



TO: Goleta Design Review Board

SUBMITTED BY: Travis Lee, Associate Planner

SUBJECT: 250/270 Storke Rd Site Improvements APN 073-100-032 Case Nos.
25-0005-SCD/25-0021-DRB

PROJECT DESCRIPTION:

This is a request for **Final Review**. The DRB initially reviewed this proposal on July 7, 2025, and provided conceptual and preliminary approval with conditions: That the proposed lemon trees are replaced with olive trees and to reduce the number of proposed Ginkgo trees from 2 to 1 and increase the box size to 24-36". The applicant has submitted revised plans that changed the lemon trees for olive tree and reduced the proposed Ginkgo trees from 2 to 1 and increased the size to 24" box.

This is a request for a **Final** Review to complete the DRB process. The project description is as follows:

- Remove 3 palm trees.
- Install new 256 square foot patio and 1 new Ginkgo tree.
- New storefront door/window at south side of 270 Storke Rd.
- Remove 4 parking spaces and construct new 365 square foot patio with 4 new lemon trees.
- New curb ramp path of travel from 270 to 250 Storke.
- New bicycle parking.

No new square footage is proposed to the existing buildings. The subject property has a Zoning and General Plan Land Use designation of Community Commercial (CC) and are located in the Inland Zone and is subject to the Goleta Commercial Architecture and Design standards. The project does not include a request for adjustments or modifications, and no development is proposed within 100 feet of an Environmentally Sensitive Habitat Area (ESHA). The project was filed by Scott Branch, of BBP Architecture, for Storke Road II LP, property owner.

BACKGROUND/DISCUSSION:

The proposed project requires a Substantial Conformity Determination (SCD) to the previously approved Development Plan (19-024-DP) for the Storke Shopping Center. The

SCD was approved by the planning director on October 9, 2025, after a 10-day appeal period.

As mentioned previously, the DRB conducted conceptual and preliminary review and approved the proposed changes with requested changes outlined above. The applicant is back to the DRB for Final approval and has updated their plans to reflect the DRB requests as shown in project plans, Attachment A.

An action of the DRB to grant Final approval is not subject to appeal. The Findings and the CEQA determination were made at the time of Preliminary Design approval.

NEXT STEPS

If the DRB grants the applicant's request, the next steps include: (1) ministerial issuance of a Zoning Clearance and (2) review and approval by Building & Safety ("Building Permits").

ATTACHMENTS

Attachment A - Project Plans

ATTACHMENT A

PLANS

AIA

California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

BBP

ARCHITECTURE

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SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS

250 & 270 Störke Rd
Goleta, CA 93117

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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 5 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 1101.1 et seq. 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. 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
OSHPD 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 90 degrees above nadir. This applies to all lateral angles around the luminaire.

ELECTRIC VEHICLE (EV), [BSC-CG, HCD]

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 (EV) CAPABLE SPACE, [BSC-CG, DSA-SS and HCD]

A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER, [BSC-CG, HCD]

Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE), [HCD]

A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS), [BSC-CG, DSA-SS, HCD]

One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE, [HCD]

A vehicle space which is provided with a branch circuit, any necessary raceways, both underground and/or surface mounted, to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE), [BSC-CG, DSA-SS and HCD]

The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, 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.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope, [BSC-CG]

Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]:

Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building.

An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance.

Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note:

Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

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 lawfully 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 hydrosseeding 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. Soil prevention and control.
h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.

Comply with all lawfully 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 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 Pollution 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/constructionstormwater. 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 staff bicycle parking spaces per new building. Acceptable bicycle parking facilities 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.

5.106.5.3 Electric vehicle (EV) charging, [N] [BSC-CG]

Construction to provide electric vehicle infrastructure and facilities electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 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 into 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 all EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at 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 (EV CAPABLE SPACES PROVIDED WITH EVSE) ^{1,2}
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 percent of actual parking spaces ¹	25 percent of EV capable spaces ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS)

EV capable spaces shall be provided with electric vehicle supply equipment (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 shall be provided with Level 2 EVSE or DCFE as permitted in Section 5.106.5.3.2.1. 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 accumulated supplied to the EV charger.
The installation of each DCFE 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.
5.106.5.3.2.1 The installation of each DCFE EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.
5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.
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 served 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 EVSC shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-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).
5.106.5.3.4 Accessible electric vehicle charging station (EVCS).

When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.
5.106.5.3.5 Electric vehicle charging station signage.

Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).
Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFE EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method.

The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL KVA @ 6.6 KVA	TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE, 3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFE
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × 20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A], [BSC-CG]

Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.

1.

When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.

2.

When a new photovoltaic system is installed covering existing parking spaces.

3.

When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

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 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.
d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A].

When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A].

When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

Y

N/A

RESPON. PARTY

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty, [N] [BSG-CG]

Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 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:
5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces, [N]

In order to avoid future demolition when adding EV 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 subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate one 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 5.106.5.5.1.
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 equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of 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 5.106.5.5.1.

TABLE 5.106.5.5.1 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
Manufacturing Facilities	10,000 to 50,000	1 or Greater	400
	10,000 to 50,000	1 or 2	200
Office Buildings	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
Warehouse	10,000 to 135,000	1 or Greater	400
	Greater than 135,000	1 or 2	200
	Greater than 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
	20,000 to 256,000	1 or 2	200
	Greater than 256,000	3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges, [DSA-SS]

Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 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 compliance with this section has been demonstrated to be not feasible based upon one of the following conditions and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
a. Where there is no local utility power supply.
b. Where the local utility is unable to supply adequate power.
c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.
5.106.5.6.1 EV capable spaces.

EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 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 space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable 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 at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EVCS ²
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces ¹	25 percent of EV capable spaces ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS).

EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.3.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with California Building Code Chapter 11B.

sheet description
GREEN CODE

date:
5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:
G-1.1



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

<div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div> <div><div><div>5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.</div><div>5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.</div><div>5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 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.</div><div>5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.</div></div><div><table><tr><th colspan="2">TABLE 5.106.5.6.3</th></tr><tr><th>NUMBER OF PARKING SPACES IN A PARKING FACILITY</th><th>MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS</th></tr><tr><td>0-9</td><td>0</td></tr><tr><td>10-25</td><td>7</td></tr><tr><td>26-50</td><td>14</td></tr><tr><td>51-75</td><td>20</td></tr><tr><td>76-100</td><td>27</td></tr><tr><td>101-150</td><td>40</td></tr><tr><td>151-200</td><td>60</td></tr><tr><td>201 AND OVER</td><td>Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility</td></tr></table></div><div><div>5.106.5.6.4 EVCS for alterations or to additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.</div><div>5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.</div><div>5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.</div><div>5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with California Building Code Chapter 11B.</div><div>Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.</div></div><div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div><div><div>5.106.8 LIGHT POLLUTION REDUCTION. [N]. 1. Outdoor lighting systems shall be designed and installed to comply with the following:<ol style="list-style-type: none">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; andBacklight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) andAllowable 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]<ol style="list-style-type: none">Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.Emergency lighting.Building facade meeting the requirements in Table 140.7-4 of the California Energy Code, Part 6.Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.Luminaires with less than 6,200 initial luminaire lumens.</div></div><div><table><tr><th colspan="6">TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2</th></tr><tr><th>ALLOWABLE RATING</th><th>LIGHTING ZONE LZ0</th><th>LIGHTING ZONE LZ1</th><th>LIGHTING ZONE LZ2</th><th>LIGHTING ZONE LZ3</th><th>LIGHTING ZONE LZ4</th></tr><tr><td>MAXIMUM ALLOWABLE BACKLIGHT RATING</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Luminaire greater than 2 mounting heights (MH) from property line</td><td>N/A</td><td>No Limit</td><td>No Limit</td><td>No Limit</td><td>No Limit</td></tr><tr><td>Luminaire back hemisphere is 1-2 MH from property line</td><td>N/A</td><td>B2</td><td>B3</td><td>B4</td><td>B4</td></tr><tr><td>Luminaire back hemisphere is 0.5-1 MH from property line</td><td>N/A</td><td>B1</td><td>B2</td><td>B3</td><td>B3</td></tr><tr><td>Luminaire back hemisphere is less than 0.5 MH from property line</td><td>N/A</td><td>B0</td><td>B0</td><td>B1</td><td>B2</td></tr><tr><td>MAXIMUM ALLOWABLE UPLIGHT RATING (U)</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>For area lighting</td><td>N/A</td><td>U0</td><td>U0</td><td>U0</td><td>U0</td></tr><tr><td>For all other outdoor lighting, including decorative luminaires</td><td>N/A</td><td>U1</td><td>U2</td><td>U3</td><td>UR</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING (G)</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING (G)</td><td>N/A</td><td>G1</td><td>G2</td><td>G3</td><td>G4</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING (G)</td><td>N/A</td><td>G0</td><td>G1</td><td>G1</td><td>G2</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING (G)</td><td>N/A</td><td>G0</td><td>G0</td><td>G1</td><td>G1</td></tr><tr><td>MAXIMUM ALLOWABLE GLARE RATING (G)</td><td>N/A</td><td>G0</td><td>G0</td><td>G0</td><td>G1</td></tr></table></div><div><div>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.</div><div>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.</div><div>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"</div></div></div> <div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div><div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div> <div><div>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.</div><div>Exception: Corners. If two property lines (or two segments of the same property line) have equidistant 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.</div><div>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.</div><div>Note: [N]<ol style="list-style-type: none">See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.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.Refer to the California Building Code for requirements for additions and alterations.</div><div>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:<ol style="list-style-type: none">Swales.Water collection and disposal systems.French drains.Water retention gardens.Other water measures which keep surface water away from buildings and aid in groundwater recharge.Exception: Additions and alterations not altering the drainage path.</div><div>5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted 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.</div><div>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.</div><div>Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS shall be permitted in whole or in part in lieu of shade tree planting.</div><div>5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.</div><div>Exceptions: Playfields for organized sport activity are not included in the total area calculation.</div><div>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.</div><div>Exceptions:<ol style="list-style-type: none">Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS shall be permitted in whole or in part in lieu of shade tree planting.Designated and marked play areas of organized sport activity are not included in the total area calculation.</div></div> <div><div>5.106.12.1 Surface parking areas. 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Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.3.3 Showerheads. [BSC-CG]

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 (rim space (inches) at 60 psi).

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 (rim space (inches) at 60 psi).

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray valve When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2	
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019	
PRODUCT CLASS [Spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103.3, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:

- The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
- MWELO and supporting documents, including a water budget calculator, are available at: <https://www.water.ca.gov/>.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 480 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:

- The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
- MWELO and supporting documents, including a water budget calculator, are available at: <https://www.water.ca.gov/>.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 480 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

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.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21590.

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.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

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:

- An installed awning at least 4 feet in depth.
- The door is protected by a roof overhang at least 4 feet in depth.
- The door is recessed at least 4 feet.
- Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

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 and demolition 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:

- 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.
- Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
- Identifies diversion facilities where construction and demolition waste material collected will be taken.
- 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:

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
- 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:

- Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
- 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 nonresidential 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:

- 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.
- For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdffa.ca.gov)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

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.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

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.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

- 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.
- Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
 - Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
 - Makeup water for evaporative coolers greater than 8 gpm (0.04 L/s).
 - Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

- 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.
- Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
 - Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
 - Makeup water for evaporative coolers greater than 8 gpm (0.04 L/s).
 - Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

Y

N/A

RESPON. PARTY

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.

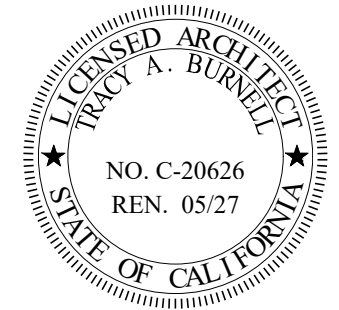


ARCHITECTURE

924 anacapa st
santa barbara, ca
93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Stoke Rd
Goleta, CA 93117



sheet description
GREEN CODE

date:
5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:
G-1.2



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Y	NA	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.		
Notes: 1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impad-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBI Solutions (gabi.sphera.com), SimaPro (simaopro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com). 2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment. 3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.		
5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.		
5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.		
5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.		
5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.		
TABLE 5.409.3 PRODUCT GWP LIMITS		
BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY ¹	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP _{allowed})	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO ₂ e/MT
Hollow structural sections	3.00	MT CO ₂ e/MT
Steel plate	2.61	MT CO ₂ e/MT
Concrete reinforcing steel	1.56	MT CO ₂ e/MT
Flat glass	2.50	MT CO ₂ e/MT ⁴
Light-density mineral wool board insulation	5.83	kg CO ₂ e/MT
Heavy-density mineral wool board insulation	14.28	kg CO ₂ e/MT
Concrete, Ready-Mixed ² , ³		
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	450	kg CO ₂ e/m ³
2500–3499 psi	489	kg CO ₂ e/m ³
3500–4499 psi	566	kg CO ₂ e/m ³
4500–5499 psi	661	kg CO ₂ e/m ³
5500–6499 psi	701	kg CO ₂ e/m ³
6500 psi and greater	799	kg CO ₂ e/m ³
Concrete, Lightweight Ready-Mixed ²		
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	875	kg CO ₂ e/m ³
2500–3499 psi	966	kg CO ₂ e/m ³
3500–4499 psi	1039	kg CO ₂ e/m ³
1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA. 2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength. 3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category. 4. The GWP unit for flat glass has been adjusted to correct an error in the express terms. With the revised unit (MT CO ₂ e/MT), reported GWP values will align with industry data as published in the CLF North American Material Baselines (2023). 5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3. Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value. For the purposes of this exception, industry-wide EPDs are acceptable. Exception EQUATION 5.409.3.1 $GWP_n < GWP_{allowed}$ where $GWP_n = \sum (GWP_n)(V_n)$ and $GWP_{allowed} = \sum (GWP_{allowed})(V_n)$ and $n =$ each concrete mix installed in the project $GWP_n =$ the GWP for concrete mix n , per concrete mix EPD, in kg CO ₂ e/m ³ $GWP_{allowed} =$ the GWP potential allowed for concrete mix n , per Table 5.409.3 $V_n =$ the volume of concrete mix n installed in the project, in m ³		

Y	NA	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided or submitted. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.		
SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area. 5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the <i>Public Resources Code</i> . Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site. 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 I-occupancies that are not regulated by OSHPD or for I-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 5.410.2.6 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. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the <i>California Energy Code</i> . 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 commissioned. 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 team information. 5. 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 in <i>California Code of Regulations</i> (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.		

Y	NA	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)(3) for additional testing requirements of specific systems. 5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include 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. 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 (<i>and are included here for reference</i>) 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 I-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 <i>California Electrical Code</i> , 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 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 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 O ₃ /g ROG). PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR 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 SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.		

Y	NA	RESPON. PARTY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer 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. 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 quality management or air quality management 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. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title 17, commencing with Section 94507. TABLE 5.504.4.1 - ADHESIVE VOC LIMIT^{1,2}		
Less Water and Less Exempt Compounds in Grams per Liter		
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	
INDOOR CARPET ADHESIVES	50	
CARPET PAD ADHESIVES	50	
OUTDOOR CARPET ADHESIVES	150	
WOOD FLOORING ADHESIVES	100	
RUBBER FLOOR ADHESIVES	60	
SUBFLOOR ADHESIVES	50	
CERAMIC TILE ADHESIVES	65	
VCT & ASPHALT TILE ADHESIVES	50	
DRYWALL & PANEL ADHESIVES	50	
COVE BASE ADHESIVES	50	
MULTIPURPOSE CONSTRUCTION ADHESIVES	70	
STRUCTURAL GLAZING ADHESIVES	100	
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	
SPECIALTY APPLICATIONS		
PVC WELDING	510	
CPVC WELDING	490	
ABS WELDING	325	
PLASTIC CEMENT WELDING	250	
ADHESIVE PRIMER FOR PLASTIC	550	
CONTACT ADHESIVE	80	
SPECIAL PURPOSE CONTACT ADHESIVE	250	
STRUCTURAL WOOD MEMBER ADHESIVE	140	
TOP & TRIM ADHESIVE	250	
SUBSTRATE SPECIFIC APPLICATIONS		
METAL TO METAL	30	
PLASTIC FOAMS	50	
POROUS MATERIAL (EXCEPT WOOD)	50	
WOOD	30	
FIBERGLASS	80	
1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTMLR/1168.PDF		
TABLE 5.504.4.2 - SEALANT VOC LIMIT		
Less Water and Less Exempt Compounds in Grams per Liter		
SEALANTS	CURRENT VOC LIMIT	
ARCHITECTURAL	250	
MARINE DECK	760	
NONMEMBRANE ROOF	300	
ROADWAY	250	
SINGLE-PLY ROOF MEMBRANE	450	
OTHER	420	
SEALANT PRIMERS		
ARCHITECTURAL		
NONPOROUS	250	
POROUS	775	
MODIFIED BITUMINOUS	500	
MARINE DECK	760	
OTHER	750	
NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.		

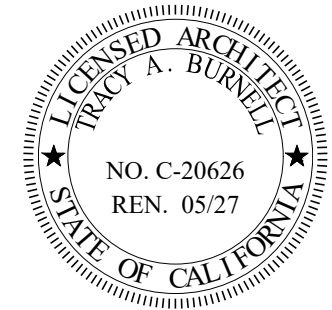


ARCHITECTURE

924 anacapa st
santa barbara, ca
93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117



sheet description
GREEN CODE

date:
5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:
G-1.3

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



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

Y N/A RESPON. PARTY = YES = NOT APPLICABLE RESPONSIBLE PARTY (ie ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

<div><div><div><div><div><div></div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div><div><div><div>5.504.4.3 Paints and coatings.</div><div>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.</div></div><div><div><div>5.504.4.3.1 Aerosol Paints and coatings.</div><div>Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (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 8 Rule 49.</div></div></div></div></div><div><div>TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS:_{2,3}</div><table><thead><tr><th colspan="2">GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS</th></tr><tr><th>COATING CATEGORY</th><th>CURRENT VOC LIMIT</th></tr></thead><tbody><tr><td>FLAT COATINGS</td><td>50</td></tr><tr><td>NONFLAT COATINGS</td><td>100</td></tr><tr><td>NONFLAT HIGH GLOSS COATINGS</td><td>150</td></tr><tr><td>SPECIALTY COATINGS</td><td></td></tr><tr><td>ALUMINUM ROOF COATINGS</td><td>400</td></tr><tr><td>BASEMENT SPECIALTY COATINGS</td><td>400</td></tr><tr><td>BITUMINOUS ROOF COATINGS</td><td>50</td></tr><tr><td>BITUMINOUS ROOF PRIMERS</td><td>350</td></tr><tr><td>BOND BREAKERS</td><td>350</td></tr><tr><td>CONCRETE CURING COMPOUNDS</td><td>350</td></tr><tr><td>CONCRETE/MASONRY SEALERS</td><td>100</td></tr><tr><td>DRIVEWAY SEALERS</td><td>50</td></tr><tr><td>DRY FOG COATINGS</td><td>150</td></tr><tr><td>FAUX FINISHING COATINGS</td><td>350</td></tr><tr><td>FIRE RESISTIVE COATINGS</td><td>350</td></tr><tr><td>FLOOR COATINGS</td><td>100</td></tr><tr><td>FORM-RELEASE COMPOUNDS</td><td>250</td></tr><tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td>500</td></tr><tr><td>HIGH-TEMPERATURE COATINGS</td><td>420</td></tr><tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td>250</td></tr><tr><td>LOW SOLIDS COATINGS₁</td><td>120</td></tr><tr><td>MAGNESITE CEMENT COATINGS</td><td>450</td></tr><tr><td>MASTIC TEXTURE COATINGS</td><td>100</td></tr><tr><td>METALLIC PIGMENTED COATINGS</td><td>500</td></tr><tr><td>MULTICOLOR COATINGS</td><td>250</td></tr><tr><td>PRETREATMENT WASH PRIMERS</td><td>420</td></tr><tr><td>PRIMERS, SEALERS, & UNDERCOATERS</td><td>100</td></tr><tr><td>REACTIVE PENETRATING SEALERS</td><td>350</td></tr><tr><td>RECYCLED COATINGS</td><td>250</td></tr><tr><td>ROOF COATINGS</td><td>50</td></tr><tr><td>RUST PREVENTATIVE COATINGS</td><td>250</td></tr><tr><td>SHELLACS:</td><td></td></tr><tr><td>CLEAR</td><td>730</td></tr><tr><td>OPAQUE</td><td>550</td></tr><tr><td>SPECIALTY PRIMERS, SEALERS & UNDERCOATERS</td><td>100</td></tr><tr><td>STAINS</td><td>250</td></tr><tr><td>STONE CONSOLIDANTS</td><td>450</td></tr><tr><td>SWIMMING POOL COATINGS</td><td>340</td></tr><tr><td>TRAFFIC MARKING COATINGS</td><td>100</td></tr><tr><td>TUB & TILE REFINISH COATINGS</td><td>420</td></tr><tr><td>WATERPROOFING MEMBRANES</td><td>250</td></tr><tr><td>WOOD COATINGS</td><td>275</td></tr><tr><td>WOOD PRESERVATIVES</td><td>350</td></tr><tr><td>ZINC-RICH PRIMERS</td><td>340</td></tr></tbody></table><div><div>1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS</div><div>2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.</div><div>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.</div></div><div><div>5.504.4.3.2 Verification.</div><div>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:<div><div>1. Manufacturer's product specification</div><div>2. Field verification of on-site product containers</div></div></div></div><div><div>5.504.4.4 Carpet Systems.</div><div>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).</div><div>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material</div><div>5.504.4.4.1 Carpet cushion.</div><div>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).</div><div>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material</div><div>5.504.4.4.2 Carpet adhesive.</div><div>All carpet adhesive shall meet the requirements of Table 5.504.4.1.</div></div></div></div></div>	GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS		COATING CATEGORY	CURRENT VOC LIMIT	FLAT COATINGS	50	NONFLAT COATINGS	100	NONFLAT HIGH GLOSS COATINGS	150	SPECIALTY COATINGS		ALUMINUM ROOF COATINGS	400	BASEMENT SPECIALTY COATINGS	400	BITUMINOUS ROOF COATINGS	50	BITUMINOUS ROOF PRIMERS	350	BOND BREAKERS	350	CONCRETE CURING COMPOUNDS	350	CONCRETE/MASONRY SEALERS	100	DRIVEWAY SEALERS	50	DRY FOG COATINGS	150	FAUX FINISHING COATINGS	350	FIRE RESISTIVE COATINGS	350	FLOOR COATINGS	100	FORM-RELEASE COMPOUNDS	250	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	HIGH-TEMPERATURE COATINGS	420	INDUSTRIAL MAINTENANCE COATINGS	250	LOW SOLIDS COATINGS ₁	120	MAGNESITE CEMENT COATINGS	450	MASTIC TEXTURE COATINGS	100	METALLIC PIGMENTED COATINGS	500	MULTICOLOR COATINGS	250	PRETREATMENT WASH PRIMERS	420	PRIMERS, SEALERS, & UNDERCOATERS	100	REACTIVE PENETRATING SEALERS	350	RECYCLED COATINGS	250	ROOF COATINGS	50	RUST PREVENTATIVE COATINGS	250	SHELLACS:		CLEAR	730	OPAQUE	550	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	STAINS	250	STONE CONSOLIDANTS	450	SWIMMING POOL COATINGS	340	TRAFFIC MARKING COATINGS	100	TUB & TILE REFINISH COATINGS	420	WATERPROOFING MEMBRANES	250	WOOD COATINGS	275	WOOD PRESERVATIVES	350	ZINC-RICH PRIMERS	340	<div><div><div><div><div><div></div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div><div><div><div>5.504.4.5 Composite wood products.</div><div>Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.</div></div><div><div><div>5.504.4.5.3 Documentation.</div><div>Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:<div><div>1. Product certifications and specifications.</div><div>2. Chain of custody certifications.</div><div>3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).</div><div>4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.</div><div>5. Other methods acceptable to the enforcing agency.</div></div></div></div></div><div><div>TABLE 5.504.4.5 - FORMALDEHYDE LIMITS:</div><table><thead><tr><th colspan="2">MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION</th></tr><tr><th>PRODUCT</th><th>CURRENT LIMIT</th></tr></thead><tbody><tr><td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr><tr><td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr><tr><td>PARTICLE BOARD</td><td>0.09</td></tr><tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr><tr><td>THIN MEDIUM DENSITY FIBERBOARD:</td><td>0.13</td></tr></tbody></table><div><div>1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.</div><div>2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).</div></div><div><div>5.504.4.6 Resilient flooring systems.</div><div>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)</div><div>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material</div><div>5.504.4.6.1 Verification of compliance.</div><div>Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.</div></div><div><div>5.504.4.7 Thermal insulation</div><div>Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</div><div>See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx#material</div><div>5.504.4.7.1 Verification of compliance.</div><div>Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.</div></div><div><div>5.504.4.8 Acoustical ceiling and wall panels.</div><div>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).</div><div>See California Department of Public Health's website for certification programs and testing labs.</div><div>5.504.4.8.1 Verification of compliance.</div><div>Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.</div></div><div><div>5.504.5.3 Filters.</div><div>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.</div><div>Exceptions: Existing mechanical equipment.</div><div>5.504.5.3.1 Labeling.</div><div>Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.</div></div><div><div>5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.</div><div>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.</div></div><div><div>SECTION 5.505 INDOOR MOISTURE CONTROL.</div><div>5.505.1 INDOOR MOISTURE CONTROL.</div><div>Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.</div></div><div><div>SECTION 5.506 INDOOR AIR QUALITY</div><div>5.506.1 OUTSIDE AIR DELIVERY.</div><div>For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.</div><div>5.506.2 CARBON DIOXIDE (CO₂) MONITORING.</div><div>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).</div><div>5.506.3 Carbon dioxide (CO₂) monitoring in classrooms.</div><div>(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:<div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div></div></div></div></div></div></div></div></div>	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION		PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD:	0.13	<div><div><div><div><div><div></div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div><div><div><div>SECTION 5.507 ENVIRONMENTAL COMFORT</div><div>5.507.4 ACOUSTICAL CONTROL.</div><div>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.</div></div><div><div><div>Exception:</div><div>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.</div></div><div><div><div>Exception: [DSA-SS]</div><div>For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.</div></div></div><div><div>5.507.4.1 Exterior noise transmission, prescriptive method.</div><div>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:<div><div>1. Within the 65 CNEL noise contour of an airport.</div></div></div><div><div>Exceptions:</div><div><div>1. L_n or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.</div><div>2. L_n or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.</div></div><div><div>5.507.4.1.1 Noise exposure where noise contours are not readily available.</div><div>Buildings exposed to a noise level of 65 dB L_{dn} - 1-hr 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).</div></div><div><div>5.507.4.2 Performance Method.</div><div>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.</div></div><div><div>5.507.4.2.1 Site Features.</div><div>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.</div></div><div><div>5.507.4.2.2 Documentation of Compliance.</div><div>An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</div></div><div><div>5.507.4.3 Interior sound transmission.</div><div>Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.</div><div>Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_ccc_ratings.pdf.</div></div><div><div>SECTION 5.508 OUTDOOR AIR QUALITY</div><div>5.508.1 Ozone depletion and greenhouse gas reductions.</div><div>Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</div><div>5.508.1.1 Chlorofluorocarbons (CFCs).</div><div>Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.</div><div>5.508.1.2 Halons.</div><div>Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.</div><div>5.508.2 Supermarket refrigerant leak reduction.</div><div>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.</div><div>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.</div><div>5.508.2.1 Refrigerant piping.</div><div>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.</div><div>5.508.2.1.1 Threaded pipe.</div><div>Threaded connections are permitted at the compressor rack.</div><div>5.508.2.1.2 Copper pipe.</div><div>Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.</div><div>5.508.2.1.2.1 Anchorage.</div><div>One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.</div><div>5.508.2.1.3 Flared tubing connections.</div><div>Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.</div><div>Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.</div><div>5.508.2.1.4 Elbows.</div><div>Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.</div><div>5.508.2.2 Valves.</div><div>Valves and fittings shall comply with the California Mechanical Code and as follows.</div><div>5.508.2.2.1 Pressure relief valves.</div><div>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.</div><div>5.508.2.2.1.1 Pressure detection.</div><div>A pressure gauge, pressure transducer or other device shall be installed between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.</div><div>5.508.2.2.2 Access valves.</div><div>Only Schrader access valves with a brass or steel body are permitted for use.</div><div>5.508.2.2.2.1 Valve caps.</div><div>For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.</div><div>5.508.2.2.2.2 Seal caps.</div><div>If designed for it, the cap shall have a neoprene O-ring in place.</div><div>5.508.2.2.2.2.1 Chain tethers.</div><div>Chain tethers to fit over the stem are required for valves designed to have seal caps.</div><div>Exception: Valves with seal caps that are not removed from the valve during stem operation.</div><div>5.508.2.3 Refrigerated service cases.</div><div>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.</div><div>5.508.2.3.1 Coil coating.</div><div>Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.</div><div>5.508.2.4 Refrigerant receivers.</div><div>Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.</div><div>5.508.2.5 Pressure testing.</div><div>The system shall be pressure tested during installation prior to evacuation and charging.</div><div>5.508.2.5.1 Minimum pressure.</div><div>The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.</div><div>5.508.2.5.2 Leaks.</div><div>Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.</div><div>5.508.2.5.3 Allowable pressure change.</div><div>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.</div></div></div></div></div></div></div></div></div>	<div><div><div><div><div><div></div><div>Y</div><div>N/A</div><div>RESPON. PARTY</div></div></div><div><div><div>5.508.2.6 Evacuation.</div><div>The system shall be evacuated after pressure testing and prior to charging.</div></div><div><div><div>5.508.2.6.1 First vacuum.</div><div>Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.</div></div><div><div><div>5.508.2.6.2 Second vacuum.</div><div>Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.</div></div><div><div><div>5.508.2.6.3 Third vacuum.</div><div>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.</div></div></div></div></div><div><div>CHAPTER 7</div><div>INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS</div><div>702 QUALIFICATIONS</div><div>702.1 INSTALLER TRAINING.</div><div>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:<div><div>1. State certified apprenticeship programs.</div><div>2. Public utility training programs.</div><div>3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</div><div>4. Programs sponsored by manufacturing organizations.</div><div>5. Other programs acceptable to the enforcing agency.</div></div></div><div><div>702.2 SPECIAL INSPECTION [HCD].</div><div>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:<div><div>1. Certification by a national or regional green building program or standard publisher.</div><div>2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.</div><div>3. Successful completion of a third party apprentice training program in the appropriate trade.</div><div>4. Other programs acceptable to the enforcing agency.</div></div></div><div><div>Notes:</div><div><div>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.</div><div>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).</div></div></div><div><div>[BSC-CG]</div><div>When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.</div><div>Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</div></div><div><div>703 VERIFICATIONS</div><div>703.1 DOCUMENTATION.</div><div>Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.</div></div></div></div></div></div></div></div>
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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.

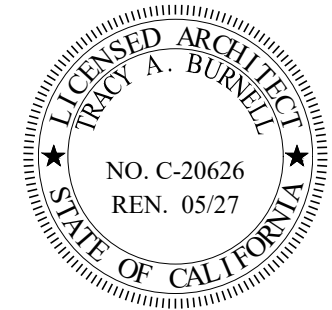


ARCHITECTURE

924 anacapa st
santa barbara, ca
93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Stoke Rd
Goleta, CA 93117



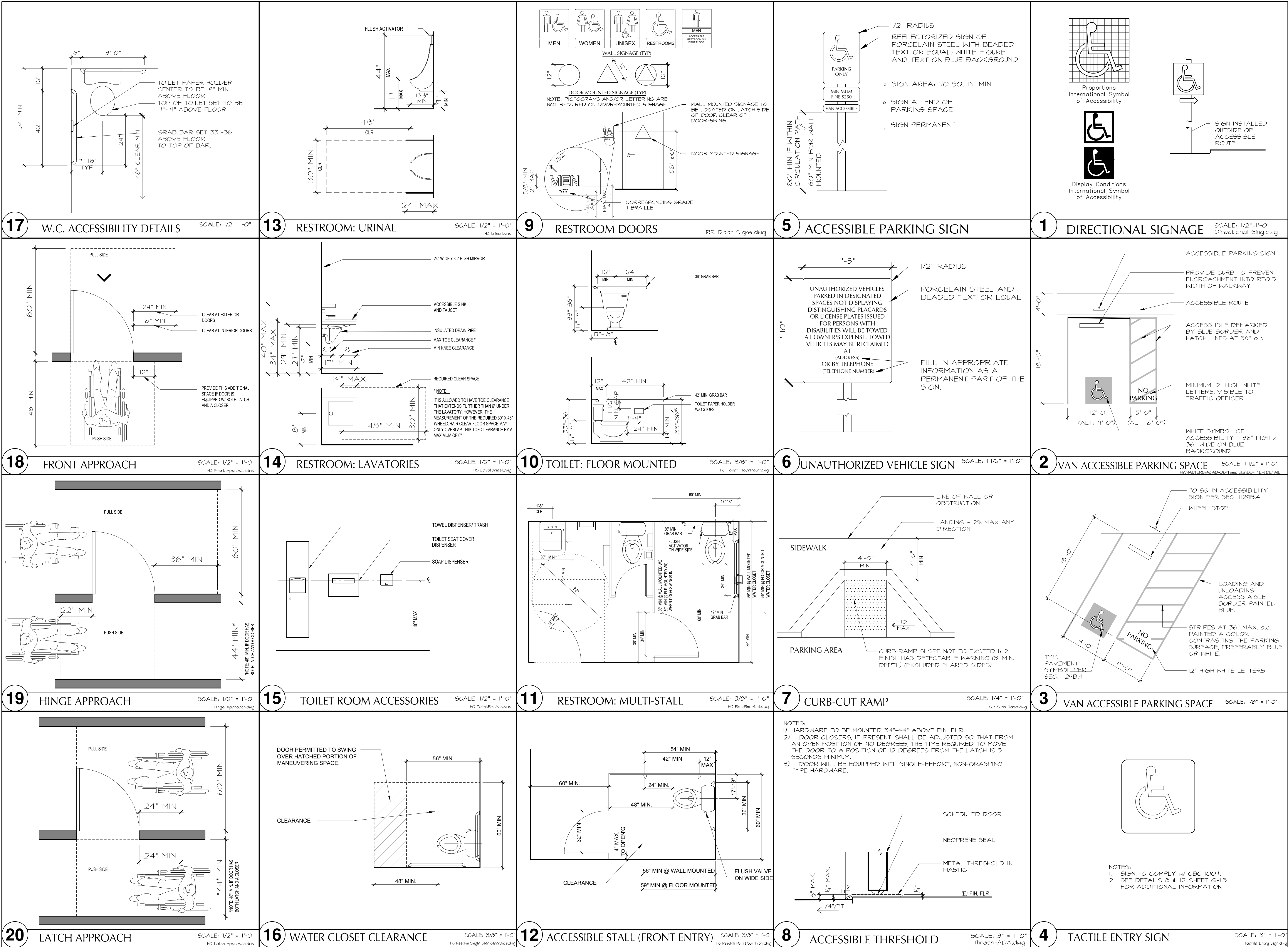
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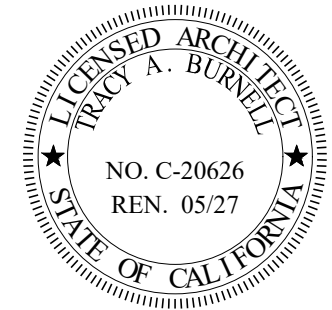


ARCHITECTURE

924 anacapa st
santa barbara, ca
93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

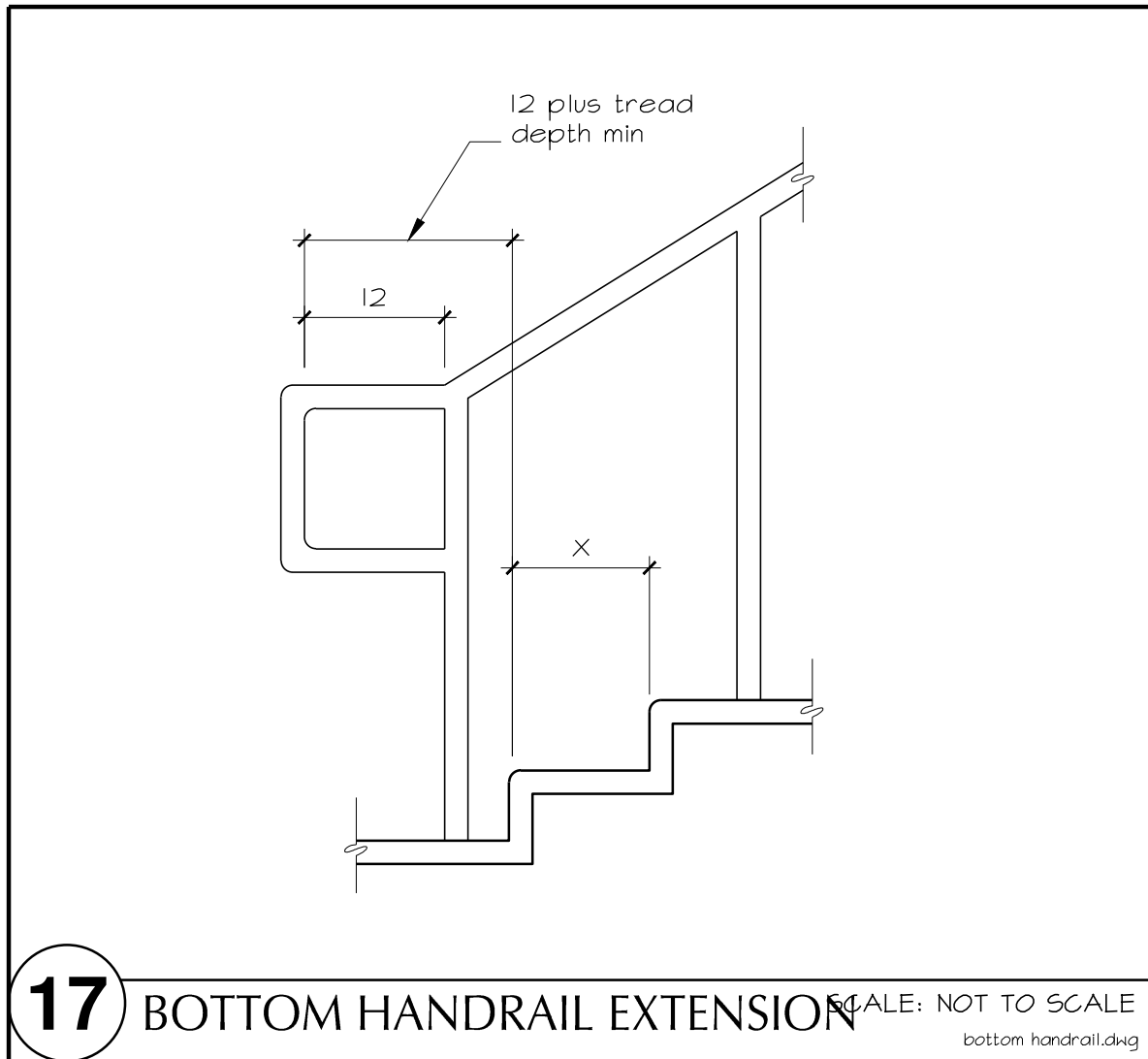
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250 & 270 Storke Rd
Goleta, CA 93117



sheet description
ACCESSIBILITY
DETAILS

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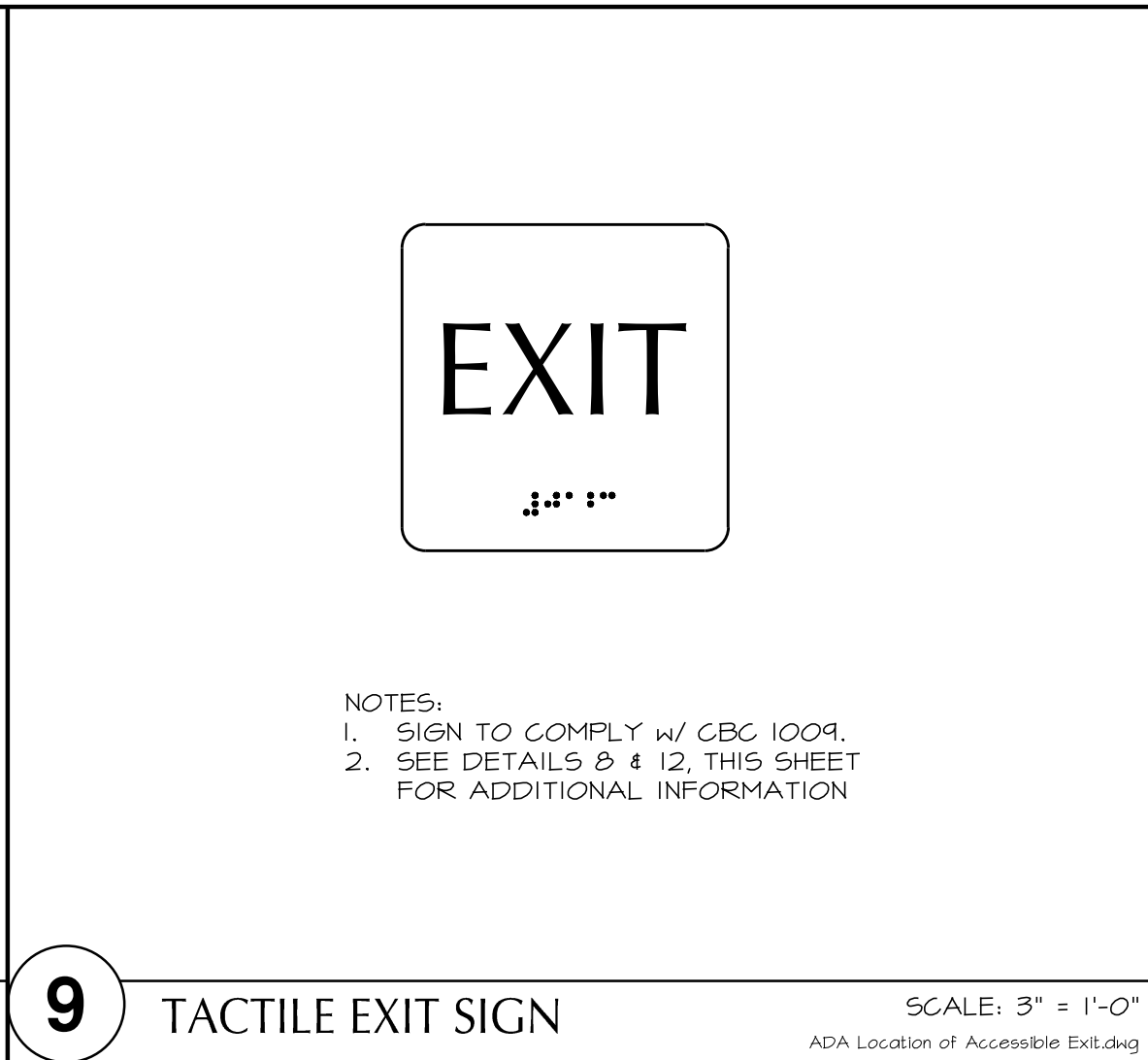
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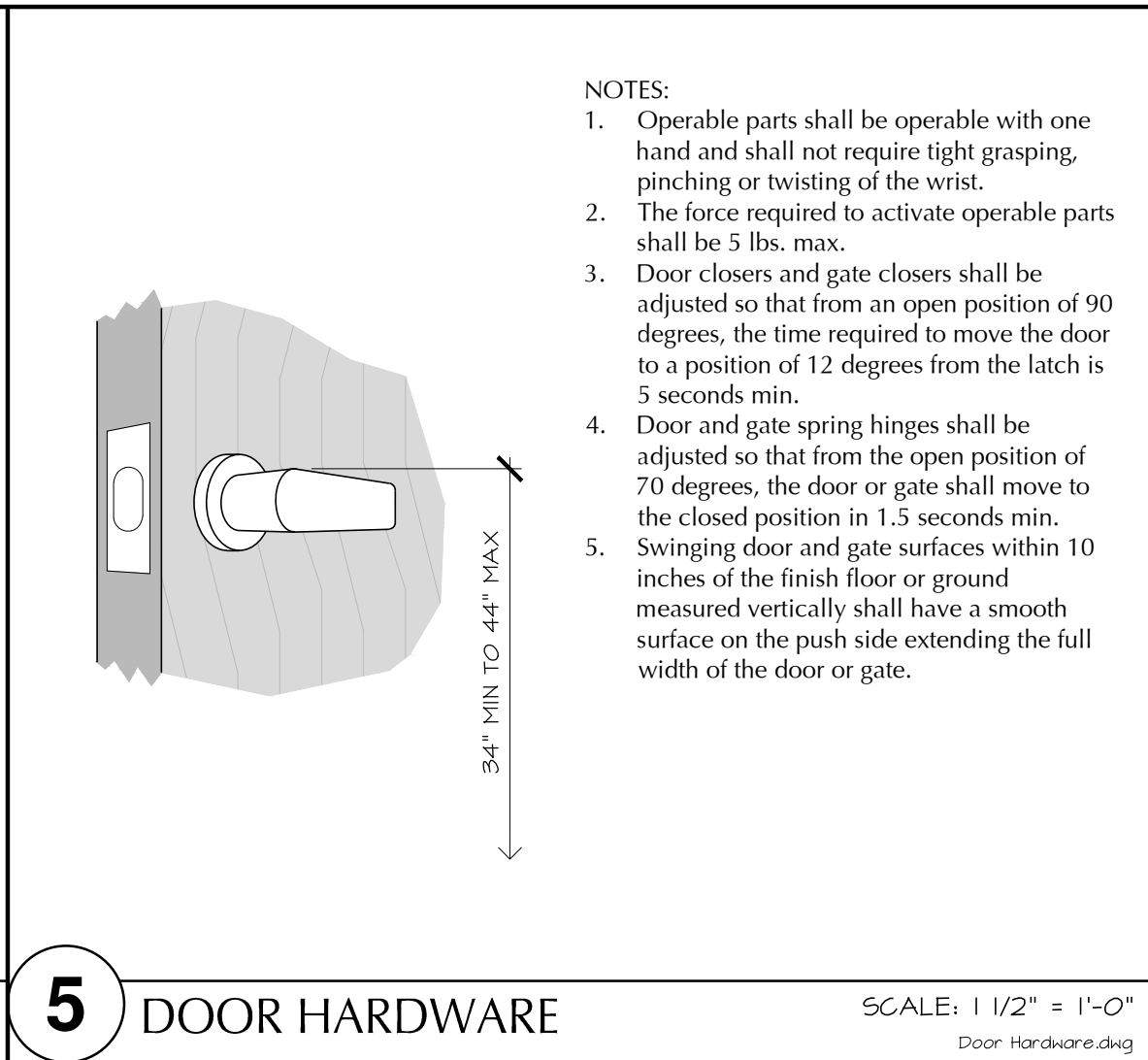
17 BOTTOM HANDRAIL EXTENSION SCALE: NOT TO SCALE
bottom handrail.dwg



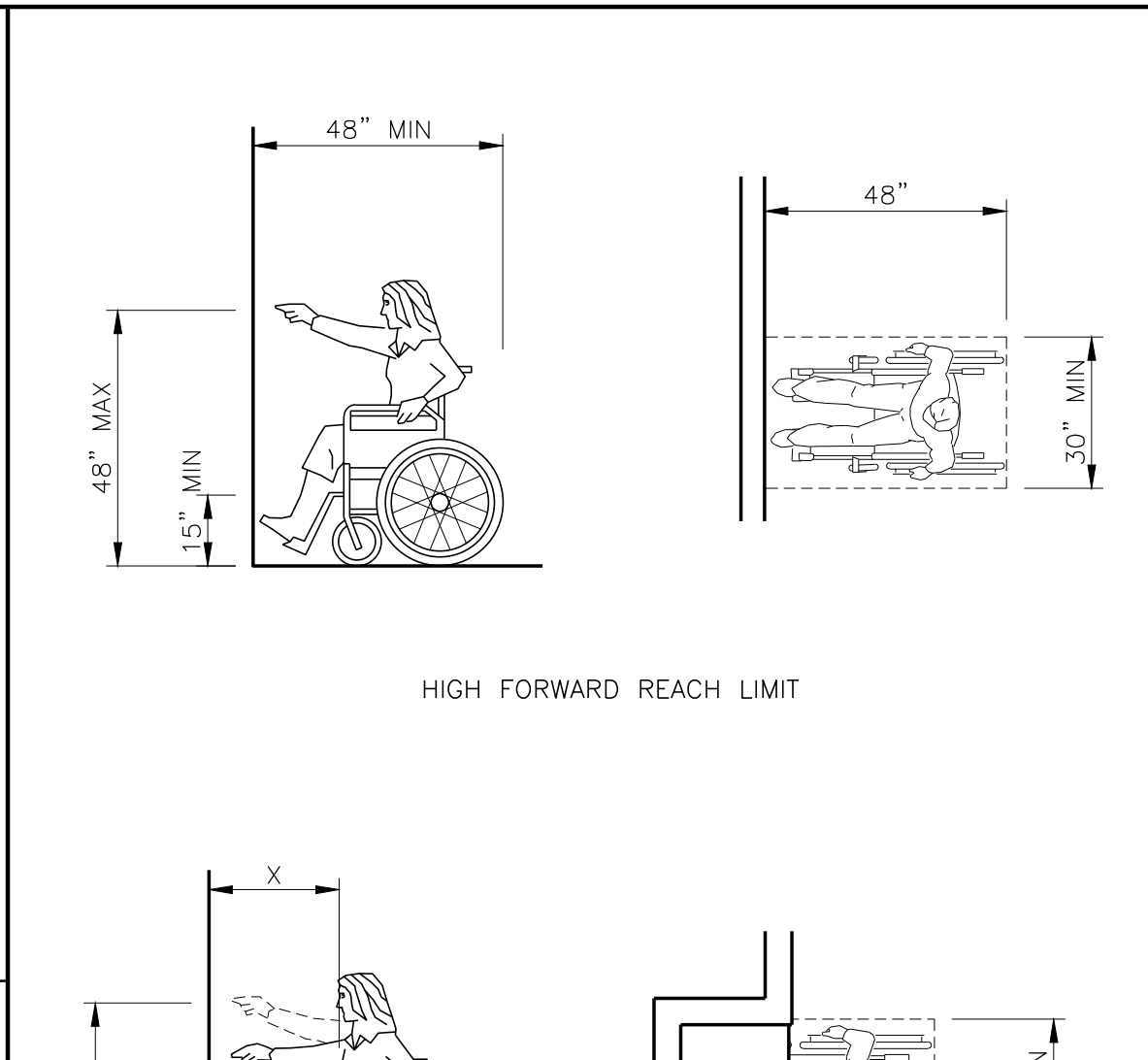
13 LOCATION OF ACCESSIBLE EXIT SCALE: 3" = 1'-0"
ADA Location of Accessible Exit.dwg



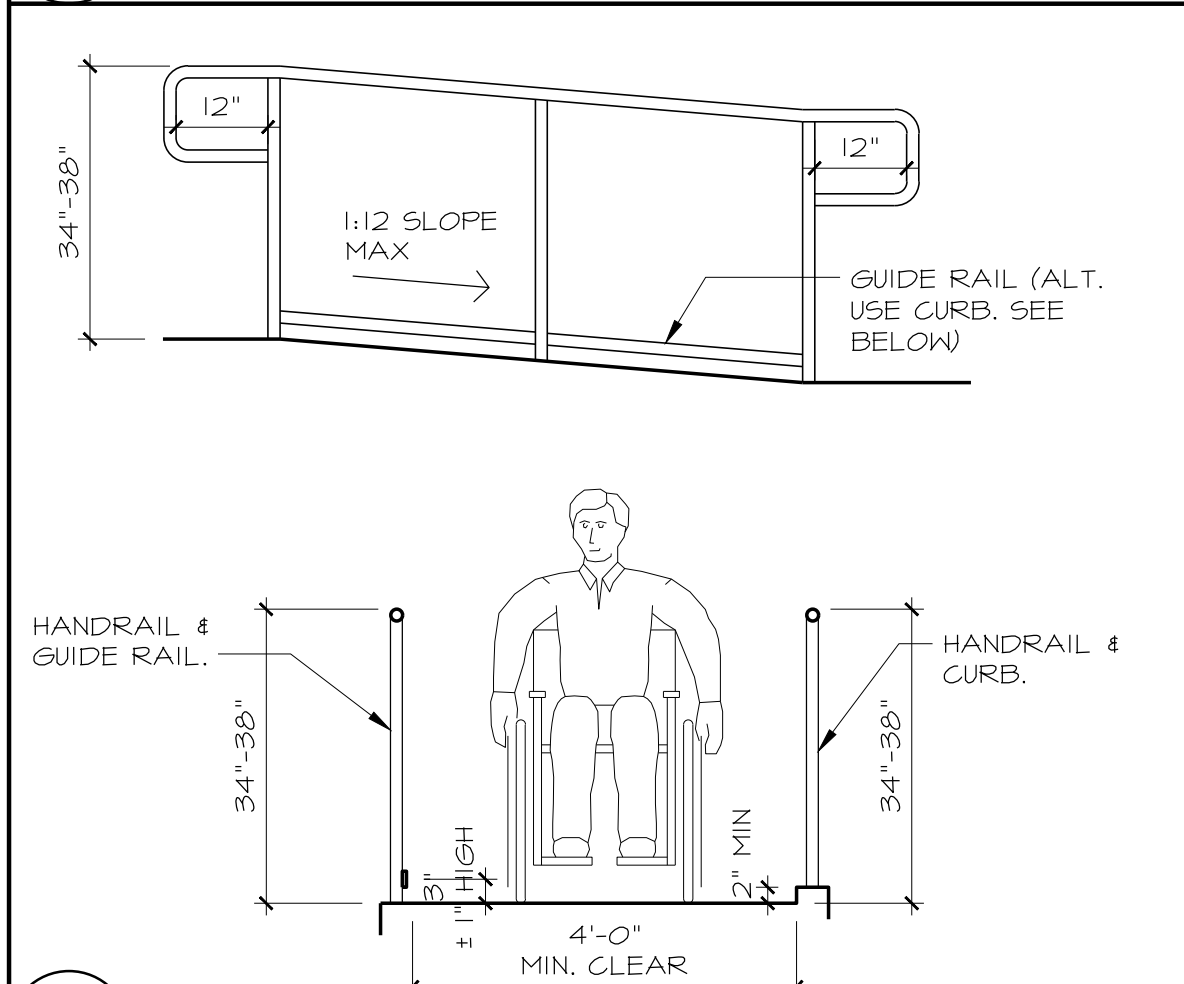
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ADA Exit Sign.dwg



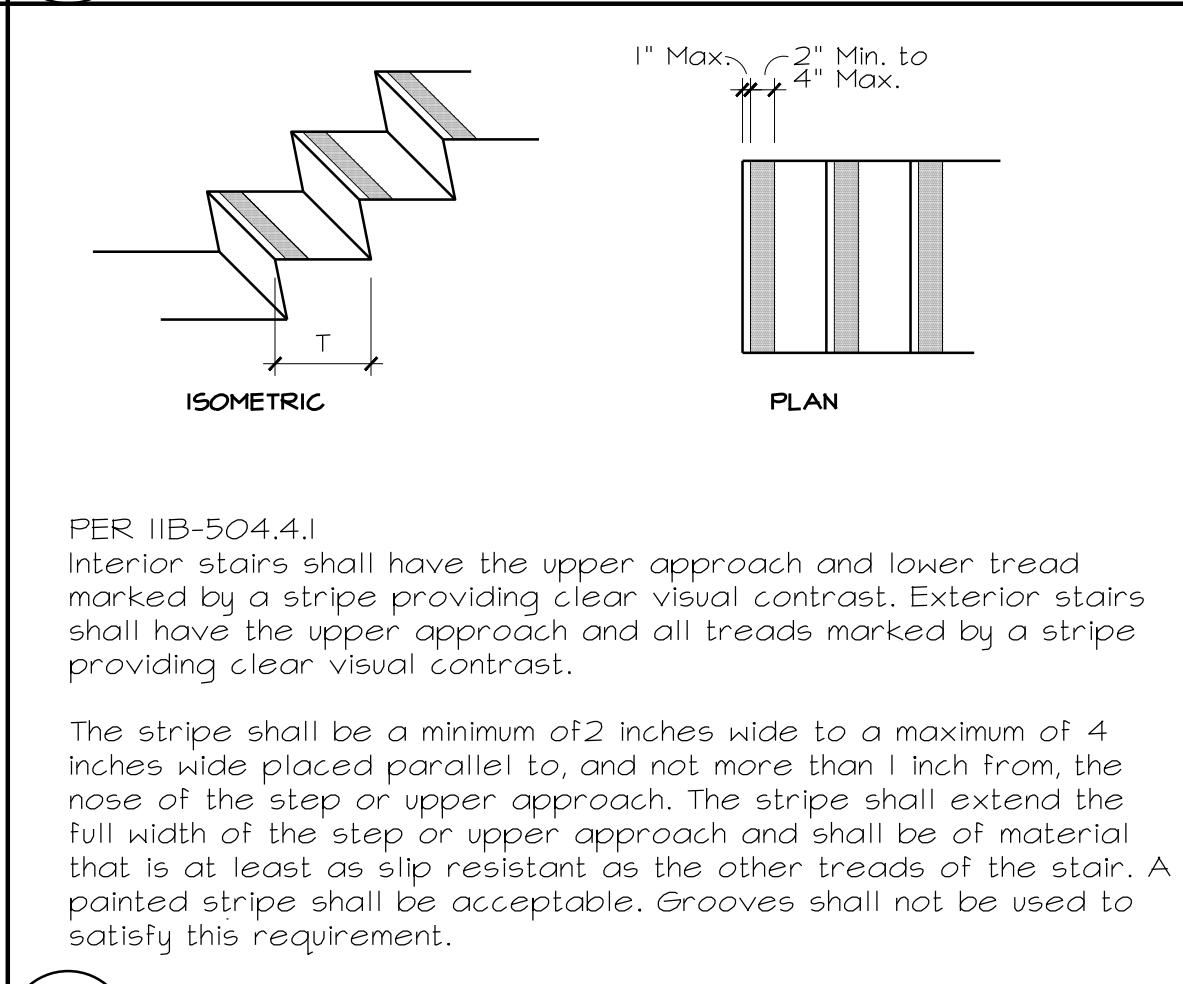
5 DOOR HARDWARE SCALE: 1 1/2" = 1'-0"
Door Hardware.dwg



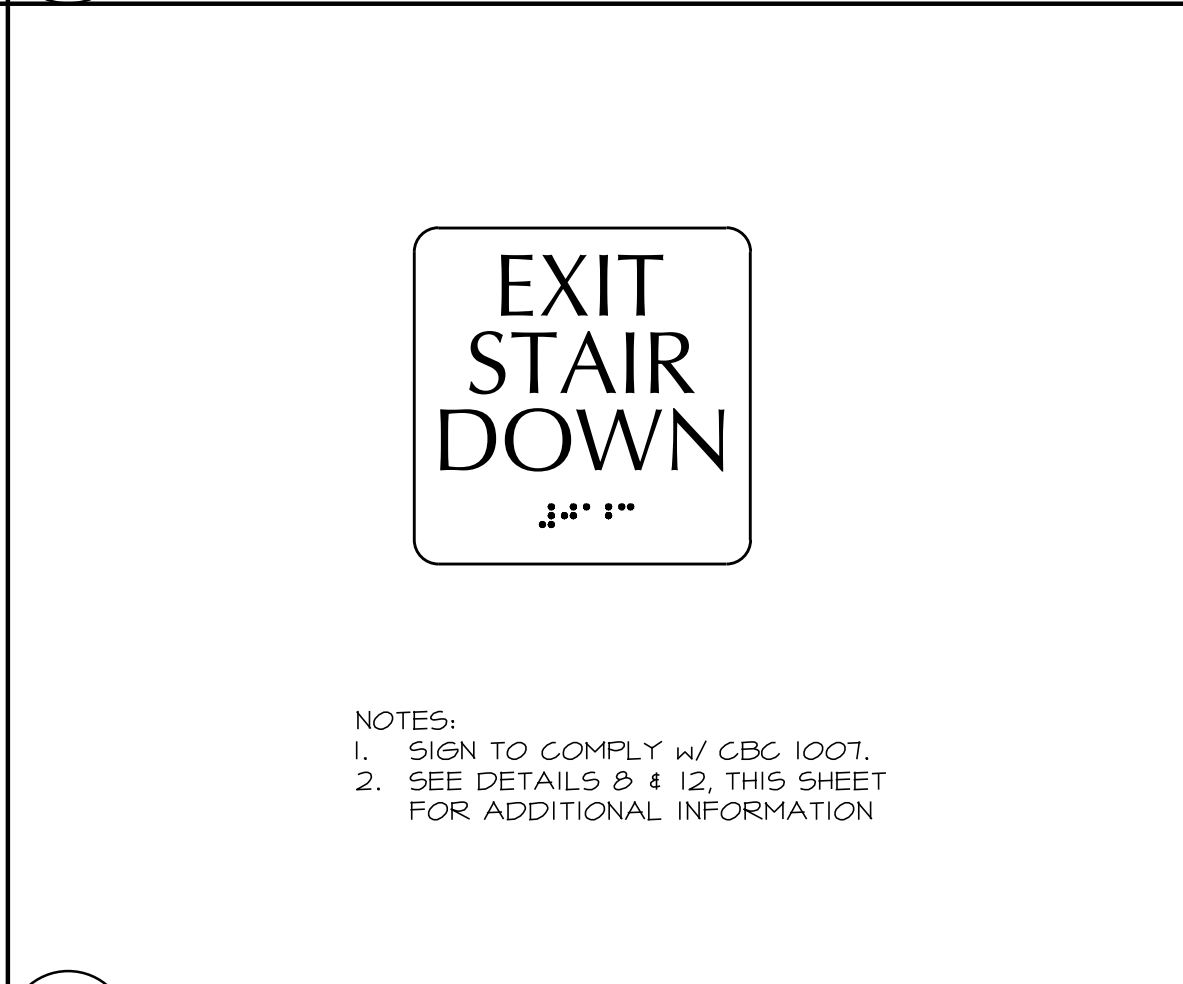
2 FORWARD REACH NOT TO SCALE
FORWARD REACH.dwg



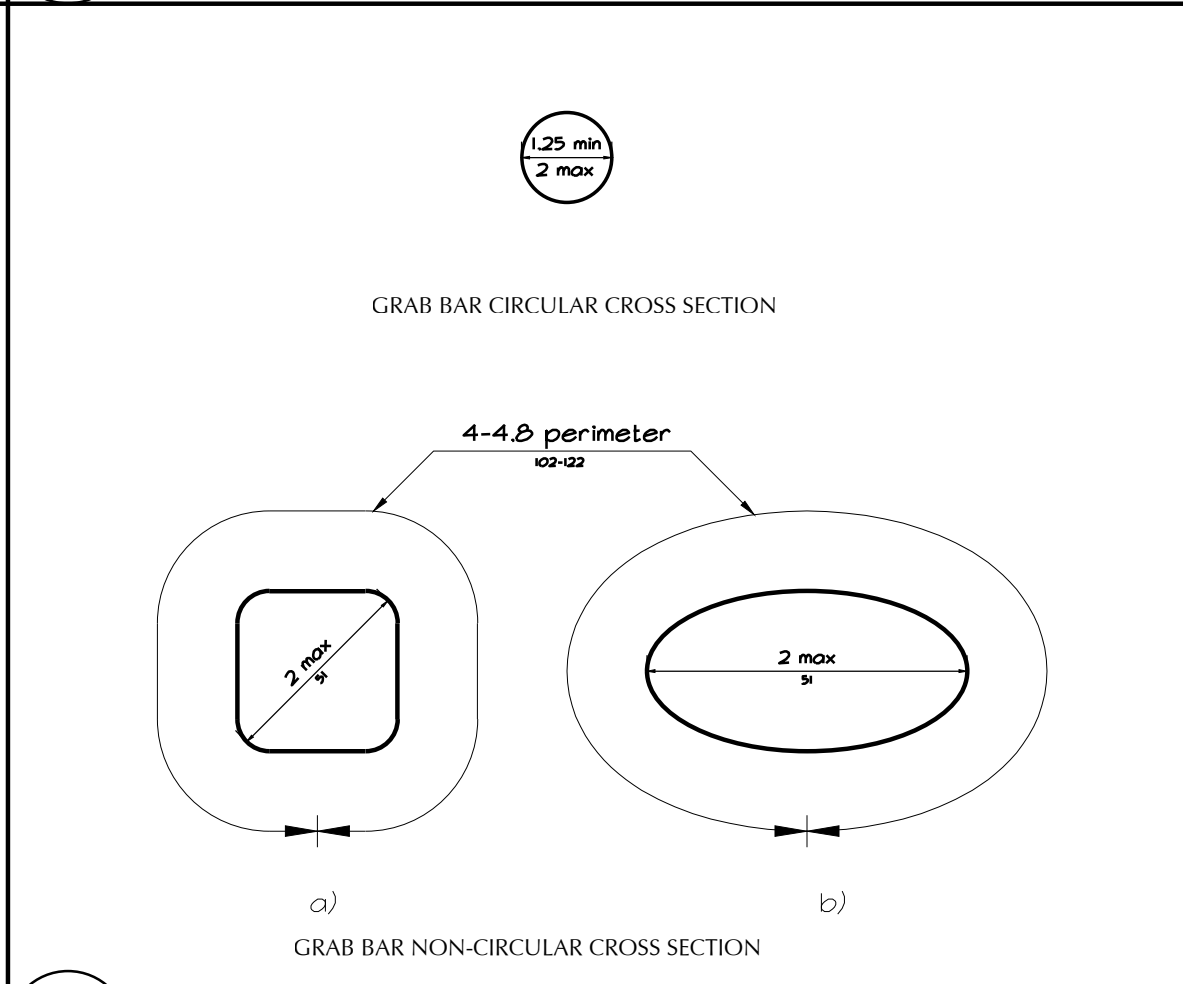
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Ramp Rolling.dwg



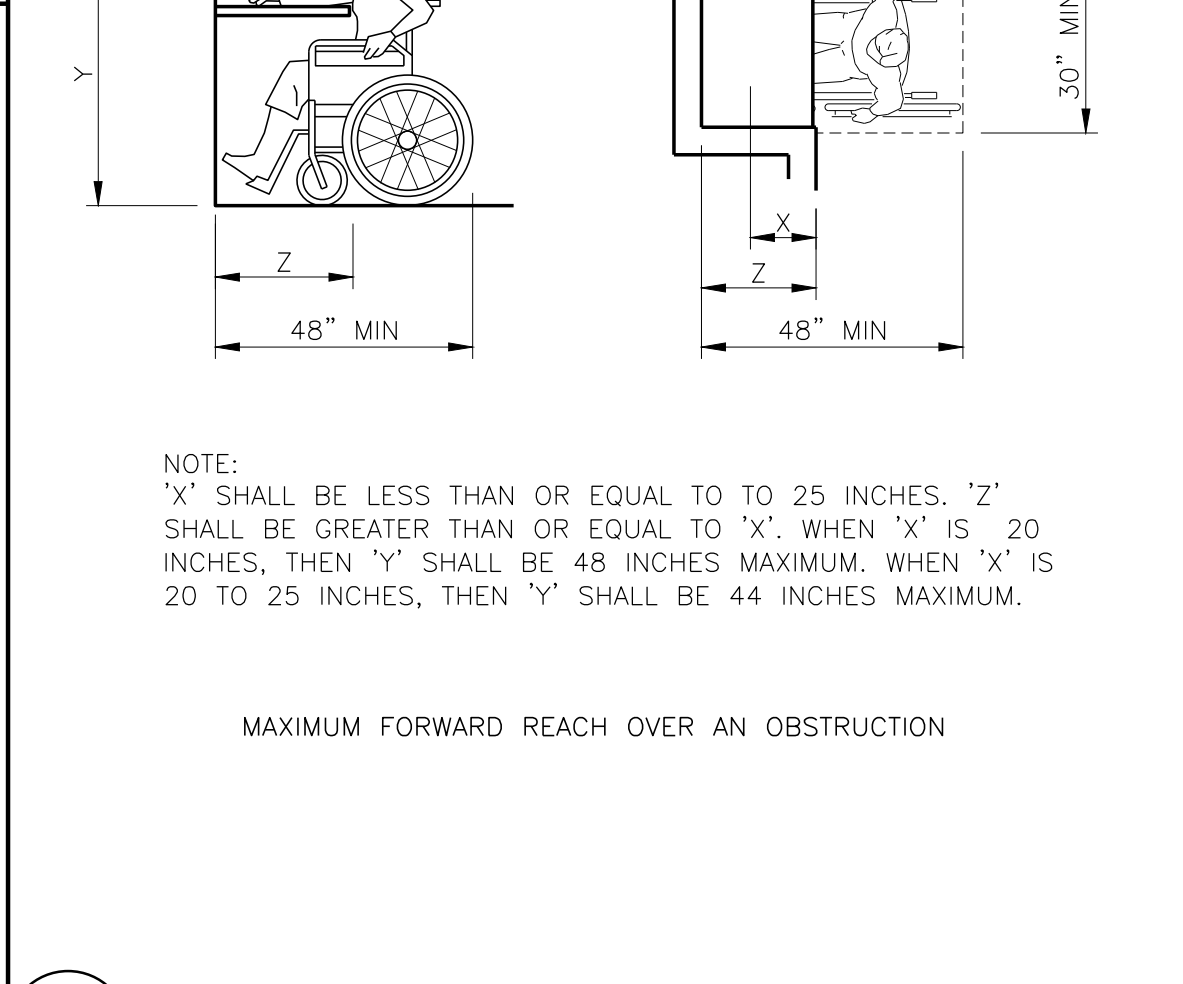
14 STAIR STRIPING SCALE: 1/2" = 1'-0"
ADA Stair Treads.dwg



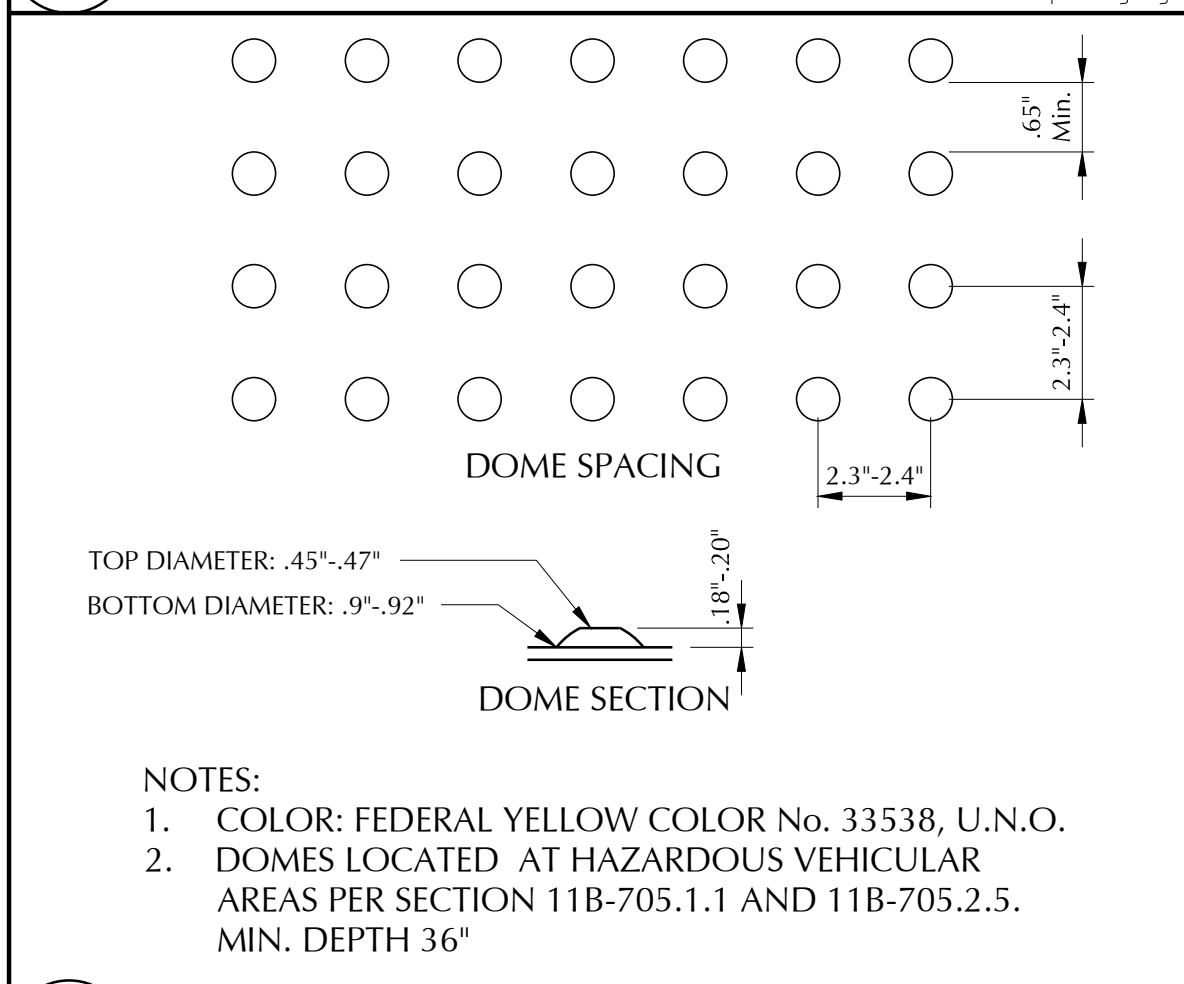
10 TACTILE EXIT SIGN (STAIR DOWN) SCALE: 3" = 1'-0"
ADA Exit Sign Down.dwg



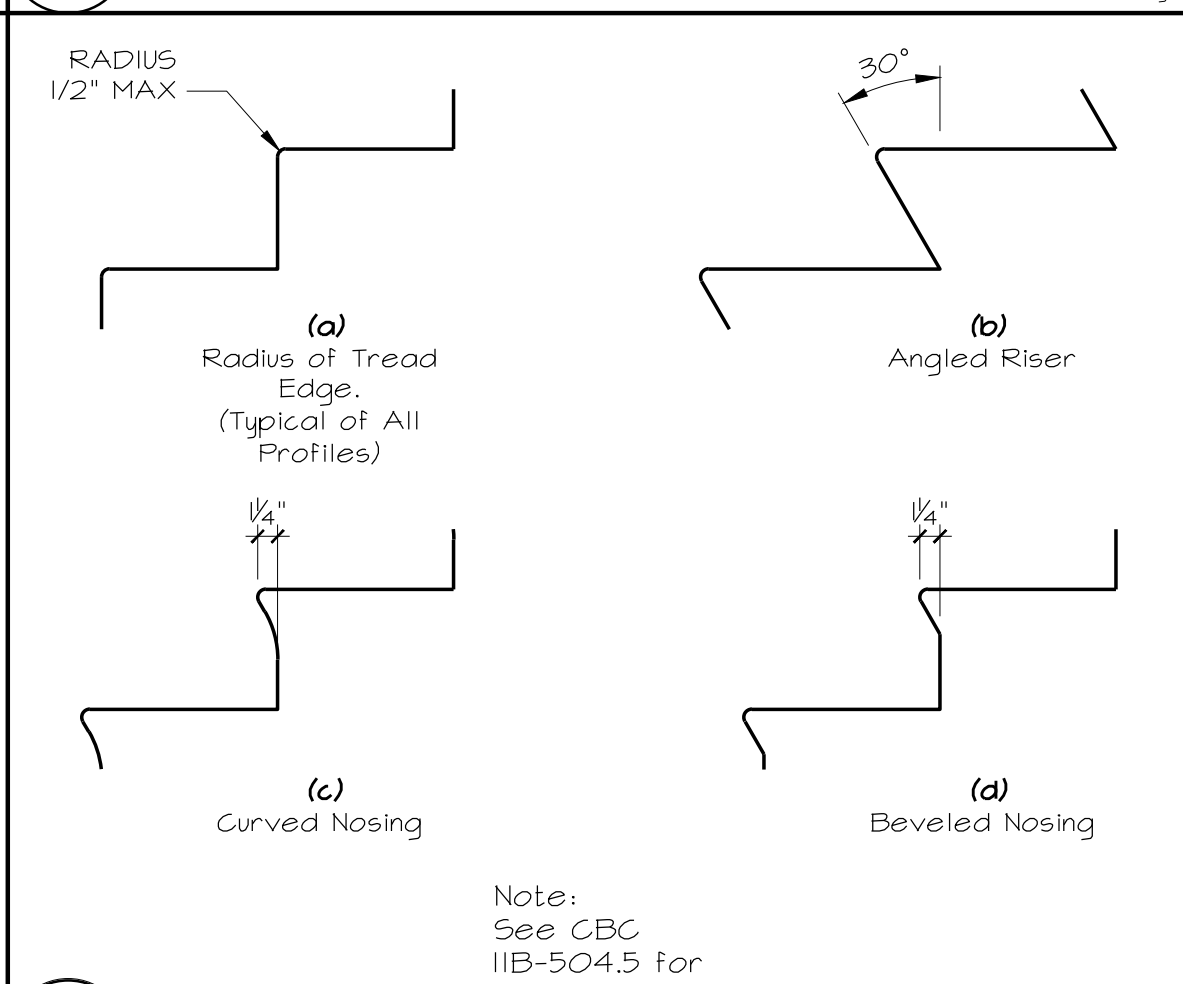
6 GRAB BAR CROSS SECTION SCALE: NOT TO SCALE
v_Grab_Bars.dwg



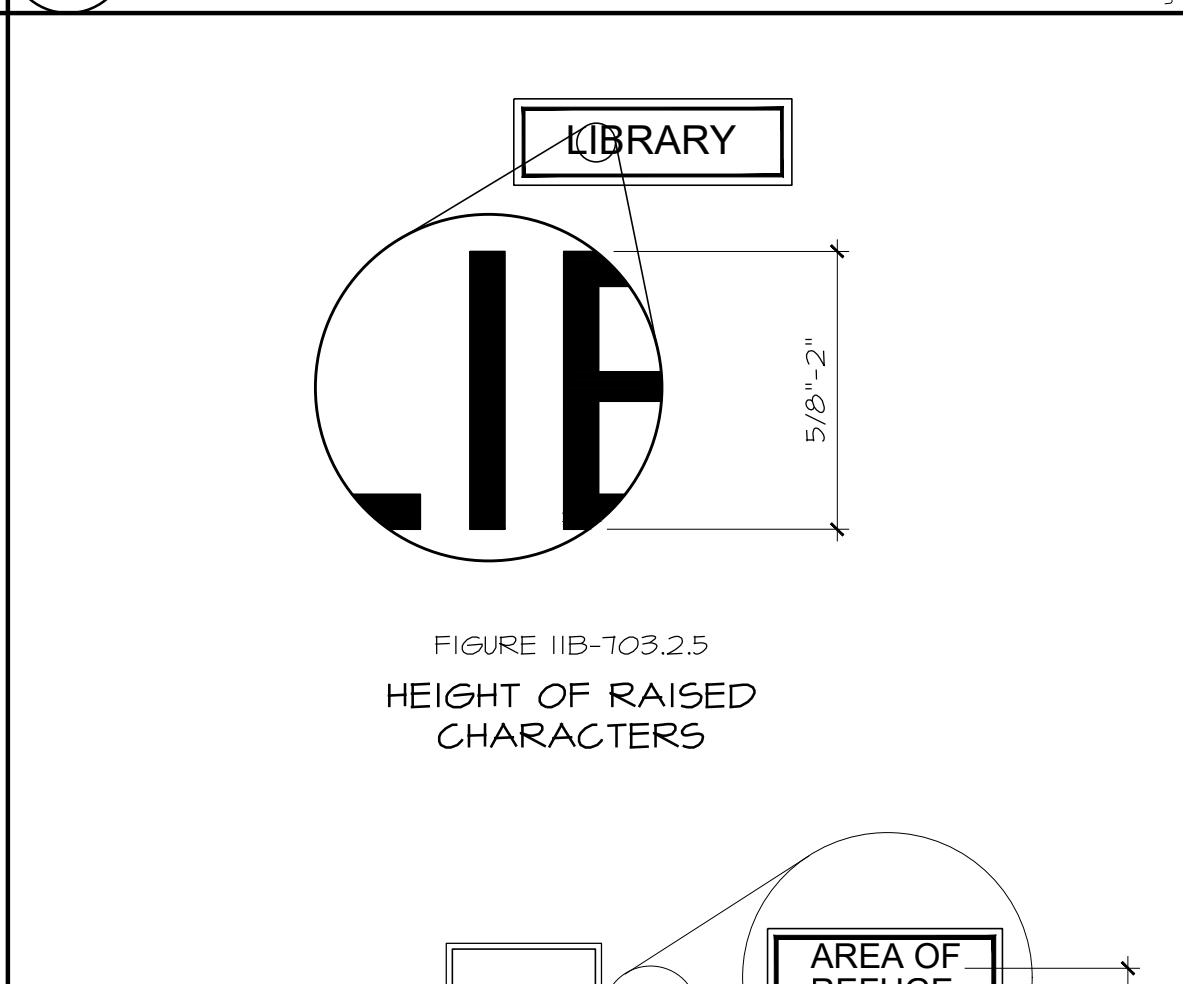
2 FORWARD REACH NOT TO SCALE
FORWARD REACH.dwg



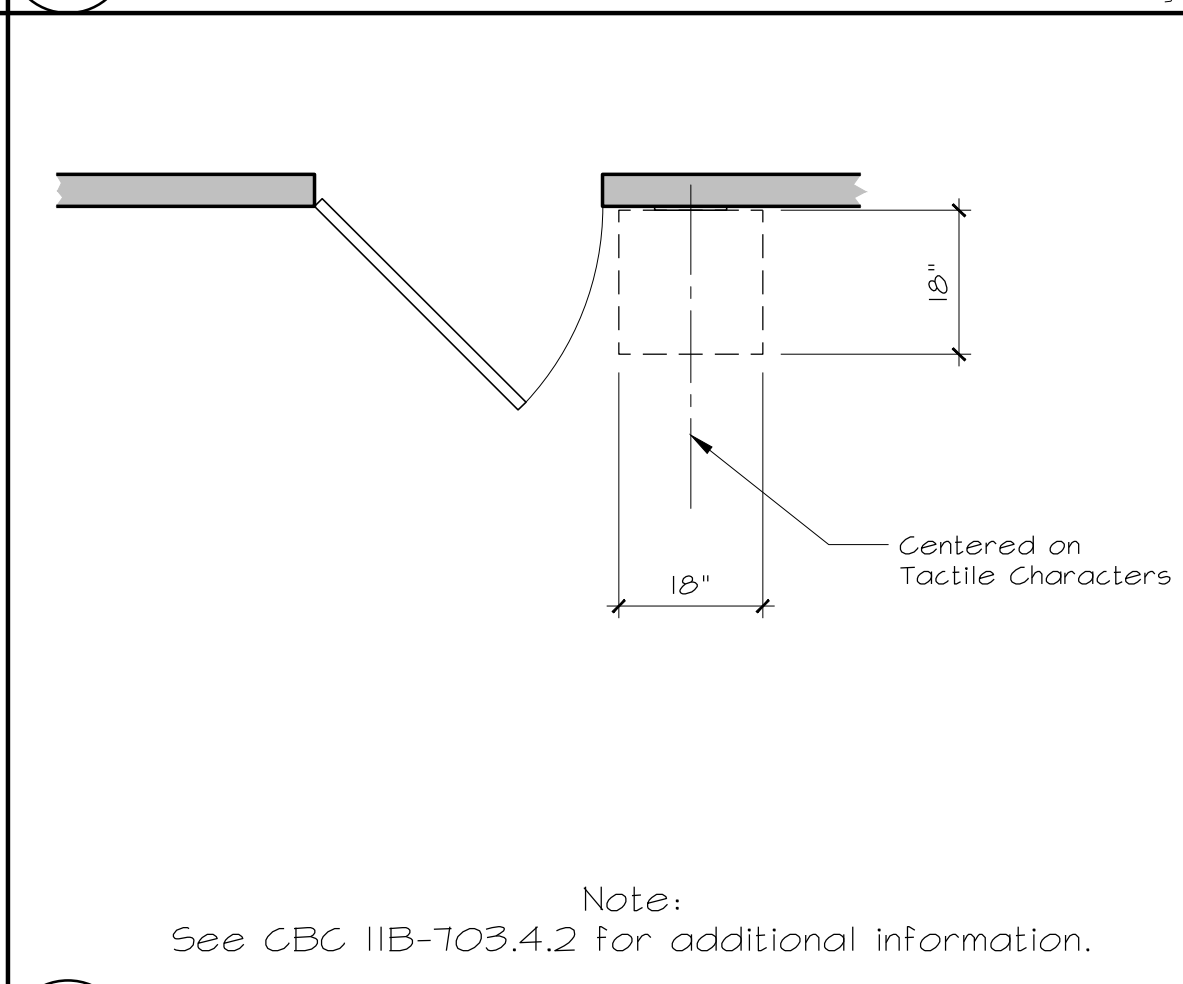
19 DETECTABLE WARNING SCALE: 3" = 1'-0"
Detectable Warning.dwg



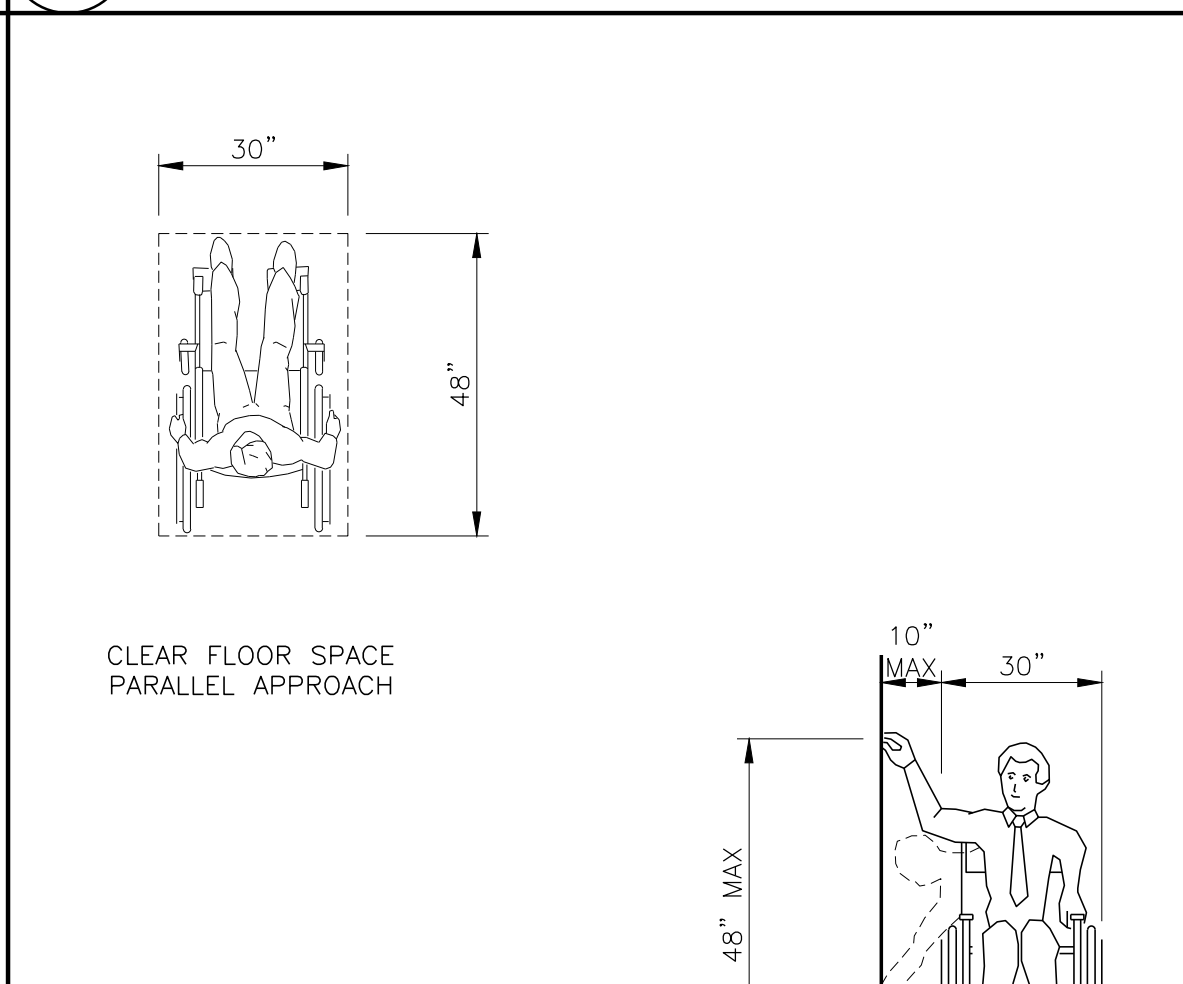
15 STAIR NOSINGS SCALE: 1" = 1'-0"
ADA Stair Nosings.dwg



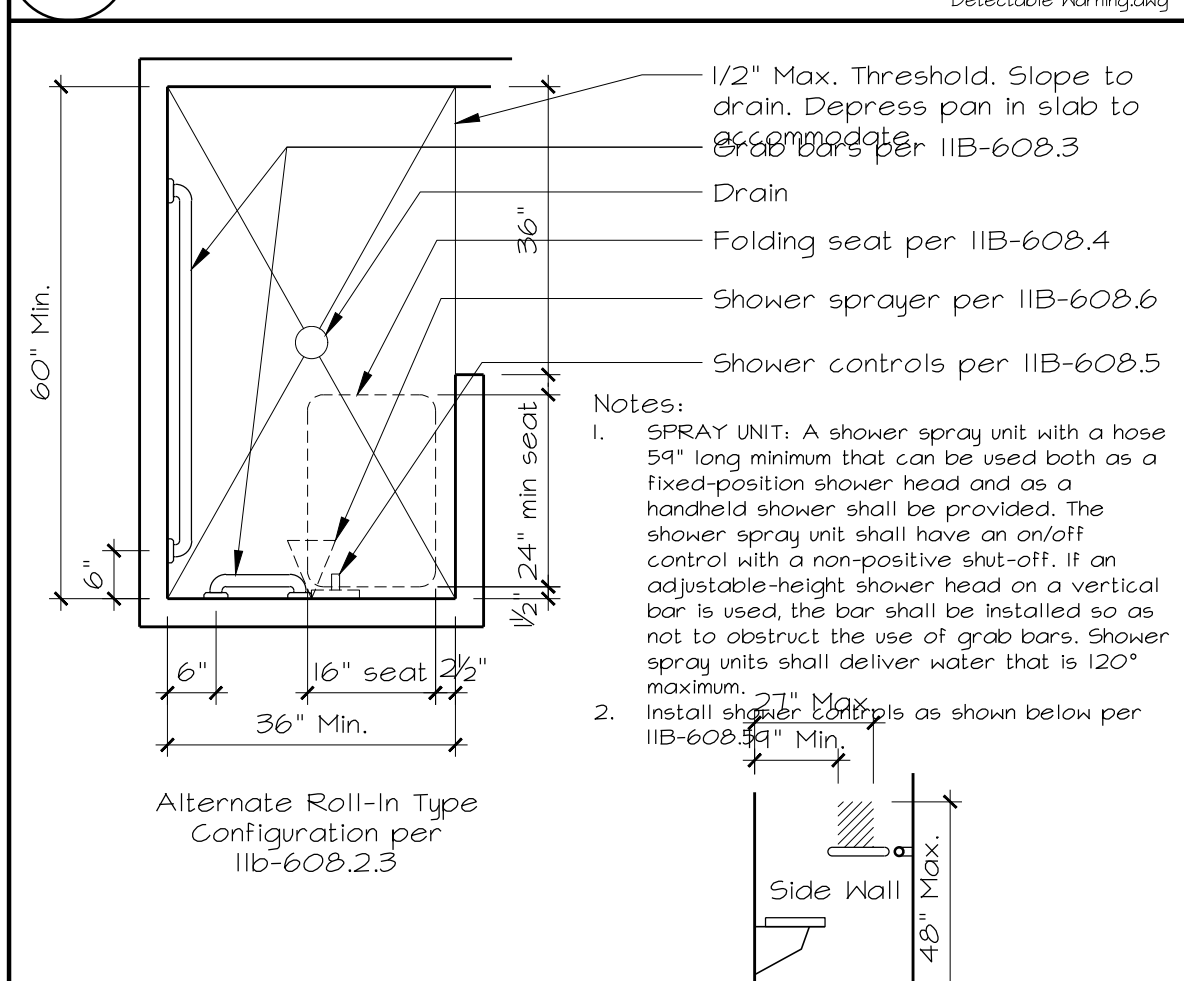
12 SIGNAGE: TACTILE CHARACTERS SCALE: 3" = 1'-0"
ADA Tactile Characters.dwg



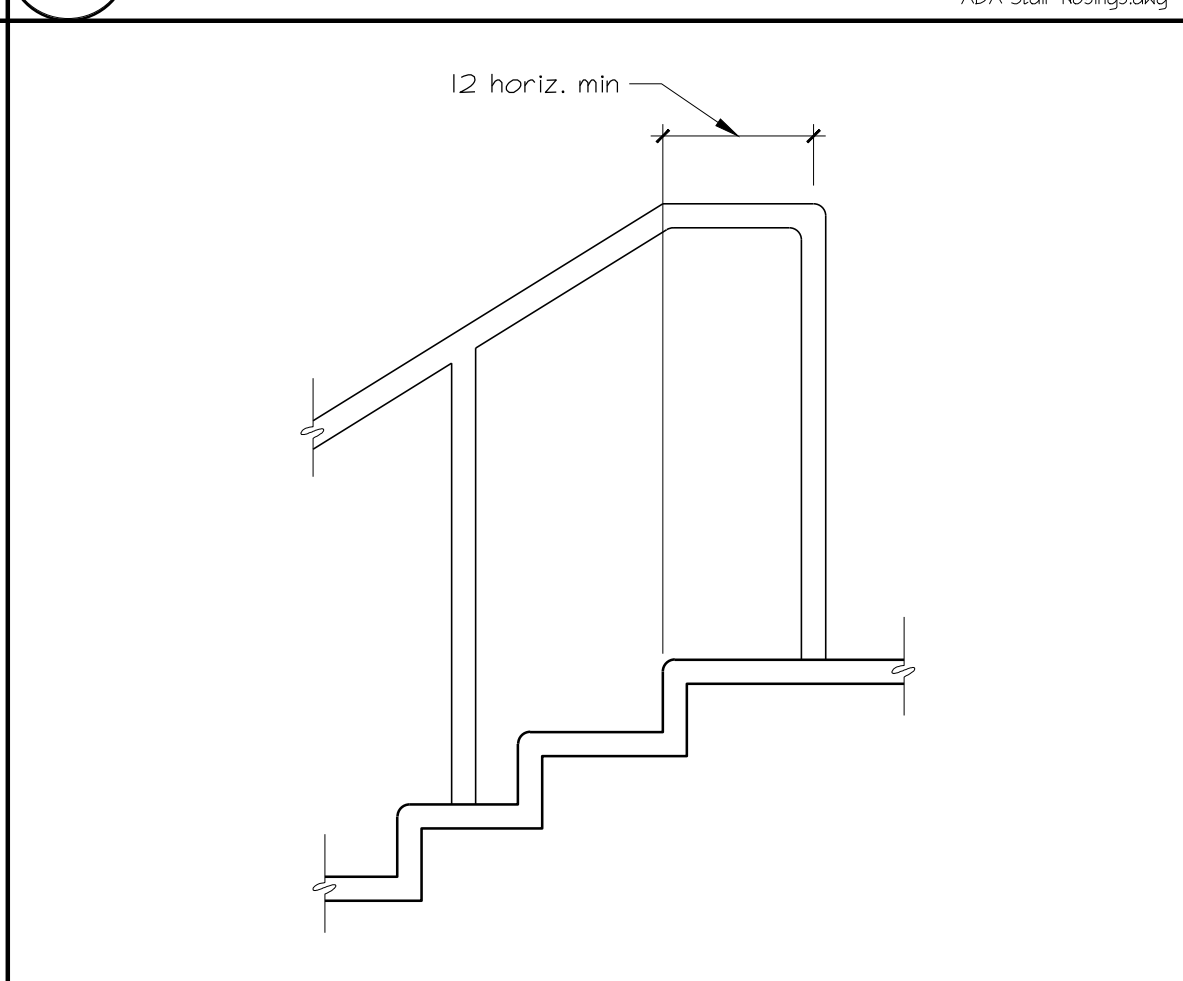
7 TACTILE SIGN LOCATION SCALE: 1/2" = 1'-0"
ADA Tactile Sign Location.dwg



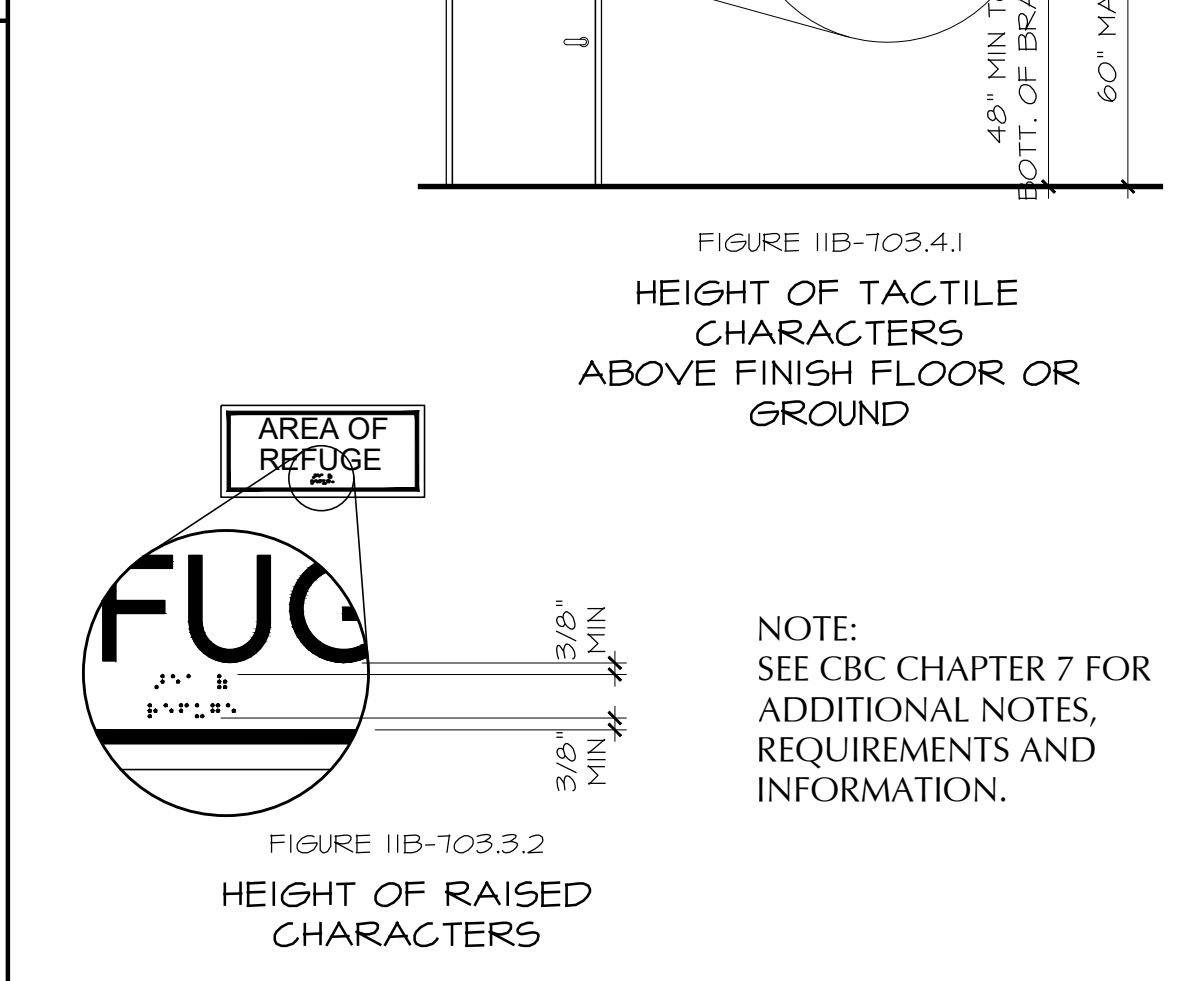
4 SIDE REACH NOT TO SCALE
SIDE REACH.dwg



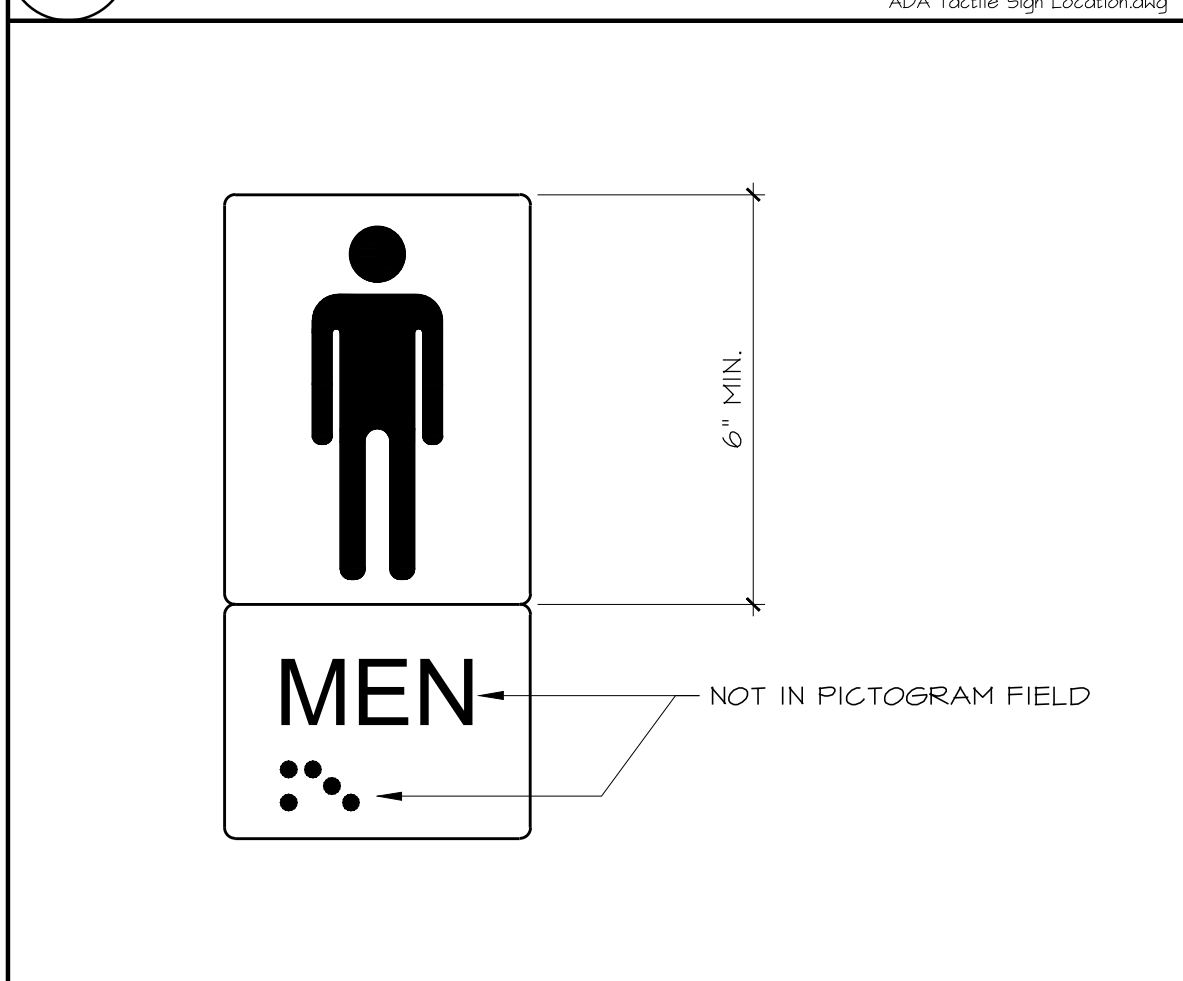
20 ALTERNATE ACCESSIBLE SHOWER SCALE: 1/2" = 1'-0"
DETAIL NAME.dwg



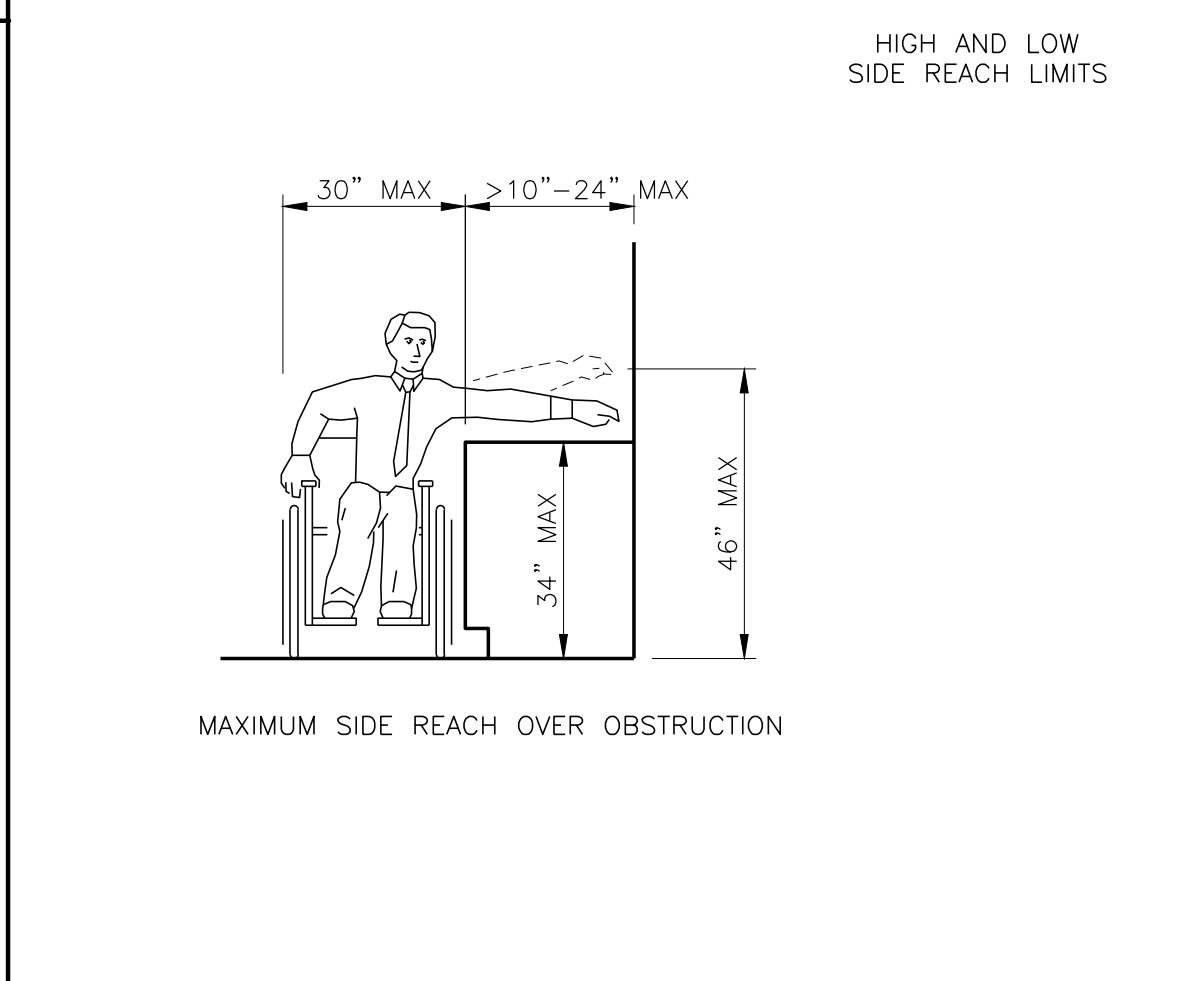
16 TOP HANDRAIL EXTENSION SCALE: NOT TO SCALE
top handrail.dwg



12 SIGNAGE: TACTILE CHARACTERS SCALE: 3" = 1'-0"
ADA Tactile Characters.dwg



8 PICTOGRAM SCALE: 3" = 1'-0"
ADA Pictogram.dwg



4 SIDE REACH NOT TO SCALE
SIDE REACH.dwg

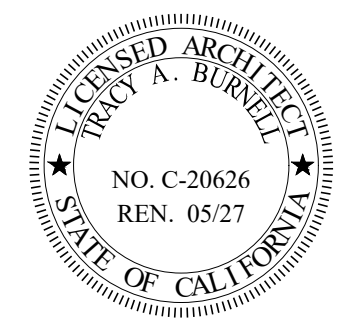


ARCHITECTURE

924 anacapa st
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93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

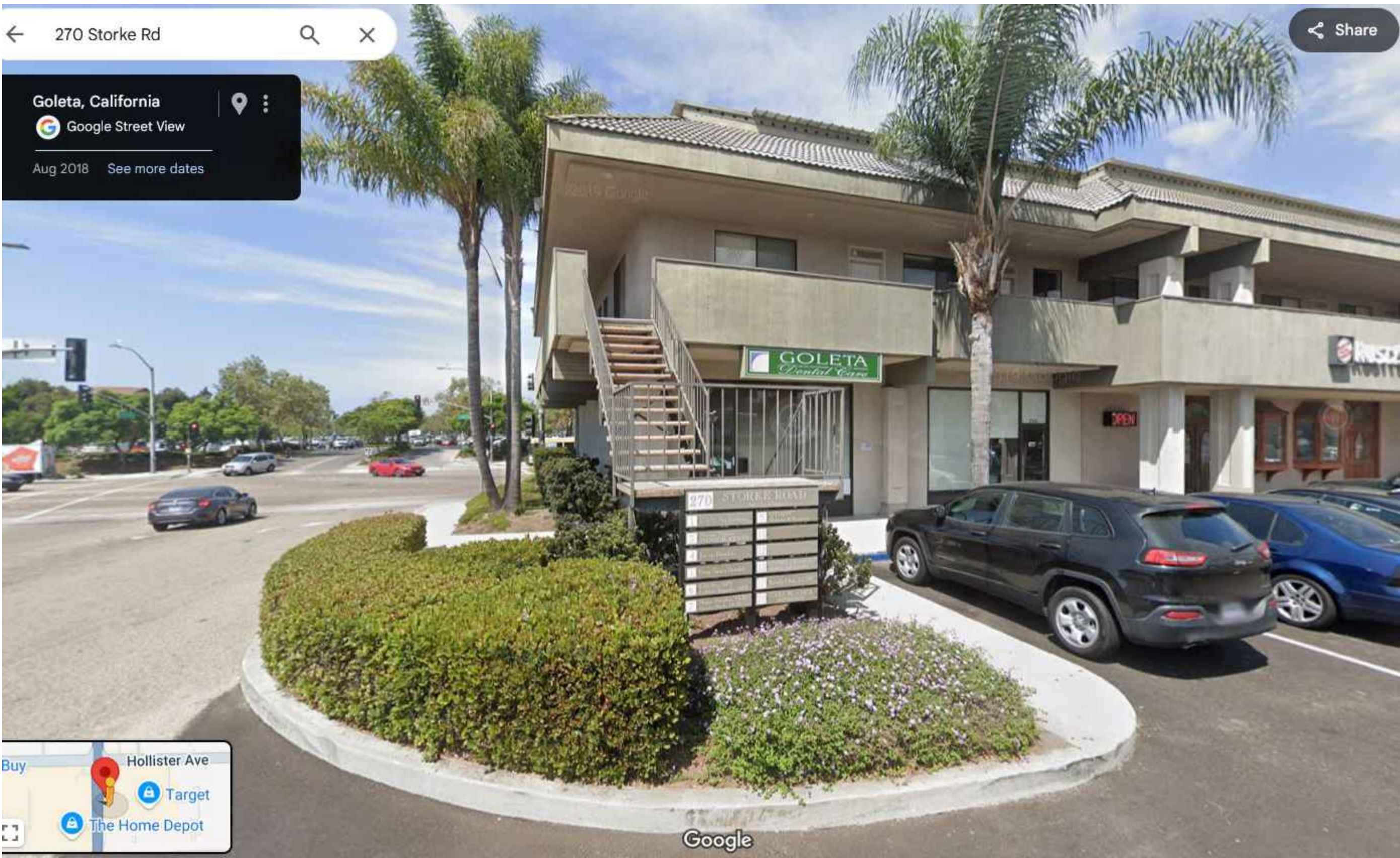
SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117



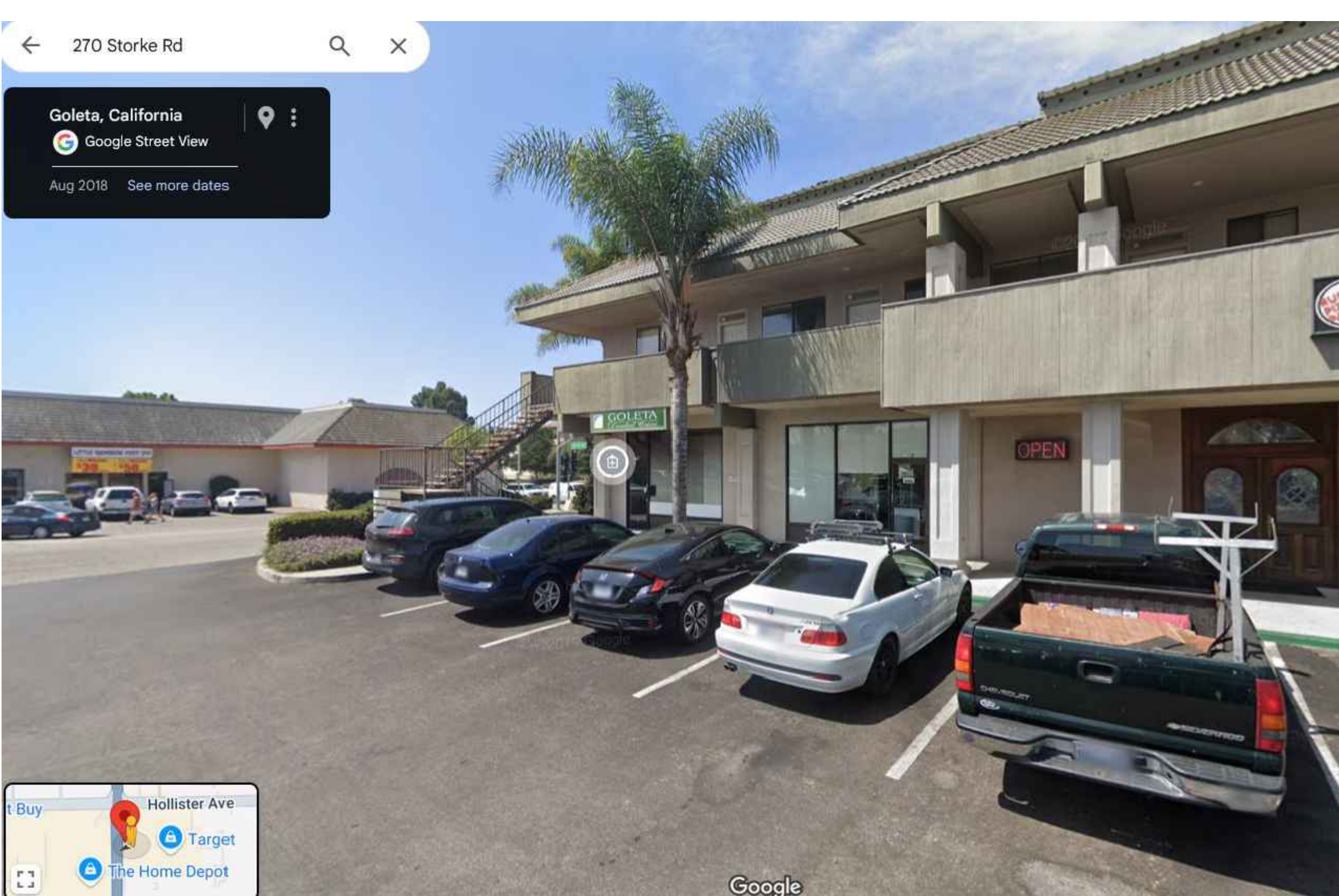
sheet description
ACCESSIBILITY
DETAILS

date:
5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

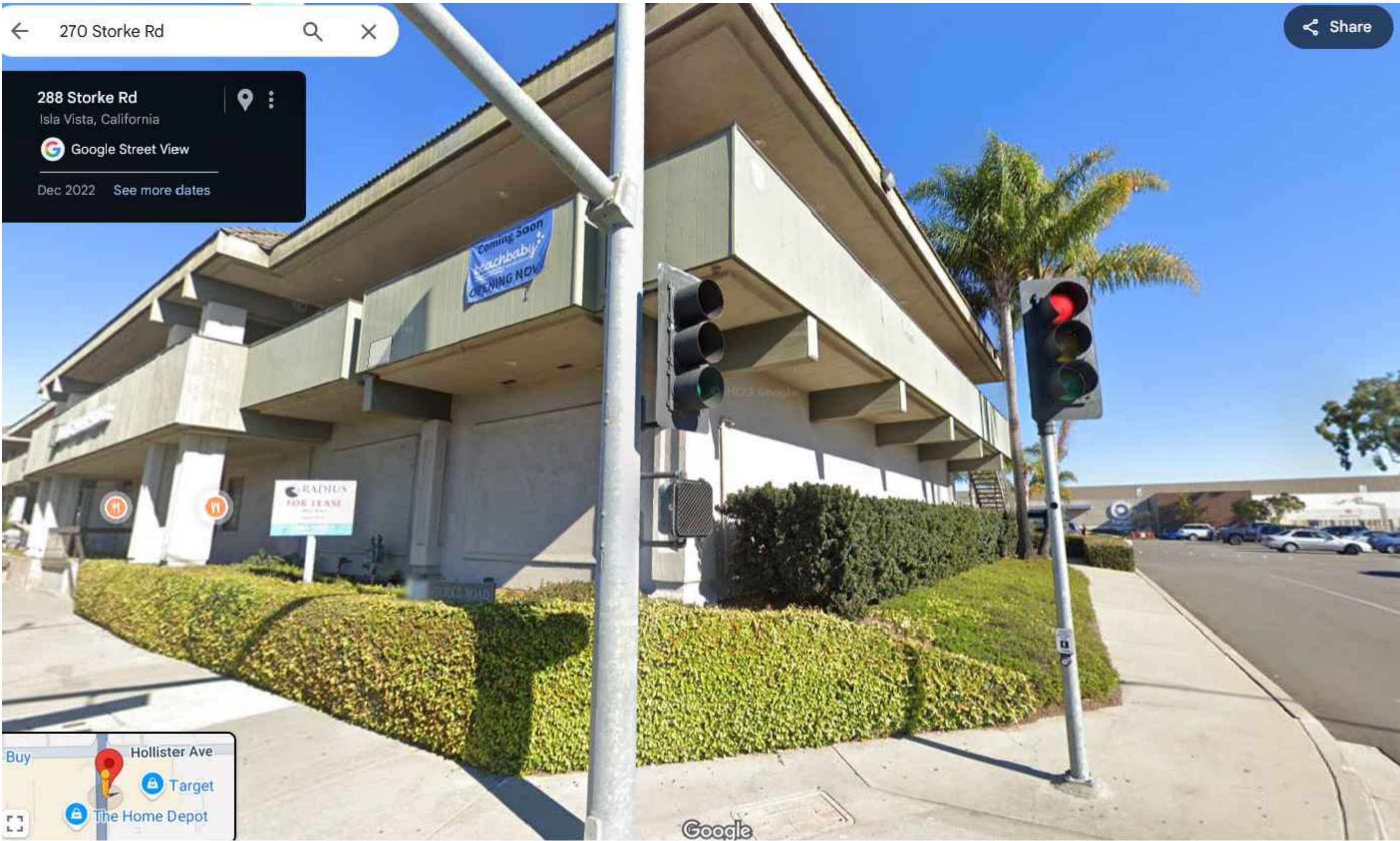
sheet no:
G-2.3



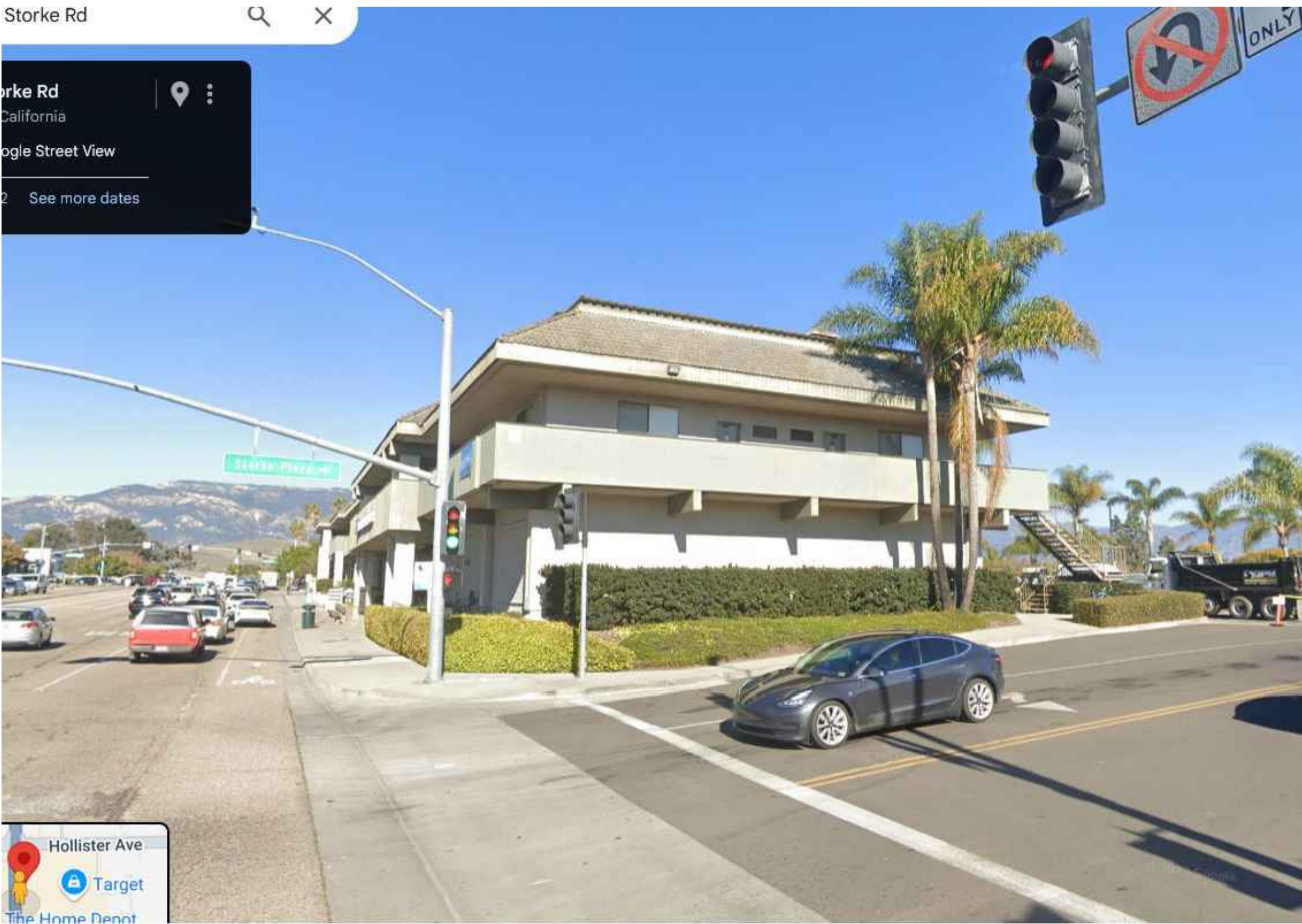
View of Southeast Corner of 270 Storke



View Looking towards Suite A (end unit) from Exist'g Parking Lot



View of Southwest Corner of 270 Storke



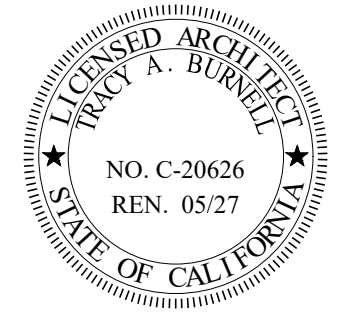
View of South Elevation at 270 Storke, Showing Palm Trees to be Removed



ARCHITECTURE

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93101
805.564.6074

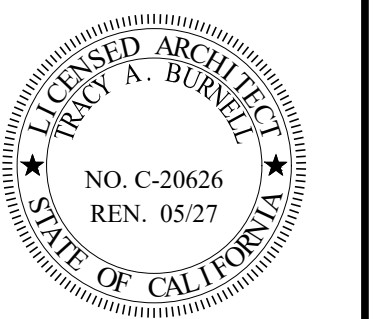
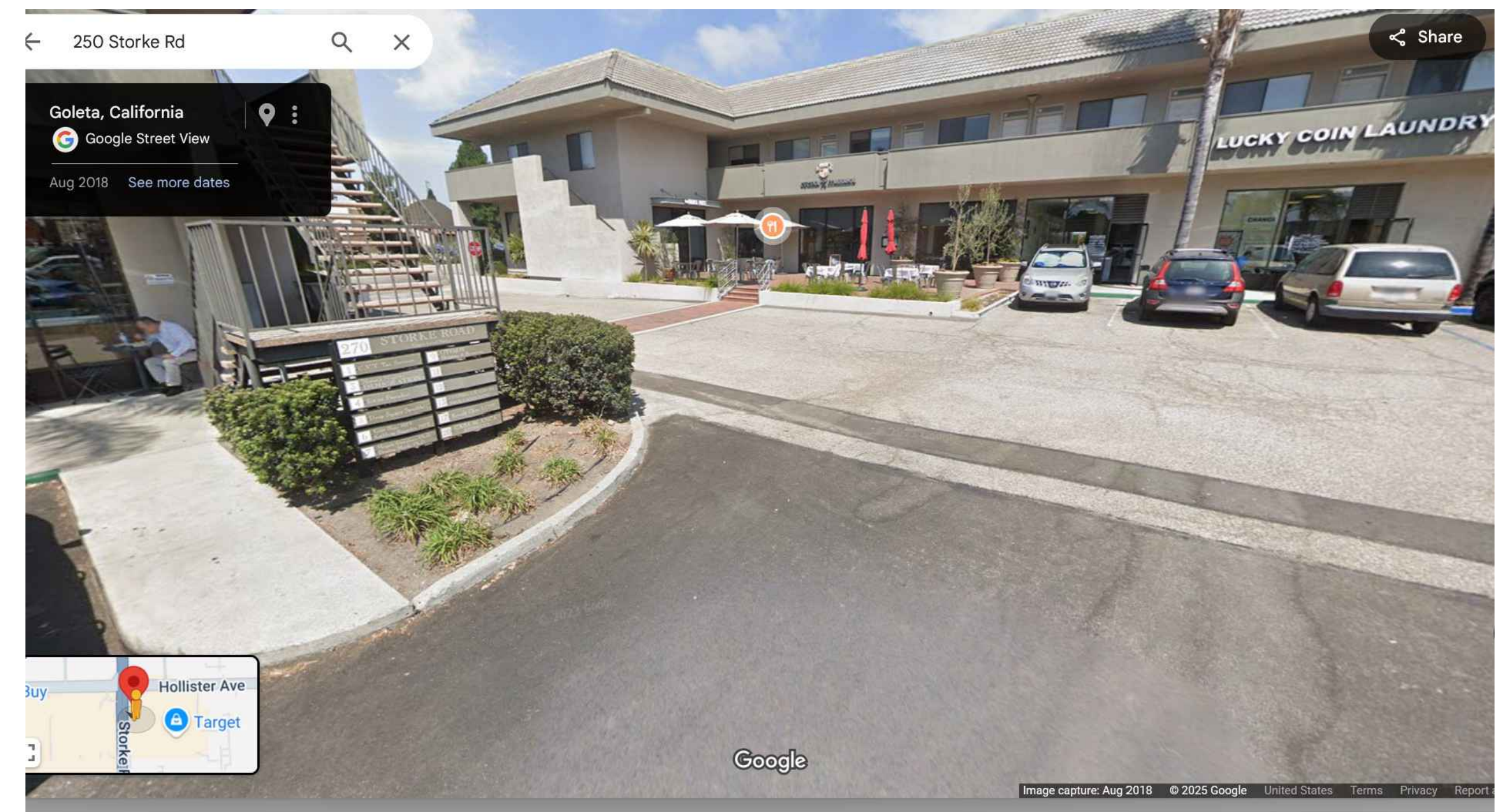
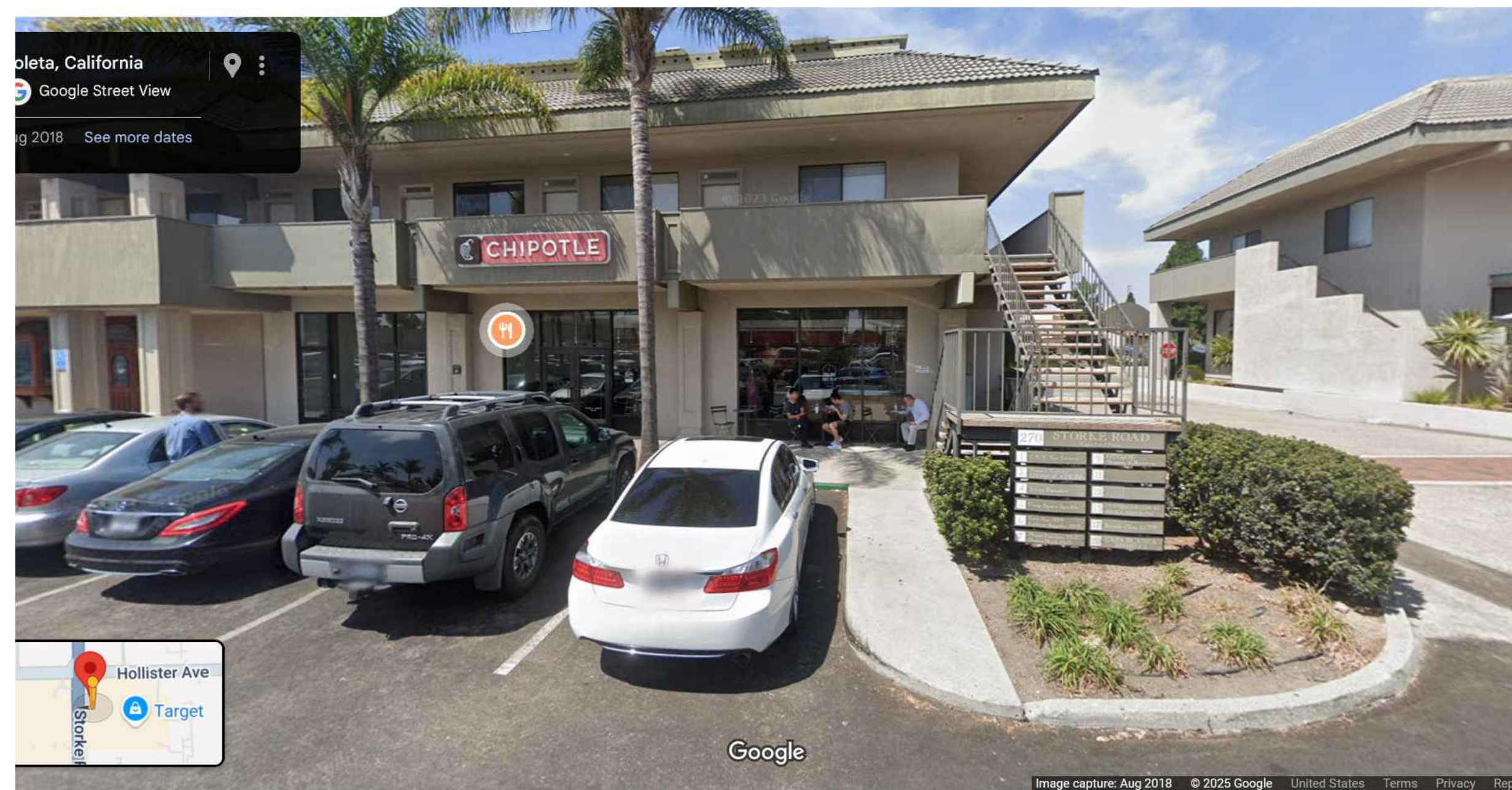
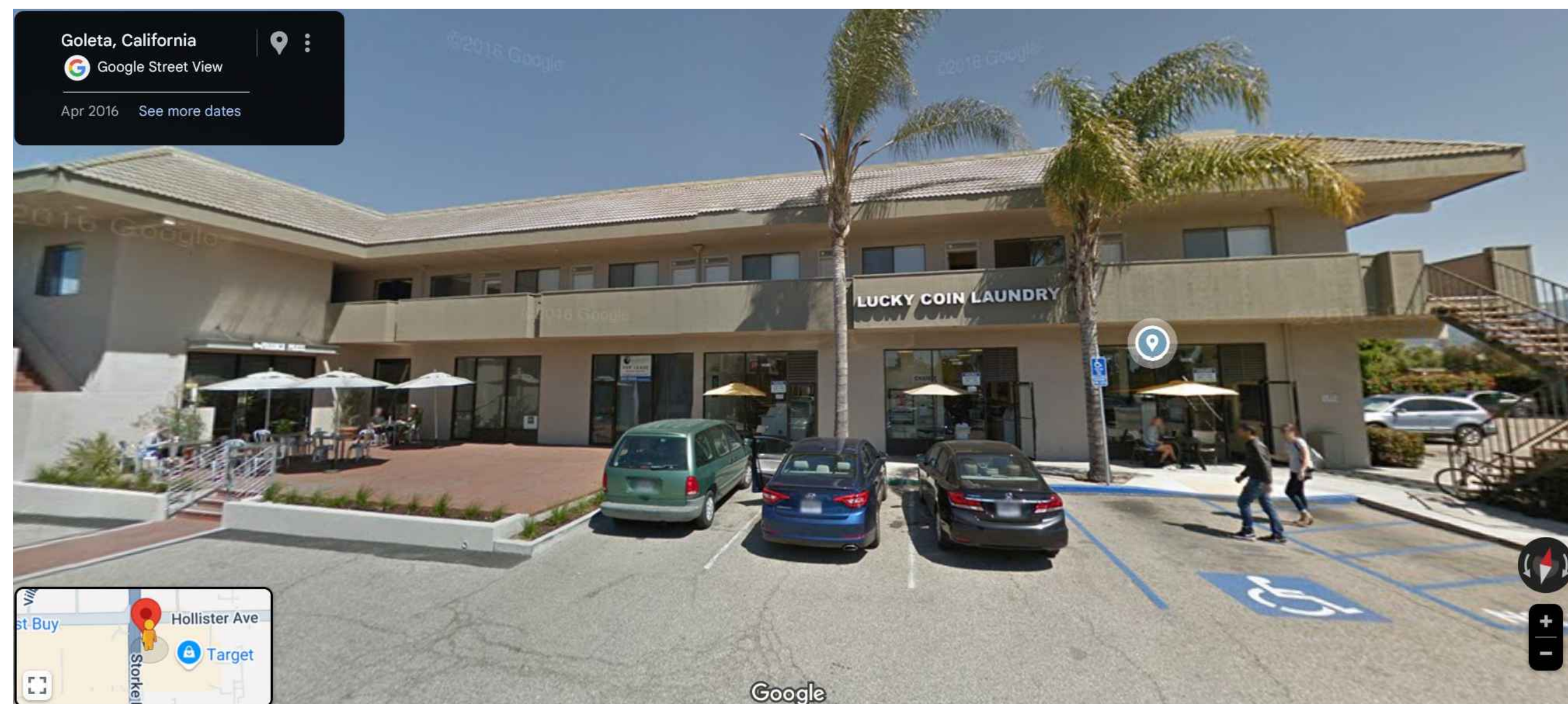
SUBSTANTIAL CONFORMITY DETERMINATION FOR:
SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117

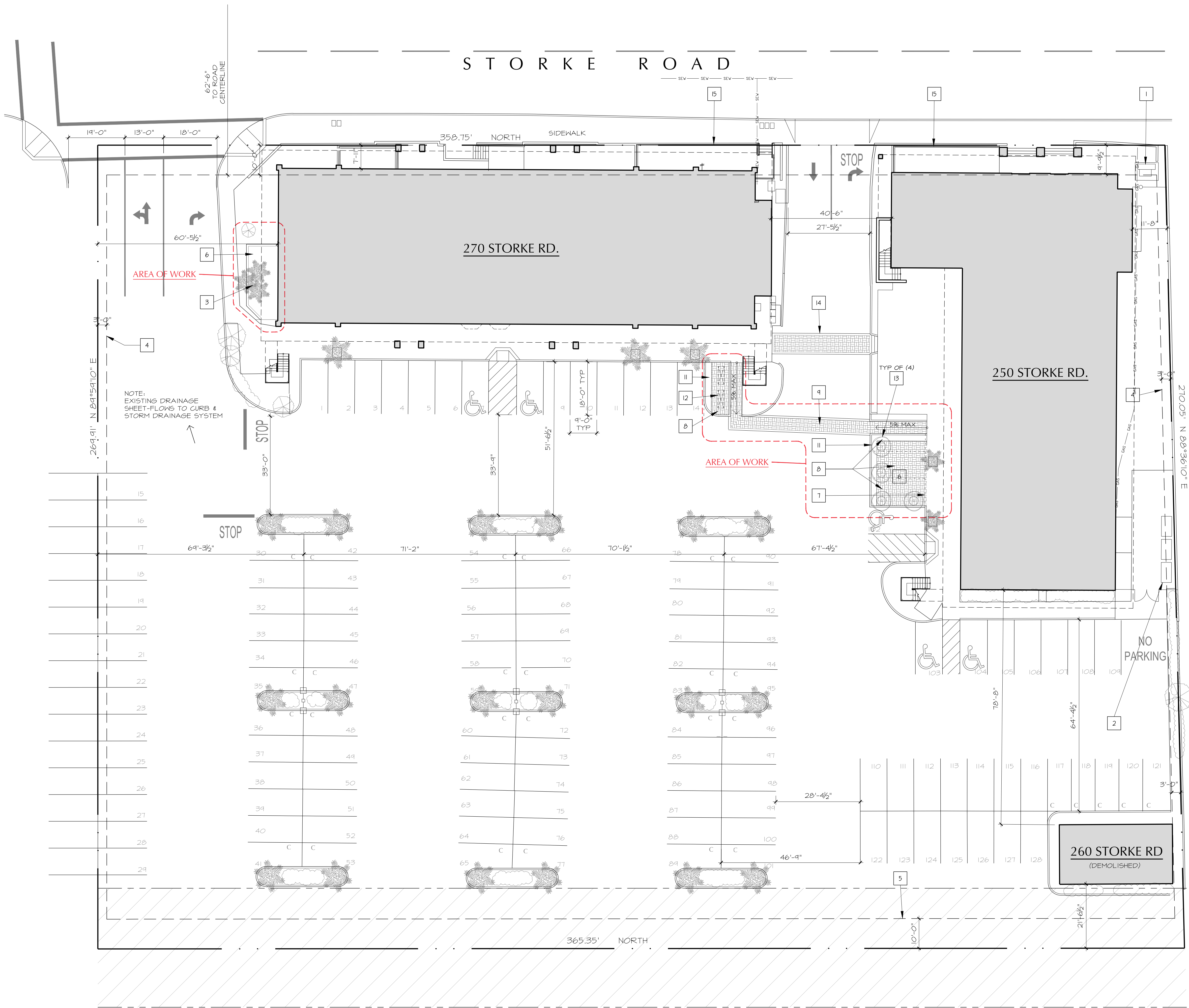


sheet description
PHOTOS

date:
5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:
PH-1





SITE PLAN
1/16"=1'-0"

SITE PLAN KEYNOTES:

1. (E) EDISON TRANSFORMER.
2. (E) TRASH/RECYCLING DUMPSTERS.
3. PALMS TO BE REMOVED.
4. SIDE SETBACK.
5. REAR SETBACK.
6. (N) PATIO.
7. (E) CURB TO BE REMOVED.
8. (E) PARKING SPACES TO BE REMOVED.
9. (N) PATH OF TRAVEL (48" WIDE, SEE DETAIL 8/D.1)
10. NOT USED
11. (N) PLANTER (MATCH EXISTING PLANTING: Lomandra 'Breeze'; 5 gal. @ 36"-42" o.c.)
12. (N) BICYCLE PARKING. BOLLARD STYLE BIKE RACKS, SEE 19/D.1
13. (N) POTTED FRUITLESS OLIVE TREES.
14. (E) BRICK WALKWAY
15. (E) RAILING

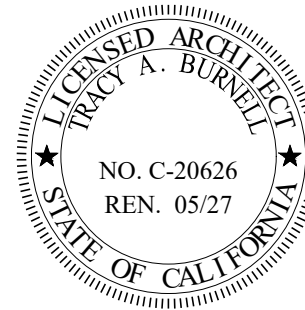


ARCHITECTURE

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SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117



sheet description
SITE PLAN

date:

5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:

A-1

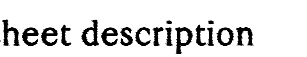

$$\overline{1/8'' = 1' - 0''}$$

1. New Railing to Match Existing. See Detail 10/D.1
2. Existing Palms to be Removed.
3. New Storefront Window/Door to Match Existing.
4. Existing Hedge to Remain.
5. New Tree. Ginkgo 'Autumn Gold' / Autumn Gold Ginkgo; 24" Box Size, Standard Form. Double Stake Tree with Lodgepole Tree Stakes and 1" Wide Figure 8 "Super Tie 1" Tree Ties.
6. New Match Existing Hedge. Lomandra Longifolia 'Breuse' / Dwarf Mat Rush (Match Existing)
7. New Bicycle Parking. Bollard Style Racks (2). See Detail 19/D.1.
8. Path of Travel Not to Exceed 5% Slope.
9. Not Used.
10. Parking Space to be Removed.
11. Existing Trees
12. New Fruitless Olive Trees in Pots



SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117



250 FIRST FLOOR PLAN

ate:

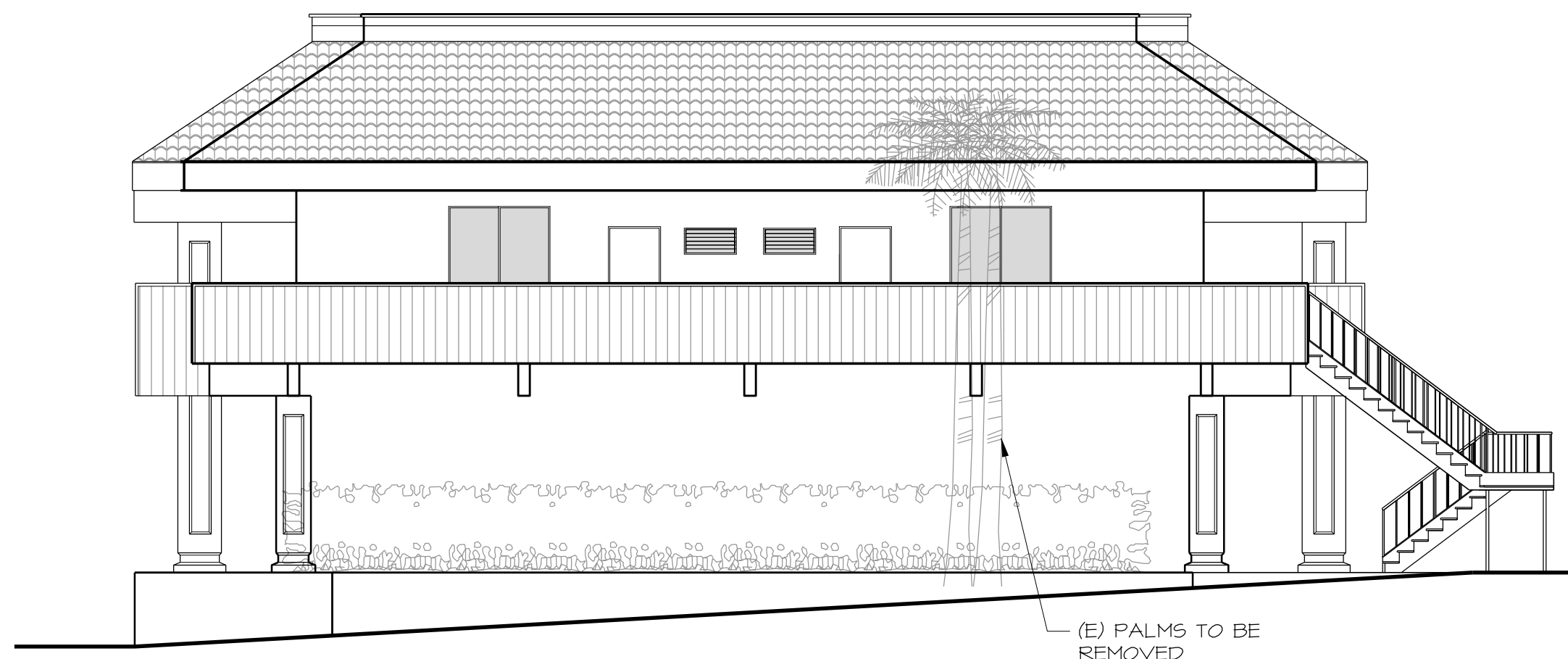
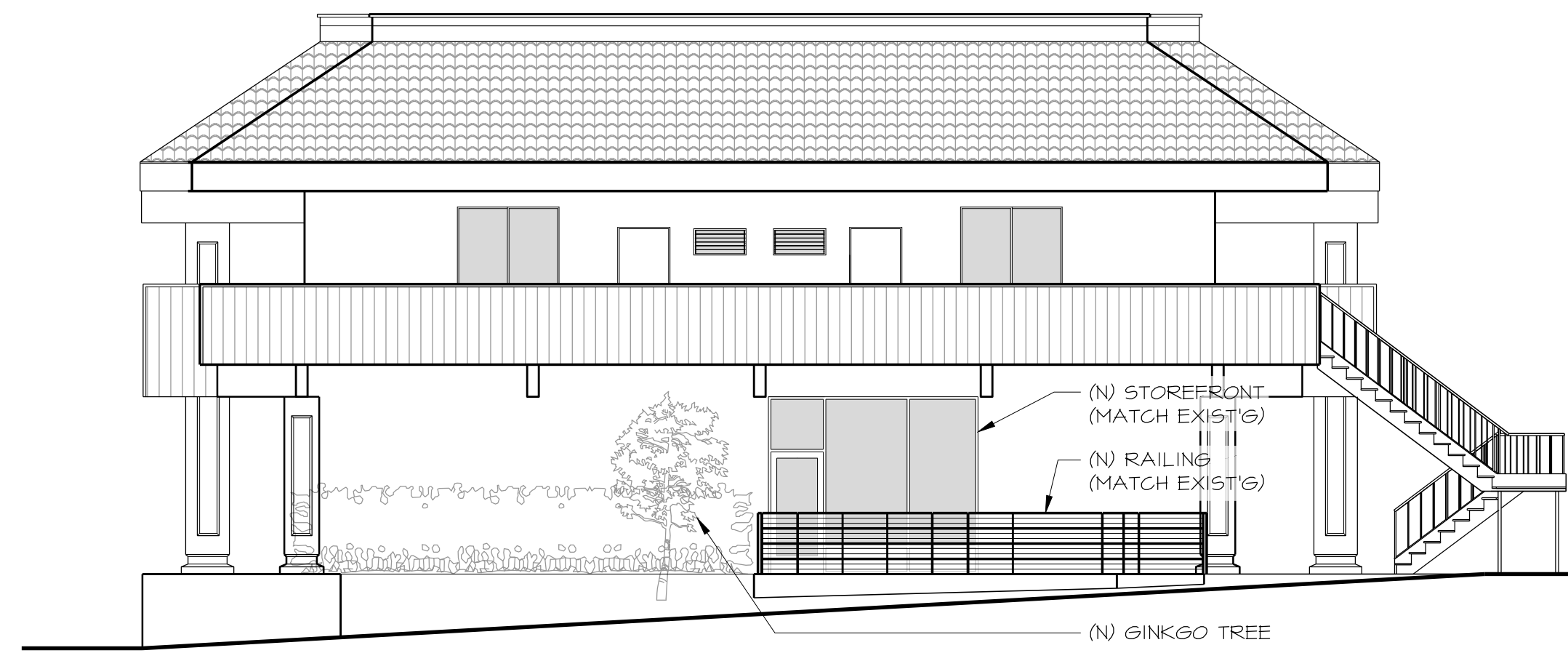
-13-2025
-20-2025
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-15-2025
0-28-2025
1-13-2025

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Sheet no:

A-2

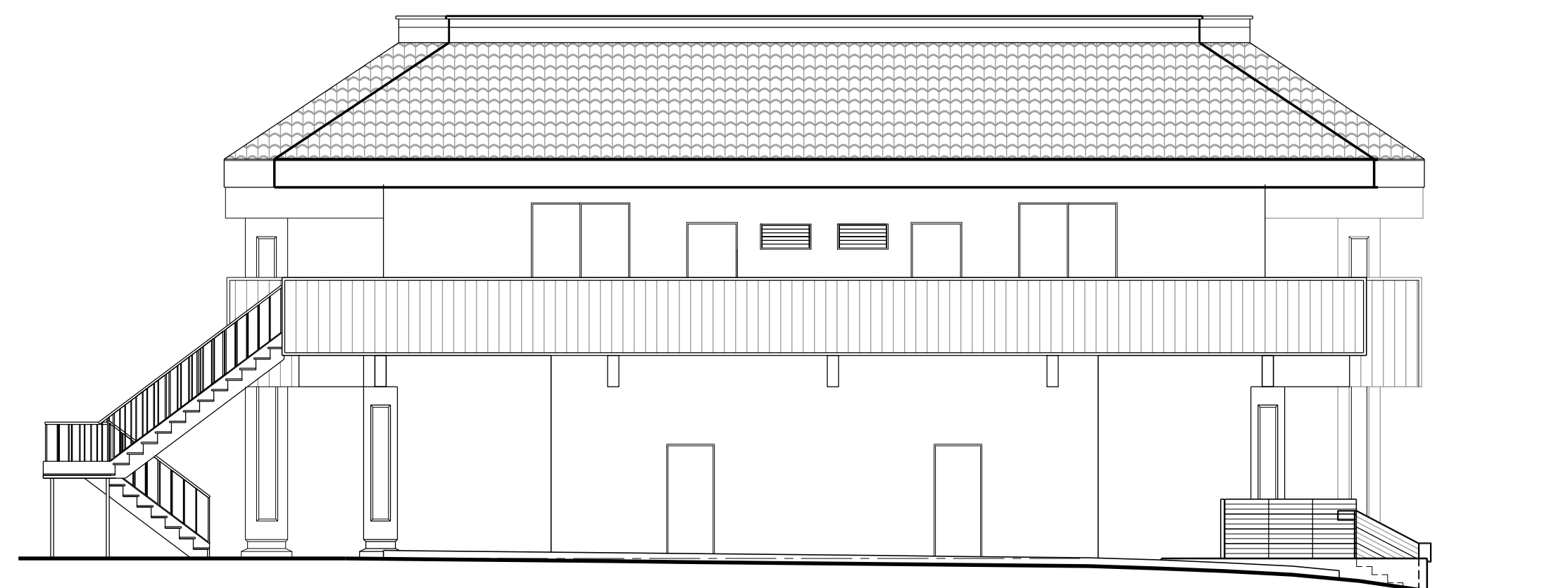

$$\overline{1/8'' = 1' - 0''}$$

$$\overline{1/8'' = 1' - 0''}$$

$$\overline{1/8'' = 1' - 0''}$$

$$\overline{1/8'' = 1' - 0''}$$


PARTIAL EXISTING WEST ELEVATION

$$\overline{1/8'' = 1' - 0''}$$


PARTIAL PROPOSED WEST ELEVATION

$$\overline{1/8'' = 1' - 0''}$$


EXISTING NORTH ELEVATION

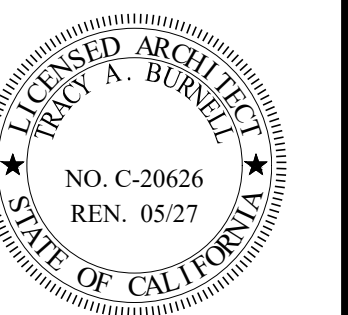
$$\overline{1/8'' = 1' - 0''}$$


ARCHITECTURE

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SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
2250 & 270 Storke Rd
Goleta, CA 93117



sheet description

70 EXTERIOR ELEVATIONS

date:

-13-2025
 -20-2025
 -10-2025
 -15-2025
 0-28-2025
 1-13-2025

Sheet no:

A-3.2



07/16/2025

Bike Hitch Rack

Brand: Dero
Regular Price: **MSRP \$322.00**
Sale Price: **\$293.17**

Features:
U-Lock compatible
Resistant to pipe cutters
Available in In-ground or Surface Mount

Features:
p/2 Schedule 40 pipe (2.375 OD)
p/1.5 OD 11 gauge tube

Specification Details:
2" Schedule 40 (2.375") Centerbeam
1.5" OD 11 Gauge Tube

Customize:
Available in In-Ground or Surface Mount

Product Specifications:
Capacity: 2 Bicycles
Equipment Weight: 25 lb
Installed Dimensions: 16.5 in 35 in

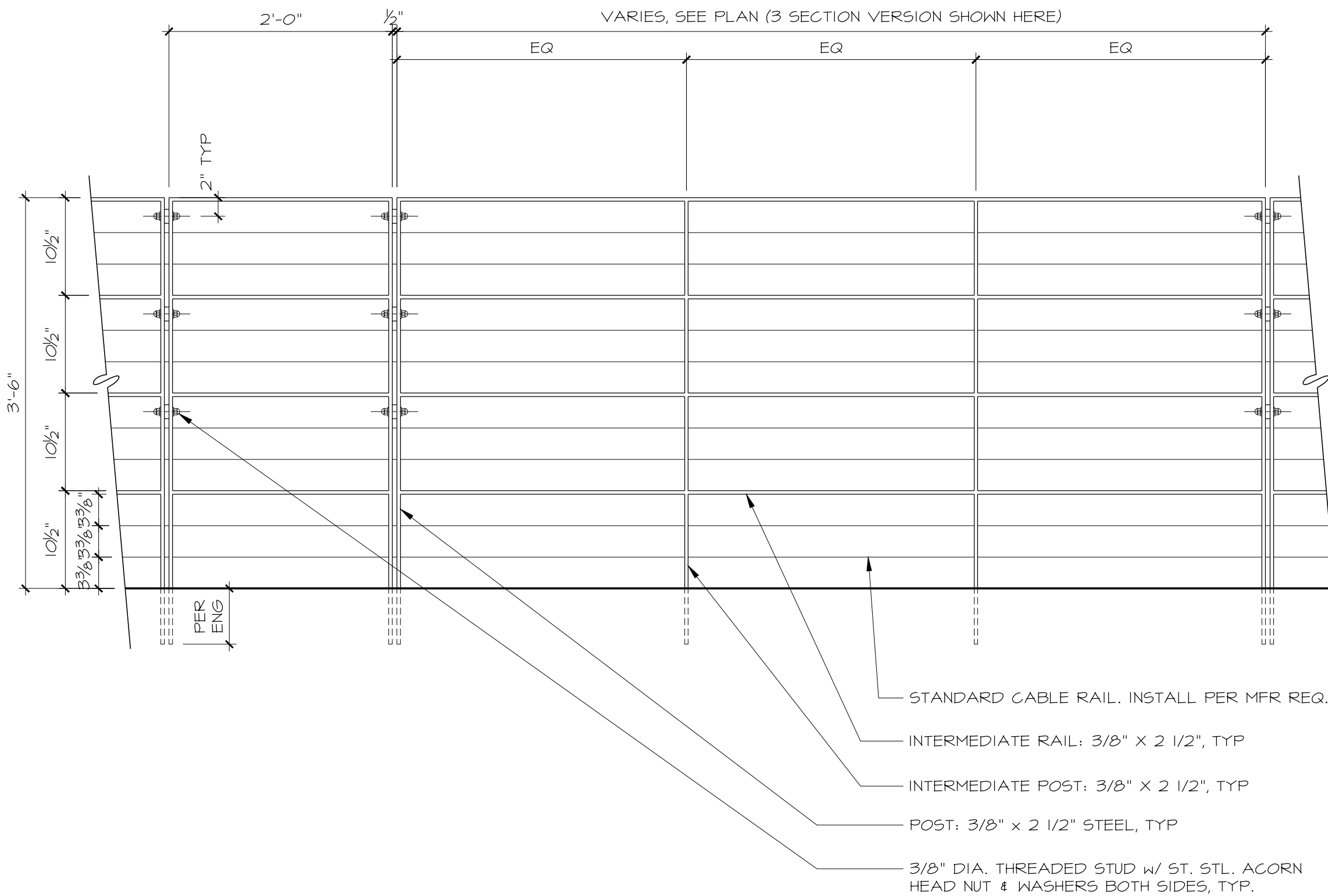
Description:

The Bike Hitch uses thick tube construction and a full radius bend of the ring, making it extremely difficult to cut with a pipe cutter. This popular bike rack has street appeal, a slim silhouette, and accommodates all bike locks.



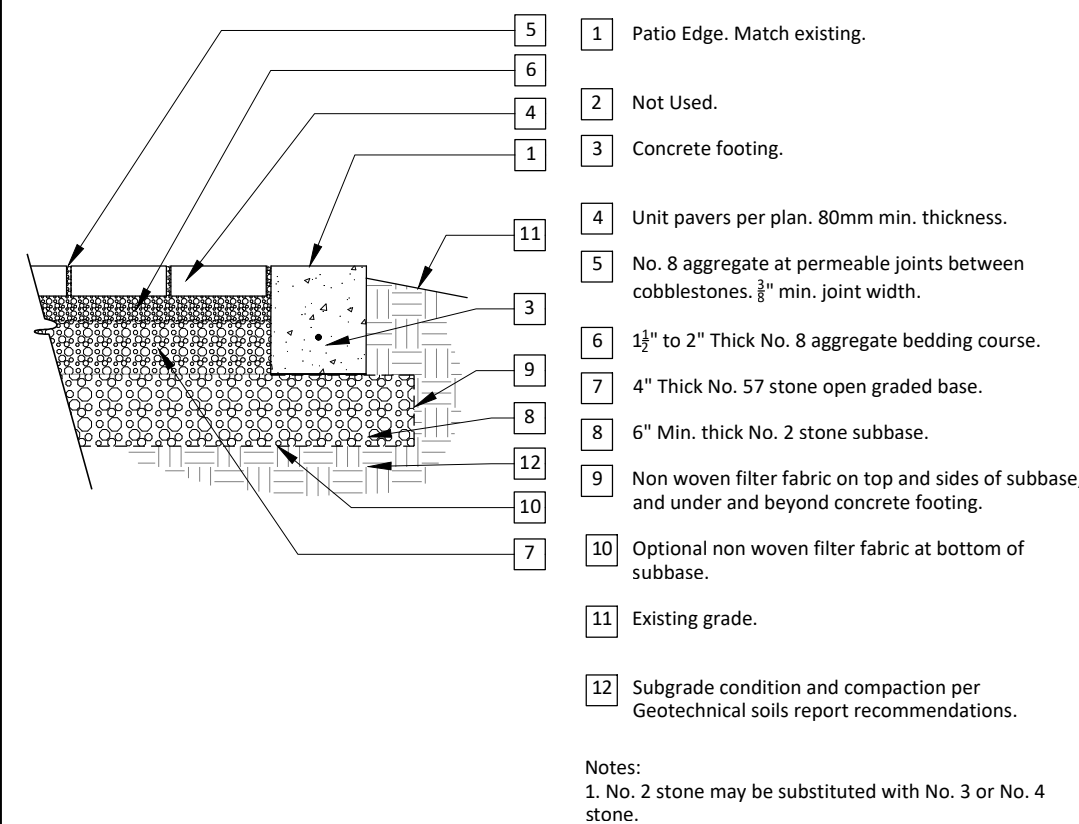
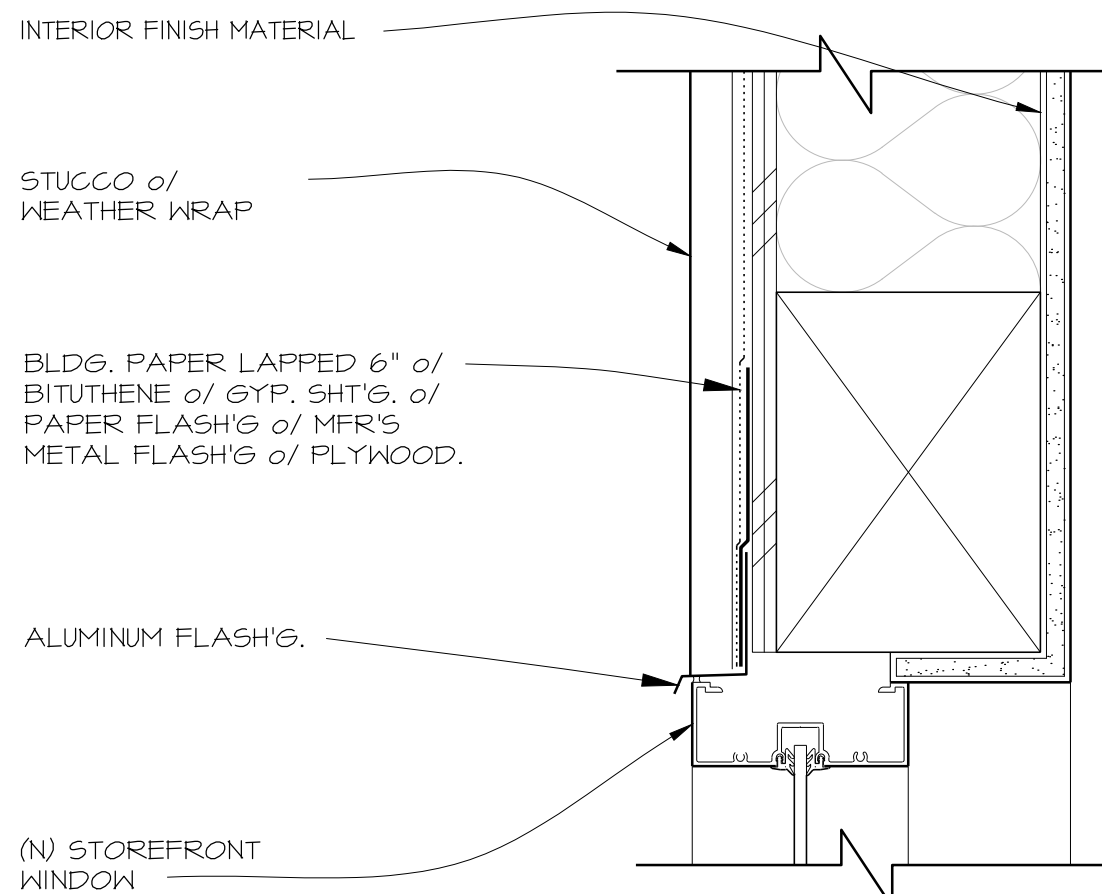
willygoat.com | fun@willygoat.com | 888-920-4628

NOTE:
INSTALLATION TO BE SURFACE MOUNT



10 GUARDRAIL (MATCH EXISTING)

SCALE: 1" = 1'-0"

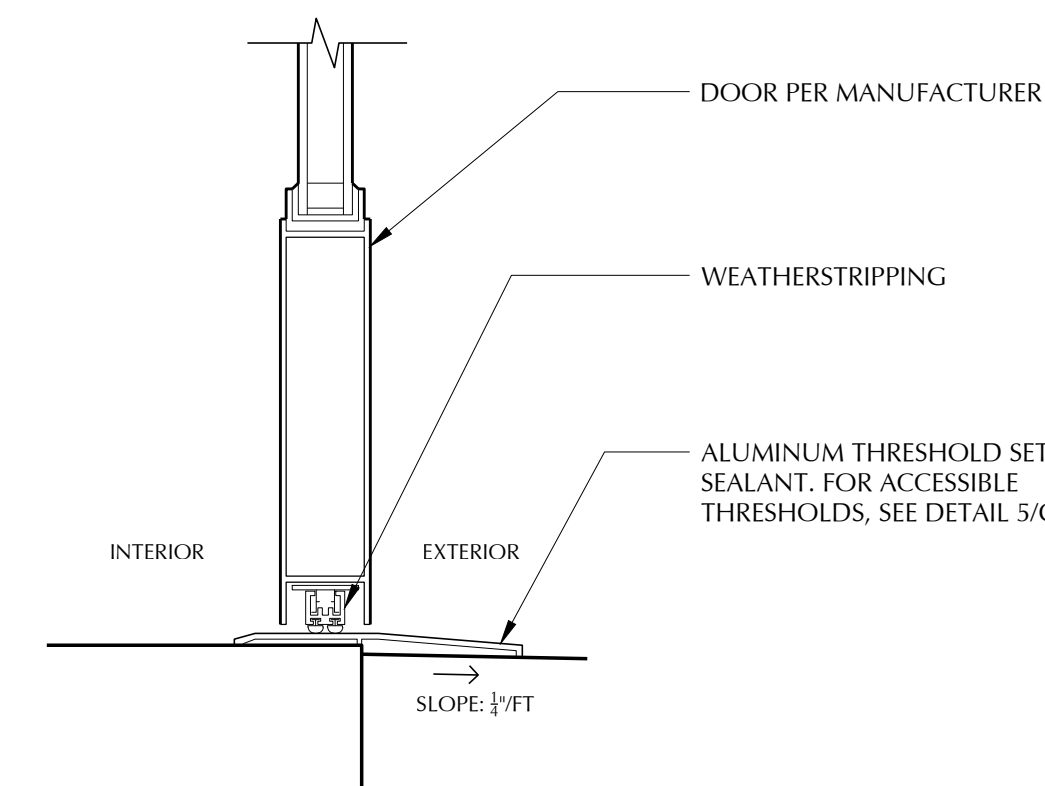


11 WINDOW HEAD

SCALE: 3" = 1'-0"

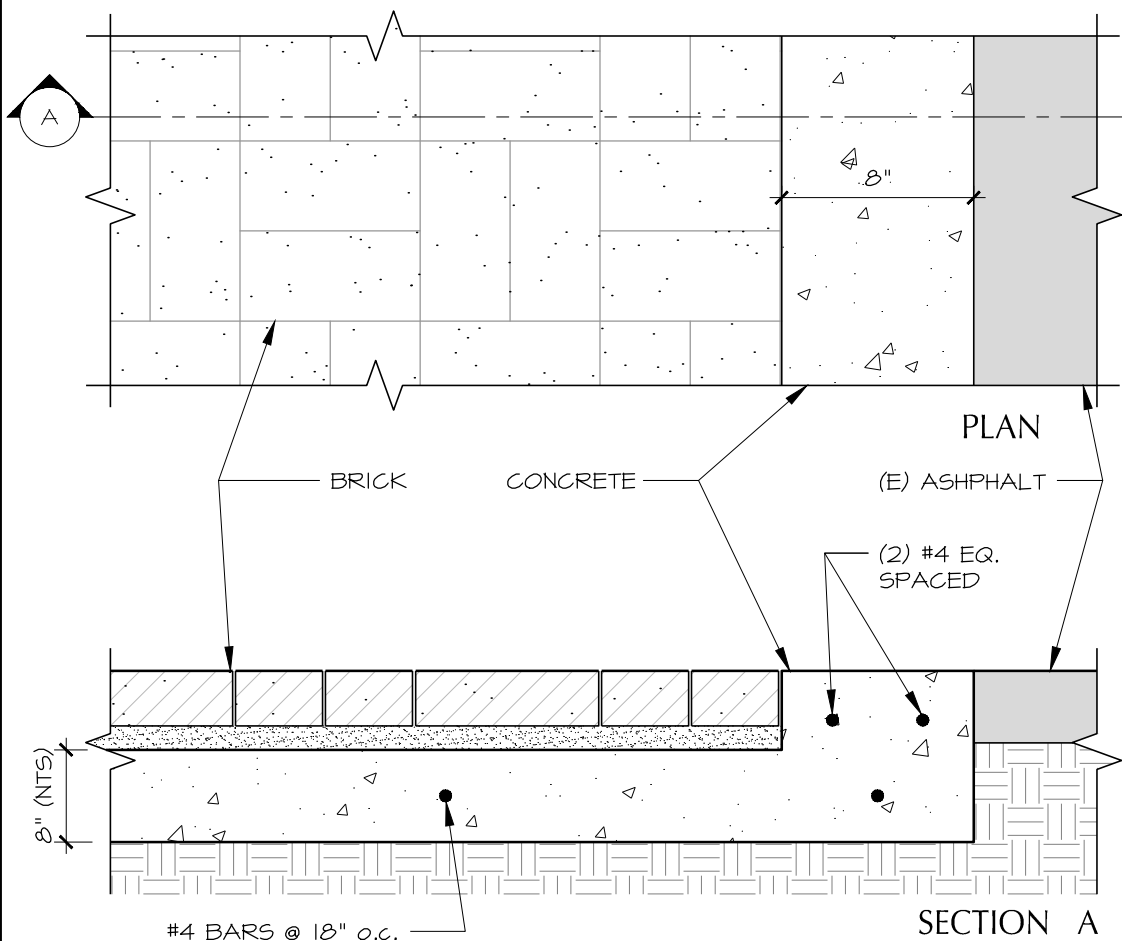
7 PERMEABLE PAVERS PATIO

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



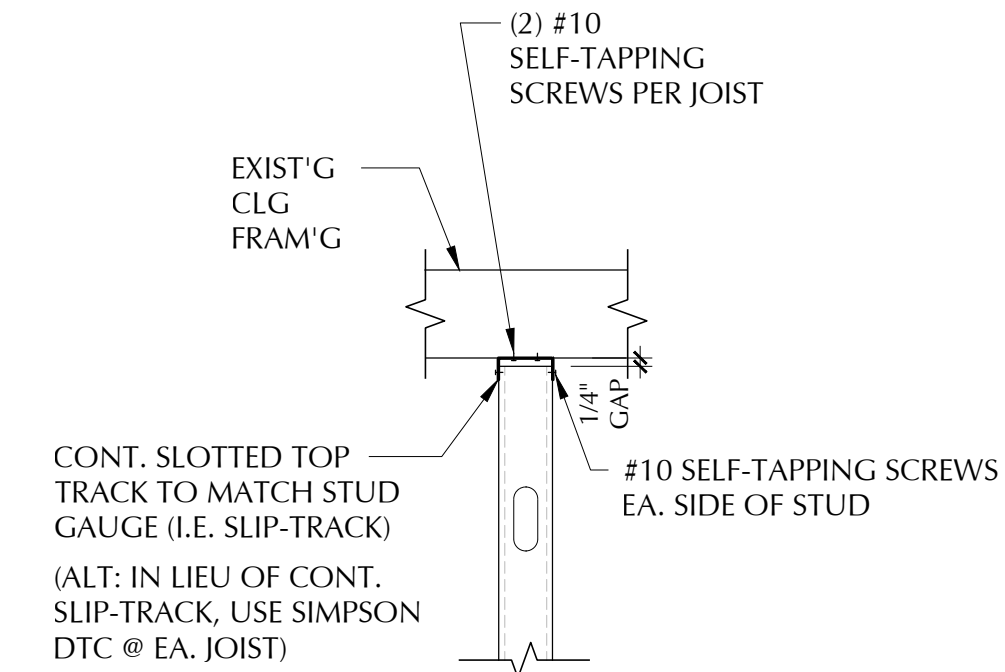
12 METAL THRESHOLD

SCALE: 3" = 1'-0"

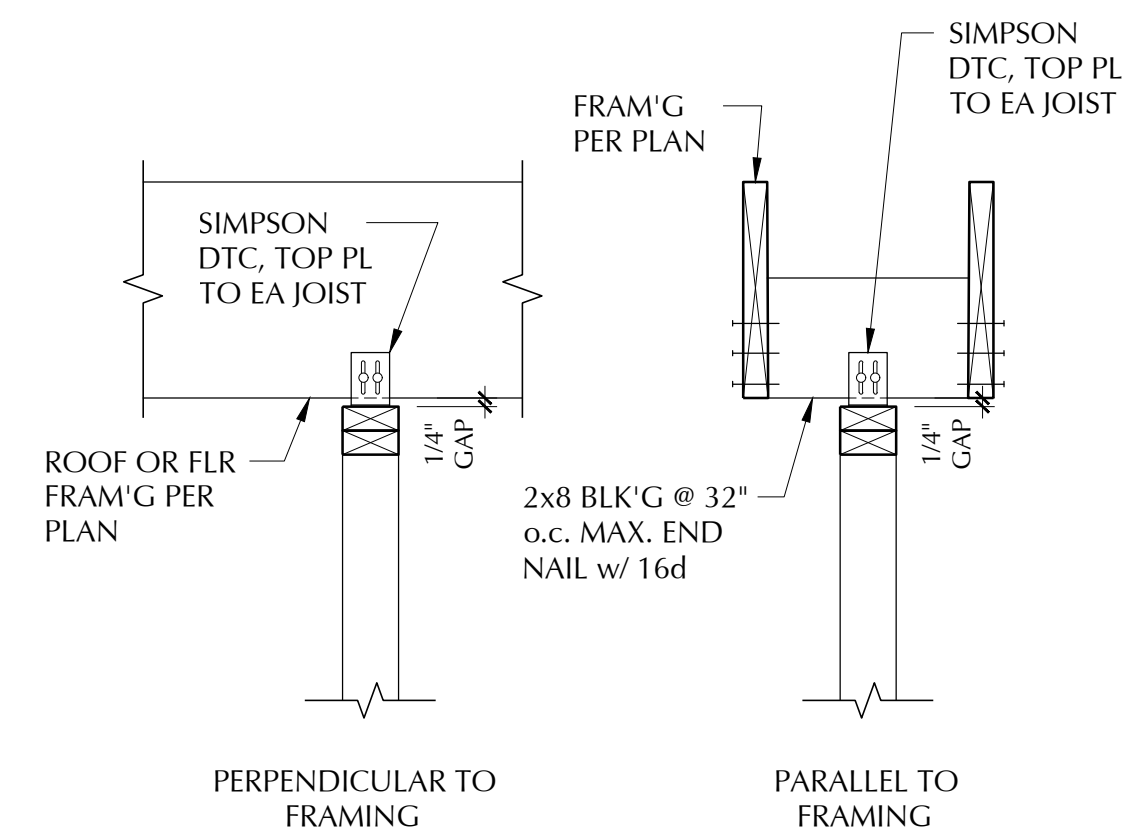


8 BRICK CROSSWALK

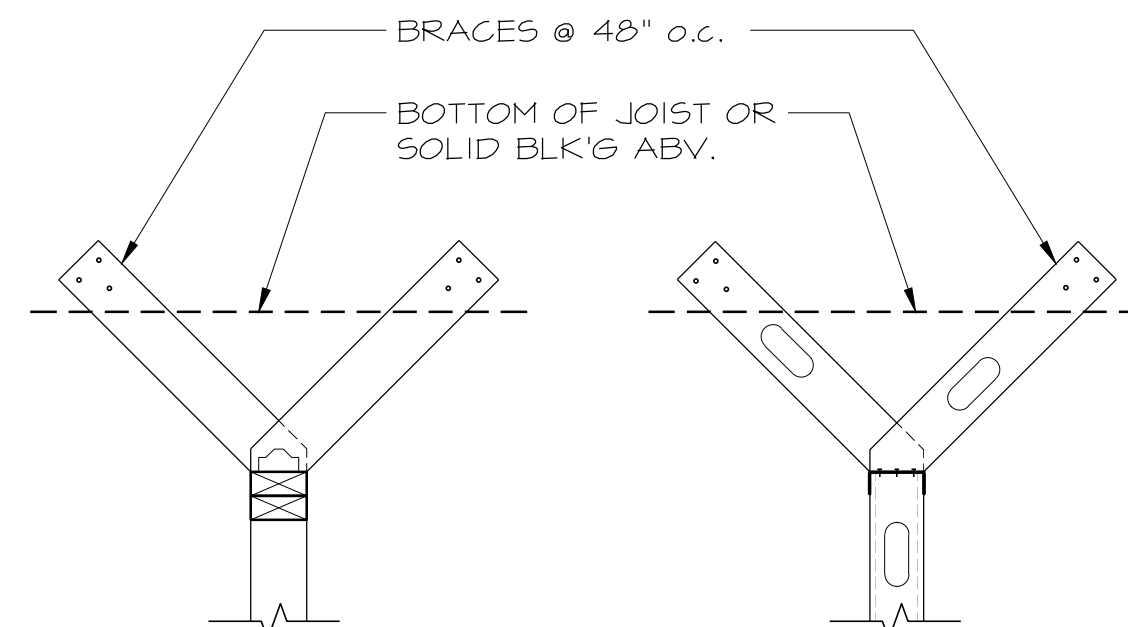
SCALE: 1 1/2" = 1'-0"



DIRECT CONNECTION (STEEL STUDS)



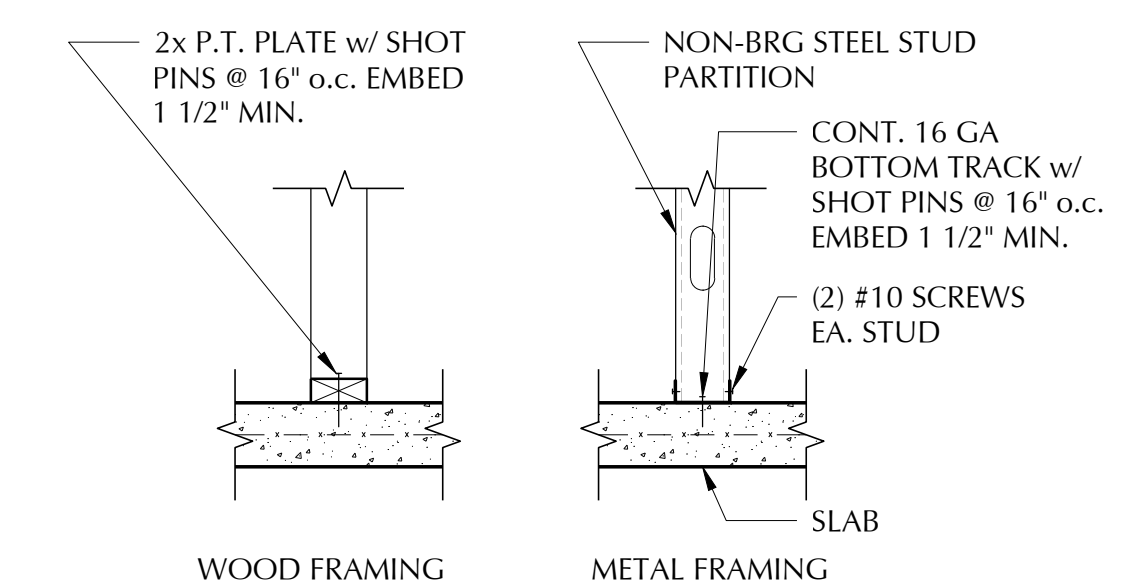
DIRECT CONNECTION (WOOD STUDS)



BRACED CONNECTION

WOOD FRAMING:
BRACES @ 48" o.c. CONNECT TO TOP PLATE w/ A34. CONNECT TO JOISTS (OR SOLID BLOCK'G) ABOVE BY LAPPING AND SECURING w/ (3) 16d EA.

METAL FRAMING:
BRACES @ 48" o.c., CUT w/ BENT FLANGE @ TOP TRACK. CONNECT w/ (3) #10 SCREWS. CONNECT TO JOISTS (OR SOLID BLOCK'G) ABOVE BY LAPPING AND SECURING w/ (3) #10 SCREWS.



SLAB CONNECTION

4 NON-STRUCTURAL DEMISING WALLS

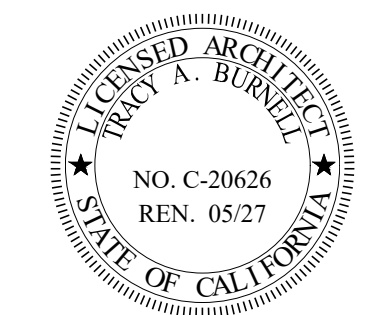
SCALE: 1" = 1'-0"



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santa barbara, ca
93101
805.564.6074

SUBSTANTIAL CONFORMITY DETERMINATION FOR:

SITE IMPROVEMENTS
250 & 270 Storke Rd
Goleta, CA 93117



sheet description
ARCHITECTURAL DETAILS

date:

5-13-2025
5-20-2025
7-10-2025
7-15-2025
10-28-2025
11-13-2025

sheet no:

D.1

270 Storke Rd T.I.

270 Storke Rd
Goleta, CA 93117



210 E. Cota St
Santa Barbara, CA, 93101
(805) 962-9966

WWW.ASHLEYVANCE.COM

CIVIL • STRUCTURAL

ENGINEER OF RECORD:



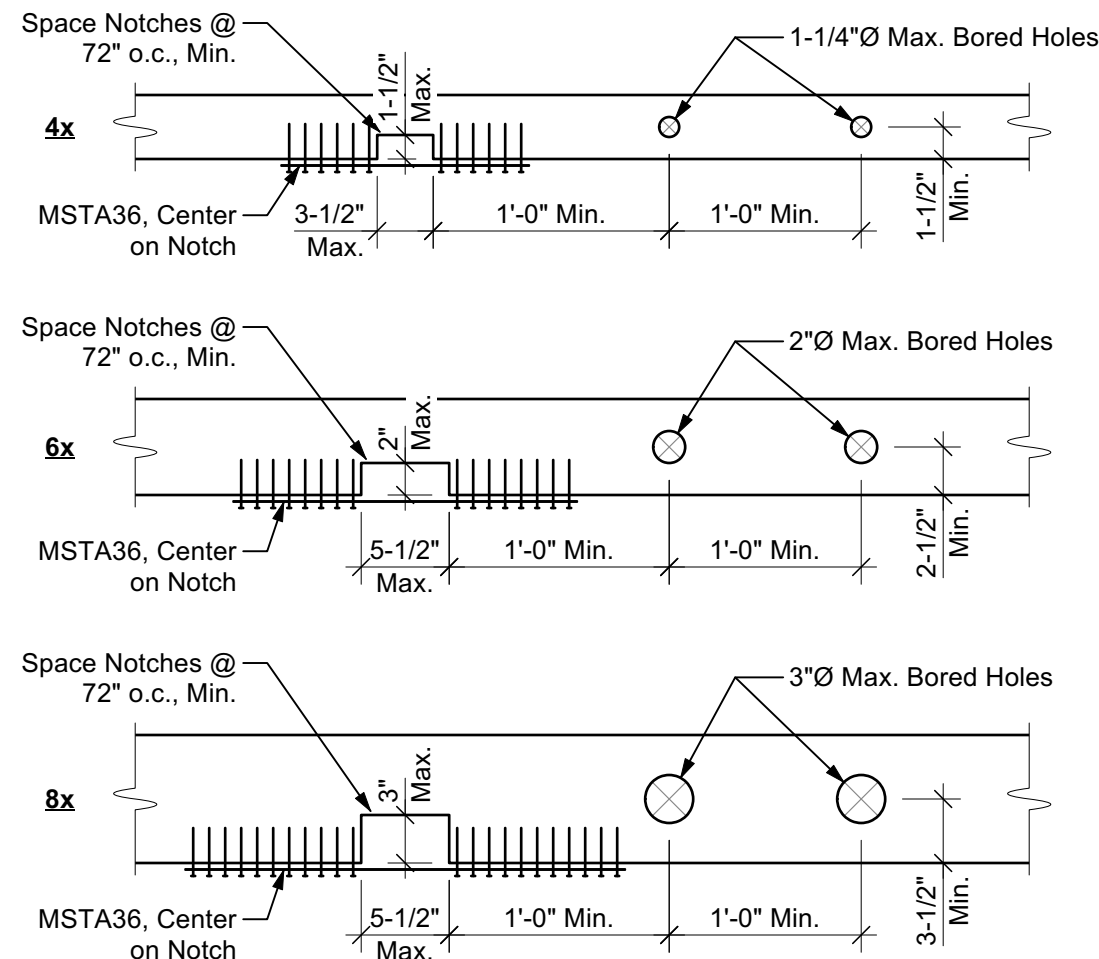
270 Storke Rd T.I.

270 Storke Rd
Goleta, CA 93117

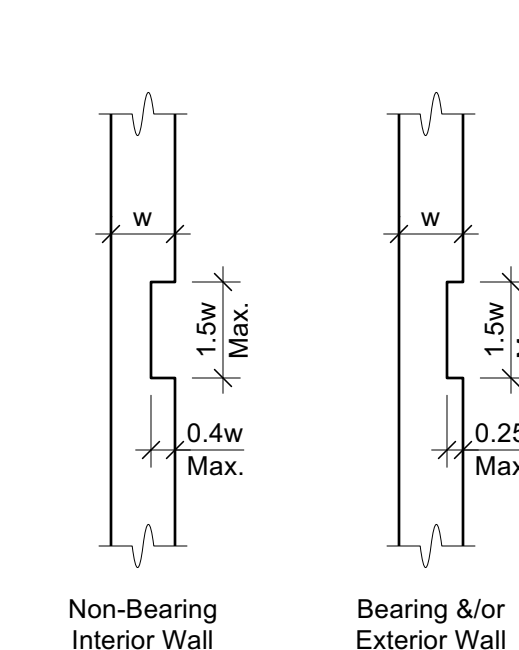
STANDARD DETAILS

9 TYPICAL NOTCHING & BORING

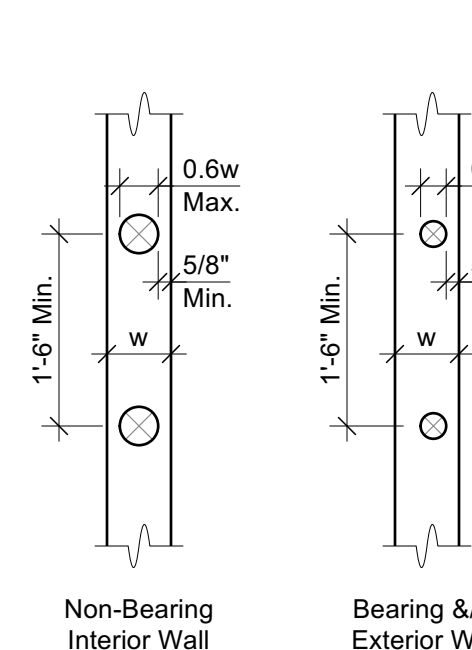
PENETRATIONS IN TOP PLATES & SILL PLATES



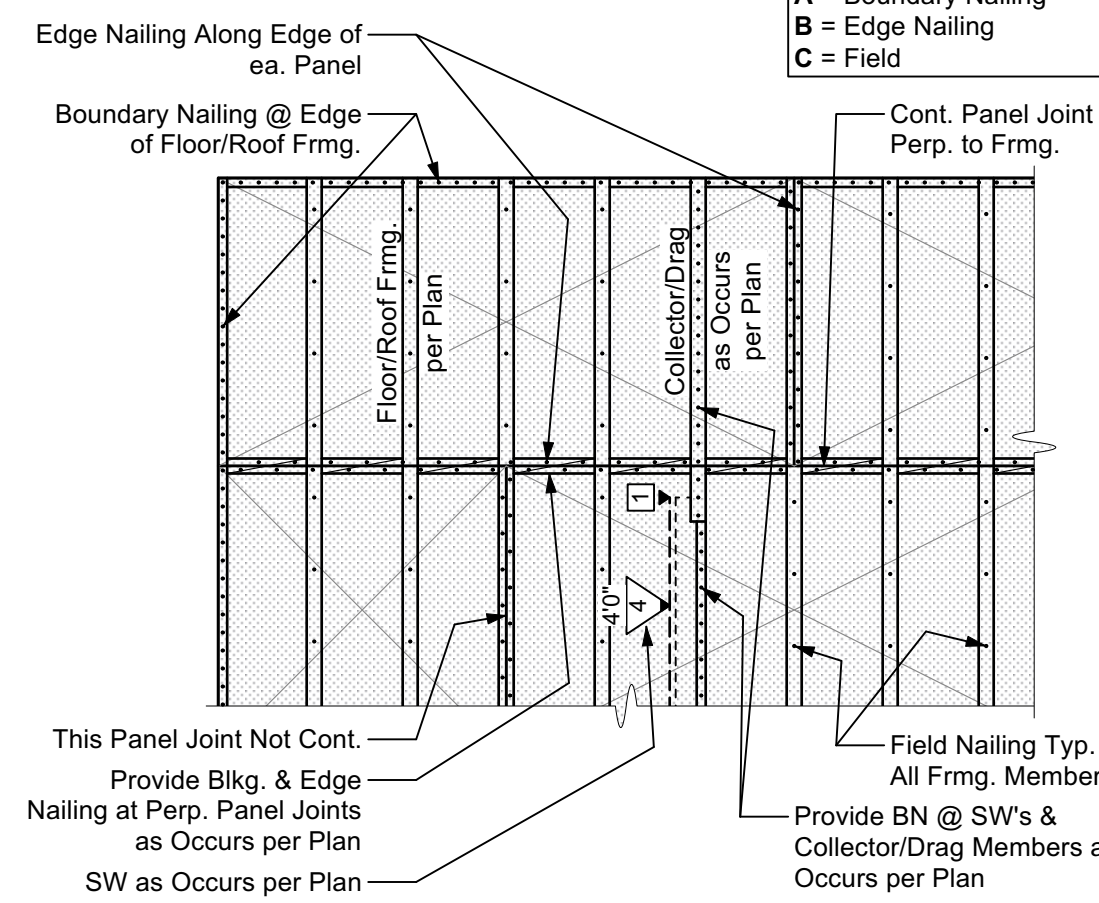
NOTCHING LIMITS FOR WOOD STUDS



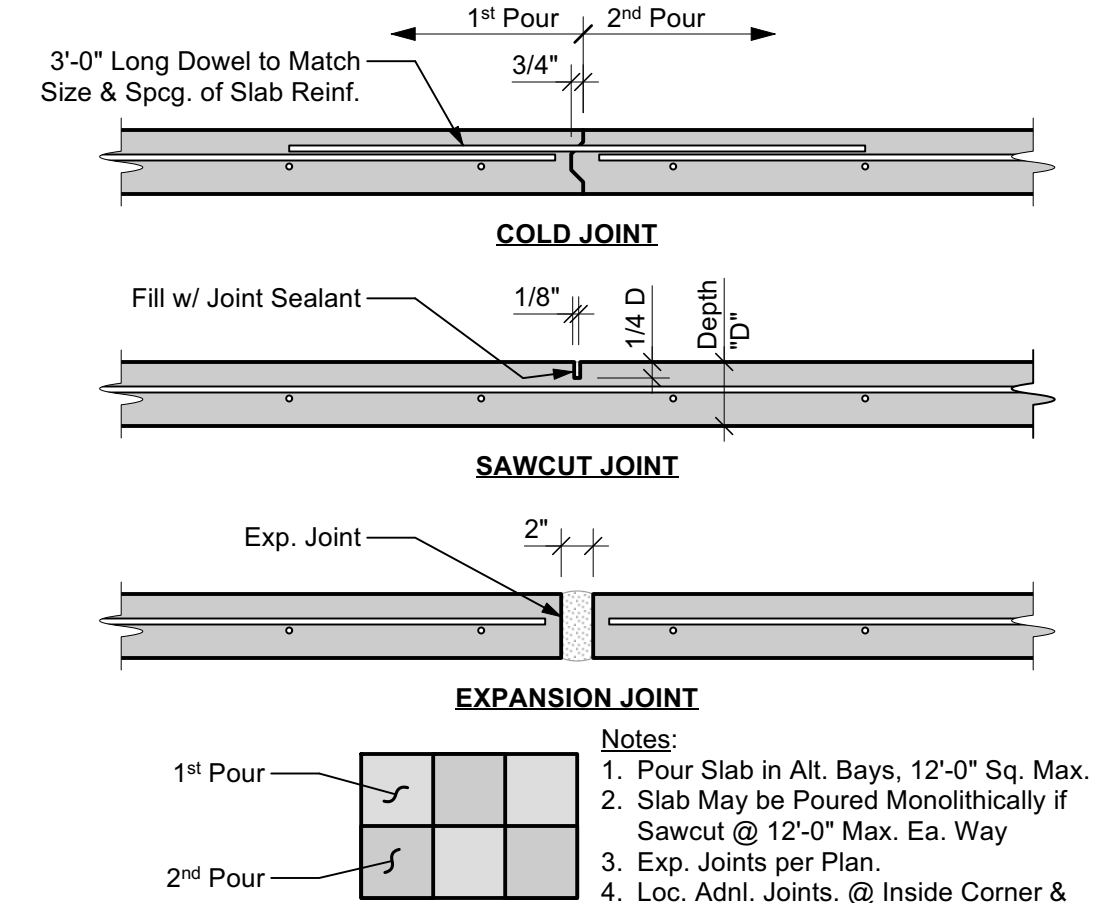
BORING LIMITS FOR WOOD STUDS



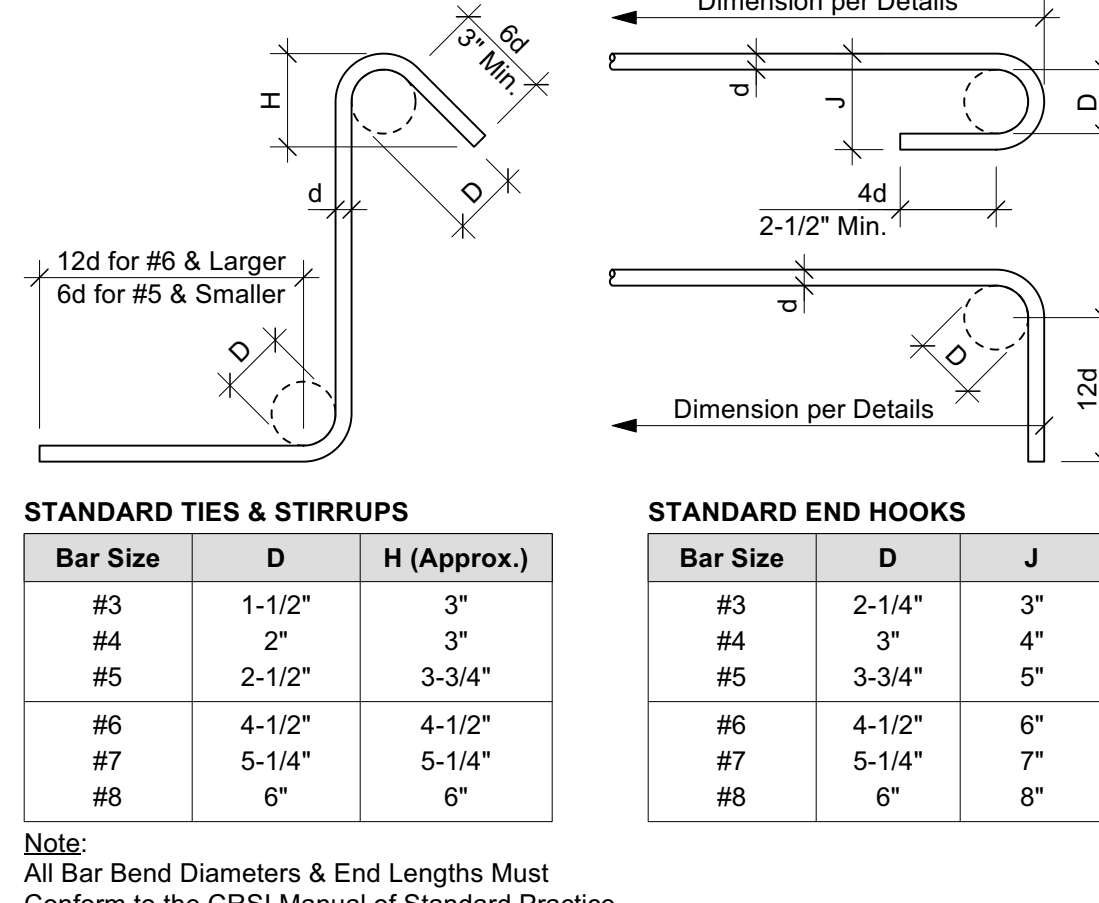
6 TYPICAL FLOOR / ROOF NAILING



4 TYPICAL CONCRETE SLAB JOINTS



1 TYPICAL REINFORCING BAR BENDS



ABBREVIATIONS

AB	Anchor Bolt	Mas.	Masonry
A&B	Above and Below	Max.	Maximum
Adv.	Above	MB	Machine Bolt
Adn.	Addition (al)	MF	Moment Frame
Adj.	Adjacent (adj)	Mfr.	Manufacturer(s)
Alt.	Alternate (ive)	Min.	Minimum, Minute
Appd.	Approved	Mod.	Modify(ly), (ication)
Arch.	Architect(ural)	Mtl.	Metal
Av.	Average	(N)	New
Bdry.	Boundary	N/A	Not Applicable
Blgd.	Building	Nat.	Natural
Blk(g).	Block (ing)	NTS	Not to Scale
Bm.	Beam	o/	Over
BN	Boundary Nailing	oc	On Center
B-O	Bottom of	OD	Outside Diameter
BO	By Others	Opng.	Opening
Bot.	Bottom	Opp.	Opposite
Brq.	Bearing	Opt.	Optional
Bwn.	Between	Para.	Parallel
BW	Both Ways	PCF	Lbs per Cubic Ft.
Cant.	Can't	Pen.	Penetrate, (tion)
CJP	Complete Joint	Perf.	Perforated
CJ	Ceiling Joint	Perim.	Perimeter
CJP	Complete Joint	Perp.	Perpendicular
CL	Center Line	PI	Panel Index
Clg.	Ceiling	PJP	Partial Joint Pen.
Clr.	Clear	PLF	Lbs per Linear Ft.
CMU	Conc. Masonry Unit	Ply.	Plywood
Col.	Column	Prep.	Prepare, (ation)
Com.	Common	Press.	Pressure
Comp.	Component	Proj.	Project
Conc.	Concrete	Prop.	Property
Conn.	Connection	PSF	Lbs per Square Ft.
Const.	Construction	PSI	Lbs per Square In.
Cont.	Continue (ous)	PT	Pressure-Treated
Cr.	Center	PV	Photovoltaic (Solar Panels)
d	Penny	R	Radius
Dbl.	Double	Rec(s)	Recommendation(s)
Defl.	Deflection	Rect.	Rectangular
Deg.	Degree	Ref.	Reference
Demo.	Demolish(ion)	Reinf.	Reinforce(d), (ment)(ing)
Dep.	Depress(ed)	Req(d)	Required(d)
DF	Douglas Fir	Reqs.	Requirements
Dia.	Diameter	Retain(ing)	Retain(ing)
Diaph.	Diaphragm	RJ	Roof Joint
Dim.	Dimension	RR	Roof Rafter
Dist.	Distance	RW	Redwood
DJ	Deck Joist	SAD	See Arch Dwg's
DL	Dead Load	Sched.	Schedule
Dwg.	Drawing	Sgl.	Single
(E)	Existing	Shtg.	Sheathing
Ea.	Each	Sim.	Similar
EF	Each Face	SIP	Str. Insulated Panel
EFP	Equivalent Fluid	SM	Sheet Metal
Elev.	Elevator, Elevation	SMS	Sheet Metal Screw
Embed.	Embed(ed), (ment)	SOG	Slab on Grade
Engr.	Engineer	Spec.	Specify(ed), (ations)
ENR	Engineer of Record	Sq.	Square
Eq.	Equal, Equivalent	Std.	Standard
ES	Each Side	Std.	Standard
EW	Each Way	Stgr.	Stagger(ed)
Exp.	Expand, Expansion	Stl.	Steel
Ext.	Exterior	Struc.	Structure, (al)
Fdn.	Foundation	SW	Shear Wall
FF	Finished Floor	Sym.	Symmet(ry), (rical)
Flr	Floor Joist	T&B	Top and Bottom
Flr(g)	Floor (ing)	Temp.	Temporary
FOC	Face of Concrete	Thk.	Thick(ness)
FOM	Face of Masonry	Thru	Through
FOS	Face of Studs	TN	Toe Nail
FOW	Face of Wall	TP	Top Plate
Frmg.	Framing	T-O	Top of
Ft.	Foot, Feet	TOB	Top of Beam
Fig.	Footing	TOC	Top of Concrete
Ga.	Gage, Gauge	TOG	Top of Grade
Galv.	Galvanized	TOM	Top of Masonry
GB	Grade Beam	TOS	Top of Steel
GC	General Contractor	TOW	Top of Wall
GLB	Gulam Beam	TRU	To Remain
Gyp.	Gypsum	Unch.	Unchanged
HD	Holdown	Trimr.	Trimmer Stud
Hdr.	Header	Typ.	Typical
Hdw.	Hardware	UNO	Unless Noted
Hgr.	Hanger	Vert.	Vertical
Hor(z)	Horizontal	VIF	Verify in Field
HT	Height	W/A	Verify with Arch
ID	Inside Diameter	w/	With
In.	Inches	w/o	Without
Insp.	Inspect(ion)	WS	Wood Screw
Int.	Interior	Wdw.	Window
Inv.	Invert, inverted	WT	Weight
Jst.	Joist	WWF	Welded Wire Fabric
K	Kips (1,000 pounds)	Yd.	Yard
KLF	Kips per Linear Ft.	@	At
King	King Stud	Ø	Diameter
KP	King Post	>	Greater Than
KSF	Kips per Square Ft.	<	Less Than
KSI	Kips per Square In.	#	Number, Pound(s)
LB(s).	Pound(s)	/	Per
LL	Live Load	%	Percent(age)
Loc.	Location	±	Plus or Minus
LW	Light Weight		

PROJECT INFORMATION

CLIENT:
Storke Road Investors, LP
& Storke Road GP, LLC
112 E. De La Guerra, Studio 8
Santa Barbara, CA 93101

ARCHITECT:
BBP Architecture
924 Anacapa St., Ste. 2U
Santa Barbara, CA 93101
(805) 564-6074

DESIGN PARAMETERS

GENERAL PARAMETERS

Building Code	2022 CBC*
Roof Loads	
Dead Loads (DL)	15 psf
Live Loads (LL)	16 psf
Floor Loads	
Dead Loads (DL)	24 psf
Live Loads (LL)	40 psf
Deck Loads	
Dead Loads (DL)	24 psf
Live Loads (LL)	60 psf

SOILS VALUES

Bearing Pressure	1500 psf
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WIND DESIGN BASIS

Ultimate Wind Speed, V_{ULT}	95 mph
Nominal Wind Speed, V_{ASD}	74 mph
Risk Category	II
Exposure	B

SEISMIC DESIGN BASIS

Seismic Design Category	E
Site Class	D
Seismic Factors	
S_S / S_1	2.349 / 0.826
S_{S1} / S_{D1}	1.879 / 0.936
Risk Category	II
Importance Factor, I_p	1.00
Resisting System: Wood Shear Walls	
Response Mod.	
Coefficient, R	6.5
Design Base Shear	$V = 0.289W$
Analysis Procedure: Eqv. Lateral Force	(ASCE 7-16, T. 12.6-1)

* The 2022 California Building Code (CBC), based on the 2021 International Building Code (IBC), is the governing code in the State of California.

SHEET INDEX

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S-1.2	Structural Specifications
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10		

PROJECT ENGINEER:
Rosa Portugal
(805) 962-9966 x202
rosa@ashleyvance.com

DATE: 10/30/25 SCALE: NTS
AV JOB: 250599 SHEET SIZE: 24"x36"

STRUCTURAL TITLE
SHEET

S-1.1

GENERAL NOTES

- The following notes, details, schedules & specifications shall apply to all phases of this project unless specifically noted otherwise. Notes and details on the structural plans shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.
- All drawings are considered to be part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies shall be brought to the attention of the Engineer prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any applicable code requirements shall be corrected by the Contractor at no expense to the Owner or Engineer.
- All information on existing conditions shown on the structural plans are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall be responsible for the verifications of all dimension and conditions at the site. Any discrepancies between actual site conditions and information shown on the drawings or in the specifications shall be brought to the attention of the EOR prior to the start of construction.
- Refer to the Architectural plans for the following:
 - Dimensions
 - Size and location of all interior and exterior wall locations.
 - Size and location of all floor, roof and wall openings
 - Size and location of all drains, slopes, depressions, steps, etc.
 - Specification of all finishes & waterproofing
 - All other non-structural elements
- Refer to the mechanical, electrical and plumbing plans for the following:
 - Size and location of all equipment
 - Pipe runs, sleeves, hangers and trenches
 - All other mechanical, electrical or plumbing related elements
- DO NOT** scale structural plans. Contractor shall use all written dimensions on Architectural plans.
- Construction materials shall be uniformly spread out if placed on floor or roof so as to not overload the framing. Load shall not exceed the design live load per square foot. It is the Contractor's responsibility to provide adequate shoring and/or bracing as required.
- Specifications and detailing of all waterproofing and drainage items, while sometimes shown on the structural plans for general information purposes only, are solely the design responsibility of others.
- The Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. It should be understood that the Contractor or his/her agent(s) shall supervise and direct all work and shall be solely and completely responsible for all construction means, methods, techniques, sequences, procedures and conditions on the job site, including safety of all persons and property during the entire period of construction. Periodic observations by the Engineer, his staff or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
- Modifications of the plans, notes, details and specifications shall not be permitted without prior approval from the Engineer.
- All workmanship shall conform to the best practice prevailing in the various trades performing the work. The Contractor shall be responsible for coordinating the work of all trades.
- It is the Contractor's responsibility to ensure that only approved structural plans are used during the course of construction. The use of unapproved documents shall be at the contractor's own risk. Corrections of all work based on such documents shall be performed at the Contractor's expense.
- These plans and specifications represent the structural design only. No information nor warranty is provided for the work of any other Consultant (Architect, Mechanical, Electrical, etc.). This includes, but is not limited to, waterproofing, drainage, ventilation, accessibility, or dimensions.

FOUNDATIONS

- Refer to Structural Design Parameters section on sheet S-1.1 for all soil design values used in calculations.
- Soils values per Table 1806.2 of the latest edition of the Governing Building Code.
- Unexpected Soil Conditions: At the discretion of the engineer of record, or the local building department, a soils report may be required in the event that substandard material is discovered on site. If this occurs, contact Engineer of Record for further guidance.
- All compaction, fill, backfilling and site preparation shall be performed in accordance with project soils report or the Governing Building Code Chapter 18 & Appendix J. All such work shall be performed under the supervision of the building official.
- Excavate to required depths & dimensions (as indicated in the drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbance of soils around high elevation.
- Foundations forms and excavations shall be clean and free of debris, achieving all minimum dimensions noted. Encroachment of soil at corners and reduced reinforcement clearances are not permitted.
- Excavate all foundations to required depths into compacted fill or natural soil (as per plans and details) and as verified by the building official.
- All foundations shall be inspected and approved by the appropriate building official prior to forming and placement of reinforcing or concrete.
- Foundations shall not be poured until all required reinforcing steel, framing hardware, sleeves, inserts, conduits, pipes, etc., and formwork is properly placed and inspected by the appropriate building official/inspector.
- It is the responsibility of the contractor in charge of framing to properly position all holdown bolts, anchor bolts, column bases, and all other cast-in-place hardware. Refer to typical details. All hardware to be secured prior to foundation inspections.
- The sides and bottoms of dry excavations must be moistened to optimum moisture content or just above, just prior to placing concrete. Conversely, de-water footings as required to remove standing water and to maintain optimum working conditions.
- The Contractor shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all federal, state and local safety ordinances. The Contractor shall provide for the design and installation of all cribbing, bracing and shoring required.

ROD AND REBAR EPOXY INSTALLATION

- Special inspection is required, unless specifically noted otherwise. Special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Epoxy for anchoring bolts, rods, and reinforcing bars shall be as follows:
 - Concrete: Hilti HIT RE 500 v3 (ICC ESR-3814), Hilti HY 200v3 (ICC ESR-4868), or Simpson SET-3G (ICC ESR-4057).
 - Full Grouted Masonry: Hilti HY 200v3 (ICC ESR-4878), or Hilti HY 270 (ICC 4143), or Simpson SET-3G (ICC ESR-4844).
 - Hollow Cell Masonry Units and Unreinforced Masonry: Hilti HY 270 (ICC 4144), or Simpson ET-HP (ICC ESR 3638).
- Anchors shall be installed in accordance with the manufacturer's printed installation instructions by qualified personnel trained to install epoxy anchors.
- Holes for post-installed anchors shall be drilled with a carbide tipped concrete/masonry drill bit using an electro-pneumatic hammer drill bit set in "rotation and hammer" mode. Hole diameter shall be 1/8" larger than the anchor diameter specified, unless noted otherwise. For installation in brick or hollow cell masonry units with a screen tube, the hole diameter shall be 1/4" larger than the anchor diameter, unless noted otherwise.
- DO NOT drill through existing reinforcing. A small diameter test hole shall be drilled at the installation location. If existing reinforcing is encountered, the installation location shall be relocated to avoid conflict and the abandoned hole shall be filled with non-shrink grout or drypack. For holes drilled into columns and beams, remove the rebar cover in order to positively identify the rebar location such that the holes avoid the rebar. Other non-destructive means may be used to identify the positions and depth of reinforcing.
- Holes shall be cleaned of dust and debris by blowing with 90 psi oil-free compressed air, brushing with a wire brush two times, and blowing with compressed air again to achieve a relatively dust-free wall surface.
- The base material shall be a minimum of 28 days old, within a temperature range of 50°F - 100°F, and dry at the time of epoxy installation. The base material shall have a minimum strength as follows:
 - Concrete: 2,500 psi
 - Full Grouted Masonry: 2,000 psi
- Fill each hole 1/2 - 2/3 full with epoxy, starting from the bottom of the hole to prevent air pockets. Withdraw the nozzle as the hole fills up with epoxy. Insert clean, oil-free anchor, turning slowly until the anchor contacts the bottom of the hole. DO NOT disturb anchor until fully cured. Cure time shall be per the manufacturer's installation instructions.

CONCRETE

- All portions of work pertaining to concrete construction shall conform to the Governing Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
- All concrete shall have:
 - an ultimate compressive strength (F_c) of 2,500 psi at 28 days, UNO.
 - a maximum slump of 57" at time of placement
 - a W/C ratio of 0.55 or less for all slabs, walls, and columns, and 0.60 or less for all foundations, UNO.
 - a normal dry-weight density, UNO.
 - In regions with freeze/thaw cycles, 5% air entrainment shall be included in concrete exposed to weather.
- Special inspection is NOT required. When required or specified, special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Testing of materials used in concrete construction must be performed as noted on structural plans or at the request of the Building Department to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency; such tests shall be made in accordance with the standards listed in the Governing Building Code, Table 1705.3. Copies of all test reports shall be provided to Engineer and Building Department for review in a timely manner.
- The Contractor shall remove and replace any concrete which fails to attain specified 28 day compressive strength if so directed by the Engineer. Any defects in the hardened concrete shall be repaired to the satisfaction of the Engineer and/or Architect or the hardened concrete shall be replaced at the Contractor's expense.
- All concrete shall be in accordance with ASTM C94. Placement of concrete shall be in accordance with ASTM C94 and ACI Standard 304.
- All cement shall be Portland Cement Type I or II and shall conform to ASTM C150. Where concrete is placed against soil that contains high levels of sulfides, use Type V cement.
- All aggregates shall conform to ASTM C33. Maximum aggregate sizes:
 - Footings: 1-1/2"
 - All other work: 3/4"
- Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
 - Permanently exposed to earth or weather
 - Cast against earth: 3"
 - Cast against forms: 2"
 - Not exposed to earth or weather
 - Slabs-on-grade, walls, joists: 3/4"
 - Beams, girders, columns: 1-1/2"
- The minimum lap splice length for all reinforcing steel shall be as noted in the typical details on sheet S-1.1. All lap splices shall be staggered.
- All reinforcing steel, anchor bolts, dowels, inserts, and any other hardware to be cast in concrete shall be well secured in position prior to foundation inspection. All hardware to be installed in accordance with respective manufacturer's specifications. Refer to architectural and structural plans for locations of embedded items.
- Locations of all construction joints, other than specified on the structural plans, shall be approved by the Architect and Engineer prior to forming. Construction joints shall be thoroughly air and water cleaned and roughened to 1/4" amplitude, UNO. All surfaces to receive fresh concrete shall be maintained continuously wet at least three (3) hours in advance of concrete placement.
- Control joints shall be provided in all concrete slabs-on-grade per typical detail on sheet S-1.1, UNO.
- The Architect, Engineer and appropriate inspectors shall be notified in a timely manner for a reinforcement inspection prior to the placement of any concrete.
- The Contractor shall obtain approval from the Architect and the Engineer prior to placing sleeves, pipes, ducts, chases, opening and or through structural concrete beams, walls, floors, and roof slabs unless specifically detailed or noted on the plans. All pipes or conduits passing through concrete members shall be sleeved with standard steel pipe sections.
- The Contractor is responsible for design, installation, maintenance and removal of all formwork. Forms shall be properly constructed, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed for concrete support. Joints in formwork shall be tightly fitted and blocked, and shall produce a finished concrete surface that is true and free from blemishes. Forms for exposed concrete shall be pre-approved by the Architect to ensure conformance with design intent.
- Remove formwork in accordance with the following schedule:
 - Forms & slab edge: 1 day
 - Side forms at footings: 2 days
 - All other vertical surfaces: 7 days
 - Beams, columns, girders: 15 days
 - Elevated slabs: 28 daysEngineer reserves the right to modify removal schedule above based on field observations, concrete conditions, and/or concrete test results.
- Retaining walls shall not be backfilled until concrete has set a minimum of 14 days. Refer to structural plans for slab and/or framing installation sequencing.
- All concrete (except slabs-on-grade #6 or less) shall be mechanically vibrated as it is placed to properly consolidate the concrete.
- Concrete shall be maintained in a moist condition and above 40 degrees fahrenheit for a min. of seven (7) days after placement unless otherwise accepted by EOR.
- Concrete shall not be permitted to free fall more than six (6) feet. For heights greater than six (6) feet, use tremie, pump or other method consistent with applicable standards.
- When specified ultimate compressive strength is greater than 2500 psi, Contractor shall submit mix designs to Architect and Engineer for approval seven (7) days prior to placement. Mix designs shall be prepared by an approved testing laboratory. Sufficient data must be provided for all admixtures.
- Refer to Architectural plans for locations of all dimensions, slab depressions, slopes, drains, curbs, and control joints.
- Provide continuous horizontal reinforcing through all wall intersections and corner. See details for additional information.
- Drypack or non-shrink grout shall have a minimum 28 day compressive strength of 7000 psi unless noted otherwise. Provide under base plates, etc., as required for full bearing. Grout shall be in conformance with ASTM C1107.
- Calcium chloride and concrete admixtures containing chloride salts shall not be used with steel pan decking.

REINFORCEMENT

- All portions of work pertaining to concrete reinforcing construction shall conform to the Governing Building Code, Chapter 19, ACI Standard 318, and other referenced documents.
- Fabrication, placement and installation of reinforcing steel shall conform to the Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice and the Governing Building Code.
- Reinforcing steel shall be deformed, clean, free of rust, grease or any other material likely to impair concrete bond.
- All bars shall conform to ASTM A615, Grade 60 minimum (UNO on structural plans). All welded wire fabric (WWF) shall conform to ASTM A185 (flat sheets only).
- Reinforcing steel that is to be welded shall conform to ASTM A706. All welding of reinforcement shall be subject to special inspection. Welding of reinforcement shall be with low hydrogen electrodes and shall conform to structural welding code - reinforcing steel, AWS D1.4, by the American Welding Society and ACI 318 Sec. 3.5.2. Welding rods used for the welding of reinforcing shall be E80XX. All welding shall be performed by certified welders. Contractor shall take necessary steps (standard dies, anchorage devices, etc.) to secure all reinforcing steel in their true position and prevent displacement during concrete placement.
- Shop drawings for fabrication of reinforcing steel shall be approved by the Contractor and submitted to the Architect and Engineer for review and approval prior to fabrication. Shop drawings are not required for slabs-on-grade or foundations unless specifically noted on the structural plans.
- Heating of reinforcing steel to aid in bending and shaping of bars is not permitted. All bends in reinforcing steel shall be made cold. All bend radii shall conform to CRSI Manual of Standard Practice. Reinforcing bars shall not be pre-bent without approval of EOR.
- Refer to Concrete and Masonry notes for specific minimum splice length and splice staggering requirements. Lap welded wire fabric (WWF) reinforcement a minimum of two (2) modules or 12", whichever is greater. All splices are to be staggered.
- (Special lateral systems) The following reinforcement shall comply with ASTM A706, Grade 60, UNO:
 - Reinforcement at intersections and ends of concrete walls enclosed in ties or stirrups.
 - Longitudinal moment frame reinforcement.
 - Ties and stirrups providing lateral support of longitudinal bars or concrete confinement in columns and walls shall be ASTM A706, Grade 80.

STRUCTURAL STEEL

- All structural steel and connections shall be fabricated and erected in accordance with the Governing Building Code, AISC specifications, Seismic Provisions Supplements No. 1 and 2, and Code of Standard Practice as amended to date.
- Steel fabrication shop drawings shall be submitted for review by the Architect and Engineer prior to fabrication of structural steel.
- Special Inspection: Refer to the schedule of special inspections for required inspections.
- Materials:
 - Wideflange (W) sections shall conform to ASTM A992 (F_y = 50 ksi).
 - Hollow Steel Sections (HSS) shall conform to ASTM A500 Gr. B (F_y = 46 ksi).
 - Structural Pipe sections shall conform to ASTM A53 Gr. B (F_y = 35 ksi).
 - STD indicates Standard Wall
 - Extra Strong indicates Extra Strong
 - DBL indicates Double Extra Strong
 - Welded headed studs shall conform to ASTM A29
 - All other material (plate, bars, threaded rods, etc.) shall conform to ASTM A36, UNO specifically.
 - All plate material specified in steel moment frame connections shall conform to ASTM A572 Gr. 50.
- Bolts:
 - All bolts shall be ASTM F3125 Grade A325-N, UNO specifically on the structural plans.
 - High strength bolts complying with ASTM F3125 Grades A325 and A490, when specified, shall require special inspection in accordance with the Governing Building Code, Section 1705.2.6.
 - All welded connections when specified (MB) shall conform with ASTM A307 unless specifically noted otherwise on the structural plans.
 - Bolt holes for bolt diameters less than 1" shall be 1/16" larger in diameter than nominal size of bolt used. Bolt holes for bolt diameters equal to or greater than 1" shall be 1/8" larger in size than the nominal size of bolt, unless noted otherwise.
 - All high-strength bolts shall be tightened to the AISC snug tight condition unless specified as slip-critical.
 - Slip-critical bolts shall have class "A" faying surfaces. Slip-critical joint assemblies shall be fully pre-tensioned by turn-of-nut tightening, tension control calibrated wrench tightening, twist-off bolts conforming to ASTM F3125 grade F1852, or by direct tension indicator tightening conforming to ASTM F959.
 - Anchor bolts shall be heavy hex headed, UNO. Bent bar anchors shall not be used.
- Welding:
 - All welding shall be performed using SMAW, GMAW or FCAW processes.
 - All welded connections to be in accordance with the latest edition of the AWS D1.1 and seismic supplement, AWS D1.8.
 - All welding shall be performed by certified welders. Project welding shall be performed in accordance with welding procedure specifications (WPS) submitted by the contractor and reviewed by the EOR and project welding inspector. The WPS shall be in accordance with the applicable laws.
 - All welding shall be performed with E70XX electrodes.
 - Weld lengths specified on the plans are the net effective length required. All weld lengths not specified shall be continuous.
 - All full penetration welds shall be ultra-sonic tested per AWS D1.1 and D1.8 requirements as applicable.
 - The filler metal for all welding shall have a notch toughness of net less than 20 ft-lbs at 0 degrees F, as measured by a standard Charpy V-Notch test, ASTM E-23, in accordance with the applicable filler metal specification referenced in AWS D1.1 and Seismic Supplement AWS D1.8.
- No holes other than those specifically detailed shall be allowed through structural steel members. Burning or torching of holes is not permitted under any circumstances.
- Any steel member interfacing with wood framing shall have 5/8" diameter studs welded at 24" oc for attachment of wood nailers, UNO on plan. Thru-bolting of nailers shall not be permitted unless specifically noted on the plans or details.
- All structural steel surfaces are to be painted or galvanized, UNO. Steel that is not exposed to weather and is to be encased in concrete or masonry may be left uncoated. Steel that is to receive spray-applied fireproofing shall be left uncoated. Areas within 3 inches of field welded joints shall be left uncoated until welding operations are completed. Provide hot dip galvanizing or 3" min. concrete cover around all structural steel below grade.
- All structural steel and miscellaneous metal exposed to weather shall be painted with Carbозinc 11 Zinc Primer or equivalent, 2-4 mils dry film thickness, unless noted otherwise. Refer to client for top coat requirements.
- Beams detailed without specified camber shall be fabricated so that after erection any minor camber due to rolling or shop assembly shall be upward. Top of all members shall be clearly identified.

FASTENERS

- Nails:
 - shall have with "common" nails unless noted otherwise.
 - shall not be driven closer than 1/2 their length nor closer than 1/4 of their length to the edge or end of a member, except for sheathing.
 - shall be installed in pre-drilled lead holes if necessary to avoid splitting.
 - shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper when in contact with preservative-treated wood.
- When used in exterior applications, nails shall have coating types and weights in accordance with the treated wood or bolt manufacturer's requirements. A min of ASTM A153, type G185 zinc-coated galvanized steel (or equiv.) shall be used.
- When used in an interior, dry environment in SBX/DOT or zinc borate preservative-treated wood, plain carbon nails shall be permitted.
- All nailing shall conform to the Governing Building Code, Table 2304.10.2.
- Lag screws:
 - shall be installed into pre-drilled lead holes. Lubricant (or soap) shall be used to facilitate installation and prevent damage to the screws.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A153, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
- Bolts to Wood Framing:
 - shall conform to ASTM A307, UNO specifically on plans and details.
 - shall be installed in pre-drilled holes a max of 1/16" larger than the specified bolt dia.
 - when installed against wood surfaces, shall have standard washers under the heads and nuts.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A153, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
- Anchor Bolts:
 - shall be installed at all exterior walls and all interior shear and/or bearing walls.
 - shall be 5/8" diameter with 3x3x0.229" steel plate washers at shearwalls.
 - shall be 5/8" diameter with 2x2x3/16" steel plate washers at non-shearwalls.
 - shall have 7" minimum embedment. (Contractor to coordinate length of bolts with sill plate thicknesses).
 - shall conform to ASTM F1554, Grade 36, UNO.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A153, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
 - shall not be spaced greater than 72" oc Refer to shearwall schedule for specific anchor bolt spacing requirements.
 - shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than 7 dia.), and a min. of two bolts per piece of sill plate is required.
 - shall have a minimum edge distance of 1-3/4".
- Powder Actuated Shot Pins:
 - shall be installed at all interior non-bearing, non-shearwalls.
 - shall be 0.157x3" with 1.5" diameter steel washers, UNO.
 - shall not be spaced greater than 32" o.c.

ROUGH CARPENTRY

- Refer to latest edition of the Governing Building Code, Table 2304.10.2. for all minimum nailing requirements.
- Refer to individual sections for applicable material specifications.
- Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, all members to have solid bearing without being shimmed, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use full lengths unless otherwise specified.
- Metal framing angles, anchor, clips, straps, ties, holdowns, etc. shall be manufactured by Simpson Strong-Tie Co. No substitutions shall be permitted without prior approval of the Engineer.
- All walls are to have continuous double 2x top plates spliced per Detail 7/S-1.1 unless specifically noted otherwise on the plans and details.
- Wall Studs:
 - Unless specifically noted on the plan and details, use the following guidelines for wall framing:
 - Use 2x4 studs at 16" oc for walls less than 9'-0" tall.
 - Walls 9'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" oc
 - Request specifically engineered wall details for walls greater than 16'-0" tall.
- Blocking:
 - Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over 8' high.
 - All foundation cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
 - Rim blocking/rim board to be 1-1/4" minimum width x full depth at bearing walls, UNO per plans and details. Refer to shearwall section for additional rim/blocking requirements.
- Nothing:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, notches shall not exceed 25% of the stud depth.
 - Non-bearing partition walls, notches shall not exceed 40% of the stud depth.
 - Successive notches in the same member shall be spaced a min of 18" apart.
- Boring:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, holes shall not exceed 40% of the stud depth.
 - Non-bearing partition walls, may be drilled not greater than 60% of stud depth.
 - Successive holes in the same member shall be spaced a minimum of 18" apart.
- Bearing:
 - Provide a min. of 1-1/2" of bearing for all 2x joists and hdsr 4x10 / 6x8 & smaller.
 - Provide a min. of 3" of bearing for all beams and hdsr 4x12 / 6x10 & larger, UNO on plans.
 - Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.
- Posts:
 - Posts inside walls shall bear on sill plates and shall be continuous between top and bottom plates, unless specifically noted otherwise.
 - Provide posts under all beams, girders or double joists equal to the width of the supported member.
 - Posts on upper levels are to be stacked on posts of equal size at levels below, unless a larger post is specified on the plans.
 - Vertically oriented blocking ("squash blocking") shall be used to fully transfer the post area through floors to foundation. Vertical blocking shall be equal to floor thickness plus 1/16".
 - Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.
 - Isolated posts shall be seated in Simpson post or column bases, unless noted otherwise on the plans
- Roof Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max.
 - Provide all cricket framing required to achieve positive drainage per Arch.
 - Install plywood panels with the face grain across the framing and close joints and nail at each support. Fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4" x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
 - Provide Simpson "PSCl" clips at all plywood joints perpendicular to framing. Provide clips midway between framing members at the unsupported edges of plywood when members are spaced at 24" oc or greater. If clips are not used, provide solid blocking for joints perpendicular to framing.
- Floor Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max. For floors framed with I joists, refer to the mfg's spec's for blk requirements.
 - Provide full depth solid 2x blocking between the joists under all walls and partitions where the wall or partition is perpendicular to the floor framing (including floors framed with I joists)
 - Install plywood sheathing with the face grain across supports, end supports staggered, and the edges of sheets centered over supports. If T&G plywood is used, blocking need not be provided at all plywood edges (UNO per plan). If T&G plywood is not used, blocking shall be provided at all plywood edges. Glue plywood to joists and fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4" x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
- Shear Walls:
 - Refer to plans for all shearwall locations, length type and nailing.
 - Refer to Shearwall Schedule on title sheet for additional information.
 - Shear wall lengths specified on plans are minimum required.
 - Shear walls to be nailed with common nails. All nails to have minimum 3/8" edge distance to panel or framing member.
 - Where 3x framing is required per the shear wall schedule, stagger edge nailing.
 - Oriented Strand Board (OSB) may be used in lieu of plywood.
 - Typical Rim Board/Blocking at Shearwalls shall be 1-3/4" Min. LSL (refer to Engineered Lumber Section for Material Specifications). Refer to Shearwall Schedule per Plan for Min. Rim/Blk Width Requirements per Transfer Fasteners.

TIMBER / LUMBER

- All structural lumber shall be Douglas Fir-Larch, S4S and shall conform to the Governing Building Code, section 2303.1.1.
- The minimum lumber grade of each member shall be as follows (unless specifically noted otherwise on plans and details):
 - 2x studs, blocking, plates: Stud
 - 2x joists #2 or better
 - 4x4, 4x6, or 6x6 beams or posts #2 or better
 - 4x8, 6x8, or larger beams or posts #1 or betterIt is recommended (but not required) that all exposed members be Select Structural or better and free of heart center due to visual characteristics.
- All lumber in contact with concrete or masonry shall be pressure treated Douglas Fir. Whenever it is necessary to cut, notch, bore or splice pressure treated material, all newly cut surfaces shall be thoroughly painted with the same preservative.
- Maximum moisture content for all structural members shall not exceed 19%.
- All plywood sheathing shall be CDX grade (or better) Douglas Fir with exterior glue. All sheathing shall conform to the Governing Building Code and grade-marked by the American Plywood Association (APA). Panel index to be 40/20 for floors and 24/0 for roofs unless specifically noted otherwise on the plans and details.

ENGINEERED LUMBER

- Glue-laminated Beams (GLB):
 - shall have the following properties:

Use	EWS Combination Symbol	Species/Grade	Flexural Stress, F _b (psi)	Modulus of Elasticity, E (ksi)	Horiz. Shear Stress, F _v (psi)	Comp. F _c para. (ksi)	Comp. F _c perp. (ksi)
Simple Span Bm	24F-V4	DF	+2,400/-1,850	1,800	265	1,650	650
Continuous or Cantilever Bm	24F-V8	DF	+/- 2,400	1,800	265	1,650	650
Columns	2	DF / L2	+/- 1,800	1,300	265	1,600	560
 - shall be notched, cut or drilled without prior approval from the Engineer
 - shall have exterior glue and weather-treatment prior to installation
 - shall be fabricated by an approved manufacturer & in accordance with ANSI A 190.1
 - shall have factory standard camber of 3,500-5,000 ft on beams UNO per Plan
- Laminated Veneer Lumber (LVL):
 - shall be 1-3/4" minimum thickness with the following minimum properties:
 - E = 2000 ksi
 - F_b = 2600 psi
 - F_v = 285 psi
 - F_c (parallel) = 2500 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 1500 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 8" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Laminated Strand Lumber (LSL):
 - shall be 1-3/4" minimum thickness with the following minimum properties:
 - E = 1550 ksi
 - F_b = 2325 psi
 - F_v = 310 psi
 - F_c (parallel) = 2170 psi
 - F_c (perp.) = 900 psi
 - F_t (parallel) = 1070 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 8" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Parallel Strand Lumber (PSL):
 - shall be 2-1/2" minimum thickness with the following minimum properties:
 - E = 2200 ksi
 - F_b = 2900 psi
 - F_v = 290 psi
 - F_c (parallel) = 2900 psi
 - F_c (perp.) = 625 psi
 - F_t (parallel) = 2300 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing shall not be spaced any closer than:
 - Narrow face: 16d @ 6" oc, 10d @ 4" oc, and 8d @ 3" oc
 - Wide Face: 16d @ 8" oc, and 10d & 8d @ 6" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Plywood Joists:
 - type and manufacturer shall be clearly noted on the plans. Substitutions shall not be permitted without prior approval of the Engineer.
 - shall be installed in accordance with applicable code approvals and mfg's spec's.
 - shall bear a minimum of 1-3/4" at all end supports, and 3-1/2" at intermediate supports. Provide full depth solid blocking at all bearing points.
 - shall be installed with intermediate blocking or bridging as specified by the Mfr. Only omt intermediate blocking when specifically approved by the Mfr.
 - shall not be cut, notched or drilled without specific written approval of the EOR.



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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



270 Storke Rd T.I.

270 Storke Rd
Goleta, CA 93117

REVISION:

△	11/13/2025	PLAN CHECK
△		
△		
△		
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PROJECT ENGINEER:
Rosa Portugal
(805) 962-9966 x202
rosa@ashleyvance.com

DATE: 10/30/25 SCALE: NTS
AV JOB: 250599 SHEET SIZE: 24"x36"

STRUCTURAL
SPECIFICATIONS

S-1.2

STATEMENT OF SPECIAL INSPECTIONS

1. This Statement of Special Inspection is submitted in fulfillment of the requirements of the Governing Building Code, section 1704 and 1705.
2. Special Inspections and Testings will be performed in accordance with the approved plans and specifications, this statement and the Governing Building Code, Section 1704 , 1705 , 1707 , and 1708.
3. The schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.
4. Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with the Governing Building Code Section 1704.2.4.
5. A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.2.4). The Final Report will document:

(a) Required special inspections.

(b) Correction of discrepancies noted in inspections.
6. The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in the Governing Building Code, Section 1704.2.
7. 1704.4 Contractor responsibility. Each contractor responsible for the construction of a main wind- or seismic force-resisting system, designated seismic system or a wind- or seismic force-resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspection.

SCHEDULE OF TESTING AGENCIES & SPECIAL INSPECTORS

The following are the testing agencies and special inspectors that will be retained to conduct tests and inspection on this project.

Responsibility	Firm	Address, Telephone, Email
1. Special Inspection (Except for Geotechnical)		
2. Materials Testing		
3. Geotechnical Inspection		
*		
* Additional inspections may be required at the discretion of the Building Official.		

SCHEDULE OF SPECIAL INSPECTIONS

Column Header Notation Used in Table:
C Indicates continuous inspection is required.
P Indicates periodic inspections are required. The notes and/or contract documents should clarify.

Box Entry Notation Used in Table:
X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
-- Denotes a one-time activity or one whose frequency is defined in some other manner.
Additional details regarding inspections are provided in the project specifications or notes on the drawings.

Verification & Inspection	C	P	Notes
1705.2 - Steel			
1. Material verification of high-strength bolts, nuts, and washers			
a. Identification markings to conform to ASTM standards specified in the approved construction documents			
b. Manufacturer's certificate of compliance required			
2. Inspection of high-strength bolting:			
a. Bearing-type connections			
b. Slip-critical connections			
3. Material verification of structural steel:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents	--	--	
b. Manufacturer's mill test reports	--	--	
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS designation listed in the WPS			
b. Manufacturer's certificate of compliance required			
5. Inspection of Welding: a. Structural Steel			
1) Complete and partial penetration groove welds			
2) Multi-pass fillet welds			
3) Single-pass fillet welds > 5/16"			
4) Single-pass fillet welds < 5/16"		X	
5) Floor and roof deck welds			
b. Reinforcing Steel			
1) Verification of weldability of reinforcing steel other than ASTM A706			
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls, and shear reinforcement			
3) Shear reinforcement			
4) Other reinforcing steel			
6. Inspection of steel frame joint details for compliance with approved construction documents (bracing & stiffening, member locations, application of joint details at each connection, etc.)			
7. Welded studs when used for structural diaphragms			
8. Welding of cold formed sheet steel framing members			
9. Welding of stairs and railing systems		X	
1705.3 - Concrete			
4. Inspect anchors post-installed in hardened concrete			
a. Adhesive anchors ¹ installed in horizontally or upwardly inclined orientations to resist sustained tension			
b. Mechanical anchors ² and adhesive anchors ¹ not defined in 4.a		X	
FOOTNOTES: 1. Prior to epoxy placement, it must be verified that the hole is clean, dry, and free of loose debris 2. Periodic inspection shall take place such that the installation of a minimum of two (2) anchors per each shear wall are observed			



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ENGINEER OF RECORD:



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270 Storke Rd
Goleta, CA 93117

REVISION:

1	11/13/2025	PLAN CHECK
2		
3		
4		
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6		
7		
8		
9		

PROJECT ENGINEER: Rosa Portugal (805) 962-9966 x202 rosa@ashleyvance.com	
DATE: 10/30/25	SCALE: NTS
AV JOB: 250599	SHEET SIZE: 24"x36"

SPECIAL
INSPECTIONS

S-1.3



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ENGINEER OF RECORD:



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REVISION:

1	11/13/2025	PLAN CHECK

PROJECT ENGINEER:
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(805) 962-9966 x202
rosa@ashleyvance.com

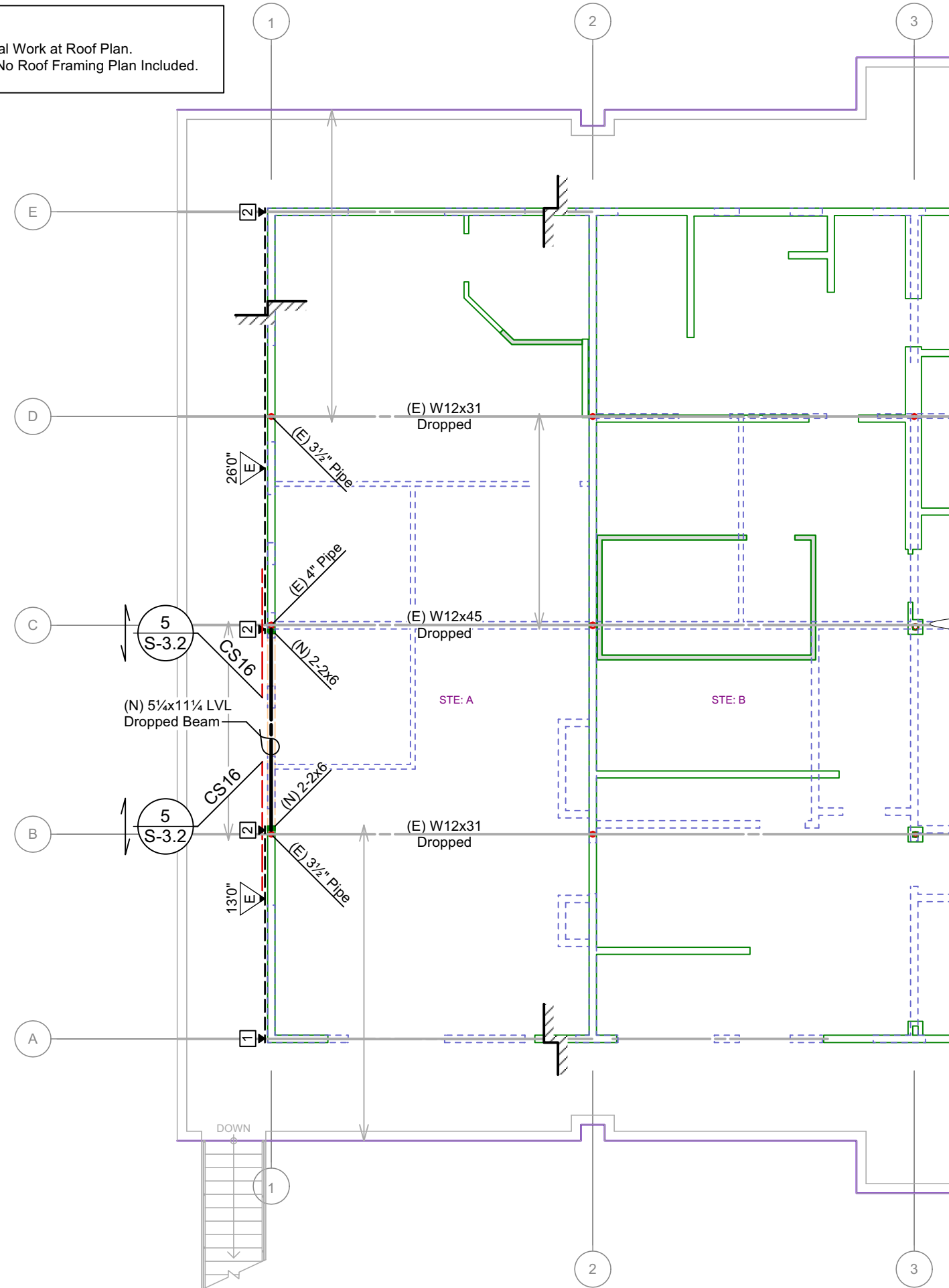
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AV JOB: 250599 SHEET SIZE: 24"x36"

STRUCTURAL
PLANS

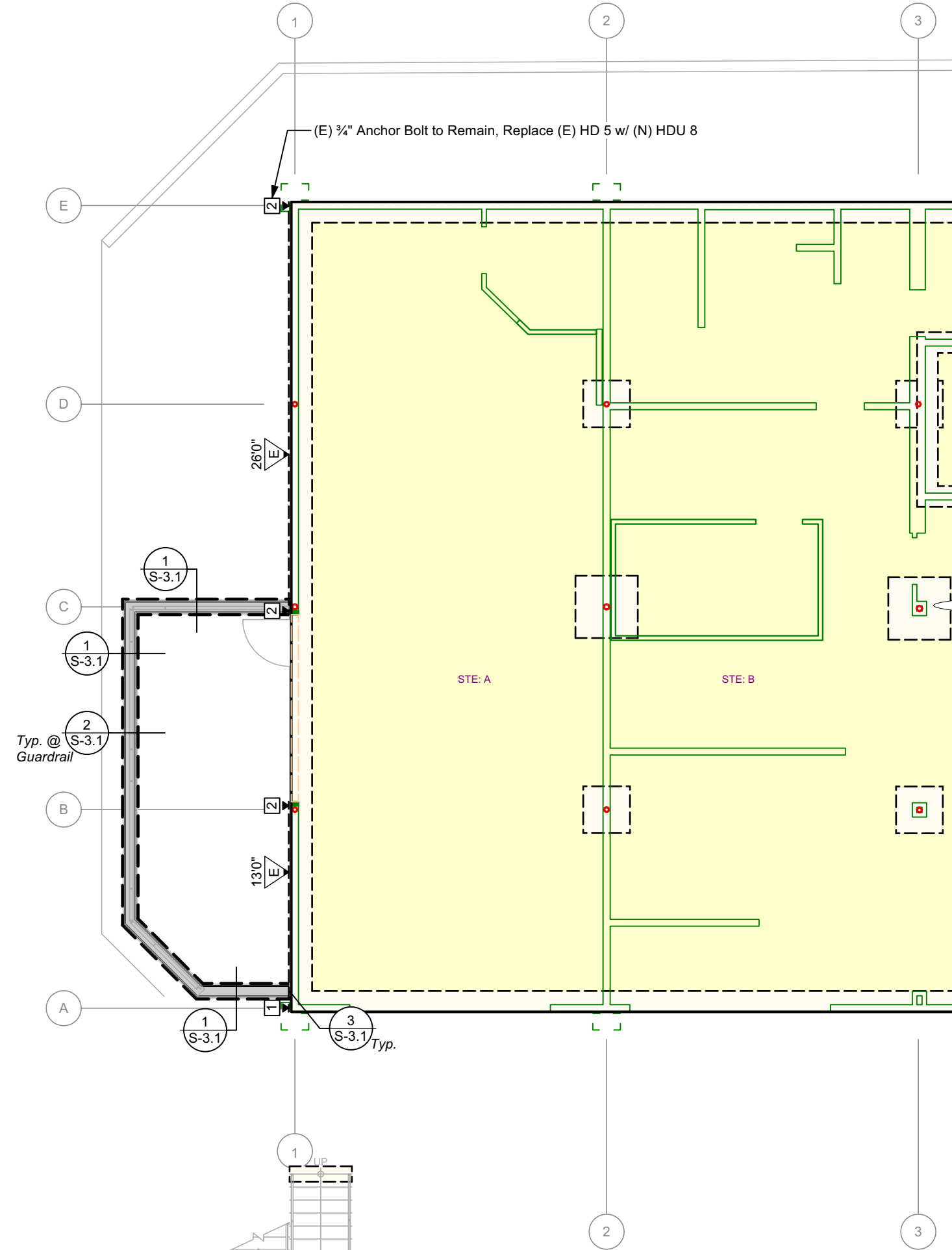
S-2.1

DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.

NOTE:
No Structural Work at Roof Plan.
Therefore, No Roof Framing Plan Included.



FLOOR FRMG. PLAN



FOUNDATION PLAN

GENERAL FRAMING NOTES

(N) Beam (per Call-out)
(E) Beam (to Remain)

All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO
All Lumber 4x8, 6x8 and Larger to be DF #1 UNO
All Beams to Bear on Plates w/ Indicated Post or Doubler Below UNO
All Hangers Shall be Installed w/ Max. Nailing per Mfr. & Sized for Full Width & Depth of Supported Members, UNO
All Framing (to Remain)
(E) Floor Framing (to Remain)

Denotes Step in Framing.
Step Ht. & Extent per Arch.

Waterproofing, flashing, & finish details per Architecturals.

See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.
Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.

GENERAL FOUNDATION NOTES

Foundations per Governing Building Code, Table 1806.2
At the request of the client (or client's agent), Ashley & Vance Engineering has designed the foundations in conformance with Table 1806.2. If the building official determines that expansive soils are present, or other geologic issues of concern, then they may require that special provisions be made to the foundation design to safeguard against damage due to the expansiveness or due to other geologic issues. If this becomes the situation, all foundation construction must be halted and the client, at their own expense, shall: (a) obtain a soils report prepared by a Soils Engineer licensed in the state of the project; (b) commission Ashley & Vance Engineering to revise the foundation plans and details, and framing plans if necessary, to reflect the recommendations of the soils report; (c) submit the revised plans to the Building Department for approval.

See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.
Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.

(E) Foundation to Remain
(E) Slab-on-Grade to Remain
(N) Foundation per Details
12" Wide x 21" Embedment w/ (2) #4 Cont. (UNO)
Wood Framed Wall Above (See Floor Frmg. Plan)

HOLDOWN SCHEDULE

TYPE	HOLDOWN ¹	MIN. POST	ANCHOR / EMBEDMENT	DETAILS
1	(E) HD to Remain			(N) HD at (E) Fig.: 4/S-3.1
2	HDU8	4x	7/8" ATR / 12" Min.	

FOOTNOTES:
1. Shared holdowns to be installed per detail 10/S-1.1, Typical Shearwall Intersections. (UNO)

EXISTING BUILDING NOTES

All As-Built Structural Information
Taken From Archived Plans by Robert
Drucker Architect, Dated 05/24/1977.

SHEARWALL SCHEDULE

NO.	MATERIALS	DBL. SIDED	SILL PLATE	PANEL B'DRY	SIZE	SPC'G	1/2"Ø ³ AB	SDS ⁴ Screw	SDWS ⁵ Screw	A35, LTP4 ^{6,8} or LTP5	RBC	16d ⁹
1	(E) SW to Remain	--	--	--	--	--	--	--	--	--	--	--

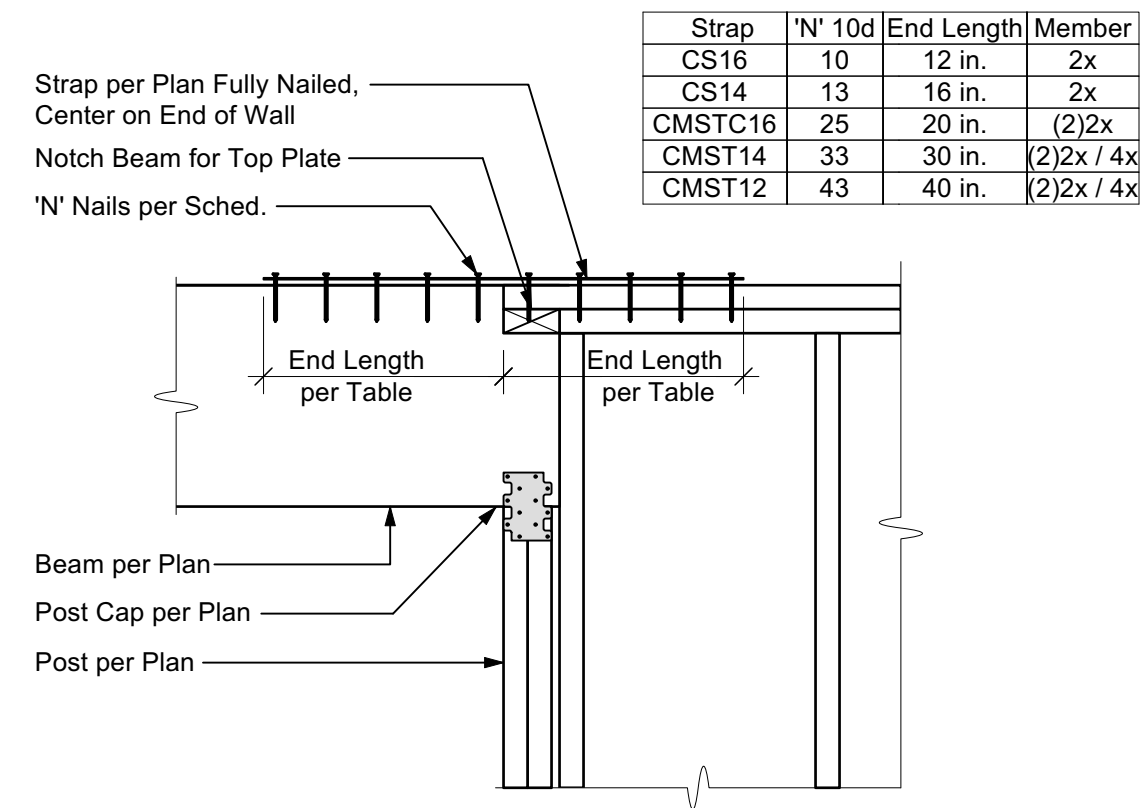
FOOTNOTES:
1. All nails to be COMMONS. DO NOT use box type nails. All "field" nailing to be 12" oc, UNO. Penetration shall be 1-1/2" Min. in framing.
2. All transfers to be installed into min. 1-1/2" thick members, UNO. Where clips are spaced less than 6" oc, stagger clips on each side of wall.
3. All shear walls to have 1/2" anchor bolts, embedded 7" into concrete foundations, with 3"x3"x0.225" thick plate washers, minimum. Washers may be slotted (slot length not to exceed 1-3/4") w/ standard cut washer placed between nut and plate washer. Washers shall extend within 1/2" of the edge of the bottom plate on the sheathed side. At walls sheathed on 2 sides, plate washers shall be alternated to each side of plate. (Governing Building Code, Section 2308.3.1) [AF&PA SDPWS 4.3.6.4.3]
4. Simpson SDS 1/4"x2" Screws through 2x sill, or SDS 1/4"x2" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). (ICC ESR 2236)
5. Simpson SDWS (Exterior Grade) 0.22"x6" Screws through 2x sill, or SDWS (Exterior Grade) 0.22"x8" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). (ICC ESR 2236)
6. See details for permitted transfer clip types and locations.
7. Where LTP4 clips are installed over shear wall sheathing, fasten with full length 8d common nails.
8. 16d common nails through the sill plate to rim member or blocking. DO NOT use w/ LVL or LSL Rims.
9. Install screws into 3-1/2" wide continuous member, staggered 1-1/2" apart.

17 NOT USED

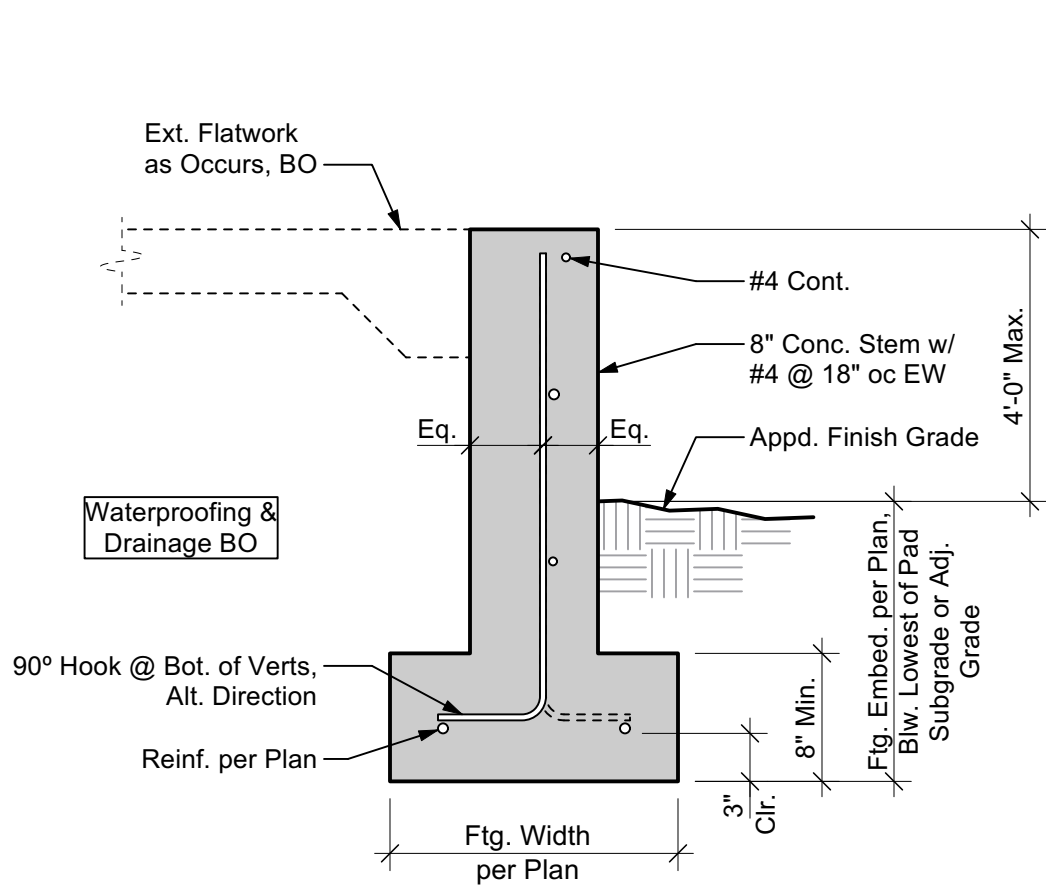
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9 NOT USED

5 DRAG STRAP TO BEAM POCKET



1 EXT. DECK FOUNDATION WALL



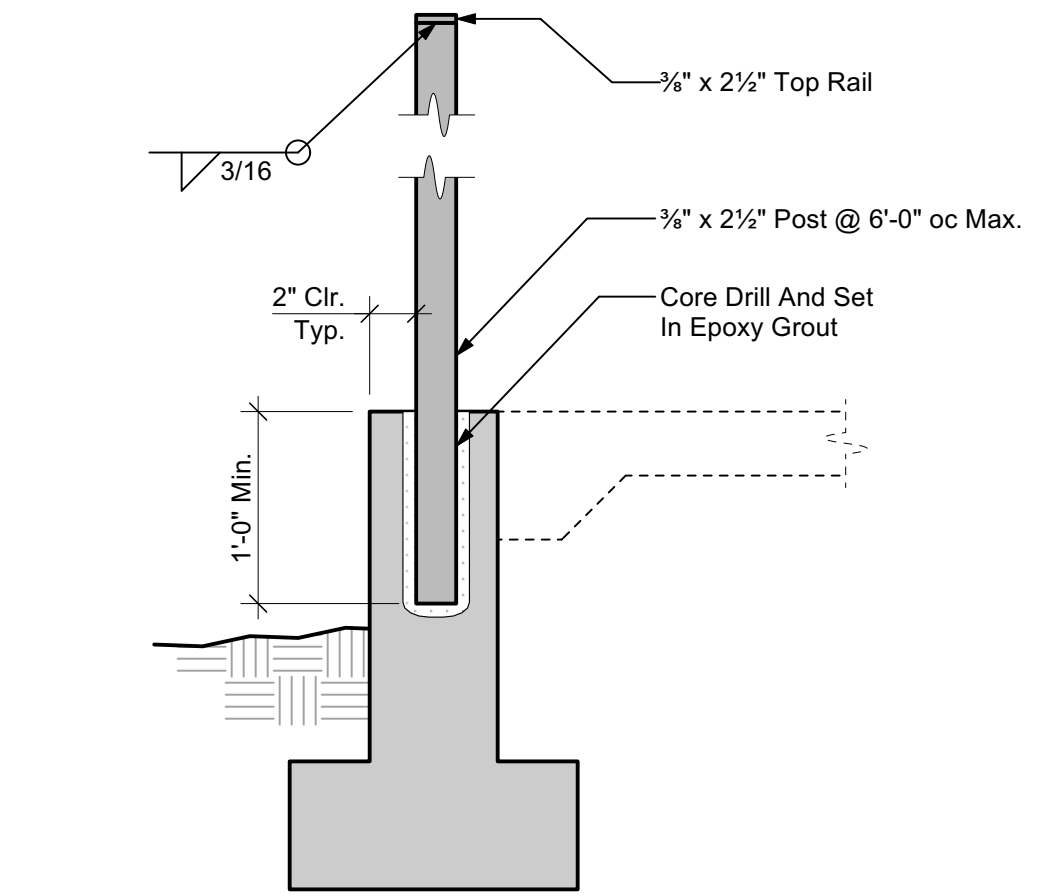
18 NOT USED

14 NOT USED

10 NOT USED

6 NOT USED

2 GUARDRAIL CONNECTION



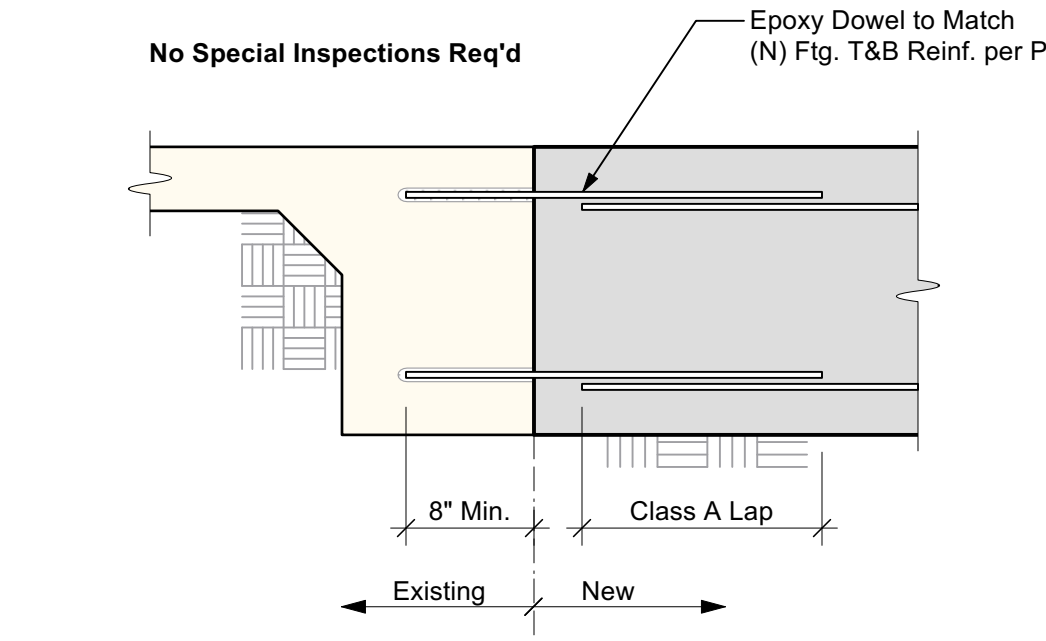
19 NOT USED

15 NOT USED

11 NOT USED

7 NOT USED

3 NEW FDN. TO EXISTING FDN.



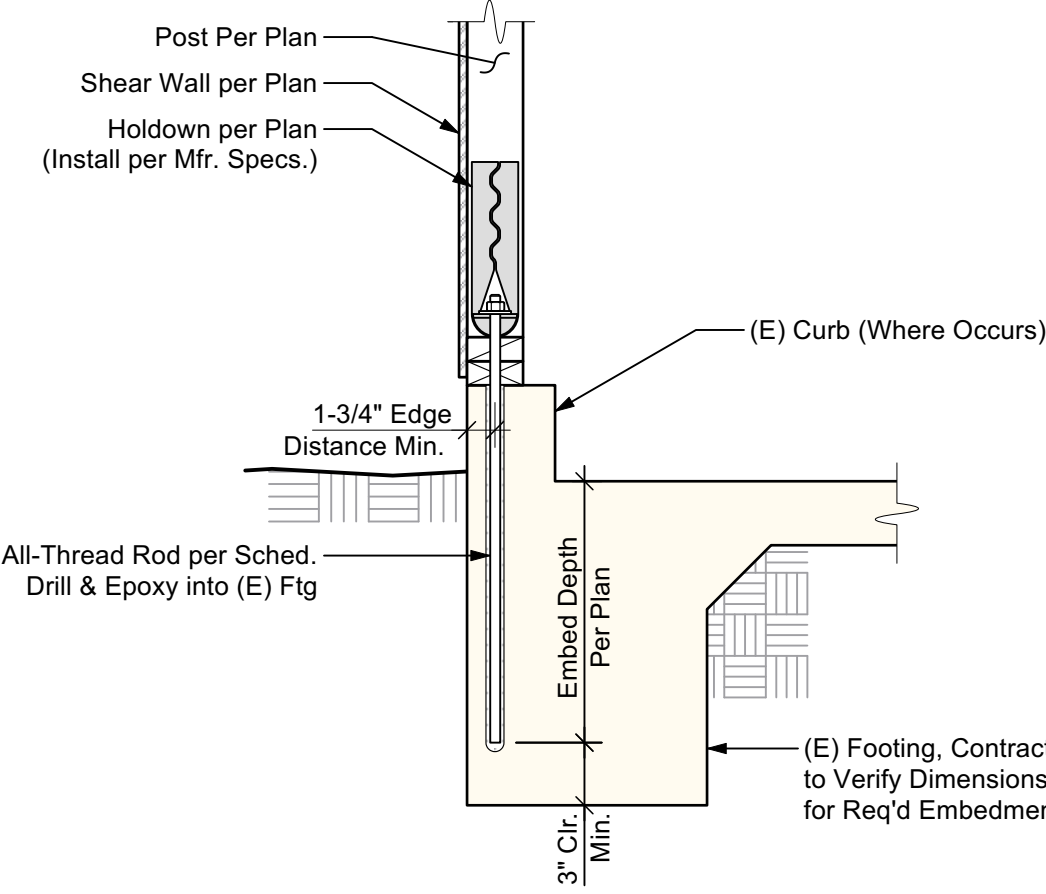
20 NOT USED

16 NOT USED

12 NOT USED

8 NOT USED

4 HOLDOWN AT EXISTING FOOTING



1	11/13/2025	PLAN CHECK