	N/A	U-factor	0.0394	Single Ply Roofing - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-4 Gypsum Board - 1/2 in.	N

¹ Status: N - New, A - Altered, E - Existing

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G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method¹	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status²
Residential FX	Vertical fenestration Fixed window N/A	NFRC	Manufactured	273	0.3	0.23	0.5	New
Residential FD	Vertical fenestration Fixed window N/A	NFRC	Manufactured	96	0.34	0.23	0.5	New

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04				05			11	12
			Heating	Efficiency	Efficiency	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status¹
HP1	Variable Refrigerant Flow	1	45.3	N/A	HSPF	11	45.3	N/A	NA	N/A	N

¹ Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Power/PowerPower	Power Units	Continuous Operation?	Status¹
Office1	1-Office	1	500	0.19	0.33	1.58	New

¹ Status: N - New, A - Altered, E - Existing

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 Schema Version: rev 20220601

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 CARLSBAD, CA 92008

PROJECT MANAGER: TSW
 DESIGNER: KN
 DRAWN BY: KN
 CHECKED BY:
 ISSUE DATE: 01-13-2023
 REVISIONS:

STAMP:

PLAN NUMBER:
SWIM CLUB
 SHEET TITLE:
SWIM CLUB TITLE 24 COMPLIANCE

SCALE:
 SHEET NUMBER:
T1.2

JOB NUMBER: HS22244