STANFORD MEDICINE SUTTER HEALTH CANCER CENTER

3023 Summit St, Oakland, CA 94609

Stanford Medicine Sutter Health Cancer Collaborative

2200 River Plaza Drive,
Sacramento, CA 95833

SMITHGROUP

301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
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smithgroup.com

ISSUED FOR:
FINAL DEVELOPMENT PERMIT

ISSUE DATE:
09 DECEMBER 2022

13718.000

Plot Date: 5/9/2023 10:49:52 AM

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PROJECT GENERAL NOTES

THE FOLLOWING PROJECT GENERAL NOTES APPLY TO THE ENTIRE DRAWING SET AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE, UNLESS OTHERWISE NOTED:

1. THE DRAWING SET AND SPECIFICATIONS (PROJECT MANUAL) ARE COMPLEMENTARY AND ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.
2. THE DRAWING SET CONSISTS OF ALL SHEETS LISTED BY THE SHEET INDEX. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE. AS SUCH, DO NOT DISTRIBUTE OR UTILIZE PARTIAL DRAWINGS SETS.
3. COLUMN GRID LINES IDENTIFIED BY A LETTER DESIGNATION ARE PARALLEL, UNLESS OTHERWISE NOTED. COLUMN GRID LINES IDENTIFIED BY A NUMBER DESIGNATION ARE PARALLEL AND ARE PERPENDICULAR TO THOSE WITH LETTER DESIGNATIONS, UNLESS OTHERWISE NOTED.
4. DISCIPLINE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE TO EACH DISCIPLINE'S DRAWINGS MAY BE FOUND AT THE FRONT OF EACH DISCIPLINE'S PORTION OF THE DRAWING SET AND ARE LISTED IN THE SHEET INDEX.
5. UNLESS INDICATED OTHERWISE, THE 'ARCHITECTURAL' SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES.
6. THE DRAWINGS MAY MAKE REFERENCE TO OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE "NOT IN CONTRACT" ITEMS AS INDICATED ARE REFERENCED OR ILLUSTRATED FOR THE CONTRACTOR'S REFERENCE, INFORMATION AND COORDINATION ONLY.
7. ALL PARTS OF THE WORK, INCLUDING BUT NOT LIMITED TO MATERIALS, METHODS, OR ASSEMBLIES, MUST COMPLY WITH THE REQUIREMENTS OF THE GOVERNING CODES AND REGULATIONS OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR ALLOW WORK CONTRARY TO A GOVERNING CODE OR REGULATION.
8. IDENTIFY AND NOTIFY THE ARCHITECT OF CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND OWNER.
9. REVIEW AND COORDINATE THE WORK OF ALL OTHER PARTIES PERFORMING WORK AT THE PROJECT, INCLUDING BUT NOT LIMITED TO, DELEGATED DESIGN ENTITIES, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.

PROJECT SUSTAINABILITY STATEMENT

THIS PROJECT IS REGISTERED UNDER THE LEED ® GREEN BUILDING PROGRAM ADMINISTERED BY THE GREEN BUILDING CERTIFICATION INSTITUTE (GBCI). THE PROJECT MANUAL SECTION TITLED "SUSTAINABLE DESIGN REQUIREMENTS" OUTLINES THE SPECIFIC CRITERIA TO BE ACHIEVED IN THIS PROJECT TO OBTAIN LEED SILVER CERTIFICATION BASED ON GBCI's LEED FOR HEALTHCARE V4.0.

SmithGroup is a member in good standing of the USGBC

PROJECT DESCRIPTION

THE SCOPE OF WORK INCLUDE THE DEMOLITION OF TWO EXISTING BUILDINGS (3023 & 3043 SUMMIT), ONE SURFACE PARKING LOT IN PREPARATION OF THE NEW STANFORD MEDICINE SUTTER HEALTH CANCER CENTER. ADDITIONAL DEFOLIATION OF EXISTING LANDSCAPE AND ROADWAY ON THE WEST SIDE OF THE LOT WILL MAKE ROOM FOR TEMPORARY CONSTRUCTION STAGING AREA AND A FINAL LANDSCAPE PLAZA AND A NEW ROADWAY CONNECTING TO THE SUMMIT GARAGE. THE EXISTING KNOCK OUT PANELS ON THE WEST SIDE OF THE SUMMIT GARAGE WILL E REMOVED TO PROVIDE A NEW ENTRANCE FROM 30TH STREET.

VICINITY MAP

PROJECT TEAM

OWNER / CLIENT:
East Bay Real Estate Venture Board
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MED EQ / LOW VOLTAGE CONSULTANT:
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CONSULTANT:
NAME
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CITY / STATE / ZIP CODE
T:
F:
WEBSITE:

CONSULTANT:
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CITY / STATE / ZIP CODE
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F:
WEBSITE:

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

GENERAL PROJECT INFORMATION & SHEET INDEX - DEVELOPMENT APPLICATION

PROJECT NUMBER 13718.000

SHEET NUMBER **G0.9**

BADR

Plot Date: 12/9/2022 9:59:24 AM

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

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

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. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
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 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

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

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

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

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

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

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 Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

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

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/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 or staff parking area and shall meet one of the following:

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

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
25-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL[1]

1.Calculation for spaces shall be rounded up to the nearest whole number.

Note: Designated parking for clean air vehicles shall count towards the total parking spaces required by the local enforcing agencies.

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) 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 charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. 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.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Note: Future electric vehicle charging spaces shall count towards the total parking spaces required by the local enforcing agencies.

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

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

Exceptions: [N]

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

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

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

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

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

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: 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 points(s) on the property lines to determine the required backlight rating.

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

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

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

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be 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.

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

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

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

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

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

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

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

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

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

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

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

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

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

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.

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.

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.*

Stanford MEDICINE
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CANCER COLLABORATIVE

Stanford Medicine
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smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
CAL GREEN CHECKLIST

13718.000
PROJECT NUMBER

G1.5
SHEET NUMBER

Plot Date: 12/8/2022 9:14:36 AM _BADR

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

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

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. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 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 than1.8 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 value
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 VALUES 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, 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.

SECTION 5.304 OUTDOOR WATER USE

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.

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Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
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 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) 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.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, 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.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

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

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SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

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

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

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:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located 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.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for 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:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

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 *Public Resources Code*. 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.

ARCHI-TECTURE AND

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 y 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. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be 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 *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)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 guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^{0} 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 *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, 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 hundreths of a gram (g O^{3}/g ROC).

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, guage.

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.

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.

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MECHANI CAL

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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

Plot Date: 12/8/2022 9:14:40 AM BADR

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP

301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
CAL GREEN CHECKLIST

PROJECT NUMBER
13718.000

SHEET NUMBER
G1.6

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

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

Y | N/A | RESPON. PARTY

☒ | ☐ | ARCHT-ECTURE

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

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

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

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 *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

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

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

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

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

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

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (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.

Y | N/A | RESPON. PARTY

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Y | N/A | RESPON. PARTY

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

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

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

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

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

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

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

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

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

SECTION 5.505 INDOOR MOISTURE CONTROL

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

SECTION 5.506 INDOOR AIR QUALITY

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

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

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

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

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

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

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 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).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

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

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

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

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

SECTION 5.508 OUTDOOR AIR QUALITY

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

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

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

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

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

Y | N/A | RESPON. PARTY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

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

Notes:

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

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

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

703 VERIFICATIONS

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

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

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SHEET TITLE
CAL GREEN CHECKLIST

13718.000
PROJECT NUMBER

G1.7
SHEET NUMBER

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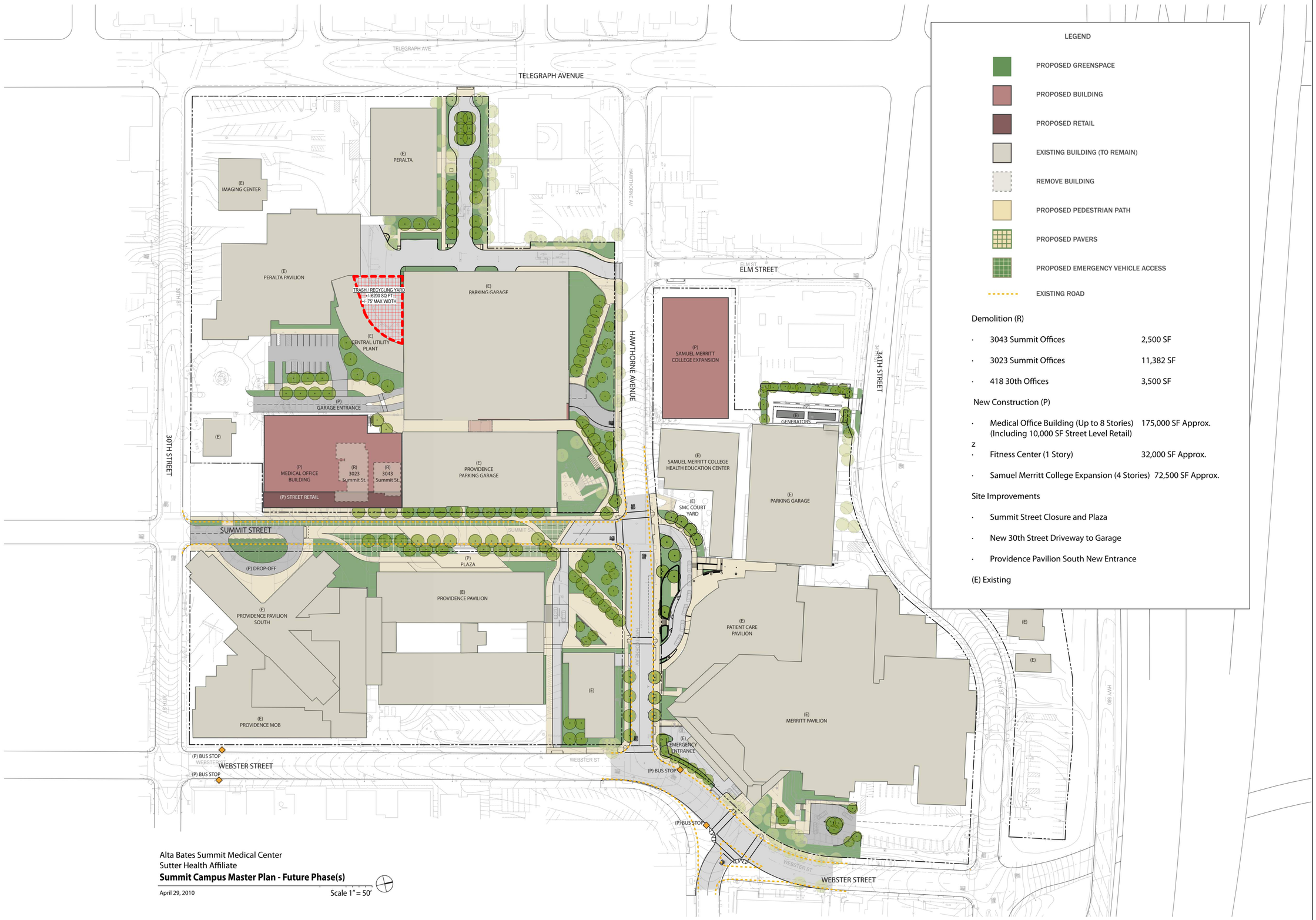

LEGEND

- PROPOSED GREENSPACE
- PROPOSED BUILDING
- PROPOSED RETAIL
- EXISTING BUILDING (TO REMAIN)
- REMOVE BUILDING
- PROPOSED PEDESTRIAN PATH
- PROPOSED PAVERS
- PROPOSED EMERGENCY VEHICLE ACCESS
- EXISTING ROAD

Demolition (R)

- 3043 Summit Offices 2,500 SF
- 3023 Summit Offices 11,382 SF
- 418 30th Offices 3,500 SF

New Construction (P)

- Medical Office Building (Up to 8 Stories) (Including 10,000 SF Street Level Retail) 175,000 SF Approx.
- Fitness Center (1 Story) 32,000 SF Approx.
- Samuel Merritt College Expansion (4 Stories) 72,500 SF Approx.

Site Improvements

- Summit Street Closure and Plaza
- New 30th Street Driveway to Garage
- Providence Pavilion South New Entrance

(E) Existing

Alta Bates Summit Medical Center
Sutter Health Affiliate
Summit Campus Master Plan - Future Phase(s)
April 29, 2010 Scale 1" = 50'

NOT TO SCALE

Plot Date: 12/8/2022 9:14:51 AM _BADR

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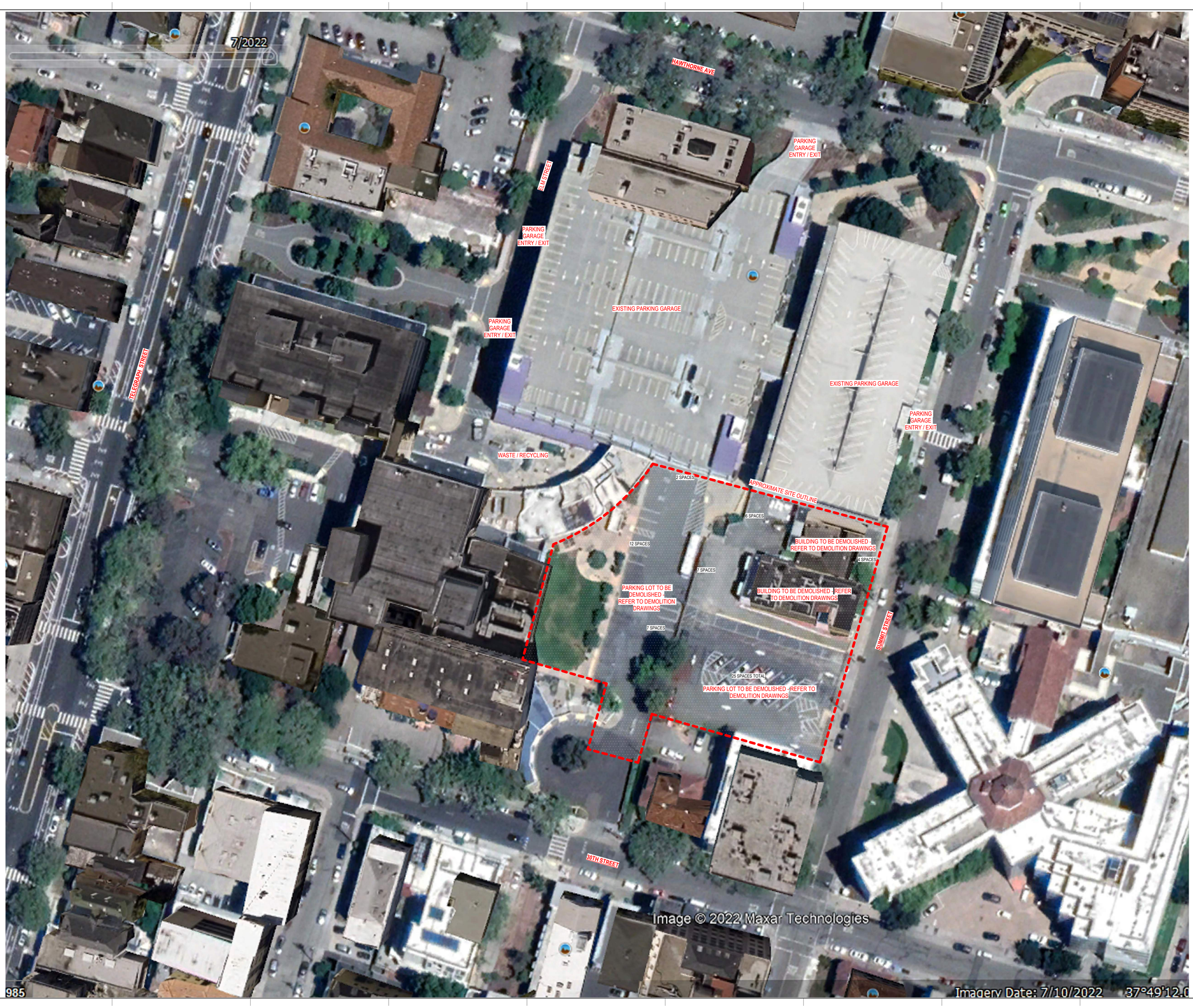
SHEET TITLE
2010 CAMPUS MASTER PLAN

13718.000
PROJECT NUMBER

G1.10
SHEET NUMBER



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SHEET TITLE

AERIAL PHOTOGRAPH - EXISTING SITE

13718.000
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G1.11
SHEET NUMBER

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AERIAL PHOTOGRAPH - EXISTING SITE

PROJECT NUMBER 13718.000

SHEET NUMBER **G1.12**

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PROJECT NUMBER 13718.000

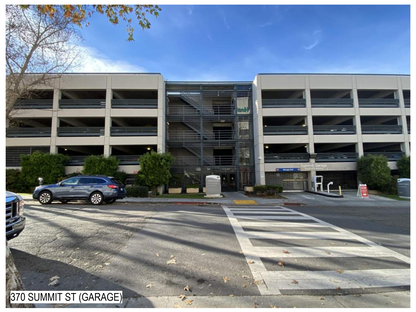
SHEET NUMBER **G1.13**

Plot Date: 12/8/2022 9:15:03 AM BAOR

370 SUMMIT ST (SIDE)

370 SUMMIT ST (SIDE)

370 SUMMIT ST (GARAGE)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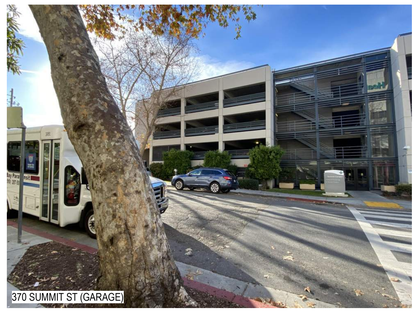
370 SUMMIT ST (GARAGE)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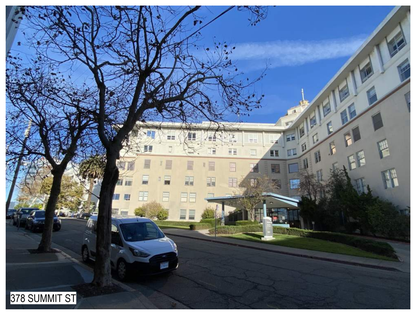
370 SUMMIT ST (FRONT)

370 SUMMIT ST (FRONT)

400 SUMMIT ST

400 SUMMIT ST

378 SUMMIT ST


378 SUMMIT ST

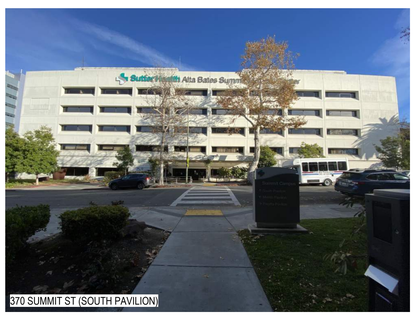
378 SUMMIT ST

370 SUMMIT ST (SIDE)

378 SUMMIT ST

370 SUMMIT ST (SOUTH PAVILION)

370 SUMMIT ST (SOUTH PAVILION)


370 SUMMIT ST (SOUTH PAVILION)

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SHEET TITLE
PHOTOGRAPHS

PROJECT NUMBER
13718.000

SHEET NUMBER
G1.14

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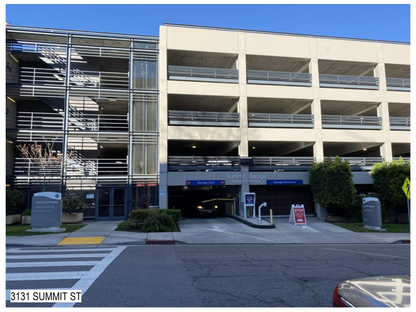

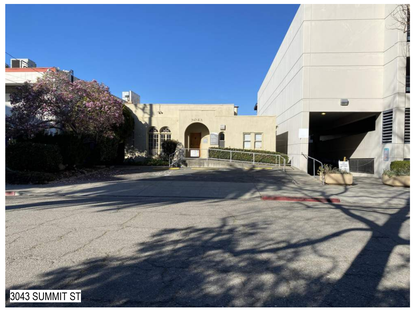

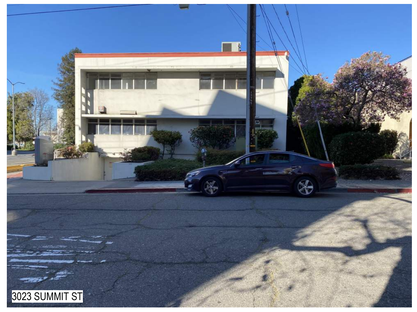

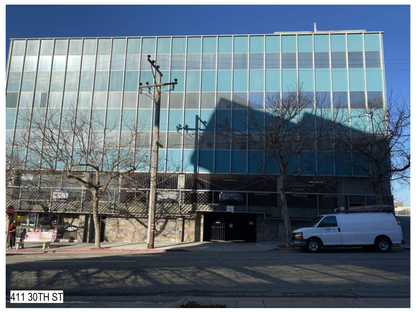

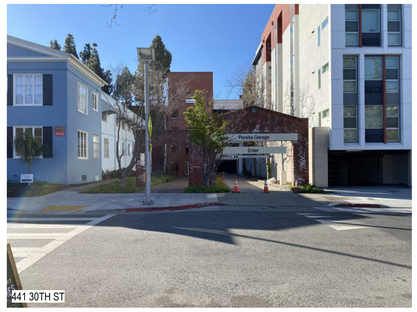

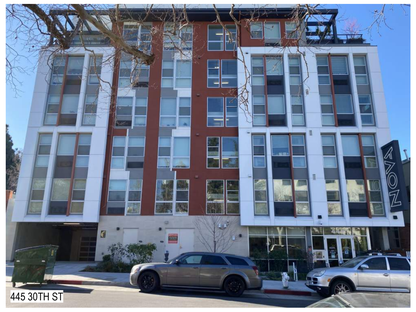

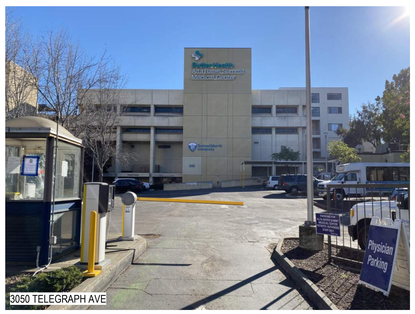

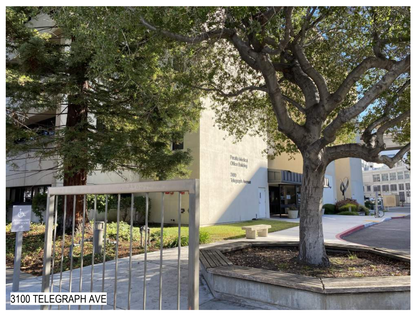

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SHEET TITLE

PHOTOGRAPHS

13718.000
PROJECT NUMBER

G1.15
SHEET NUMBER

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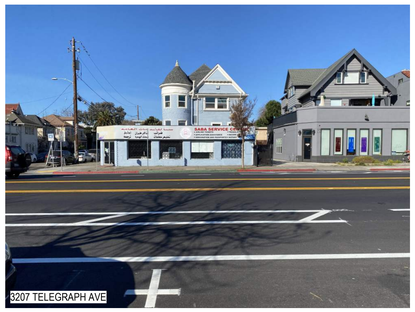
3137 TELEGRAPH AVE

3147 TELEGRAPH AVE

3200 TELEGRAPH AVE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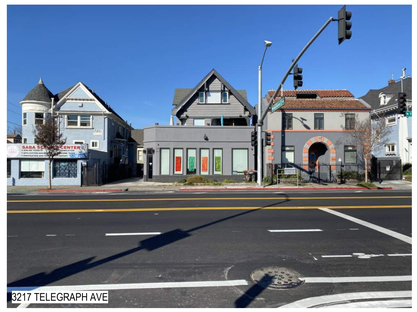
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3223 TELEGRAPH AVE

494 HAWTHORNE AVE

3229 ELM ST

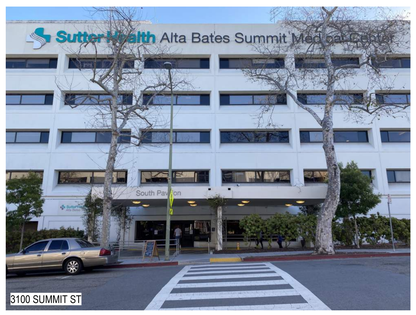
3232 ELM ST

3131 SUMMIT ST

400 HAWTHORNE AVE

350 HAWTHORNE AVE

350 HAWTHORNE AVE GARAGE



3100 SUMMIT ST

3012 SUMMIT ST

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PROJECT NUMBER

G1.16

SHEET NUMBER

Plot Date: 12/8/2022 9:15:45 AM _BADR

LEED v4.0/4.1 BD+C: Healthcare

Project Checklist

Project Name: Standford Medical Sutter Health Cancer Center
Date:

Y	?	N			
Y			Prereq	Integrative Project Planning and Design	Required
			Credit	Integrative Process	1

5	1	1	**Location and Transportation**	9
		0	Credit	LEED for Neighborhood Development Location	9
1		0	Credit	Sensitive Land Protection	1
		0	Credit	High Priority Site and Equitable Development	2
1			Credit	Surrounding Density and Diverse Uses	1
2			Credit	Access to Quality Transit	2
	1		Credit	Bicycle Facilities	1
1			Credit	Reduced Parking Footprint	1
		1	Credit	Electric Vehicles	1

5	0	4	**Sustainable Sites**	9
Y			Prereq	Construction Activity Pollution Prevention	Required
Y			Prereq	Environmental Site Assessment	Required
1			Credit	Site Assessment	1
		1	Credit	Protect or Restore Habitat	1
		1	Credit	Open Space	1
2			Credit	Rainwater Management	2
1			Credit	Heat Island Reduction	1
1			Credit	Light Pollution Reduction	1
		1	Credit	Places of Respite	1
		1	Credit	Direct Exterior Access	1

4	1	6	**Water Efficiency**	11
Y			Prereq	Outdoor Water Use Reduction (check with landscape)	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
1			Credit	Outdoor Water Use Reduction (check with landscape)	1
2	1	4	Credit	Indoor Water Use Reduction	7
0		2	Credit	Optimize Process Water Use	2
1			Credit	Water Metering	1

15	4	#	**Energy and Atmosphere (4.0)**	35
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
3	3	0	Credit	Enhanced Commissioning	6
12	0	8	Credit	Optimize Energy Performance	20
	1		Credit	Advanced Energy Metering	1
		2	Credit	Grid Harmonization	2
		3	Credit	Renewable Energy	5
0		1	Credit	Enhanced Refrigerant Management	1

8	6	5	**Materials and Resources**	19
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	PBT Source Reduction- Mercury	Required
	3	2	Credit	Building Life-Cycle Impact Reduction	5
2			Credit	Environmental Product Declarations	2
1	1		Credit	Sourcing of Raw Materials	2
2			Credit	Material Ingredients	2
1			Credit	PBT Source Reduction- Mercury	1
		2	Credit	PBT Source Reduction- Lead, Cadmium, and Copper	2
	2		Credit	Furniture and Medical Furnishings	2
		1	Credit	Design for Flexibility	1
2			Credit	Construction and Demolition Waste Management	2

9	3	4	**Indoor Environmental Quality**	16
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
2			Credit	Enhanced Indoor Air Quality Strategies	2
3			Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
2			Credit	Indoor Air Quality Assessment	2
	1		Credit	Thermal Comfort	1
	1		Credit	Interior Lighting	1
		2	Credit	Daylight	2
		2	Credit	Quality Views	2
1	1		Credit	Acoustic Performance	2

4	2	0	**Innovation**	6
3	2		Credit	Innovation	5
1			Credit	LEED Accredited Professional	1

3	1	0	**Regional Priority**	4
1			Credit	Regional Priority: Specific Credit	1
1			Credit	Regional Priority: Specific Credit	1
1			Credit	Regional Priority: Specific Credit	1
	1		Credit	Regional Priority: Specific Credit	1

53	18	#	**TOTALS**	Possible Points:	110

Certified: 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

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SEALS AND SIGNATURES

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LEED SCORECARD

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PROJECT NUMBER

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cga
Colin Gordon Associates

MEMORANDUM
PAGE 1 OF 6

TO: Elisa Jue — Elisa.Jue@smithgroup.com
Smithgroup

FROM: Steven Lank — steven.lank@colingordon.com
(415) 570-0350

DATE: December 1, 2022

SUBJECT: SMSHCC – Façade Sound Isolation – CalGreen Analysis
CGA Project No. 21096.03

INTRODUCTION

Section 5.507.4 of the 2019 CalGreen building code includes requirements for minimum sound isolation performance for sites in noisy areas. Portions of these requirements that are relevant to this project are extracted below:[1]

> ***5.507.4 Acoustical Control***
>
> *Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.*
>
> …
>
> ***5.507.4.1 Exterior Noise Transmission, Prescriptive Method***
>
> *Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:*
>
> …

[1] Reference https://up.codes/viewer/california/ca-green-code-2019/chapter/5/nonresidential-mandatory-measures#5.507 for the full text of this requirement. We note, for reference, that the requirements are the same in the 2022 code.

> *2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.*
>
> ***5.507.4.2 Performance Method***
>
> *For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.*
>
> ….
>
> ***5.507.4.2.2 Documentation of Compliance***
>
> *An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.*

The roadway noise contours contained in the City of Oakland Noise Element are shown in **Figure 1**.[2] The same contours are shown zoomed to the area around the project site are shown in **Figure 2**. The proposed building appears to be well within the 65 dBA Ldn noise contour for the 980/24 freeway to the west, as well as the 580 freeway to the north. A 3-dimensional satellite view of the project area, in **Figure 3**, shows the location of the (elevated) freeways relative to the project site.

ANALYSIS

Given the site location within the 65 dBA contour, the Section 5.507 requirements are interpreted as applying to this project. The purpose of this report is to document the project's compliance with the requirements in the 5.507.4.2 Performance Method.

Colin Gordon Associates (CGA) conducted an environmental noise survey at the site of the proposed new building from November 15-18, 2022. As part of this survey, we conducted short term (15-minute) noise measurements to document the typical noise levels at the site as a function of frequency, as well as long term noise monitoring to document the range of hourly L_{eq}[3] noise levels at the site over the course of three sequential days. Measurements were conducted at ground level, to represent the noise levels that can be expected at the lower levels of the building, as well as on top of a parking garage located directly adjacent to the project site, to represent the noise levels expected at upper floors. This was important since the lower levels of the building will be screened from many of the most significant noise sources impacting the site,

[2] https://cao-94612.s3.amazonaws.com/documents/oak070995.pdf We note that this Noise Element was drafted in 2005. The roadway contours are listed a projected for 2025, however the report notes that the predicted change in noise levels from 2005 to 2025 is minimal.

[3] L_{eq}, or Equivalent Noise Level, is the value that represents the noise level from a continuous noise source that has equal acoustical energy to a time varying noise source over a specified time interval. The L_{eq} over the course of an hour (L_{eq}-1hr) is the metric utilized in the performance method requirements.

such as nearby freeways, while the upper levels (and parking garage measurement location) are not.

The highest hourly L_{eq} levels measured over the course of our measurements were 69 dBA and 62 dBA at the elevated and ground level locations, respectively.

To estimate worst-case interior hourly L_{eq} levels, we utilized the highest measured exterior L_{eq}, the typical noise frequency spectrum measured in our short term measurements, and the anticipated sound transmission loss of the proposed curtain wall assembly.

The sound isolation provided by curtain wall assemblies are typically controlled by the glazing, and our understanding is that the following glazing assembly will be used at occupied spaces on the project:

¼" glass – ½" airspace – ¼" glass

Based on our analysis, the worst-case interior L_{eq}-1hr reach **42 dBA** on the upper levels with line of sight to the nearby freeways, and **36 dBA** on lower levels. Therefore, with the proposed design the interior noise levels will not exceed 50 dBA, meeting the CalGreen requirement.

This concludes our report.

***

Figure 1 – City of Oakland Noise Element, Predicted Roadway Noise Contours (Year 2025)

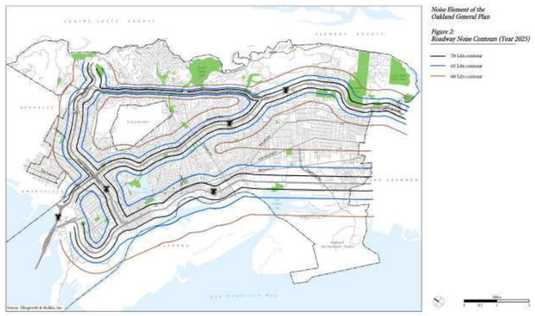

Figure 2 – City of Oakland Noise Element, Predicted Roadway Noise Contours (Year 2025)
Zoomed to Project Area

Figure 3 – Site Conditions – Google Satellite View

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ACOUSTIC REPORT

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PROJECT SUMMARY

SCOPE OF WORK

THE PROPOSED DESIGN INCLUDES A FIVE-STORY, LOW-RISE MEDICAL OFFICE BUILDING (MOB) LOCATED IN OAKLAND, CA. THE BUILDING WILL BE CONSIDERED AS A NONSEPARATED, MIXED-USE OCCUPANCY CONTAINING GROUP B, GROUP A-3, GROUP I-2.1, GROUP S-1, AND GROUP S-2 SPACES. THE BUILDING WILL CONTAIN CLINICS, AN AMBULATORY SURGERY CENTER (ASC), OFFICES, STAFF SUPPORT SPACES, AND ASSOCIATED MEP ROOMS. LEVEL 2 WILL BE CLASSIFIED AS A GROUP I-2.1 OCCUPANCY.

THE BUILDING WILL BE DESIGNED AND CONSTRUCTED AS AN OSHPD 3 BUILDING. THE BUILDING WILL BE FULLY SPRINKLERED AND EQUIPPED WITH AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.

AUTHORITY HAVING JURISDICTION (AHJ)

CITY OF OAKLAND

OAKLAND FIRE DEPARTMENT

CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION, FACILITIES DEVELOPMENT DIVISION (HCAI FDD)

CODES & STANDARDS

CALIFORNIA BUILDING STANDARDS CODE (C.C.R., TITLE 24), 2019 ED.

- CALIFORNIA BUILDING CODE (CBC)
- CALIFORNIA ELECTRICAL CODE (CEC) (NFPA 70, 2017 ED.)
- CALIFORNIA ENERGY CODE (CEC)
- CALIFORNIA FIRE CODE (CFC)
- CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
- CALIFORNIA MECHANICAL CODE (CMC)
- CALIFORNIA PLUMBING CODE (CPC)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), VARIOUS ED.

- NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS (2018)
- NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (2016)
- NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE SYSTEMS (2016)
- NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION (2016)
- NFPA 24, STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES (2016)
- NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE (2016)
- NFPA 80, STANDARD FOR FIRE DOORS (2016)
- NFPA 101, LIFE SAFETY CODE (2012)
- NFPA 105, STANDARD FOR SMOKE DOOR ASSEMBLIES & OTHER OPENING PROTECTIVES (2016)
- NFPA 110, STANDARD FOR EMERGENCY & POWER SYSTEMS (2016)
- NFPA 111, STANDARD ON STORED ELECTRICAL ENERGY EMERGENCY & STANDBY POWER SYSTEMS (2013)
- NFPA 221, STANDARD FOR HIGH CHALLENGE FIRE WALLS, FIRE WALLS, & FIRE BARRIER WALLS (2018)

ACCESSIBILITY GUIDELINES

- ACCESSIBLE & USABLE BUILDINGS & FACILITIES, 2016 ED.
- CBC CHAPTER 11B, 2019 ED.

ADDITIONAL GUIDELINES

- ASME/A17.1, SAFETY CODE FOR ELEVATORS & ESCALATORS (2016)
- CENTERS FOR MEDICARE & MEDICAID SERVICES (CMS) GUIDELINES (2012)
- CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS & INFORMATION (HCAI) OSHPD 3 - OUTPATIENT CLINICS

OCCUPANCY CLASSIFICATION

BUILDING OCCUPANCY GROUPS

CBC CHAPTER 3

GROUP A-3 (ASSEMBLY) - CONFERENCE ROOMS AND WAITING AREAS WITH 50 OR MORE OCCUPANTS

GROUP B (BUSINESS) - OFFICES, CIRCULATION, CONFERENCE ROOMS < 50 OCCUPANTS, AMBULATORY CARE, OUTPATIENT

GROUP I-2.1 (INSTITUTIONAL) - AMBULATORY SURGERY CENTER, 23-HOUR STAY CARE SUITE

GROUP S-2 (LOW-HAZARD STORAGE) - LARGE (> 100 SF) MECHANICAL ROOMS, LARGE ELECTRICAL ROOMS, STORAGE ROOMS WHERE COMBUSTIBLES DO NOT EXCEED 8 FT IN HEIGHT

MIXED USE AND OCCUPANCY REQUIREMENTS

CBC SECTION 508

GROUP I-2.1 OCCUPANCIES SHALL BE SEPARATED FROM OTHER OCCUPANCIES BY TWO-HOUR FIRE-RATED CONSTRUCTION PER CBC TABLE 508.4. THE 23-HOUR STAY CARE SUITE AND ENTIRETY OF LEVEL 2 WILL BE SEPARATED FROM THE REST OF THE BUILDING BY 2-HOUR FIRE BARRIERS AND HORIZONTAL ASSEMBLIES.

THE REST OF THE BUILDING WILL USE A NONSEPARATED, MIXED-USE OCCUPANCY APPROACH PER CBC 508.3. THE ALLOWABLE BUILDING HEIGHT, AREA, AND NUMBER OF STORIES SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS FOR THE CONSTRUCTION TYPE OF THE BUILDING PER SECTION 503.1, NO FIRE-RATED SEPARATION BETWEEN THE REMAINING OCCUPANCY GROUPS (GROUP A-3, B, S-2) IS REQUIRED NOR PROVIDED.

BUILDING CONSTRUCTION TYPE, HEIGHT, AND AREA

TYPE OF CONSTRUCTION: TYPE IA

CBC TABLES 504.3 & 504.4: BUILDING HEIGHT

OCCUPANCY	ALLOWABLE BULDING HEIGHT (FEET / STORIES)	ACTUAL BULDING HEIGHT (FEET / STORIES)
A-3, B, I-2.1, S-2	UNLIMITED	53 FT / 5

HIGHEST OCCUPIABLE FLOOR ELEVATION: 53 FT
ROOF HEIGHT: 68 FT

CBC TABLE 506.2: BUILDING AREA

OCCUPANCY	ALLOWABLE BULDING AREA (SQUARE FEET)	ACTUAL BULDING AREA (SQUARE FEET)
A-3, B, I-2.1, S-2	UNLIMITED	160,580 SF

ALLOWABLE HEIGHT AND AREA DETERMINATION

THE HEIGHT AND AREA REQUIREMENTS SHALL COMPLY WITH THE MOST RESTRICTIVE LIMITATIONS OF ALL OCCUPANCIES IN THE BUILDING. AN UNLIMITED HEIGHT AND AREA IS PERMITTED FOR ALL OCCUPANCIES IN THE BUILDING BASED ON CONSTRUCTION TYPE. NO HEIGHT OR AREA MODIFICATIONS WERE USED IN DETERMINING THE ALLOWABLE BUILDING HEIGHT AND AREA.

MEANS OF EGRESS

BUILDING OCCUPANT LOAD

CBC SECTION 1004 / NFPA 101 7.3.2.1

FUNCTION OF SPACE	AREA	P/SF	GSF/NSF/ FIXED	OCC LOAD
LOWER LEVEL				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1946 SF	300	GSF	7
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	2099 SF	15	NSF	141
BUSINESS USE - GENERAL	6625 SF	150	GSF	45
INSTITUTIONAL AREAS - OUTPATIENT AREAS	17960 SF	100	GSF	181
	28629 SF			374
MECHANICAL				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	13242 SF	300	GSF	43
BUSINESS USE - GENERAL	1097 SF	150	GSF	8
	14339 SF			51
LEVEL 1 WEST ENTRANCE				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1397 SF	300	GSF	6
BUSINESS USE - GENERAL	3360 SF	150	GSF	24
	4757 SF			30
LEVEL 1				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1524 SF	300	GSF	4
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	2581 SF	15	NSF	174
BUSINESS USE - GENERAL	14257 SF	150	GSF	96
DAY CARE	497 SF	35	NSF	15
	18860 SF			289
LEVEL 2				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	5865 SF	300	GSF	18
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	716 SF	15	NSF	49
BUSINESS USE - GENERAL	3951 SF	150	GSF	27
INSTITUTIONAL AREAS - OUTPATIENT AREAS	13314 SF	100	GSF	134
LOCKER ROOMS	814 SF	50	GSF	17
	24660 SF			245
LEVEL 3				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1891 SF	300	GSF	5
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	1928 SF	15	NSF	135
BUSINESS USE - GENERAL	8139 SF	150	GSF	55
INSTITUTIONAL AREAS - OUTPATIENT AREAS	12590 SF	100	GSF	126
	24548 SF			321
LEVEL 4				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1998 SF	300	GSF	8
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	1878 SF	15	NSF	133
BUSINESS USE - GENERAL	7755 SF	150	GSF	53
INSTITUTIONAL AREAS - OUTPATIENT AREAS	12937 SF	100	GSF	130
	24568 SF			324
LEVEL 5				
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	2366 SF	300	GSF	6
ASSEMBLY USE - UNCONCENTRATED (TABLES AND CHAIRS)	1231 SF	15	NSF	84
BUSINESS USE - GENERAL	951 SF	150	GSF	8
INSTITUTIONAL AREAS - OUTPATIENT AREAS	20056 SF	100	GSF	201
	24604 SF			299
	164966 SF			1933

MEANS OF EGRESS COMPONENTS

DOORS
CBC 1010
NFPA 101 7.2.1

MINIMUM CLEAR WIDTH: 32 INCHES
MAXIMUM CLEAR WIDTH: 48 INCHES
MINIMUM HEAD HEIGHT: 80 INCHES

DOORS SHALL SWING IN THE DIRECTION OF EGRESS WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE, GROUP H OCCUPANCIES, AND ELECTRICAL ROOMS WITH EQUIPMENT RATED 800 AMPS OR MORE AND OVER 6 FEET WIDE CONTAINING OVERCURRENT DEVICES, SWITCHING DEVICES, OR CONTROL DEVICES.

PANIC HARDWARE SHALL BE PROVIDED FOR ALL DOORS IN SERVING THE FOLLOWING:
- ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE
- ASSEMBLY AREAS IN GROUP A OCCUPANCIES
- GROUP I-2 OCCUPANCIES
- ELECTRICAL ROOMS WITH EQUIPMENT RATED 800-AMPS OR MORE AND OVER 6 FEET WIDE AND THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES, OR CONTROL DEVICES.

WHERE PANIC HARDWARE IS REQUIRED IN FIRE-RATED DOORS, THE HARDWARE SHALL BE LISTED AND RATED APPROPRIATELY.

STAIRWAYS
CBC 1011
NFPA 101 7.2.2

MINIMUM WIDTH: 44 INCHES
MINIMUM HEADROOM: 80 INCHES
MINIMUM LANDING DEPTH: 48 INCHES

WHERE THE CLEAR WIDTH OF A STAIR EXCEEDS 60 INCHES, AN INTERMEDIATE HANDRAIL WILL BE PROVIDED SUCH THAT ALL PORTIONS OF THE STAIR ARE WITHIN 30 INCHES OF A HANDRAIL.

HANDRAILS
CBC 1014
NFPA 101 7.2.2.4

HANDRAILS SHALL BE PROVIDED FOR ALL EXIT ACCESS, EXIT AND EXIT DISCHARGE STAIRWAYS AND RAMPS. THE HEIGHT OF THE HANDRAIL SHALL BE A MINIMUM OF 34 INCHES ABOVE THE FLOOR BUT NOT MORE THAN 38 INCHES AFF.

HANDRAILS SHALL BE CONTINUOUS BETWEEN STAIR FLIGHTS. WHERE HANDRAILS ARE NOT CONTINUOUS, HANDRAILS SHALL EXTEND 12 INCHES BEYOND THE TOP RISER AND 12 INCHES EXTEND BEYOND THE BOTTOM RISER.

CORRIDORS
CBC 1020
NFPA 101

MINIMUM WIDTH (LEVEL 2, 23-HOUR STAY AREA): 72 INCHES
MINIMUM WIDTH (ALL OTHER AREAS): 44 INCHES

DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF PER CBC 1005.7. CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS PER CBC 1020.5.

CORRIDORS IN GROUP I-2.1 AREAS SHALL BE CONSTRUCTED AS FIRE PARTITIONS WITH A FIRE RESISTANCE RATING OF 1 HOUR. CORRIDOR DOORS IN FIRE PARTITIONS SHALL LIMIT THE TRANSFER OF SMOKE AND BE EQUIPPED WITH POSITIVE LATCHING.

CORRIDORS SHALL BE A MINIMUM WIDTH OF 6 FEET WHEN WALL-MOUNTED, ALCOHOLO-BASED, HAND-RUB DISPENSERS PROJECT INTO CORRIDOR PER NFPA 101, 20.4.3. THE DISPENSER MAY PROJECT INTO THE CORRIDOR NO MORE THAN 4 INCHES.

SEE APPLICABLE PORTIONS OF CBC TABLE 1020.1 IN "FIRE RESISTANCE RATINGS" SECTION OF THIS SHEET FOR REQUIRED FIRE RESISTANCE RATINGS OF OTHER CORRIDORS.

EGRESS CAPACITY

CBC 1005 / NFPA 101 7.3.3.1

STAIRWAYS < 44 INCHES: 0.3 INCHES OF WIDTH PER OCCUPANT
OTHER LEVEL EGRESS COMPONENTS: 0.2 INCHES OF WIDTH PER OCCUPANT

FOR STAIRWAYS > 44 INCHES IN WIDTH, THE FOLLOWING EQUATION SHALL BE USED PER NFPA 101, 7.3.3.2:

$$C = 146.7 * \frac{(W_N - 44)}{0.218} \qquad W_N = \text{STAIR WIDTH (IN.)}$$

REFER TO LIFE SAFETY PLANS FOR REQUIRED AND PROVIDED EGRESS CAPACITY, IN INCHES AND OCCUPANTS, AT EACH EXIT.

NUMBER OF MEANS OF EGRESS

CBC 1006 / NFPA 101 7.4.1.2

OCCUPANT LOAD	MINIMUM NO. OF EXITS
1 - 500	2
501 - 1,000	3
> 1,000	4

A SINGLE EXIT IS PERMITTED FROM ROOMS, SPACES, AND FLOORS WHERE THE OCCUPANT LOAD AND COMMON PATH OF TRAVEL DISTANCE LIMITATIONS IN TABLE 1006.2.1 AND NFPA 101 ARE MET.

TWO MEANS OF EGRESS SHALL BE PROVIDED FOR ROOMS BASED ON HAZARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING PER CBC 1006.2.2:
- BOILER, INCINERATOR AND FURNACE ROOMS OVER 500 SF AND CONTAINING FUEL-FIRED EQUIPMENT EXCEEDING 400,000 BTU INPUT CAPACITY.
- REFRIGERATION MACHINERY ROOMS LARGER THAN 1,000 SF.
- ROOMS OR SPACES LARGER THAN 1,000 SF, MAINTAINED AT A TEMPERATURE BELOW 68°F, AND CONTAINING A REFRIGERANT EVAPORATOR.
- ELECTRICAL ROOMS WITH EQUIPMENT RATED 800-AMPERES OR MORE AND OVER 6 FT WIDE CONTAINING OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES

ARRANGEMENT OF MEANS OF EGRESS

CBC 1007 / NFPA 101 7.5.1.3

EXITS SHALL BE SEPARATED BY A MINIMUM SEPARATION DISTANCE OF ONE-THIRD THE OVERALL OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED PER CBC 1007.1.1, EXCEPTION 2 AND NFPA 101 7.5.1.3.

REFER TO THE LIFE SAFETY PLANS FOR REQUIRED AND PROVIDED EXIT AND EXIT ACCESS SEPARATION FOR EACH FLOOR.

MAXIMUM PATH OF TRAVEL

OCCUPANCY	COMMON PATH OF TRAVEL *CBC 1006*	DEAD END CORRIDOR *CBC 1020*	EXIT ACCESS *CBC 1017*
A-3	75 FT	20 FT	250 FT
B	100 FT	50 FT	300 FT
I-2.1	75 FT	20 FT	200 FT
S-2	100 FT	50 FT	250 FT

EXIT SIGNS

CBC 1013 / NFPA 101 7.10

EXIT SIGNS SHALL BE PROVIDED FOR ALL EXITS, EXIT ACCESS DOORS, AND INTERVENING EXIT ACCESS DOORS AND PLACED SUCH THAT THEY ARE READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. WHERE THE EXIT OR EGRESS PATH IS NOT IMMEDIATELY VISIBLE TO OCCUPANTS, THE EGRESS PATH SHALL BE MARKED BY EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. EXIT SIGNS SHALL BE PLACED SUCH THAT ANY POINT IN A CORRIDOR IS WITHIN 100 FEET OR THE LISTED VIEWING DISTANCE OF THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST EXIT SIGN.

REFERENCE ELECTRICAL (E3) SHEETS FOR EXIT SIGN LOCATIONS.

ACCESSIBLE MEANS OF EGRESS

CBC 1009

INTERIOR EXIT STAIRWAY CBC 1009.3
AN ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED AT THE INTERIOR EXIT STAIRS. THE CLEAR WIDTH OF 48 INCHES BETWEEN HANDRAILS AND AREA OF REFUGE IS NOT REQUIRED AS THE BUILDING IS FULLY SPRINKLERED PER CBC 1009.3.2 AND 1009.3.3, EXCEPTION 2.

TWO-WAY COMMUNICATION CBC 1009.4
A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT ALL ELEVATOR LANDINGS ABOVE THE GROUND LEVEL PER CBC 1009.8.

AREA OF REFUGE CBC 1009.6
AN AREA OF REFUGE IS NOT REQUIRED AS THE BUILDING IS FULLY SPRINKLERED.

ILLUMINATION OF MEANS OF EGRESS

CBC 1008 / NFPA 101 7.8

MINIMUM ILLUMINATION LEVEL (NORMAL POWER): 1 FOOTCANDLE
MINIMUM ILLUMINATION LEVEL (EMERGENCY POWER): 1 FOOTCANDLE
MINIMUM ILLUMINATION LEVEL (STAIRS): 10 FOOTCANDLE

EMERGENCY POWER SHALL BE PROVIDED FOR A MINIMUM DURATION OF 90 MINUTES TO ILLUMINATE ALL CORRIDORS, EXIT ACCESS STAIRS AND RAMPS, EXIT ENCLOSURES, VESTIBULES, SAFE DISPERSAL AREAS, AND EXTERIOR LANDINGS. IN ADDITION, EMERGENCY ILLUMINATION WILL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT ROOMS, FIRE COMMAND CENTER, FIRE PUMP ROOM, GENERATOR ROOMS, AND RESTROOMS OVER 300 SF.

FIRE RESISTANCE RATING REQUIREMENTS

STRUCTURAL FIRE RESISTANCE RATINGS

CBC TABLE 601

TYPE OF CONSTRUCTION: IA

BUILDING ELEMENT	FIRE RESISTANCE RATING
PRIMARY STRUCTURAL FRAME	3 HOURS
BEARING WALLS	
EXTERIOR	3 HOURS
INTERIOR	3 HOURS
NON-BEARING WALLS	
EXTERIOR	SEE NOTE BELOW
INTERIOR	0 HOURS
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	2 HOURS
ROOF CONSTRUCTION AND SECONDARY MEMBERS	1-1/2 HOUR

IN BUILDINGS OF TYPE IA OR IB CONSTRUCTION, FIRE-RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.

ADDITIONAL FIRE RESISTANCE RATINGS

CBC TABLE 601

BUILDING ELEMENT	NUMBER OF FLOORS SERVED	FIRE RESISTANCE RATING
SHAFTS *[CBC 713]* ELEVATOR SHAFTS & MACHINE ROOMS	4 OR MORE 3 OR LESS	2 HOURS 1 HOUR
EXITS *[CBC 1020, 1023, 1024]* INTERIOR EXITS, EXIT STAIRWAYS EXIT PASSAGEWAYS	4 OR MORE 3 OR LESS	2 HOURS 1 HOUR
CORRIDORS *[CBC 1020]*	NA	1 HOUR
SPECIAL HAZARDS *[CBC 1020]*		
MEDICAL GAS STORAGE SMOKE COMPARTMENTS OCCUPANCY SEPARATION	NA	1 HOUR

INTERIOR EXIT ENCLOSURES AND SHAFTS SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS.

EXTERIOR EXPOSURE PROTECTION BASED ON FIRE SEPARATION DISTANCE

CBC TABLE 602, TABLE 705.8

REFER TO SHEET G2.1.2 FOR SEPARATION DISTANCES FROM ADJACENT BUILDINGS AND REQUIRED FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS.

OPENING PROTECTIVES

CBC SECTION 716

CBC TABLE 716.1(2): OPENING FIRE PROTECTION ASSEMBLIES AND RATINGS

ASSEMBLY	RATING (HOURS)	FIRE DOOR / SHUTTER RATING (HOURS)
FIRE WALLS / FIRE BARRIERS WITH FIRE RESISTANCE RATINGS GREATER THAN 1 HOUR	4 HOURS 3 HOURS 2 HOURS 1 1/2 HOURS	3 HOURS 3 HOURS 1 1/2 HOURS 1 1/2 HOURS
FIRE BARRIERS WITH FIRE RESISTANCE RATINGS OF 1 HOUR SHAFTS, INTERIOR EXIT ENCLOSURES OTHER FIRE BARRIERS	1 HOUR 1 HOUR	1 HOUR 3/4 HOUR
FIRE PARTITIONS CORRIDOR WALLS	1 HOUR 0.5 HOUR	1/3 HOUR 1/3 HOUR
OTHER FIRE PARTITIONS	1 HOUR 0.5 HOUR	3/4 HOUR 1/3 HOUR
EXTERIOR WALLS	3 HOURS 2 HOURS 1 HOUR	1 1/2 HOURS 1 1/2 HOURS 3/4 HOUR
SMOKE BARRIERS	1 HOUR	1/3 HOUR

CBC TABLE 716.1(3): FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS

ASSEMBLY	RATING (HOURS)	MINIMUM FIRE WINDOW RATING	FIRE-RATED GLAZING MARKING
FIRE WALLS	ALL	NP	W-XXX
FIRE BARRIERS	> 1 HOUR 1 HOUR	NP NP	W-XXX W-XXX
FIRE PARTITIONS	1 HOUR 0.5 HOUR	3/4 HOUR 1/3 HOUR	OH-45 OR W-60 OH-20 OR W-30
SMOKE BARRIERS	1 HOUR	3/4 HOUR	OH-45 OR W-60
EXTERIOR WALLS	> 1 HOURS 1 HOUR 0.5 HOUR	1 1/2 HOURS 3/4 HOUR 1/3 HOUR	OH-90 OR W-XXX OH-45 OR W-60 OH-20 OR W-30
PARTY WALLS	1 HOUR	NP	N/A

INTERIOR FINISHES

OCCUPANCY	FLOORS	INTERIOR EXIT ENCLOSURES	EXIT ACCESS COMPONENTS	ROOMS AND ENCLOSED SPACES
A-3	II	B	B	C
B	II	B	C	C
I-2.1	II	B	B	B
S-2	II	C	C	C

ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.

IN FULLY SPRINKLERED BUILDINGS:
1. CLASS II MATERIALS ARE PERMITTED IN ANY AREA WHERE CLASS I MATERIALS ARE REQUIRED.
2. MATERIALS COMPLYING WITH ASTM STANDARD E648, AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662 ARE PERMITTED IN ANY AREA WHERE CLASS II MATERIALS ARE REQUIRED.

FIRE PROTECTION AND LIFE SAFETY SYSTEMS

FIRE PROTECTION SYSTEMS
A WET-PIPE SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH CBC 903 AND NFPA 13. THE LOCAL SITE PROVIDES SUFFICIENT WATER SUPPLY; THEREFORE, A FIRE PUMP IS NOT NEEDED TO SERVE THE SYSTEM. ALL WATERFLOW AND VALVE SUPERVISORY SWITCHES SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. A PREACTION SYSTEM USING NON-FERROUS PIPING SHALL BE PROVIDED IN ALL IMAGING AREAS.

A MANUAL WET-PIPE STANDPIPE SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH CBC 905 AND NFPA 14. THE STANDPIPE SYSTEM SHALL BE COMBINED WITH THE SPRINKLER SYSTEM. HOSE VALVE CONNECTIONS WILL BE PROVIDED ON EACH MAIN STAIR LANDING AND WHERE THE TRAVEL DISTANCE TO THE CLOSEST CONNECTION EXCEEDS 200 FEET.

LIFE SAFETY SYSTEMS
AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH CBC 907 AND NFPA 72. THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE FIRE PUMP ROOM. THE SYSTEM SHALL BE ACTIVATED BY AUTOMATIC SMOKE DETECTION, SPRINKLER WATER FLOW, OR MANUAL PULL STATIONS.

A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH CBC 1009.8 AND NFPA 72.

MISCELLANEOUS SYSTEMS
AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) WILL BE PROVIDED THROUGHOUT IN ACCORDANCE WITH CBC 918.

PORTABLE FIRE EXTINGUISHERS

PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WHERE THEY WILL HAVE READY ACCESS AND BE IMMEDIATELY AVAILABLE FOR USE. THESE LOCATIONS SHALL BE ALONG NORMAL PATHS OF TRAVEL AND SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. WHERE A FIRE EXTINGUISHER CABINET IS LOCATED IN A FIRE RATED WALL, A FIRE RATED CABINET WITH THE RATING EQUIVALENT TO THE FIRE BARRIER SHALL BE PROVIDED.

CBC TABLE 906.3(1): FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

HAZARD CLASSIFICATION	LIGHT (LOW)	ORDINARY (MODERATE)	EXTRA (HIGH)
MINIMUM FIRE EXTINGUISHER RATING	2-A	2-A	4-A
MAXIMUM FLOOR AREA PER UNIT OF A	3,000 SF	3,000 SF	1,000 SF
MAXIMUM FLOOR AREA PER FIRE EXTINGUISHER	11,250 SF	11,250 SF	11,250 SF
MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER	75 FT	75 FT	75 FT

VERTICAL OPENINGS

INTERIOR EXIT STAIRWAYS

CBC 1023

TWO EXIT STAIRS ARE PROVIDED FOR THE BUILDING. ONE EXIT STAIR DISCHARGES DIRECTLY TO THE EXTERIOR, AND THE OTHER STAIR DISCHARGES TO THE LEVEL 1 LOBBY WHERE OCCUPANTS HAVE DIRECT ACCESS TO TWO EXIT DOORS. ONE STAIR IS PERMITTED TO DISCHARGE TO THE INTERIOR ON THE LEVEL OF EXIT DISCHARGE (LEVEL 1) AS BOTH STAIRS HAVE EQUIVALENT EGRESS CAPACITY PER CBC 1028.1, EXCEPTION 1.

INTERIOR EXIT STAIRWAYS SHALL BE ENCLOSED IN 2-HOUR FIRE BARRIERS WITH 90-MINUTE OPENING PROTECTIVES. OPENINGS ARE LIMITED TO THOSE REQUIRED FOR EXIT ACCESS FROM NORMALLY OCCUPIED SPACES OF THE BUILDING AND EXIT DISCHARGE. PENETRATIONS SHALL BE PROHIBITED UNLESS REQUIRED FOR MECHANICAL SYSTEMS AND ELECTRICAL RACEWAY SERVING THE STAIR ONLY, FIRE PROTECTION SYSTEMS, SECURITY SYSTEMS, RACEWAY FOR FIRE DEPARTMENT COMMUNICATION SYSTEMS, AND TWO-WAY COMMUNICATION SYSTEMS. ALL EXIT STAIRWAYS WILL BE UNCONDITIONED.

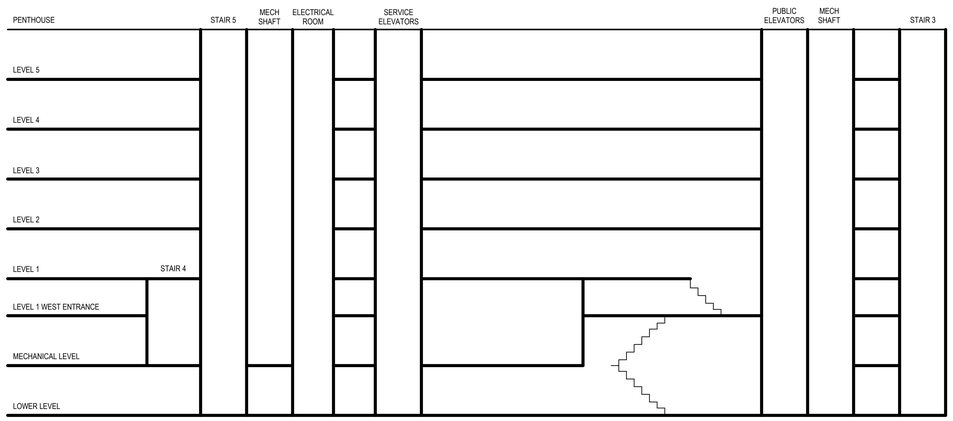
A STAIRWAY IS NOT REQUIRED TO SERVE THE NORMALLY UNOCCUPIED ROOF AS THE ROOF DOES NOT CONTAIN ELEVATOR EQUIPMENT PER CBC 1011.12 EXCEPTION.

ELEVATORS

CBC CHAPTER 30

ELEVATOR HOISTWAY ENCLOSURES SHALL BE CONSTRUCTED AS SHAFT ENCLOSURES WITH A 2-HOUR FIRE RESISTANCE RATING. HOISTWAY DOOR OPENING PROTECTIVES WILL BE ACHIEVED BY PROVIDING FIRE/SMOKE CURTAIN ASSEMBLIES AT EACH ELEVATOR HOISTWAY OPENING ON ALL LEVELS EXCEPT FOR LEVEL 1.

AT LEAST ONE ELEVATOR CAR SHALL BE PROVIDED FOR EMERGENCY RESPONDER ACCESS TO ALL FLOORS. THE ELEVATOR CAR SHALL BE LARGE ENOUGH TO ACCOMODATE ONE AMBULANCE STRETCHER AND PROVIDED WITH THE STAR OF LIFE SYMBOL ON BOTH SIDES OF THE HOISTWAY DOOR FRAME.



GROUP I-2.1 REQUIREMENTS

SEPARATION
GROUP I-2.1 AREAS WILL BE SEPARATED FROM THE REST OF THE BUILDING BY 2-HOUR FIRE BARRIERS AND HORIZONTAL ASSEMBLIES.

SMOKE COMPARTMENTS
LEVEL 2 WILL BE DIVIDED INTO A MINIMUM OF TWO SMOKE COMPARTMENTS BY 1-HOUR RATED SMOKE BARRIERS. EACH COMPARTMENT SHALL NOT EXCEED 22,500 SF IN AREA. A MEANS OF EGRESS SHALL BE PROVIDED FROM EACH SMOKE COMPARTMENT SUCH THAT OCCUPANTS DO NOT RETURN THROUGH THE SMOKE COMPARTMENT OF ORIGIN, AND THE TRAVEL DISTANCE FROM ANY POINT IN A SMOKE COMPARTMENT TO AN ADJACENT SMOKE COMPARTMENT SHALL NOT EXCEED 200 FEET. A REFUGE AREA SHALL BE PROVIDED WITHIN EACH SMOKE COMPARTMENT AND SHALL BE SIZED TO ACCOMODATE THE OCCUPANTS AND CARE RECIPIENTS FROM THE LARGEST ADJOINING SMOKE COMPARTMENT. EACH CARE RECIPIENT SHALL BE PROVIDED WITH 30 NET SF PER OCCUPANT, AND EACH AMBULATORY CARE RECEIPIENT SHALL BE PROVIDED WITH 6 NET SF PER OCCUPANT NOT CONFINED TO BED OR STRETCHER AND OTHER OCCUPANTS.

THE SMOKE COMPARTMENT REQUIREMENTS SHALL NOT APPLY TO GROUP I-2.1 OCCUPANCIES LESS THAN 10,000 SF, STORIES NOT CONTAINING GROUP I-2 OR I-2.1 OCCUPANCIES LOCATED ABOVE OR MORE THAN ONE STORY BELOW STORIES CONTAINING GRO

PA A1.0.1

PARCEL MAP 9975 MAP BK 323 pp 28 - 36

OWNER'S STATEMENT

WE, SUTTER EAST BAY HOSPITALS, A CALIFORNIA NONPROFIT PUBLIC BENEFIT CORPORATION, THE UNDERSIGNED, HEREBY STATE THAT WE ARE THE RECORD TITLE OWNERS OF ALL OF THE LANDS DELINEATED AND EMBRACED WITHIN THE EXTERIOR BOUNDARY LINES UPON THE HEREIN EMBODIED MAP ENTITLED "PARCEL MAP NO. 9975," MORE PARTICULARLY DESCRIBED AS CONSISTING OF 9 SHEETS, THIS STATEMENT BEING UPON SHEET 1 THEREOF; THAT SAID OWNERS ACQUIRED TITLE BY VIRTUE OF THE FOLLOWING MAP AND AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011-244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012-050480; ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA, THAT THE AFORESAID DOCUMENTS HAVE CAUSED SAID MAP TO BE PREPARED FOR RECORD AND CONSENTS TO THE PREPARATION AND FILING OF SAID MAP.

THE AREA DESIGNATED AS E.V.A.E. (EMERGENCY VEHICLE ACCESS EASEMENT) WITHIN PARCEL 3 IS HEREBY IRREVOCABLY OFFERED FOR DEDICATION TO THE CITY OF OAKLAND AS A NON-EXCLUSIVE EASEMENT FOR EMERGENCY VEHICLE ACCESS ON AND OVER THE REAL PROPERTY SHOWN ON THE HEREIN EMBODIED PARCEL MAP. SAID E.V.A.E. SHALL BE KEPT OPEN AND FREE FROM ALL ENCROACHMENTS, INCLUDING BUT NOT LIMITED TO, BUILDINGS AND OTHER STRUCTURES, OVERHANGS, FOUNDATIONS, PRIVATELY MAINTAINED UTILITIES, IRRIGATION SYSTEMS, LANDSCAPING AND FENCING, AND ASSOCIATED APPURTENANCES WITHOUT THE WRITTEN PERMISSION OF THE CITY OF OAKLAND. THE MAINTENANCE OF SURFACE IMPROVEMENTS WITHIN SAID E.V.A.E. SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNERS AND ITS AGENTS, HEIRS, SUCCESSORS, AND ASSIGNS.

AS OWNERS:

SUTTER EAST BAY HOSPITALS, A CALIFORNIA NONPROFIT PUBLIC BENEFIT CORPORATION

BY: _____

NAME: DAVID BRADLEY TITLE: President

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA
COUNTY OF Contra Costa

ON 15 MARCH 2012 BEFORE ME, LINDA L SERVIS A NOTARY PUBLIC, PERSONALLY APPEARED DAVID BRADLEY WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE /THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES) AND BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) ACTED, EXECUTED THE INSTRUMENT.

I CERTIFY UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING PARAGRAPH IS TRUE AND CORRECT.

WITNESS MY HAND

SIGNATURE _____

LINDA L SERVIS

NAME (TYPED OR PRINTED), NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE
PRINCIPAL COUNTY OF BUSINESS: Contra Costa
COMMISSION EXPIRES: 9-15-15
COMMISSION # OF NOTARY: 1948635

OWNER:
SUTTER EAST BAY HOSPITALS
3005 WEBSTER STREET
OAKLAND, CALIFORNIA 94609

SURVEYOR:
BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065

20070162-52

CERTIFICATE OF THE CLERK OF THE BOARD OF SUPERVISORS

I, CRYSTAL K. HISHIDA GRAFF. CLERK OF THE BOARD OF SUPERVISORS FOR THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DO HEREBY CERTIFY AS CHECKED BELOW THAT:

[✓] AN APPROVED ~~BOND~~ CC HAS BEEN FILED WITH THE BOARD OF SUPERVISORS OF THE SAID COUNTY AND STATE IN THE AMOUNT OF $111,206.- _____, CONDITIONED FOR THE PAYMENT OF TAXES AND SPECIAL ASSESSMENTS, COLLECTED AS TAXES WHICH ARE NOW A LIEN AGAINST THE LAND EMBRACED WITHIN THE EXTERIOR BOUNDARY LINES UPON THE HEREIN EMBODIED PARCEL MAP OR ANY PART THEREOF, BUT NOT YET PAYABLE, AND WAS DULY APPROVED BY SAID BOARD IN SAID AMOUNT.

[ ] ALL TAXES AND SPECIAL ASSESSMENTS COLLECTED AS TAXES HAVE BEEN PAID, AS CERTIFIED BY THE TREASURER-TAX COLLECTOR OF THE COUNTY OF ALAMEDA.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND THIS 24th DAY May OF 2012.

Daimka Graff

CRYSTAL K. HISHIDA GRAFF, DEPUTY CLERK
CLERK OF THE BOARD OF SUPERVISORS FOR
THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA

BOARD OF SUPERVISORS ALAMEDA COUNTY, CAL.

CITY ENGINEER'S STATEMENT

I, RAYMOND M. DERANIA, CITY ENGINEER, HAVING BEEN AUTHORIZED TO PERFORM THE FUNCTIONS OF THE CITY ENGINEER OF THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DO HEREBY STATE THAT I HAVE EXAMINED THIS PARCEL MAP AS SHOWN HEREIN, AND THAT IT IS SUBSTANTIALLY THE SAME AS IT APPEARS ON THE VESTING TENTATIVE MAP, AND ANY APPROVED ALTERATIONS THEREOF, THAT ALL THE PROVISIONS OF DIVISION 2, CHAPTER 2 OF THE SUBDIVISION MAP ACT OF THE GOVERNMENT CODE OF THE STATE OF CALIFORNIA AND ANY LOCAL ORDINANCES APPLICABLE AT THE TIME OF APPROVAL OF SAID VESTING TENTATIVE MAP, HAVE BEEN COMPLIED WITH, AND THAT SAID PARCEL MAP IS TECHNICALLY CORRECT.

THE OFFERS OF DEDICATION TENDERED ON THE OWNER'S STATEMENT ON THE HEREIN EMBODIED MAP ENTITLED "PARCEL MAP NO. 9975" IS HEREBY CONDITIONALLY ACCEPTED IN ACCORDANCE WITH SECTION 16.24.130(C) OF THE OAKLAND MUNICIPAL CODE, SUBJECT TO COMPLETION OF IMPROVEMENTS OF SAID LANDS DESIGNATED ON SAID MAP AS "EMERGENCY VEHICLE ACCESS EASEMENT."

ANY INTEREST OF THE CITY OF OAKLAND IN THE FOLLOWING IS HEREBY VACATED (ABANDONED) PURSUANT TO SECTION 66434(g) OF THE SUBDIVISION MAP ACT, UPON THE FILING OF THIS MAP:

1. THE EASEMENT FOR PUBLIC WAY FOR TRAVEL RECORDED ON DECEMBER 19, 1924 IN BOOK 892 AT PAGE 115 OF OFFICIAL RECORDS, DEPICTED ON SHEET 6 HEREIN.

2. THE EASEMENT AGREEMENT RECORDED MARCH 8, 1976 AS INSTRUMENT NO. 76-34228 IN REEL 4282 IMAGE 559 OF OFFICIAL RECORDS, DEPICTED ON SHEET 5 HEREIN.

3. THE SANITARY SEWER EASEMENT RECORDED ON OCTOBER 26, 1976 AS INSTRUMENT NO. 76-180970 IN REEL 4578 IMAGE 96 OF OFFICIAL RECORDS, DEPICTED ON SHEET 6 HEREIN.

4. THE SANITARY SEWER, GAS, TELEPHONE, ELECTRIC AND WATER EASEMENT RECORDED ON OCTOBER 26, 1976 AS INSTRUMENT NO. 76-180972 IN REEL 4578 IMAGE 100 OF OFFICIAL RECORDS, DEPICTED ON SHEET 5 HEREIN.

5. THE 20 FOOT NON-EXCLUSIVE EASEMENT, PARCEL G PARCEL FIVE, RECORDED JANUARY 9, 2004 AS INSTRUMENT NO. 2004-012127 OF OFFICIAL RECORDS, DEPICTED ON SHEET 5 HEREIN.

6. THE UTILITY EASEMENTS RESERVED IN THE OAKLAND CITY COUNCIL RESOLUTION NO. 53978, DATED MAY 21, 1974 WITHIN THAT PORTION OF CENTRAL AVENUE BETWEEN SUMMIT STREET AND WEBSTER STREET SHOWN AS "CENTRAL AVENUE VACATED" ON SHEET 4 HEREIN.

R M Derania

RAYMOND M. DERANIA, RCE NO. 27815
CITY ENGINEER
CITY OF OAKLAND, COUNTY OF ALAMEDA
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER RAYMOND M. DERANIA No. C 27815 Exp. 03/31/14 CIVIL STATE OF CALIFORNIA

APRIL 6, 2012
DATE

SURVEYOR'S STATEMENT

I, MICHAEL A. SHOUP, PROFESSIONAL LAND SURVEYOR, HEREBY STATE THAT THIS PARCEL MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF SUTTER EAST BAY HOSPITALS IN NOVEMBER, 2009. I HEREBY STATE THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE MARCH 2014, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS PARCEL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP, IF ANY.

MICHAEL A. SHOUP, P.L.S. 7616

LICENSED LAND SURVEYOR MICHAEL A. SHOUP No. 7616 STATE OF CALIFORNIA

03-07-12
DATE

SEISMIC HAZARD ZONE NOTE

THIS REAL PROPERTY LIES WITHIN THE FOLLOWING HAZARDOUS AREA: A SEISMIC HAZARD ZONE -- LANDSLIDE ZONE PURSUANT TO SECTION 2696 OF THE PUBLIC RESOURCES CODE. THESE HAZARDS MAY LIMIT YOUR ABILITY TO DEVELOP THE REAL PROPERTY, TO OBTAIN INSURANCE, OR TO RECEIVE ASSISTANCE AFTER A DISASTER. THE MAPS ON WHICH THESE DISCLOSURES ARE BASED ESTIMATE WHERE NATURAL HAZARDS EXIST. THEY ARE NOT DEFINITIVE INDICATORS OF WHETHER OR NOT A PROPERTY WILL BE AFFECTED BY A NATURAL DISASTER. TRANSFEREE(S) AND TRANSFEROR(S) MAY WISH TO OBTAIN PROFESSIONAL ADVICE REGARDING HAZARDS AND OTHER HAZARDS THAT MAY AFFECT THE PROPERTY.

PUBLIC ADVISORY

THIS MAP IS BASED ON PRIVATE SURVEYS PERFORMED BY LICENSED PROFESSIONALS AND WILL NOT BE UPDATED OR CORRECTED BY THE CITY OF OAKLAND AFTER ITS FILING. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE BY THE CITY OF OAKLAND THAT THIS MAP AND THE SURVEY INFORMATION ON WHICH IT IS BASED IS CORRECT, ACCURATE, AND CURRENT, NOR THAT THE CITY WILL RETAIN FOR PUBLIC INSPECTION ANY RELATED INFORMATION WHICH MAY BE SUBSEQUENTLY SUBMITTED TO THE CITY, INCLUDING ALLEGED OR ACTUAL DISCREPANCIES, INACCURACIES, DEFICIENCIES, AND ERRORS.

COUNTY RECORDER'S STATEMENT

FILED THIS 4TH DAY OF JUNE, 2012, AT 8:30A .M.

IN BOOK 320 OF MAPS, AT PAGES 28-36, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA, AT THE REQUEST OF FIRST AMERICAN TITLE INSURANCE COMAPNY.

SERIES NO. 2012181623

FEE: $ 25.00

BY: Imelda A Olea

PATRICK O'CONNELL, DEPUTY COUNTY RECORDER
IN AND FOR THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA

COUNTY RECORDERS OFFICE ALAMEDA COUNTY, CAL.

PARCEL MAP NO. 9975

MERGER OF 18 PARCELS TO 4 PARCELS
ALTA BATES SUMMIT MEDICAL CENTER

BEING A LOT LINE ADJUSTMENT OF THE LANDS MORE PARTICULARLY DESCRIBED IN THE FOLLOWING MAP AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011-244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012-050480; ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA. LYING ENTIRELY WITHIN THE CITY OF OAKLAND, ALAMEDA COUNTY, CALIFORNIA

MARCH 2012

BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
ENGINEERS / SURVEYORS / PLANNERS

NOTE: THE R-SERIES RESOURCE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION DESCRIBED IS CORRECT OR COMPLETE. THE USE OF OR RELIANCE UPON THE INFORMATION DESCRIBED IS AT THE ELECTION OF THE CONTRACTOR AND IS AT THEIR SOLE RISK WITHOUT LIABILITY TO THE ARCHITECT.

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center
3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

13718.000
PROJECT NUMBER

R1.0
SHEET NUMBER

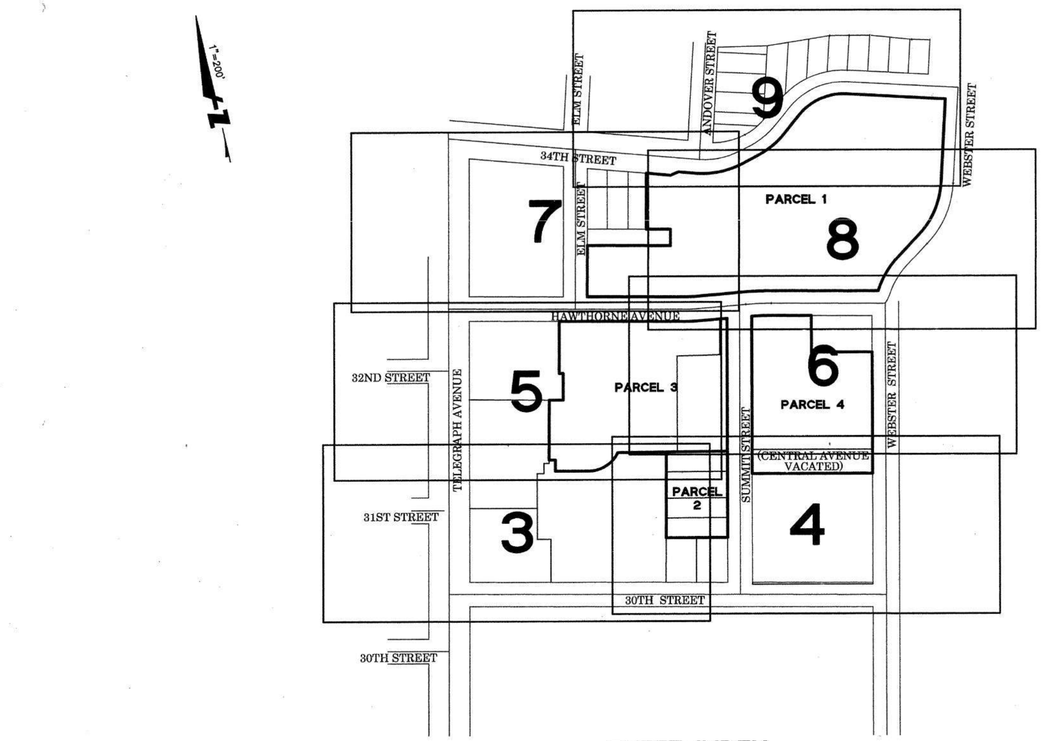
Plot Date: 12/8/2022 9:16:28 AM _BADR

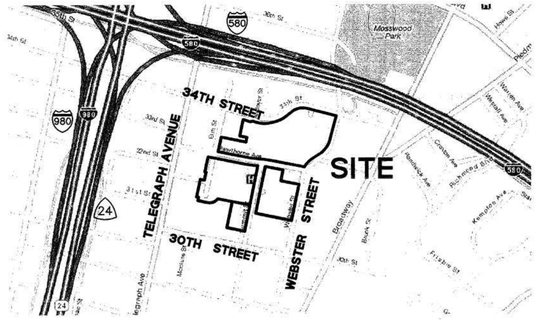
GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

1"=200'





NTS

VICINITY MAP
NOT TO SCALE

SHEET INDEX

PARCEL MAP NO. 9975

MERGER OF 18 PARCELS TO 4 PARCELS
ALTA BATES SUMMIT MEDICAL CENTER

BEING A LOT LINE ADJUSTMENT OF THE LANDS MORE PARTICULARLY DESCRIBED IN THE FOLLOWING MAP AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011-244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012-050480; ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.
LYING ENTIRELY WITHIN THE
CITY OF OAKLAND, ALAMEDA COUNTY, CALIFORNIA

MARCH 2012

BKF ENGINEERS
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065

20070162-52

SHEET 2 OF 9

PARCEL MAP 9975 MAP BK 320 PG 29

NOTE: THE R-SERIES RESOURCE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION DESCRIBED IS CORRECT OR COMPLETE. THE USE OF OR RELIANCE UPON THE INFORMATION DESCRIBED IS AT THE ELECTION OF THE CONTRACTOR AND IS AT THEIR SOLE RISK WITHOUT LIABILITY TO THE ARCHITECT.

Stanford MEDICINE

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CANCER COLLABORATIVE

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3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

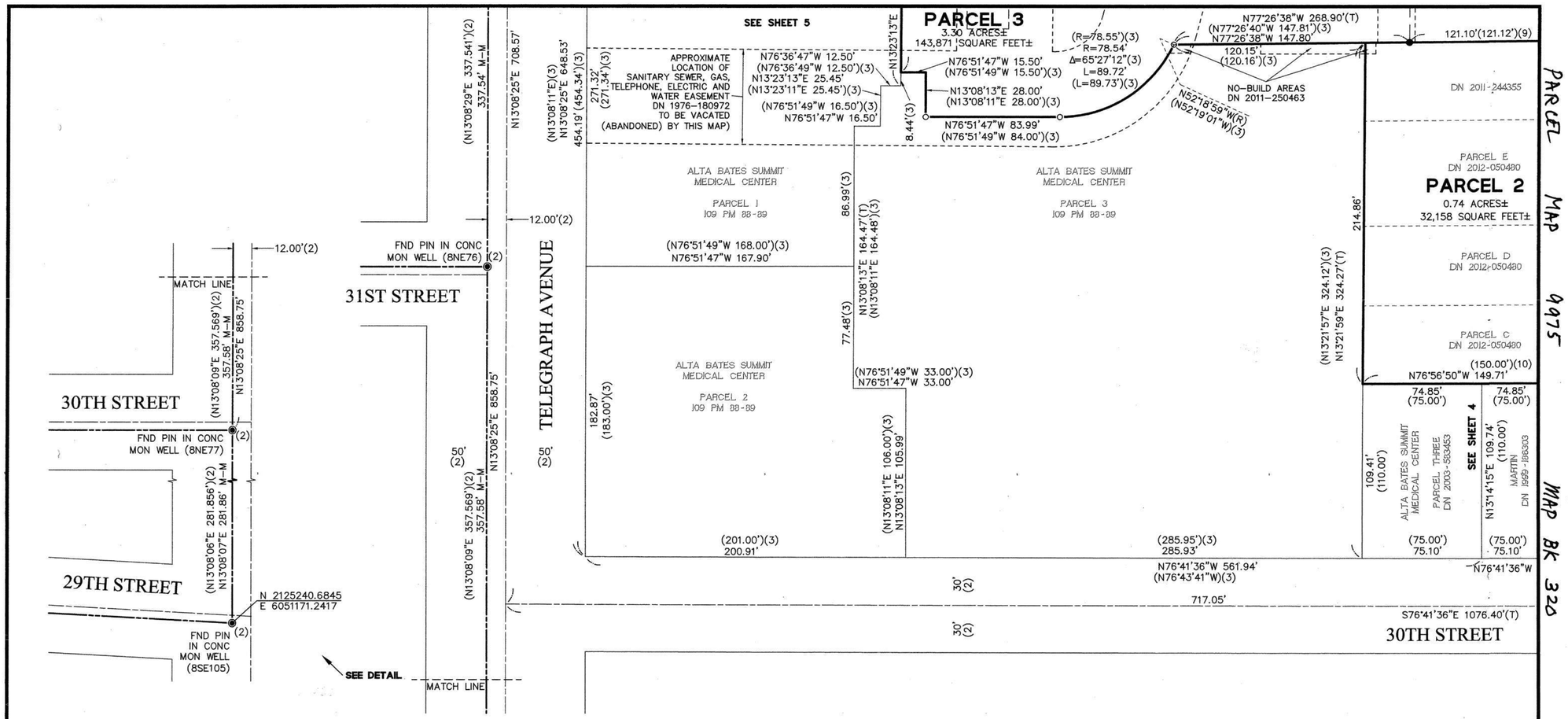
NOT FOR CONSTRUCTION

SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

13718.000
PROJECT NUMBER

R1.1
SHEET NUMBER

Plot Date: 12/8/2022 9:16:30 AM _BADR



LEGEND

( )	RECORD PER DOCUMENT SHOWN WITHIN PARCEL
(1)	RECORD PER BOOK 14 OF RECORDS OF SURVEY PAGE 19, A.C.R.
(2)	RECORD PER CITY OF OAKLAND MONUMENT MAPS AND DATA SHEETS
(3)	RECORD PER BOOK 109 OF PARCEL MAPS PAGES 88-89, A.C.R., SEE NOTE #1
(4)	RECORD PER CALTRANS RIGHT-OF-WAY RECORD MAP ROUTE 580
(5)	RECORD DISTANCE PER DEEDS AND (4)
(6)	RECORD PER BOOK 2 OF MAPS PAGE 2, A.C.R., SEE NOTE #1
(7)	RECORD PER DOCUMENT NUMBER 1975-27444, A.C.R., SEE NOTE #1
(8)	RECORD PER BOOK 3 OF MAPS PAGE 25, A.C.R., SEE NOTE #1
(9)	RECORD PER DOCUMENT NUMBER 2004-012127, A.C.R., SEE NOTE #1
(10)	RECORD PER BOOK 2 OF MAPS PAGE 16, A.C.R., SEE NOTE #1
(11)	RECORD PER REEL 4578 O.R. IMAGE 96, A.C.R., SEE NOTE #1
A.C.R.	ALAMEDA COUNTY RECORDS
DN	DOCUMENT NUMBER
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
FND	FOUND
M-M	MONUMENT TO MONUMENT
O.R.	OFFICIAL RECORDS
PM	PARCEL MAP
S.S.E.	SANITARY SEWER EASEMENT
(R)	RADIAL
(T)	TOTAL

20070162-52

◉	FOUND CITY OF OAKLAND STREET MONUMENT WITH PIN
+	FOUND SCRIBED + AS NOTED
●	FOUND MONUMENT AS NOTED
o	SET 3/4" IRON PIPE WITH PLASTIC PLUG AND TAG "LS 7616"
———	BOUNDARY LINE
— — —	CENTERLINE
- - - - -	EASEMENT LINE
— — —	FORMER LOT LINES
———	LOT LINES
——·——	MONUMENT LINE

NOTES

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BASIS OF BEARINGS

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1"=40'

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

PARCEL MAP NO. 9975

MERGER OF 18 PARCELS TO 4 PARCELS
ALTA BATES SUMMIT MEDICAL CENTER

BEING A LOT LINE ADJUSTMENT OF THE LANDS MORE PARTICULARLY DESCRIBED IN THE FOLLOWING MAP AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011-244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012-050480; ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.
LYING ENTIRELY WITHIN THE
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MARCH 2012

BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

SITE SURVEY - INFORMATIONAL ONLY

PROJECT NUMBER 13718.000

SHEET NUMBER **R1.2**

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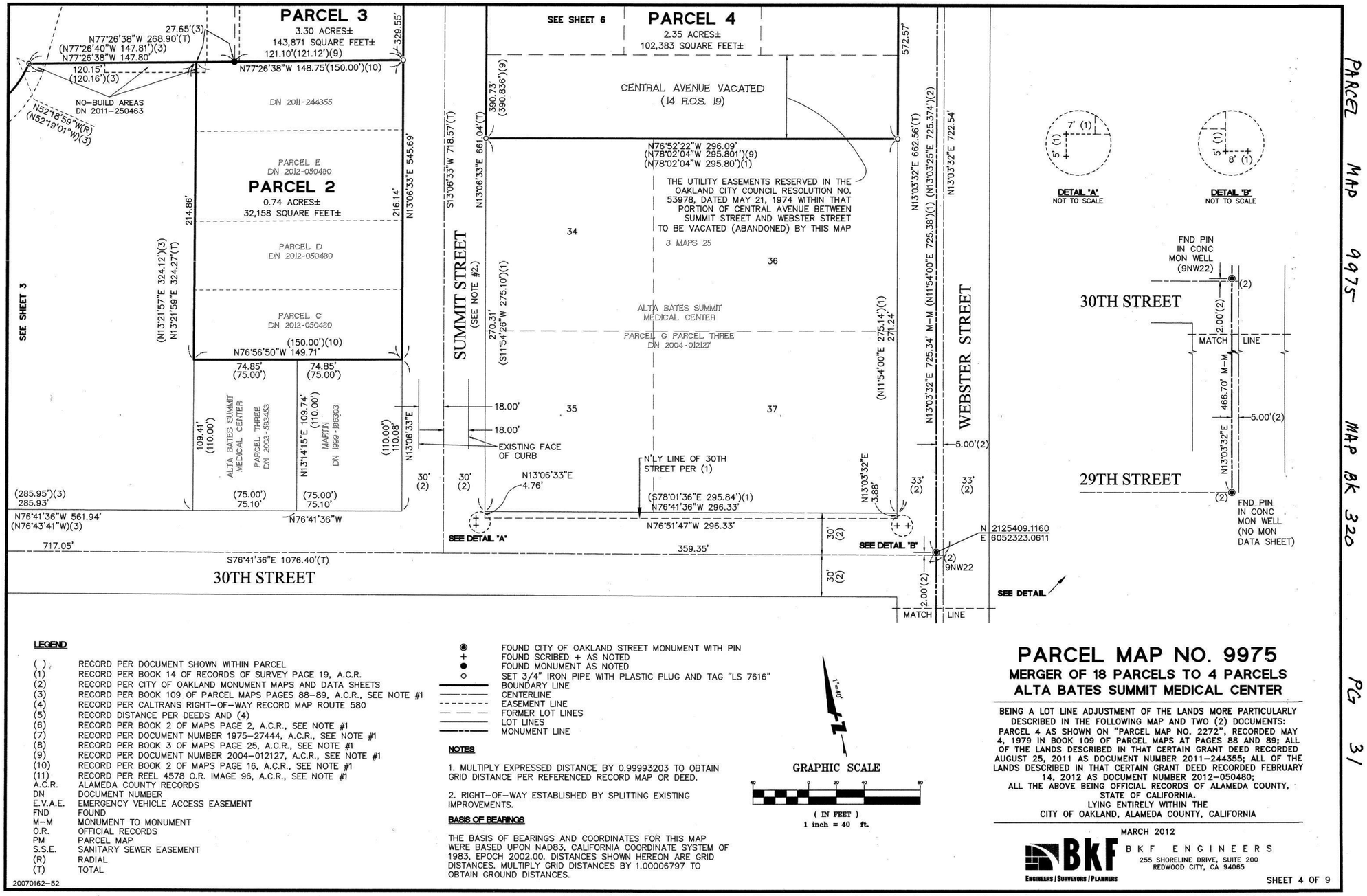

PARCEL MAP 9975 MAP BK 320 PG 31

LEGEND

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(2)	RECORD PER CITY OF OAKLAND MONUMENT MAPS AND DATA SHEETS
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A.C.R.	ALAMEDA COUNTY RECORDS
DN	DOCUMENT NUMBER
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
FND	FOUND
M–M	MONUMENT TO MONUMENT
O.R.	OFFICIAL RECORDS
PM	PARCEL MAP
S.S.E.	SANITARY SEWER EASEMENT
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MARCH 2012

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REDWOOD CITY, CA 94065
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20070162–52

SHEET 4 OF 9

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

PROJECT NUMBER
13718.000

SHEET NUMBER
R1.3

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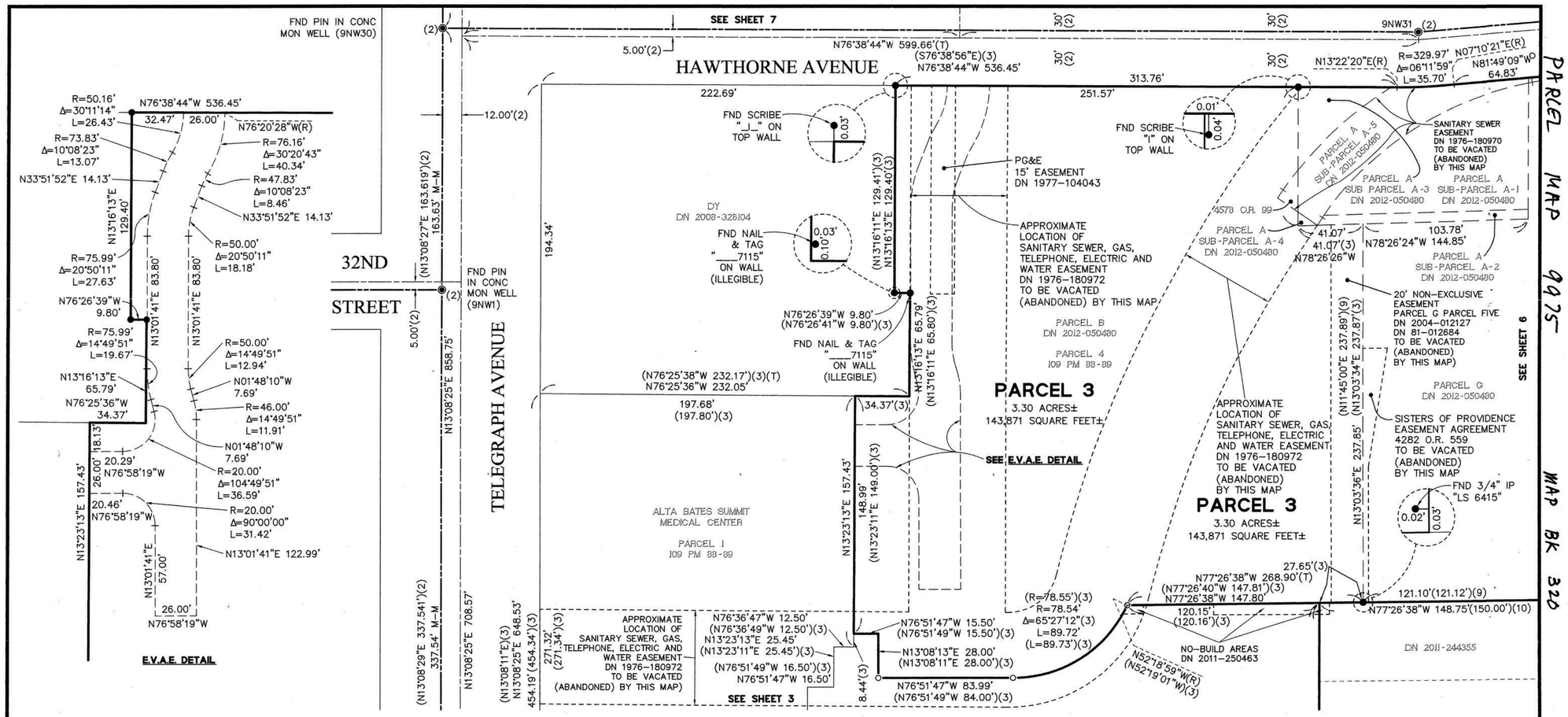

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FND	FOUND
M-M	MONUMENT TO MONUMENT
O.R.	OFFICIAL RECORDS
PM	PARCEL MAP
S.S.E.	SANITARY SEWER EASEMENT
(R)	RADIAL
(T)	TOTAL

20070162-52

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MARCH 2012

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

PROJECT NUMBER
13718.000

SHEET NUMBER
R1.4

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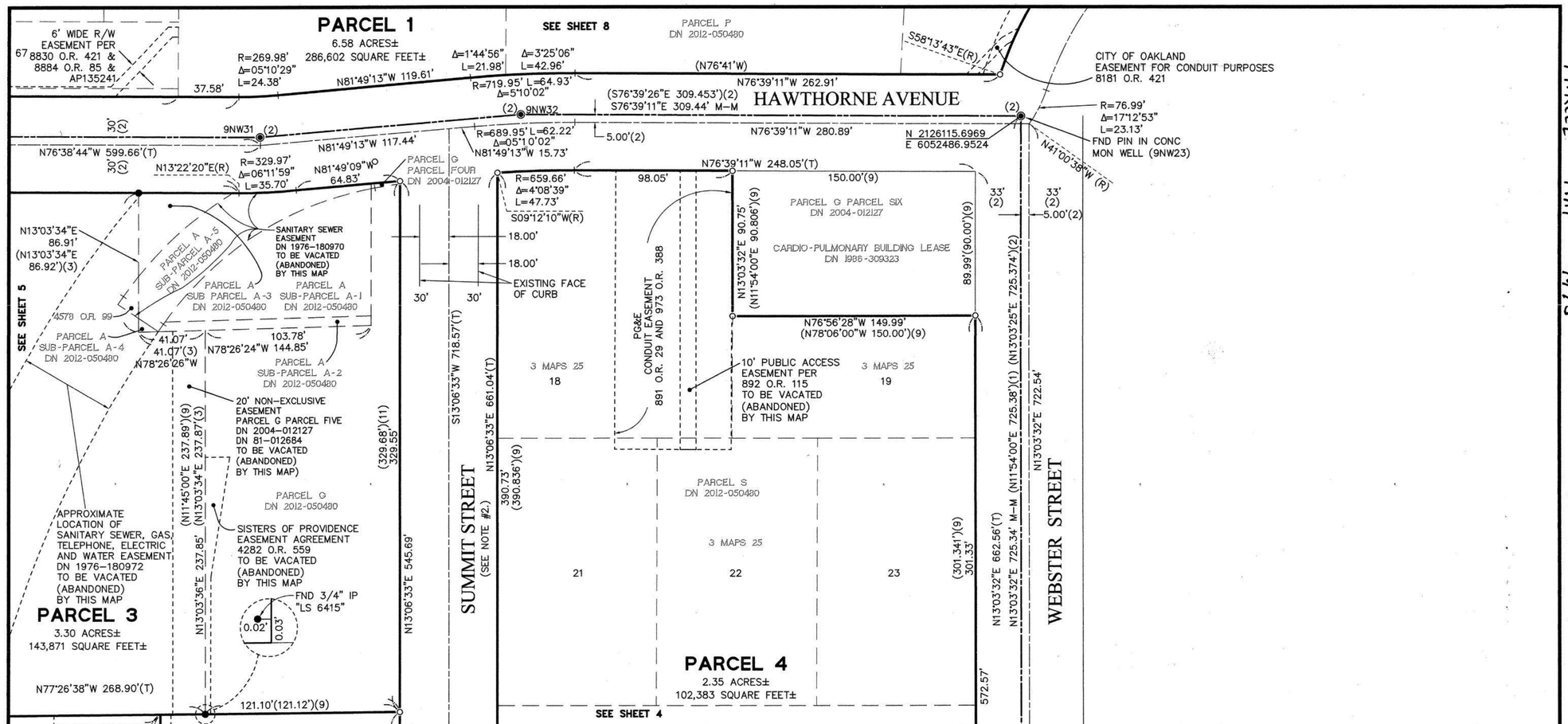

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A.C.R.	ALAMEDA COUNTY RECORDS
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FND	FOUND
M-M	MONUMENT TO MONUMENT
O.R.	OFFICIAL RECORDS
PM	PARCEL MAP
S.S.E.	SANITARY SEWER EASEMENT
(R)	RADIAL
(T)	TOTAL

20070162-52

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NOTES

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GRAPHIC SCALE

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PARCEL MAP 9975 MAP BK 322 PG 33

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SEALS AND SIGNATURES

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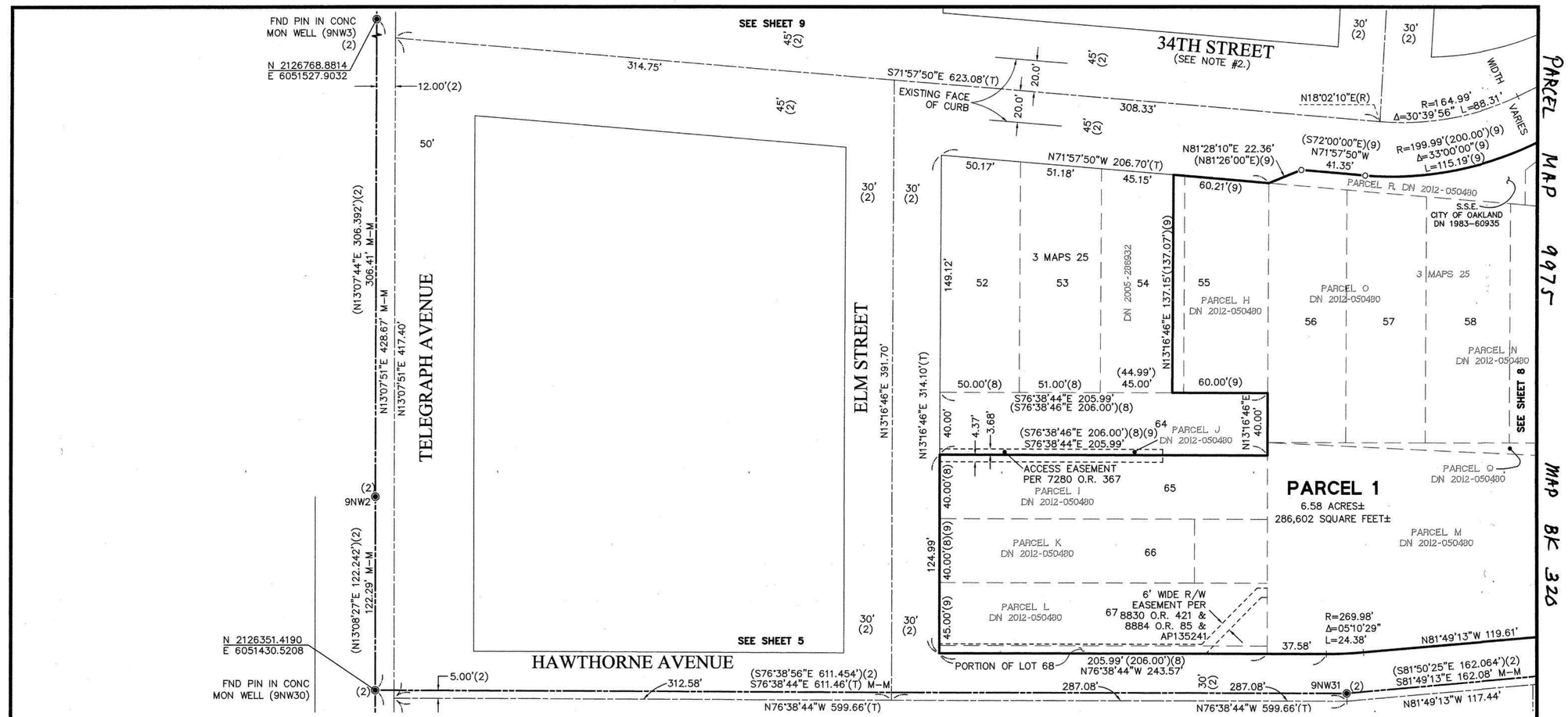
SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

13718.000
PROJECT NUMBER

R1.5
SHEET NUMBER

Plot Date: 12/8/2022 9:16:42 AM _BADR



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MARCH 2012

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ISSUED FOR	REV	DATE
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SEALS AND SIGNATURES

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SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

PROJECT NUMBER 13718.000

SHEET NUMBER **R1.6**

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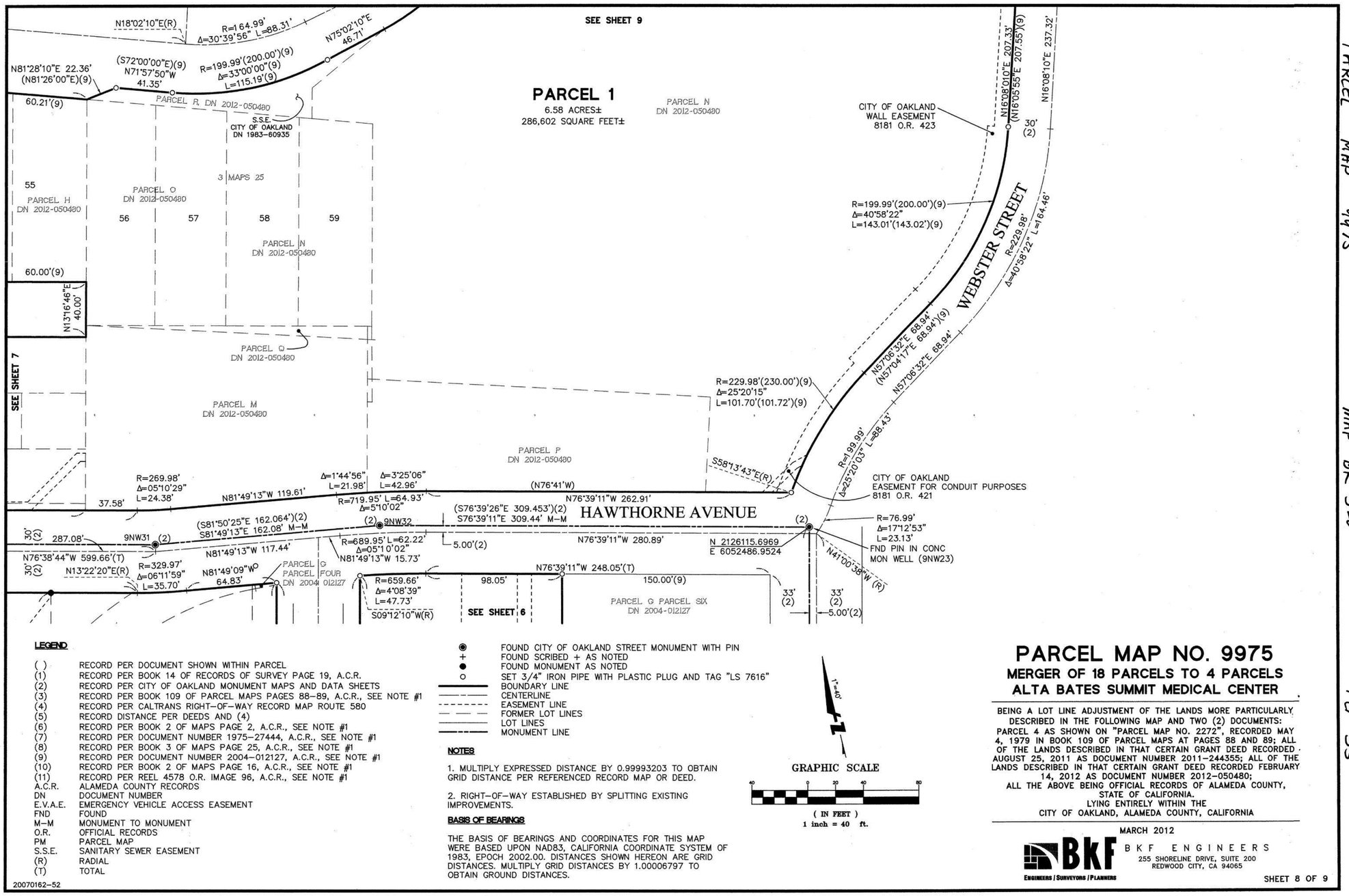

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ALTA BATES SUMMIT MEDICAL CENTER

BEING A LOT LINE ADJUSTMENT OF THE LANDS MORE PARTICULARLY DESCRIBED IN THE FOLLOWING MAP AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011–244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012–050480;
ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.
LYING ENTIRELY WITHIN THE
CITY OF OAKLAND, ALAMEDA COUNTY, CALIFORNIA

MARCH 2012

BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
ENGINEERS / SURVEYORS / PLANNERS

PARCEL MAP 9975 MAP BK 320 PG 35

Stanford MEDICINE

Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center
3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

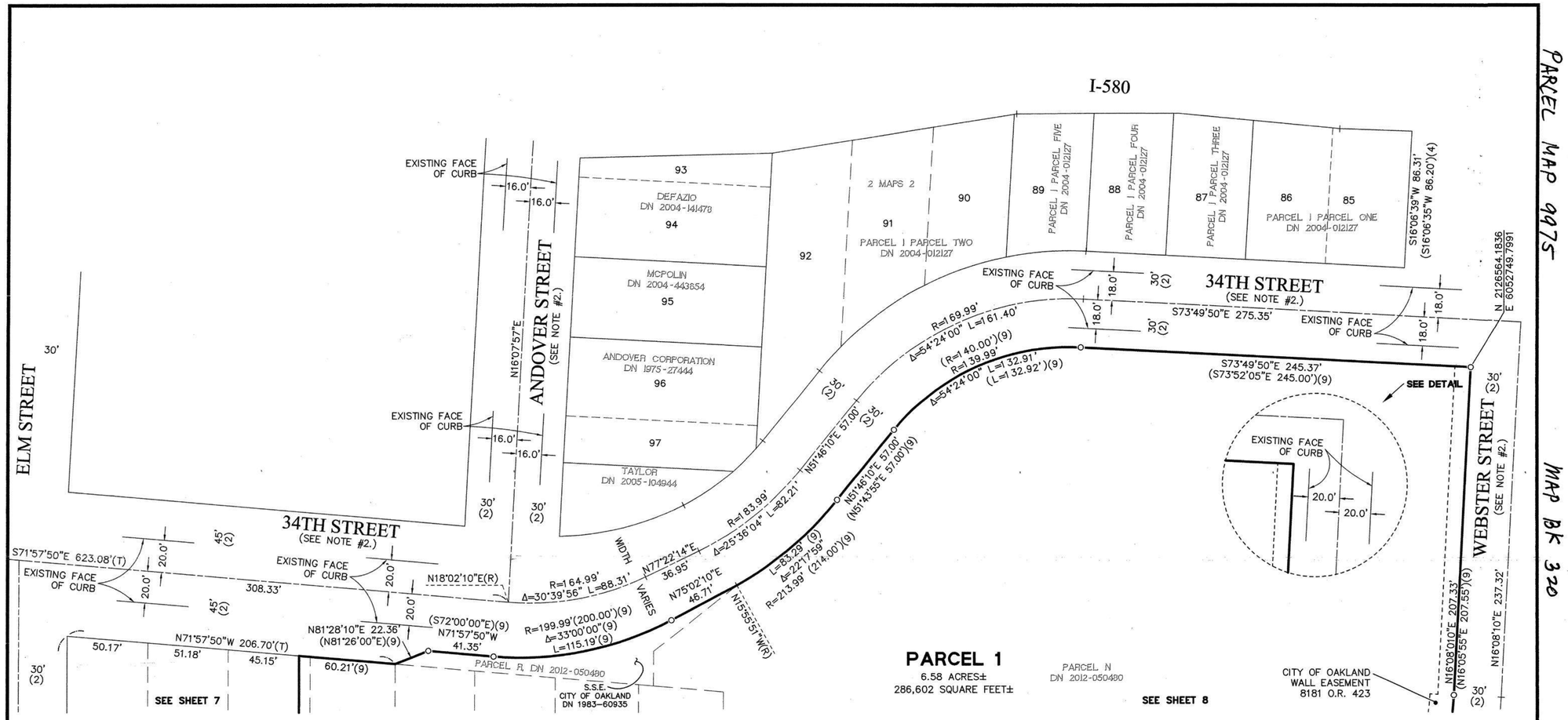
SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

13718.000
PROJECT NUMBER

R1.7
SHEET NUMBER

NOTE: THE R-SERIES RESOURCE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION DESCRIBED IS CORRECT OR COMPLETE. THE USE OF OR RELIANCE UPON THE INFORMATION DESCRIBED IS AT THE ELECTION OF THE CONTRACTOR AND IS AT THEIR SOLE RISK WITHOUT LIABILITY TO THE ARCHITECT.

Plot Date: 12/8/2022 9:16:48 AM _BADR



PARCEL 1

6.58 ACRES±
286,602 SQUARE FEET±

LEGEND

( )	RECORD PER DOCUMENT SHOWN WITHIN PARCEL
(1)	RECORD PER BOOK 14 OF RECORDS OF SURVEY PAGE 19, A.C.R.
(2)	RECORD PER CITY OF OAKLAND MONUMENT MAPS AND DATA SHEETS
(3)	RECORD PER BOOK 109 OF PARCEL MAPS PAGES 88–89, A.C.R., SEE NOTE #1
(4)	RECORD PER CALTRANS RIGHT–OF–WAY RECORD MAP ROUTE 580
(5)	RECORD DISTANCE PER DEEDS AND (4)
(6)	RECORD PER BOOK 2 OF MAPS PAGE 2, A.C.R., SEE NOTE #1
(7)	RECORD PER DOCUMENT NUMBER 1975–27444, A.C.R., SEE NOTE #1
(8)	RECORD PER BOOK 3 OF MAPS PAGE 25, A.C.R., SEE NOTE #1
(9)	RECORD PER DOCUMENT NUMBER 2004–012127, A.C.R., SEE NOTE #1
(10)	RECORD PER BOOK 2 OF MAPS PAGE 16, A.C.R., SEE NOTE #1
(11)	RECORD PER REEL 4578 O.R. IMAGE 96, A.C.R., SEE NOTE #1
A.C.R.	ALAMEDA COUNTY RECORDS
DN	DOCUMENT NUMBER
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
FND	FOUND
M–M	MONUMENT TO MONUMENT
O.R.	OFFICIAL RECORDS
PM	PARCEL MAP
S.S.E.	SANITARY SEWER EASEMENT
(R)	RADIAL
(T)	TOTAL

◉	FOUND CITY OF OAKLAND STREET MONUMENT WITH PIN
+	FOUND SCRIBED + AS NOTED
●	FOUND MONUMENT AS NOTED
○	SET 3/4" IRON PIPE WITH PLASTIC PLUG AND TAG "LS 7616"
———	BOUNDARY LINE
——/——/——	CENTERLINE
- - - - - -	EASEMENT LINE
— — — —	FORMER LOT LINES
———	LOT LINES
——–——–	MONUMENT LINE

NOTES

1. MULTIPLY EXPRESSED DISTANCE BY 0.99993203 TO OBTAIN GRID DISTANCE PER REFERENCED RECORD MAP OR DEED.

2. RIGHT–OF–WAY ESTABLISHED BY SPLITTING EXISTING IMPROVEMENTS.

BASIS OF BEARINGS

THE BASIS OF BEARINGS AND COORDINATES FOR THIS MAP WERE BASED UPON NAD83, CALIFORNIA COORDINATE SYSTEM OF 1983, EPOCH 2002.00. DISTANCES SHOWN HEREON ARE GRID DISTANCES. MULTIPLY GRID DISTANCES BY 1.00006797 TO OBTAIN GROUND DISTANCES.

1"=40'

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

PARCEL MAP NO. 9975

MERGER OF 18 PARCELS TO 4 PARCELS
ALTA BATES SUMMIT MEDICAL CENTER

BEING A LOT LINE ADJUSTMENT OF THE LANDS MORE PARTICULARLY DESCRIBED IN THE FOLLOWING MAP AND TWO (2) DOCUMENTS: PARCEL 4 AS SHOWN ON "PARCEL MAP NO. 2272", RECORDED MAY 4, 1979 IN BOOK 109 OF PARCEL MAPS AT PAGES 88 AND 89; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED AUGUST 25, 2011 AS DOCUMENT NUMBER 2011–244355; ALL OF THE LANDS DESCRIBED IN THAT CERTAIN GRANT DEED RECORDED FEBRUARY 14, 2012 AS DOCUMENT NUMBER 2012–050480; ALL THE ABOVE BEING OFFICIAL RECORDS OF ALAMEDA COUNTY, STATE OF CALIFORNIA.
LYING ENTIRELY WITHIN THE
CITY OF OAKLAND, ALAMEDA COUNTY, CALIFORNIA

MARCH 2012

BKF ENGINEERS
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065

20070162–52

PARCEL MAP 9975 MAP BK 320 PG 36

Stanford MEDICINE
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CANCER COLLABORATIVE

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
SITE SURVEY - INFORMATIONAL ONLY

PROJECT NUMBER
13718.000

SHEET NUMBER
R1.8

NOTE: THE R-SERIES RESOURCE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION DESCRIBED IS CORRECT OR COMPLETE. THE USE OF OR RELIANCE UPON THE INFORMATION DESCRIBED IS AT THE ELECTION OF THE CONTRACTOR AND IS AT THEIR SOLE RISK WITHOUT LIABILITY TO THE ARCHITECT.

Plot Date: 12/8/2022 9:16:51 AM BADR

For Assessment Use Only

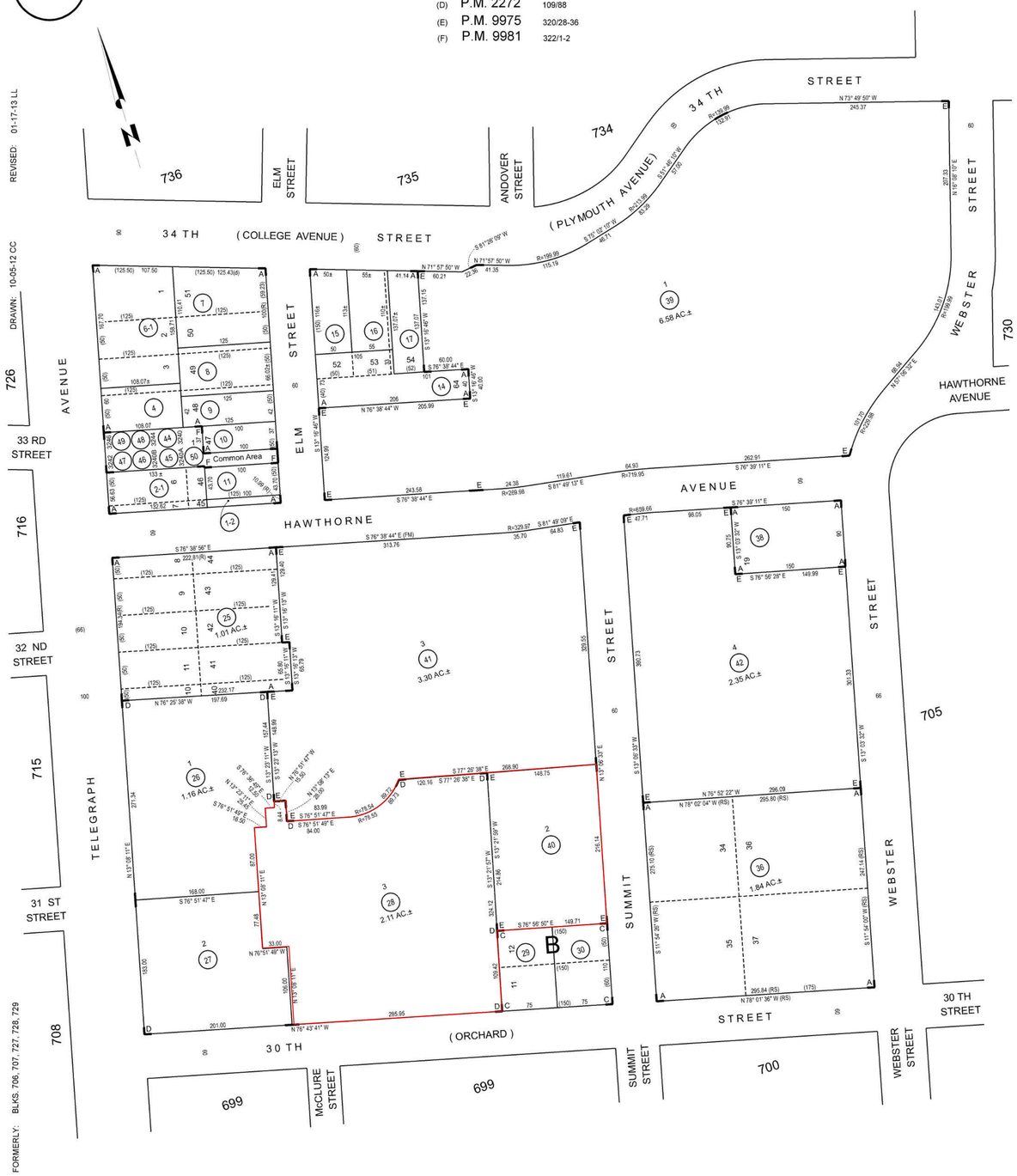
ASSESSOR'S MAP 9

746

SCALE: 1" = 100'

Code Area Nos. 17-042

(A) Map of BUENA VISTA HOMESTEAD 3/25
(C) Map of ARMES' TRACT 2/16
(D) P.M. 2272 109/88
(E) P.M. 9975 320/28-36
(F) P.M. 9981 322/1-2



SBE: 4C REF: R/S 836 RS14/19; MAP of the PACIFIC THEOLOGICAL SEMINARY TRACT 4/2 HPN: 50 IND PG: .

NOTE: THE R-SERIES RESOURCE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT MAKES NO GUARANTEE THAT THE INFORMATION DESCRIBED IS CORRECT OR COMPLETE. THE USE OF OR RELIANCE UPON THE INFORMATION DESCRIBED IS AT THE ELECTION OF THE CONTRACTOR AND IS AT THEIR SOLE RISK WITHOUT LIABILITY TO THE ARCHITECT.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ASSESSOR'S PARCEL MAP

13718.000
PROJECT NUMBER

R2.0
SHEET NUMBER

Plot Date: 12/8/2022 9:16:54 AM _BADR

I. GENERAL NOTES

ON-SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THESE NOTES.

1. ON-SITE PLANS ARE ACCURATE FOR ON-SITE IMPROVEMENTS.
2. OFF-SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF OAKLAND STANDARD DETAILS AND SPECIFICATIONS. OFF-SITE WORK INCLUDES PUBLIC IMPROVEMENTS IN CITY RIGHT OF WAY, INCLUSIVE OF PUBLIC EASEMENTS.
3. THE CONTRACTOR SHALL GIVE THE OWNER TWO (2) WORKING DAYS ADVANCE NOTICE FOR INSPECTION SERVICES.
4. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
5. CONTRACTOR SHALL REQUEST STAKING SERVICES AT LEAST TWO (2) WORKING DAYS PRIOR TO THE DATE STAKING IS REQUIRED.
6. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE CIVIL DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS.
7. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO MONDAY THROUGH FRIDAY, BETWEEN 7:00 A.M. AND 5:00 P.M. ON SITE, AND BETWEEN 8:00 A.M. AND 5:00 P.M. IN THE CITY RIGHT-OF-WAY. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE OWNER AND CITY OF OAKLAND. CONTRACTOR TO VERIFY THE ABOVE TIMES AND DAYS WITH THE CITY OF OAKLAND.
8. PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE ENGINEER.
9. THE CONTRACTOR SHALL RESTORE TO THEIR PREVIOUS CONDITION OR REPLACE WALLS, FENCES, SERVICES, UTILITIES, AND PAVEMENT & CURB MARKINGS IMPROVEMENTS OR FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY, TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS. TRAFFIC CONTROL MEASURES SHALL BE PER CA MUTCD AND CITY REQUIREMENTS. THE CONTRACTOR SHALL LEAVE A 24-HOUR EMERGENCY TELEPHONE NUMBER WITH POLICE, FIRE AND PUBLIC WORKS DEPARTMENTS, AND KEEP THEM INFORMED DAILY OF DETOURS.
11. EXISTING PUBLIC AND PRIVATE PEDESTRIAN WALKWAYS, BIKEPATHS & ACCESSIBLE ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER AND OWNER.
12. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.
13. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF BASE MATERIALS FOR PAVED AREAS, UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT. STUB-OUTS SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE PAVEMENT, CURB AND GUTTER AND WALKS WHEN SERVICE CONNECTIONS ARE MADE.
14. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT EXISTING IMPROVEMENTS WILL BE FULLY PROTECTED FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEATHING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE. PROVIDE DUSTY CONTROL PER INDUSTRY STANDARD PRACTICE.
16. DURING CONSTRUCTION, THE CITY STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ACCUMULATION OF MUD AND DEBRIS RESULTING FROM CONSTRUCTION AND/OR AS REQUIRED BY THE CITY OF OAKLAND, WHICHEVER IS MORE RESTRICTIVE. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, LOADS SHALL BE COVERED AND PROVIDED WITH A MINIMUM OF A 2' FREEBOARD. THE CONTRACTOR SHALL OBTAIN A DIRT HAULING PERMIT IF REQUIRED.
17. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR CIVIL DESIGN ENGINEER, BKF ENGINEERS AT (650) 482-6300, BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.
18. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, NOTIFY ENGINEER AND REQUEST CLARIFICATION.
19. UPON SATISFACTORY COMPLETION OF THE WORK, THE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.
20. ARTICLE 87 OF THE UFC SHALL BE FOLLOWED FOR AREAS UNDER CONSTRUCTION. CONTACT THE LOCAL FIRE AUTHORITY FOR SPECIFIC REQUIREMENTS FOR BUILDINGS UNDER CONSTRUCTION.
21. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH PG&E, AT&T, CABLE TV FACILITIES, EAST BAY MUNICIPAL UTILITY DISTRICT, & THE CITY OF OAKLAND.
22. THE OWNER SHALL OBTAIN THE APPROPRIATE PERMIT FOR ANY WORK WITHIIN THE CITY RIGHT-OF-WAY (INCLUSIVE OF PUBLIC EASEMENTS).
23. THE CONTRACTOR SHALL BE AWARE THAT DEWATERING ACTIVITIES SHALL COMPLY WITH THE CONDITIONS OF THE BAY AREA REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT FOR CONSTRUCTION SITES.
24. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF WORK TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE UTILITIES SHOWN ON THE PLANS ARE BASED UPON RECORD INFORMATION. HOWEVER, THE CIVIL DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY OR ACTUAL LOCATIONS.
25. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES.
26. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS, UNLESS NOTED OTHERWISE.
27. THE CONTRACTOR SHALL MEET AND FOLLOW NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
28. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING DEMOLITION WORK, WORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY. THE OWNER HAS ENGAGED SOPA TO PERFORM SUCH ROLES.
29. THE CONTRACTOR SHALL POST ON SITE EMERGENCY TELEPHONE NUMBERS FOR CITY ENGINEER, AMBULANCE, POLICE, FIRE DEPARTMENTS, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
30. COORDINATE LAYOUT OF UTILITIES WITH STRUCTURAL DRAWINGS TO KEEP LINES OUT OF ZONE OF INFLUENCE WHERE POSSIBLE. SEE STRUCTURAL DRAWINGS AND GEOTECHNICAL REPORT FOR REQUIREMENTS WHERE LINES MUST BE PLACED IN ZONE OF INFLUENCE.

II. LAYOUT NOTES

1. CURB RETURN RADII AND CURB DATA ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

III. EXISTING CONDITIONS

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON TOPOGRAPHIC SURVEYS AS SHOWN ON:

   "TOPOGRAPHIC SURVEY – ALTA BATES SUMMIT MEDICAL CENTER – CANCER CENTER", DATED MARCH 11, 2022 PERFORMED BY BKF ENGINEERS.

   GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
2. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE DESIGN ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE CIVIL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
3. ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AFFECTING SAID LINES.

IV. GRADING

1. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN:

   "GEOTECHNICAL INVESTIGATION, OAKLAND JOINT VENTURE CANCER CENTER, SUMMIT MEDICAL CENTER, OAKLAND (ALAMEDA COUNTY), CALIFORNIA" DATED APRIL 8, 2022. PERFORMED BY RUTHERFORD + CHEKENE.

   AND SUPPLEMENTARY REPORTS AND LETTERS.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPED AREAS AND TWO-HUNDREDTHS OF A FOOT IN HARDSCAPED OR PAVED AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.

V. UTILITIES

1. BEFORE DISCONNECTING UTILITY SERVICE TO ANY ESTABLISHMENT, CONTRACTOR SHALL GIVE ADVANCE NOTICE TO ESTABLISHMENT BEFORE THEIR UTILITY SHUT DOWN, MAKE ARRANGEMENTS WITH THOSE ESTABLISHMENTS FOR A SCHEDULED SHUT DOWN AND COORDINATE DATE OF SHUT DOWN, DURATION, INCONVENIENCE, DELAYS, ETC. WITH A REPRESENTATIVE OF THE CITY AND/OR RESPECTIVE UTILITY AGENCY.

VI. WATER NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING SERVICES FOR THOSE FACILITIES INSTALLED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK HAS BEEN OFFICIALLY ACCEPTED BY THE ENGINEER. THE MARKING, LABELING AND TIMING OF SUCH LOCATIONS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF UNDERGROUND SERVICE ALERT.
2. PRIOR TO MAKING FINAL CONNECTIONS TO THE EXISTING WATER SYSTEM, NEWLY INSTALLED WATER PIPELINES, VALVES, AND FITTINGS SHALL BE FLUSHED, STERILIZED AND TESTED BY THE CONTRACTOR, AND SHALL PASS BACTERIA AND OTHER WATER QUALITY REQUIREMENTS BEFORE PUT INTO SERVICE. (REFER TO THE PROJECT SPECIFICATIONS FOR TESTING AND STERILIZATION REQUIREMENTS.) CONTRACTOR SHALL SUPPLY MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO DISINFECT THE PIPELINES AND APPURTENANCES. THE CONTRACTOR SHALL FURNISH A COMPLETE REPORT TO THE OWNER.
3. ON-SITE LANDSCAPE IRRIGATION SYSTEMS SHALL BE PER THE IRRIGATION PLANS.

VII. SANITARY SEWER NOTES

1. THE ON-SITE PRIVATE SANITARY SEWER SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THESE PLANS AND CITY DETAILS AND SPECIFICATIONS.
2. SEWER LATERAL (SL) PERMIT SHALL BE OBTAINED BY THE OWNER FOR NEW OR ABANDONED SEWER LATERALS.

VIII. RECORD DRAWINGS

1. CONTRACTOR SHALL KEEP ACCURATE AS-BUILT DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS ENCOUNTERED. RECORD DRAWINGS SHALL BE "REDLINED" ON A SET OF PRINTS. THE REDLINED PRINTS SHALL BE DELIVERED TO THE CONSTRUCTION MANAGER.

IX. STATEMENT OF RESPONSIBILITY

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
2. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.

X. UNAUTHORIZED CHANGES AND USES

1. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

ABBREVIATIONS

SYMBOL	DESCRIPTION
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACPWA	ALAMEDA COUNTY PUBLIC WORKS AGENCY
AD	AREA DRAIN
BFPD	BACK FLOW PREVENTION DEVICE
BLDG	BUILDING
BS	BOTTOM OF SLOPE/STAIR
BW	BACK OF WALK
BOW	BOTTOM OF WALL
CAWC	CALIFORNIA AMERICAN WATER COMPANY
CB	CATCH BASIN
CIP	CAST IRON PIPE
C&G	CURB AND GUTTER
CONC	CONCRETE
C. CL	CENTERLINE
COMM	COMMUNICATION
C.Y.	CUBIC YARDS
DI	DROP/DRAINAGE INLET
DW	DOMESTIC WATER
D/W	DRIVEWAY
(E), EXITS	EXISTING
E	EAST
ELEC	ELECTRIC
ELB	ELECTRIC BOX
ELL	ELBOW
FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
FW	FIRE WATER
G	GAS
GB	GRADE BREAK
GR	GRATE
GV	GATE/GAS VALVE
HC	HANDICAP/ HANDICAP RAMP
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
JT	JOINT TRENCH
JP	JOINT POLE
L	LENGTH
LP	LOW POINT
LT	LEFT
MH	MANHOLE
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OAK	OAK TREE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
TEL	TELEPHONE
PB	

SYMBOL	DESCRIPTION
P,	PROPERTY LINE
PLT	PLANTER
PRC	POINT OF REVERSE CURVE
PM	PARKING METER
(P)	PROPOSED
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RDW	REDWOOD TREE
RET	RETAINING
RIM	RIM ELEVATION
RT	RIGHT
RTG	RIM TO GRADE
R/W, R.O.W.	RIGHT OF WAY
S	SOUTH
SAD	SEE ARCHITECTURAL DRAWINGS
SCH	SCHEDULE
SDCB	STORM DRAIN CATCH BASIN
SD	STORM DRAIN
SDCO	STORM DRAIN/SUBDRAIN CLEANOUT
SDMH	STORM DRAIN MANHOLE
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FEET
SFD	SEE FIRE PROTECTION DRAWINGS
SL	STREETLIGHT
SLD	SEE LANDSCAPE DRAWINGS
SMC	SAN MATEO COUNTY
SMD	SEE MECHANICAL DRAWINGS
SPD	SEE PLUMBING DRAWINGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SSD	SEE STRUCTURAL PLAN
STA	STATION
STD	STANDARD
S/W	SIDEWALK
TB	TOP OF BERM
TC	TOP OF CURB
TG	TOP OF GRATE
TH	THRESHOLD
TRANS	TRANSFORMER
TS	TOP OF SLOPE/STAIR
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
U.O.N.	UNLESS OTHERWISE NOTED
VC	VERTICAL CURB
VERT	VERTICAL
VG	VALLEY GUTTER W WEST
W, WL	WATERLINE
W/	WITH
WM	ATER METER
WMB	WATER METER BOX
WV	WATER VALVE
XFMR	TRANSFORMER

LEGEND

	PROPOSED	EXISTING
CENTERLINE		
CONCRETE CURB AND GUTTER		
OVERHEAD LINE	NONE	OHE
GAS LINE	GAS	GAS
SANITARY SEWER MAIN	4" SS	SS
STORM DRAIN MAIN		SD
SUBDRAIN LINE		
DOMESTIC WATER	2" W	W
FIRE SERVICE	WF	NONE
DROP INLET		
AREA DRAIN		
STORM DRAIN CLEANOUT	CO	NONE
SANITARY SEWER CLEANOUT	CO	SSCO
FIRE HYDRANT		
FIRE DEPARTMENT CONNECTION		NONE
POST INDICATOR VALVE		NONE
SANITARY SEWER MANHOLE	NONE	
SPOT ELEVATION	NONE	12.55
FINISH SURFACE ELEVATION	FS 12.55	NONE
SURVEY MONUMENT	NONE	
WATER METER	WM	W
WATER VALVE		
BACKFLOW PREVENTION DEVICE		NONE
TRAFFIC SIGN		
STORM DRAIN MANHOLE		

DRAWING INDEX

DRAWING NO.	DESCRIPTION
C1.0.0	NOTES, LEGEND AND ABBREVIATIONS
C2.0.0	EXISTING CONDITIONS
C2.0.1	EXISTING CONDITIONS
C2.1.0	DEMOLITION PLAN
C2.1.1	DEMOLITION PLAN
C2.2.0	EXCAVATION PLAN
C3.0.0	GRADING AND DRAINAGE PLAN
C3.0.1	GRADING AND DRAINAGE PLAN
C4.0.0	STORM CONTROL PLAN
C5.0.0	UTILITY PLAN
C6.0.0	HORIZONTAL CONTROL PLAN, PAVING
C7.0.0	EROSION CONTROL PLAN
C7.0.1	EROSION CONTROL DETAILS
C8.0.0	CONSTRUCTION DETAILS
C8.0.1	CONSTRUCTION DETAILS
C8.0.2	CONSTRUCTION DETAILS
C9.0.0	FIRE ACCESS PLAN

BASIS OF BEARINGS

THE BEARING NORTH 13°08'11" EAST BETWEEN THE FOUND CENTERLINE OFFSET MONUMENT "9NW3 BM" (LOCATED AT THE INTERSECTION OF 34TH STREET AND TELEGRAPH AVENUE) AND THE FOUND CENTERLINE OFFSET MONUMENT "8SE105C_H" (LOCATED AT THE INTERSECTION OF TELEGRAPH AVENUE AND 29TH STREET (CALEDONIA)) IS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY. SAID BEARING IS USED FOR THE TELEGRAPH AVENUE MONUMENT LINE SHOWN ON "PARCEL MAP NO. 2272", RECORDED IN BOOK 109 OF PARCEL MAP AT PAGES 88-89.

BENCHMARK

FOUND DISC STAMPED "SFC STA 37" IN MONUMENT WELL ON SIDEWALK AT THE SOUTHWEST CORNER OF 34 THE STREET AND TELEGRAPH AVENUE, CITY OF OAKLAND DATUM.

ELEVATION USED = 50.036 FEET

CALL BEFORE YOU DIG 1-800-642-2444 USA Underground Service Alert

PROGRESS 9/27/22

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

PROFESSIONAL ENGINEER — No. 67686 — Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

KEYPLAN

NORTH

SHEET TITLE

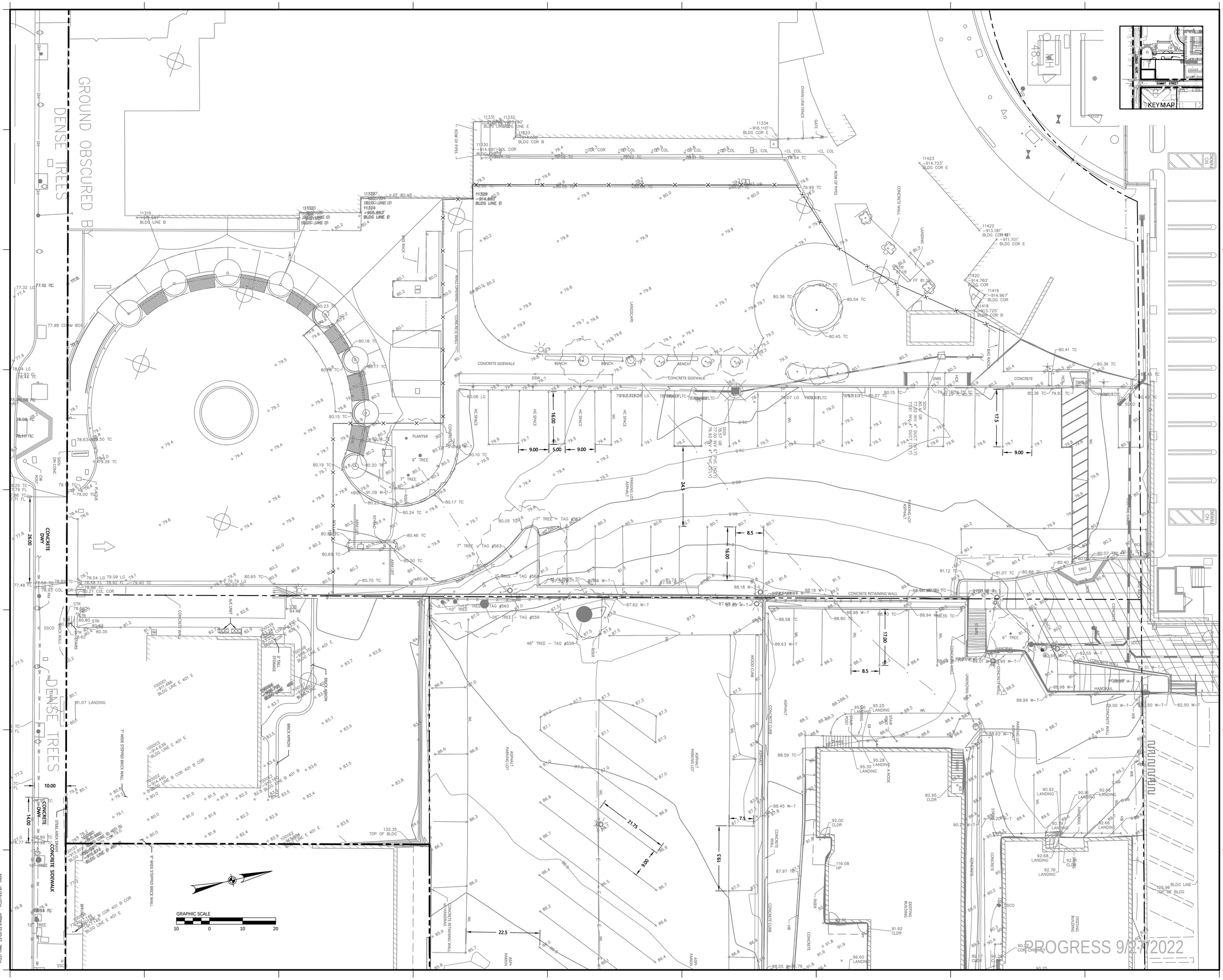
NOTES, LEGEND AND ABBREVIATIONS

PROJECT NUMBER

C1.0.0

SHEET NUMBER

DRAWING NAME: K:\2020\2019\0_Oakland_Cancer_Center-MOR\ENGINEER\SHEETS\P2-Onsite\SVCC-P2-C1.0.0.dwg (00)
PLOT TIME: 12-02-22 6:44pm PLOTTED BY: morii



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SEALS AND SIGNATURES

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KEYPLAN

NORTH

SHEET TITLE

EXISTING CONDITIONS PLAN

PROJECT NUMBER

C2.0.0

SHEET NUMBER

PROGRESS 9/27/2022

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\LVCC-P2-C200.dwg (00-0)
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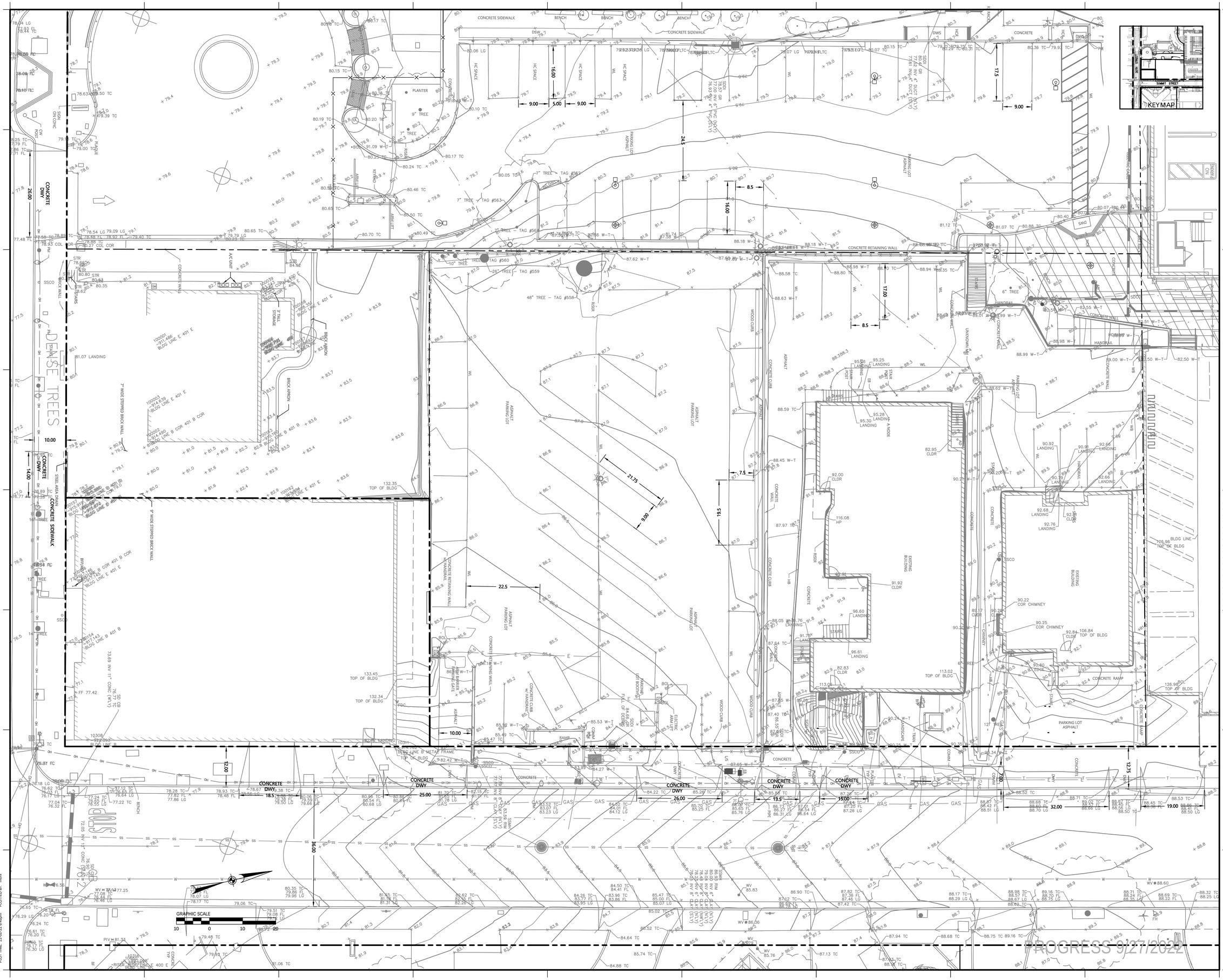

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SEALS AND SIGNATURES

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KEYPLAN

NORTH

SHEET TITLE

EXISTING CONDITIONS PLAN

PROJECT NUMBER

C2.0.1

SHEET NUMBER

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\PZ-Onsite\VCC-PZ-C200.dwg (00-1)
PLOT TIME: 12-02-22 6:45pm PLOTTED BY: mori

LEGEND

- APPROXIMATE LIMIT OF DEMO/WORK
- EXISTING FEATURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING HARDSCAPE TO BE REMOVED
- EXISTING LANDSCAPE TO BE REMOVED
- (1) EXISTING UTILITY/FEATURE TO REMAIN. PROTECT AS NECESSARY DURING CONSTRUCTION
- (2) ADJUST EXISTING FEATURE/UTILITY TO GRADE
- (3) EXISTING UTILITY/FEATURE TO BE REPLACED
- (4) EXISTING FEATURE TO BE REMOVED
- (5) ABANDON EXISTING FEATURE/UTILITY
- (6) CLEAR & GRUB
- (7) SAWCUT
- (8) GRIND/MILL

DEMOLITION NOTES

1. EXISTING UTILITIES SHOWN ARE SCHEMATIC AND FOR REFERENCE ONLY. CONTRACTOR TO EXPOSE (E) UTILITIES PRIOR OR DURING DEMOLITION/EXCAVATION TO EXPOSE (E) UTILITY SERVICES TO CONFIRM LOCATION AND DEPTH SUFFICIENT TO ALLOW CONSTRUCTION OF PLANNED PAVEMENT AND BIORETENTION UNITS. LOCATIONS AND DEPTHS SHALL BE PROVIDED TO ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
2. THIS PLAN SHOWS GENERAL LIMITS OF DEMOLITION AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK NECESSARY TO INSTALL NEW UTILITIES, SITE WORK, PAVING, ETC.
3. CLEAR AND GRUB WITHIN LIMITS OF DEMOLITION. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. REFER TO CITY OF OAKLAND CALGREEN CHECKLIST SECTION 5.408.3 FOR ADDITIONAL INFORMATION.
4. REFER TO GRADING & DRAINAGE PLAN FOR LIMITS OF PROPOSED PAVING.
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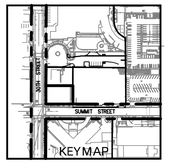
9. AT LIMIT OF WORK LOCATIONS, SAWCUTS SHALL BE NEAT AND SQUARE. SAWCUTS IN CONCRETE SHALL BE AT EXISTING JOINTS OR SCORE MARKS.
10. PROTECT ALL (E) BUILDINGS TO REMAIN AND VERIFY BUILDING FOUNDATION WILL NOT BE IMPACTED BY DEMOLITION ACTIVITIES.
11. THE LOCATION OF THE TEMPORARY CONSTRUCTION FENCE IS FOR A SPECIFIC PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUSTS THE FENCE AS REQUIRED TO COMPLETE THE SCOPE OF WORK REQUIRED FOR THE PROJECT BASED ON FIELD CONDITIONS.



LIMIT OF DEMO

TEMPORARY FENCE DURING CONSTRUCTION SEE NOTES

(6) LANDSCAPE

(E) WALL TO REMAIN

(4) (E) CURB AND GUTTER

REMOVE LANDSCAPING AND TREES

REMOVE PORTION OF (E)CANOPY.SAD AND SSD FOR ADDITIONAL INFORMATION

TEMPORARY FENCE DURING CONSTRUCTION SEE NOTES

REMOVE GATE CONTROL ARMS. CONTRACTOR TO COORDINATE WITH PERALTA AND SUTTER FOR SECURITY AND ACCESS REQUIREMENTS

(E) ELECTRICAL LINE (1)

(E) CURB (4)

CUT AND CAP (E) ELECTRICAL CONNECTION REMOVE (E) LIGHTS ON THE PERALTA SITE. CONTRACTOR TO CONFIRM SOURCE OF POWER AND CONFIRM REMOVAL DOES NOT NEGATIVELY AFFECT EXISTING INFRASTRUCTURE TO REMAIN

PROTECT (E) ELECT CONDUIT

REMOVE (E) ELECT CONDUIT

REMOVE TREES

REMOVE (E) ELECTRICAL CONDUIT (4)

REMOVE AC, TYP (4)

REMOVE PARKING LOT LIGHTS

(4) (E) CURB AND GUTTER

(4) (E) CONCRETE

REMOVE PARKING LOT LIGHTS

(E) PARKING LOT LIGHTS (4)

PROTECT IN PLACE (E) COM LINE (1)

(E) SD, PROTECT (1) IN PLACE

(4) (E) ADA RAMP

(E) SD, PROTECT (1) IN PLACE

(1) (E) SD, CO

(1) (E) SD , PROTECT IN PLACE

REMOVE (E) LIGHTS ON THE PERALTA SITE. CONTRACTOR TO CONFIRM SOURCE OF POWER AND CONFIRM REMOVAL DOES NOT NEGATIVELY AFFECT EXISTING INFRASTRUCTURE TO REMAIN

REMOVE WALL

PROTECT IN PLACE (E) COM LINE

REMOVE TREE

(4) (E) STRUCTURE

(E) ELECTRIC & TEL LINE TO BE REMOVE SED

CUT & CAP (E) ELECTRICAL LINE

REMOVE (E) LIGHT

REMOVE IRRIGATION LINE

(E) LIGHT (4)

REMOVE CURB GUTTER AND SIDEWALK

REMOVE (E) KNOCK OUT PANELS IN EXISTING GARAGE. SAD FOR ADDITIONAL INFORMATION

REMOVE (E) STRIPING TO ACCOMMODATE NEW ENTRANCE, SAD

REMOVE RAMP

RELOCATE (E) LOW VOLTAGE FACILITIES. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO CONSTRUCTION

REFER TO SHORING PLAN FOR UNDERPINNING INFORMATION

REMOVE BUILDING. SAD FOR BUILDING DEMOLITION

REMOVE BUILDING. SAD FOR BUILDING DEMOLITION

EXISTING PENTHOUSE TO REMAIN

EXISTING BUILDING

LIMIT OF DEMO

LIMIT OF DEMO

REFER TO SHORING PLAN FOR UNDERPINNING INFORMATION

GRAPHIC SCALE 10 0 10 20

PROGRESS 9/27/2022

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

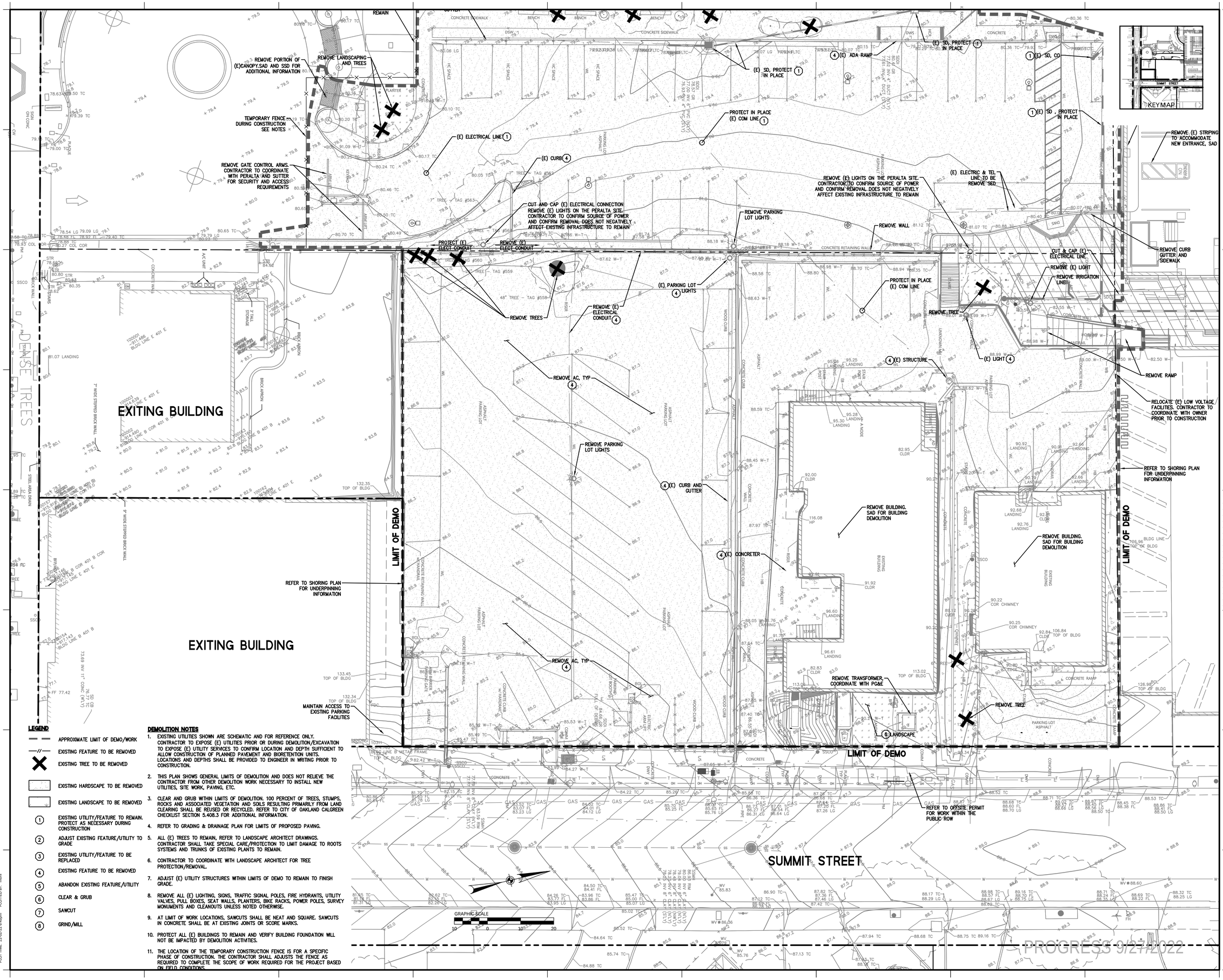
SHEET TITLE

DEMOLITION PLAN

PROJECT NUMBER

SHEET NUMBER C2.1.0

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\PZ-OnsiteUVCC-PZ-C2D0.dwg 03-09
PLOT TIME: 12-02-22 6:45pm PLOTTED BY: mooli



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DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOR\ENGSHEETS\PZ_Onsite\VCC-PZ-C2200.dwg (01-1)
PLOT TIME: 12-02-22 6:46pm PLOTTED BY: monil

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SEALS AND SIGNATURES

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REGISTERED PROFESSIONAL ENGINEER — JAMES C. HEFFERNAN — No. 67085 — Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

KEYPLAN

NORTH

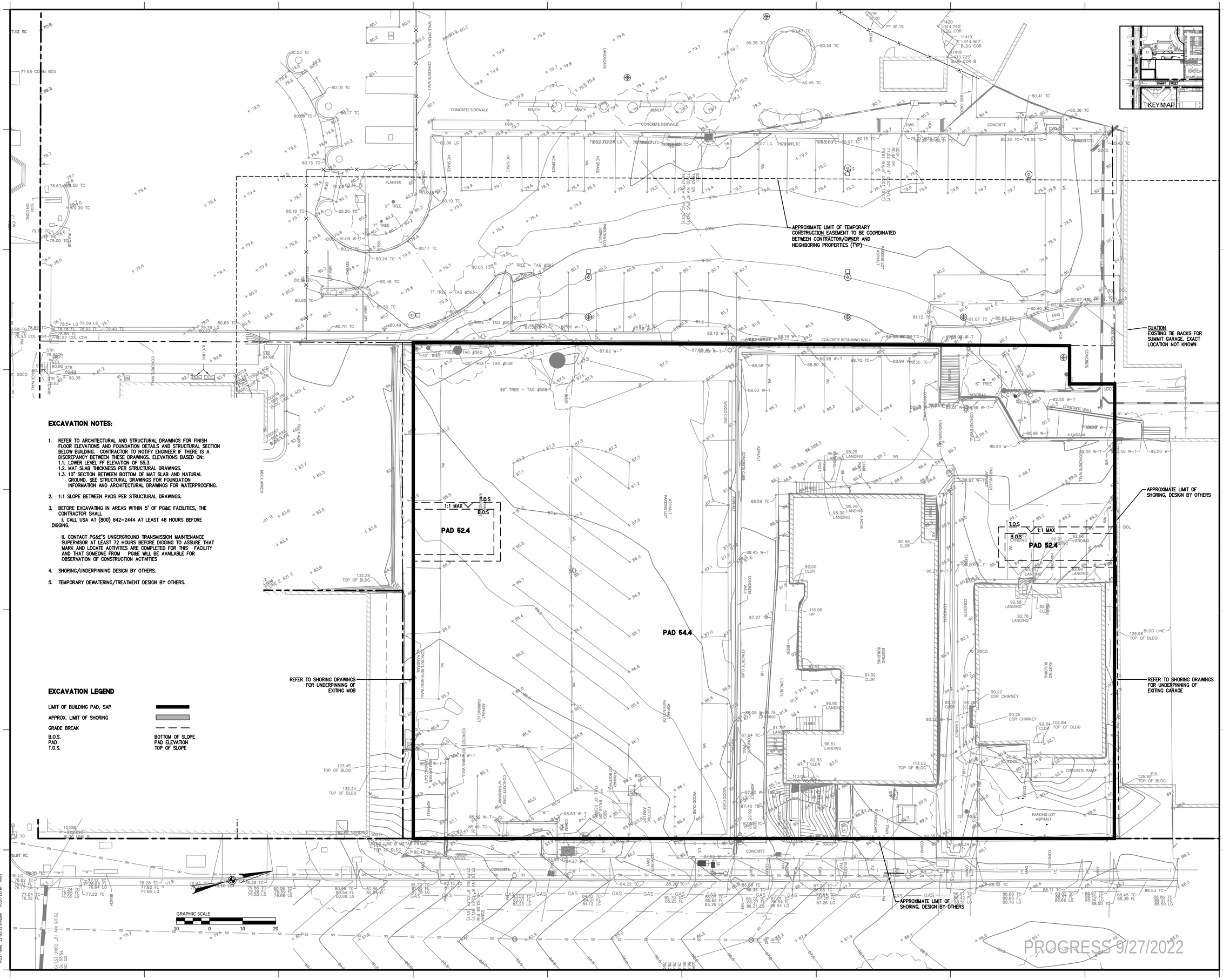
SHEET TITLE

DEMOLITION PLAN

PROJECT NUMBER

C2.1.1

SHEET NUMBER



EXCAVATION NOTES:

1. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS AND FOUNDATION DETAILS AND STRUCTURAL SECTION BELOW BUILDING. CONTRACTOR TO NOTIFY ENGINEER IF THERE IS A DISCREPANCY BETWEEN THESE DRAWINGS. ELEVATIONS BASED ON:
   1.1. LOWER LEVEL FF ELEVATION OF 55.3.
   1.2. MAT SLAB THICKNESS PER STRUCTURAL DRAWINGS.
   1.3. 10" SECTION BETWEEN BOTTOM OF MAT SLAB AND NATURAL GROUND. SEE STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION AND ARCHITECTURAL DRAWINGS FOR WATERPROOFING.
2. 1:1 SLOPE BETWEEN PADS PER STRUCTURAL DRAWINGS.
3. BEFORE EXCAVATING IN AREAS WITHIN 5' OF PG&E FACILITIES, THE CONTRACTOR SHALL
   I. CALL USA AT (800) 642-2444 AT LEAST 48 HOURS BEFORE DIGGING.
   II. CONTACT PG&E'S UNGERGROUND TRANSMISSION MAINTENANCE SUPERVISOR AT LEAST 72 HOURS BEFORE DIGGING TO ASSURE THAT MARK AND LOCATE ACTIVITIES ARE COMPLETED FOR THIS FACILITY AND THAT SOMEONE FROM PG&E WILL BE AVAILABLE FOR OBSERVATION OF CONSTRUCTION ACTIVITIES
4. SHORING/UNDERPINNING DESIGN BY OTHERS.
5. TEMPORARY DEWATERING/TREATMENT DESIGN BY OTHERS.

EXCAVATION LEGEND

LIMIT OF BUILDING PAD, SAP	
APPROX. LIMIT OF SHORING	
GRADE BREAK	
B.O.S.	BOTTOM OF SLOPE
PAD	PAD ELEVATION
T.O.S.	TOP OF SLOPE

DRAWING NAME: K:\2020\20310_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\IVCC-P2-C200.dwg (02)
PLOT TIME: 12-02-22 6:45pm PLOTTED BY: mooi

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE

EXCAVATION PLAN

PROJECT NUMBER

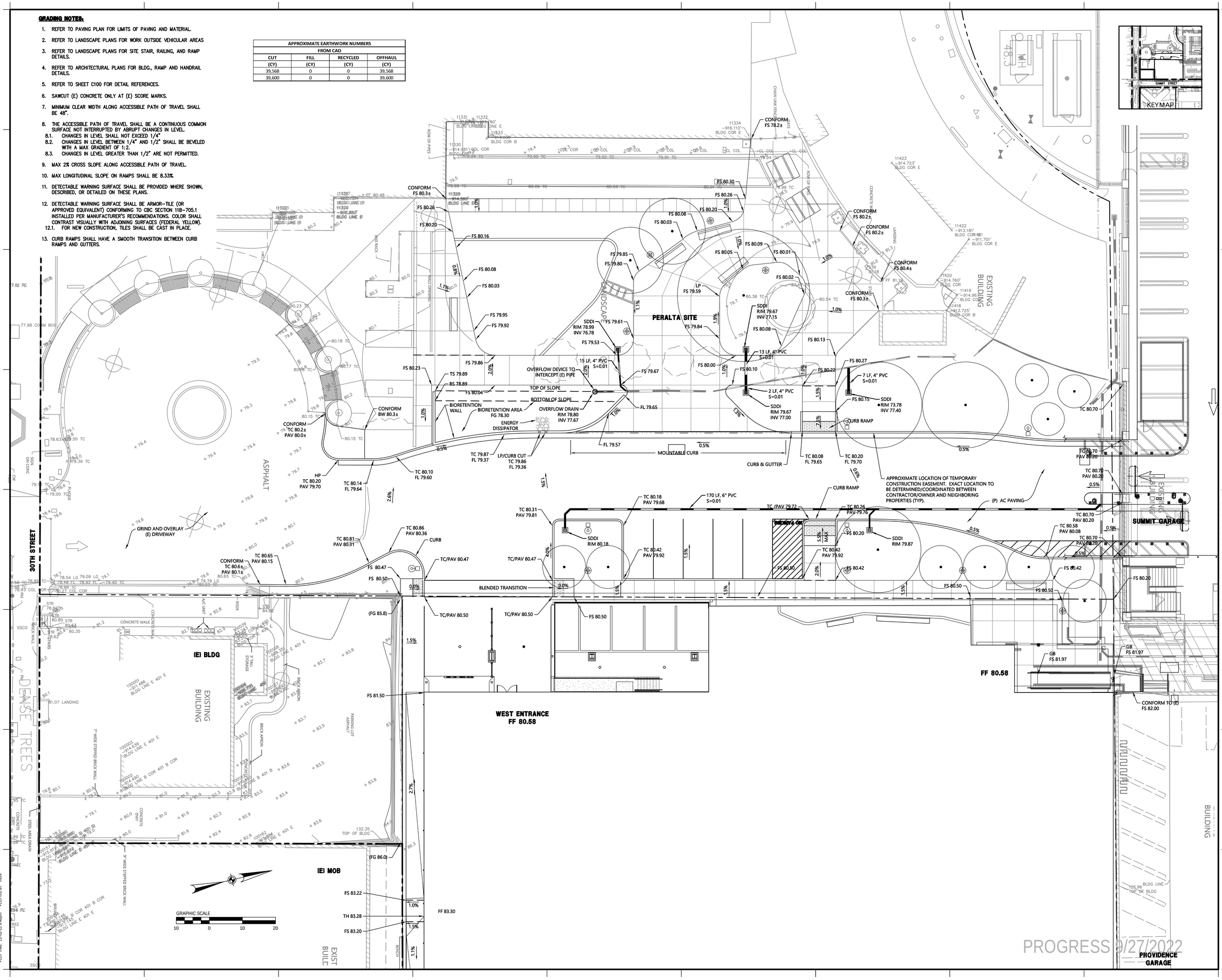
C2.2.0

SHEET NUMBER

GRADING NOTES:

1. REFER TO PAVING PLAN FOR LIMITS OF PAVING AND MATERIAL.
2. REFER TO LANDSCAPE PLANS FOR WORK OUTSIDE VEHICULAR AREAS
3. REFER TO LANDSCAPE PLANS FOR SITE STAIR, RAILING, AND RAMP DETAILS.
4. REFER TO ARCHITECTURAL PLANS FOR BLDG., RAMP AND HANDRAIL DETAILS.
5. REFER TO SHEET C100 FOR DETAIL REFERENCES.
6. SAWCUT (E) CONCRETE ONLY AT (E) SCORE MARKS.
7. MINIMUM CLEAR WIDTH ALONG ACCESSIBLE PATH OF TRAVEL SHALL BE 48".
8. THE ACCESSIBLE PATH OF TRAVEL SHALL BE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY ABRUPT CHANGES IN LEVEL.
   - 8.1. CHANGES IN LEVEL SHALL NOT EXCEED 1/4"
   - 8.2. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A MAX GRADIENT OF 1:2.
   - 8.3. CHANGES IN LEVEL GREATER THAN 1/2" ARE NOT PERMITTED.
9. MAX 2% CROSS SLOPE ALONG ACCESSIBLE PATH OF TRAVEL.
10. MAX LONGITUDINAL SLOPE ON RAMPS SHALL BE 8.33%.
11. DETECTABLE WARNING SURFACE SHALL BE PROVIDED WHERE SHOWN, DESCRIBED, OR DETAILED ON THESE PLANS.
12. DETECTABLE WARNING SURFACE SHALL BE ARMOR-TILE (OR APPROVED EQUIVALENT) CONFORMING TO CBC SECTION 11B-705.1 INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES (FEDERAL YELLOW).
    - 12.1. FOR NEW CONSTRUCTION, TILES SHALL BE CAST IN PLACE.
13. CURB RAMPS SHALL HAVE A SMOOTH TRANSITION BETWEEN CURB RAMPS AND GUTTERS.

APPROXIMATE EARTHWORK NUMBERS			
FROM CAD			
CUT	FILL	RECYCLED	OFFHAUL
(CY)	(CY)	(CY)	(CY)
39,568	0	0	39,568
39,600	0	0	39,600



PROGRESS 9/27/2022

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE

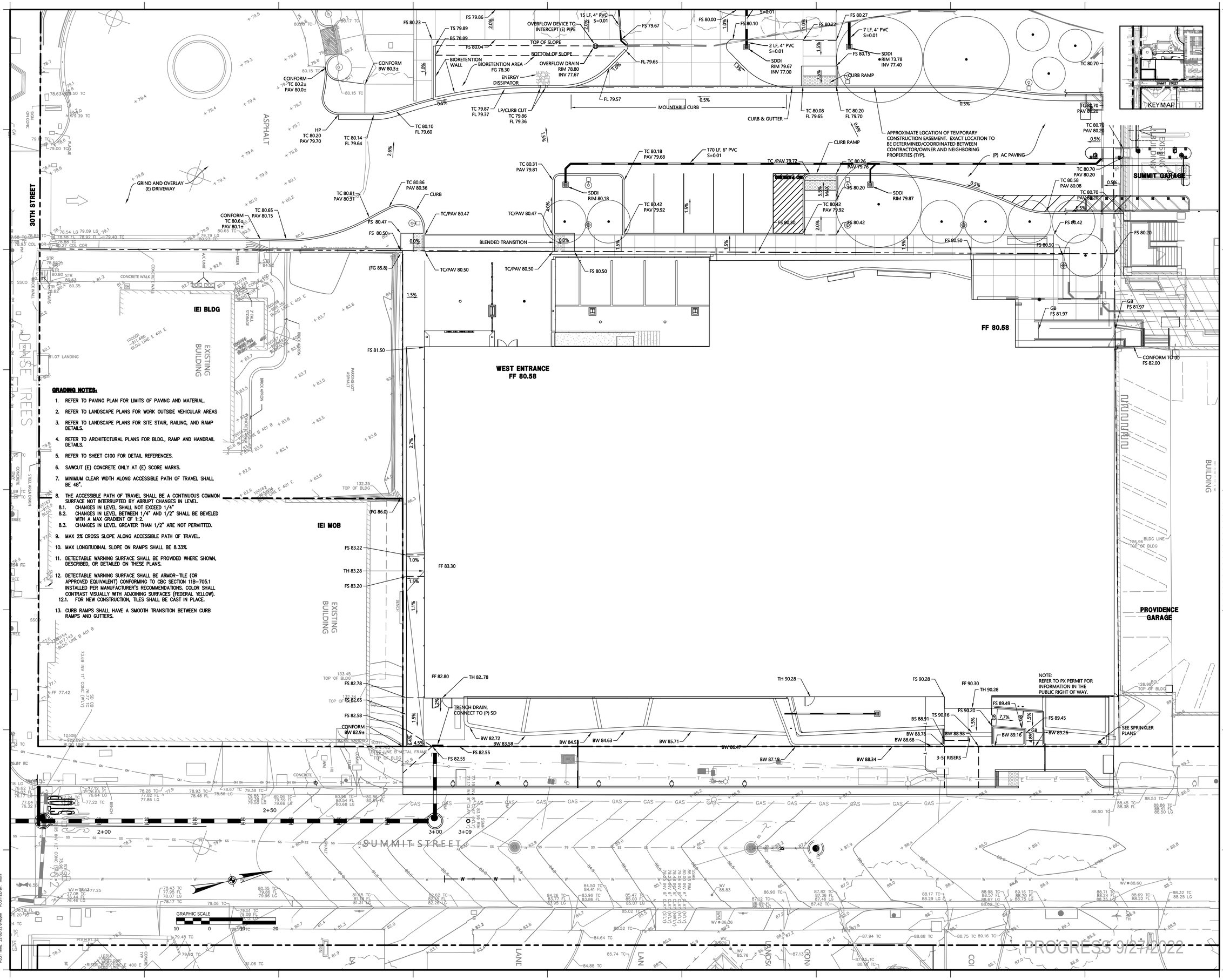
GRADING PLAN

PROJECT NUMBER

C3.0.0

SHEET NUMBER

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\JVCC-P2-C300.dwg (00)
PLOT TIME: 12-02-22 6:46pm PLOTTED BY: mcnl



Stanford MEDICINE

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER — JOHN C. HEFFERNAN — No. 67085 — Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

KEYPLAN

NORTH

SHEET TITLE

GRADING PLAN

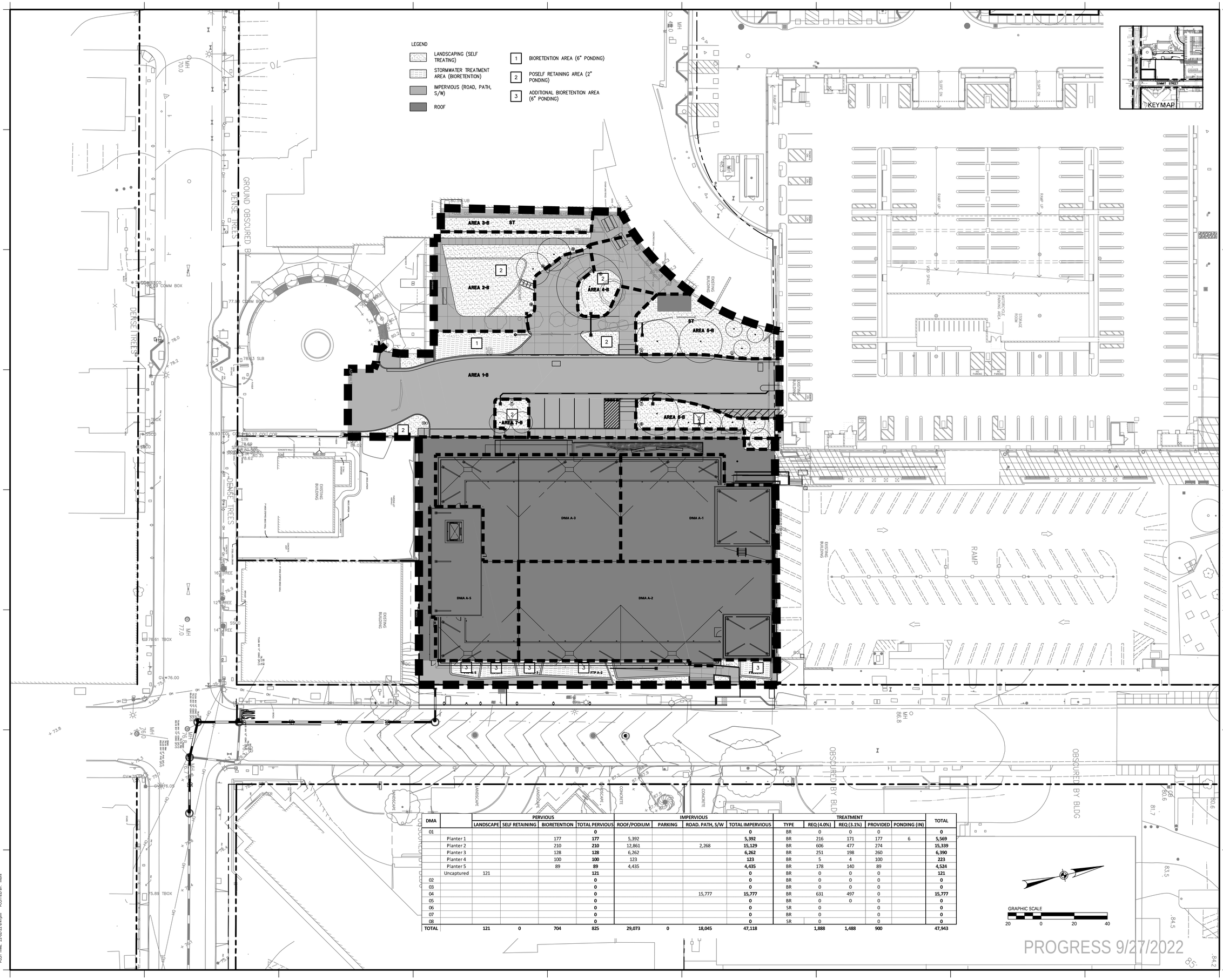
PROJECT NUMBER

C3.0.1

SHEET NUMBER

PROGRESS 9/27/2022

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOR\ENGSHEETS\PZ_Onsite\VCC-PZ-C3300.dwg (01)
PLOT TIME: 12-01-22 6:46pm PLOTTED BY: monil



DMA		PERVIOUS				IMPERVIOUS				TREATMENT					TOTAL
		LANDSCAPE	SELF RETAINING	BIORETENTION	TOTAL PERVIOUS	ROOF/PODIUM	PARKING	ROAD. PATH, S/W	TOTAL IMPERVIOUS	TYPE	REQ (4.0%)	REQ (3.1%)	PROVIDED	PONDING (IN)	
01					**0**				**0**	BR	0	0	0		**0**
	Planter 1			177	**177**	5,392			**5,392**	BR	216	171	177	6	**5,569**
	Planter 2			210	**210**	12,861		2,268	**15,129**	BR	606	477	274		**15,339**
	Planter 3			128	**128**	6,262			**6,262**	BR	251	198	260		**6,390**
	Planter 4			100	**100**	123			**123**	BR	5	4	100		**223**
	Planter 5			89	**89**	4,435			**4,435**	BR	178	140	89		**4,524**
	Uncaptured	121			**121**				**0**	BR	0	0	0		**121**
02					**0**				**0**	BR	0	0	0		**0**
03					**0**				**0**	BR	0	0	0		**0**
04					**0**			15,777	**15,777**	BR	631	497	0		**15,777**
05					**0**				**0**	BR	0	0	0		**0**
06					**0**				**0**	SR	0		0		**0**
07					**0**				**0**	BR	0		0		**0**
08					**0**				**0**	SR	0		0		**0**
TOTAL		**121**	**0**	**704**	**825**	**29,073**	**0**	**18,045**	**47,118**		**1,888**	**1,488**	**900**		**47,943**

PROGRESS 9/27/2022

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE

STORMWATER CONTROL PLAN

PROJECT NUMBER

C4.0.0

SHEET NUMBER

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\PZ-Onsite\JVCC-PZ-C400.dwg (00)
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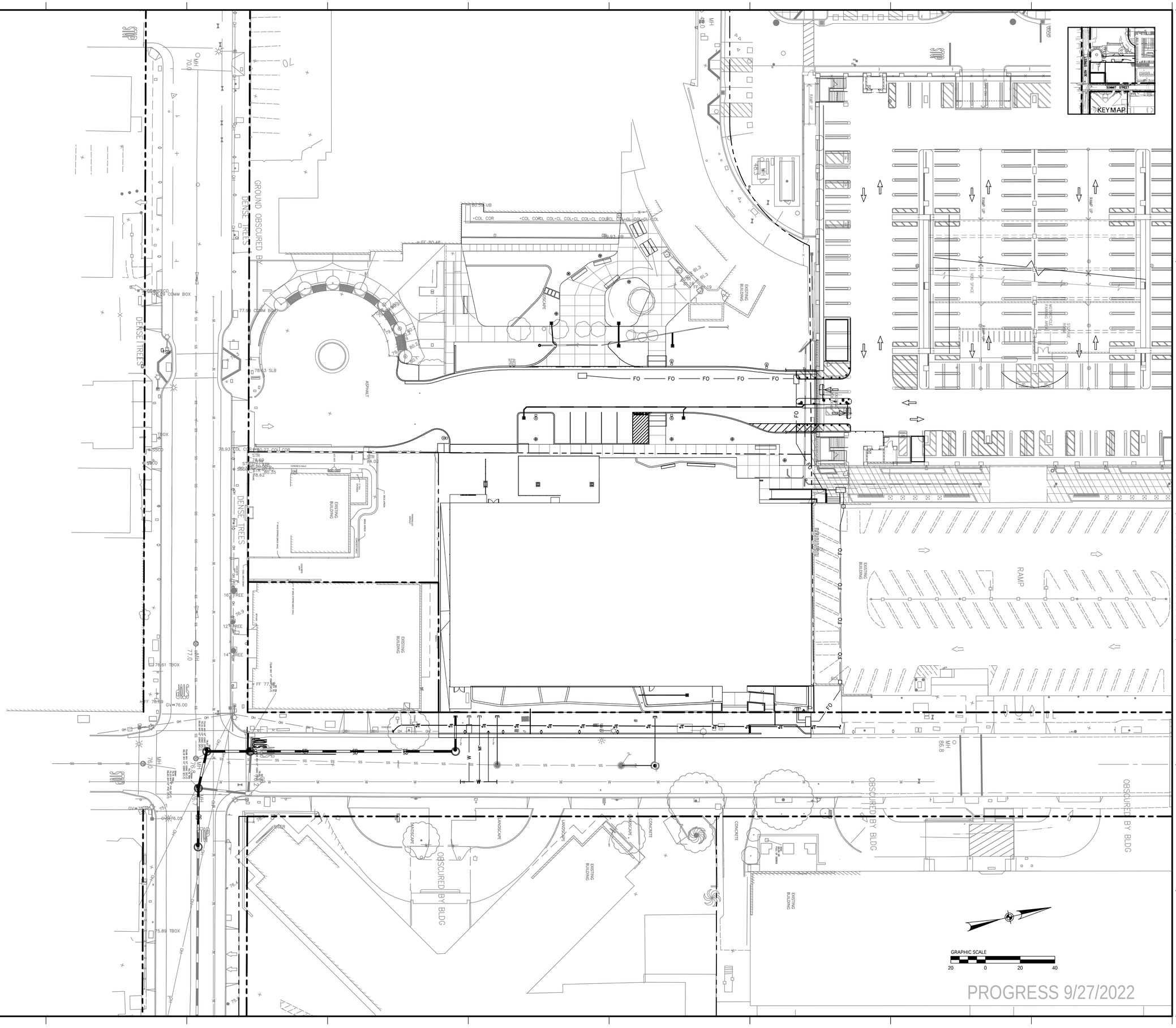

DRAWING NAME: K:\2020\20191D_Oakland_Cancer_Center-MOB\ENGSHEETS\P2-Onsite\VCC-P2-C500.dwg (00)
PLOT TIME: 12-02-22 6:47pm PLOTTED BY: monl

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. HEFFERNAN — No. 67085 — Exp. 3/30/22 — CIVIL — STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE

UTILITY PLAN

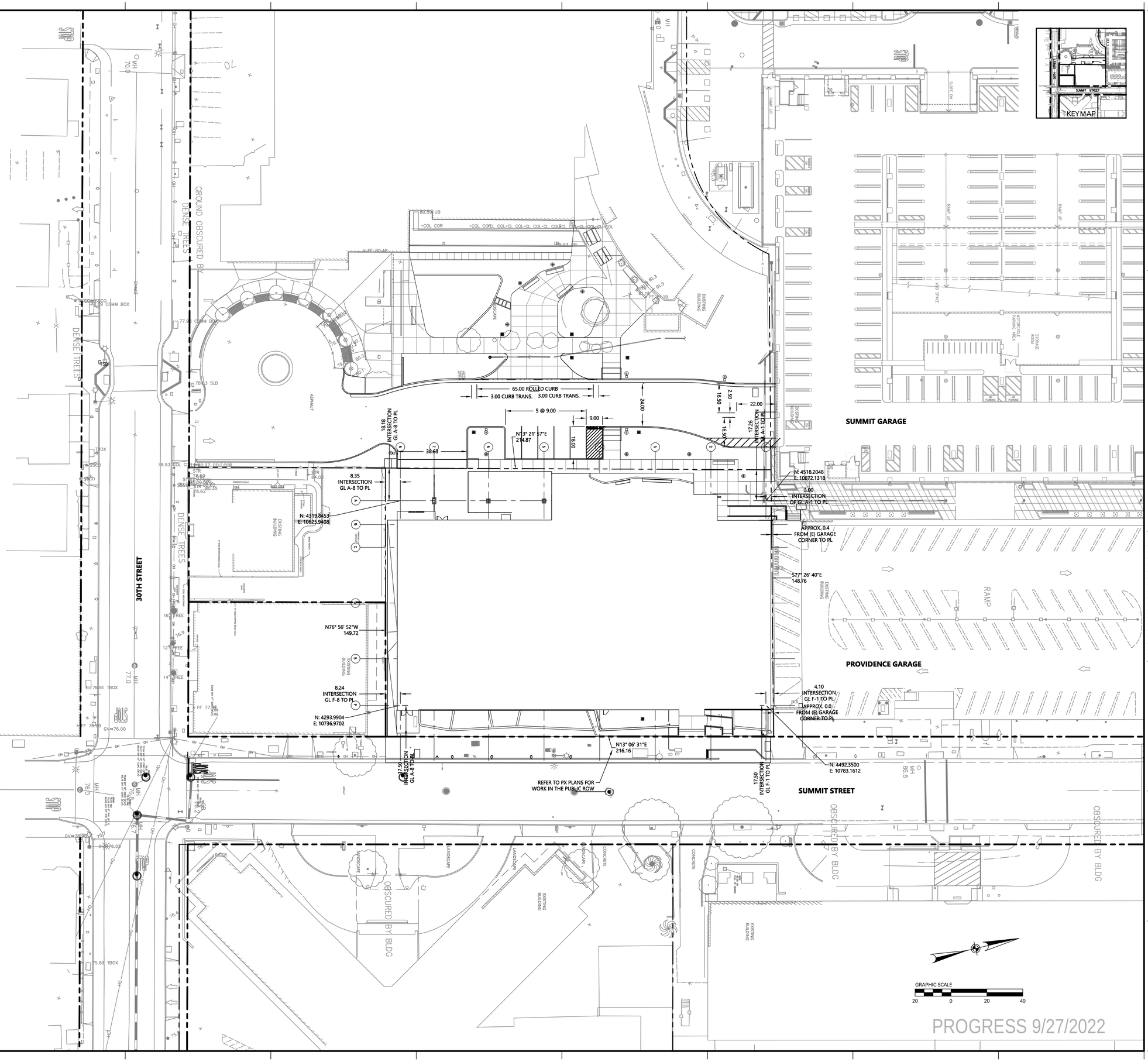
PROJECT NUMBER

C5.0.0

SHEET NUMBER

NOTES:

1. DIMENSIONS FROM EXISTING BUILDINGS TO PROPERTY LINES ARE APPROXIMATE AND ARE FROM EXISTING OUTSIDE FACE OF WALL/STRUCTURE UNLESS OTHERWISE NOTED.
2. TIES TO GRIDLINES ARE FROM GRID INTERSECTIONS PERPENDICULAR TO PROPERTY LINES.



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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE

HORIZONTAL CONTROL PLAN

PROJECT NUMBER

C6.0.0

SHEET NUMBER

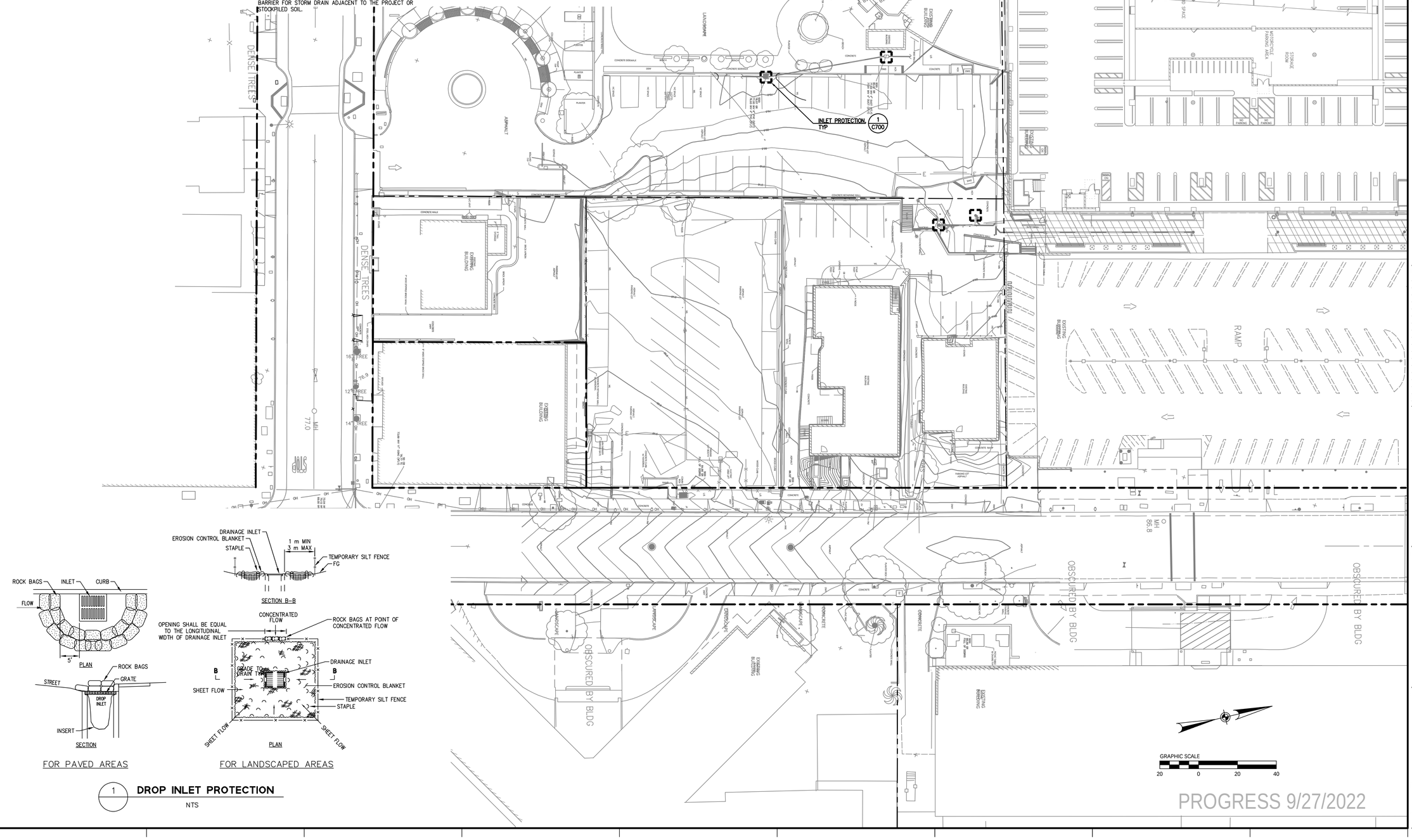
DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\UVCC-P2-C600.dwg (00)
PLOT TIME: 12-02-22 6:47pm PLOTTED BY: mcnl

EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES SHALL CONFORM TO ABAG STANDARDS, TOWN STANDARDS AND THE APPROVAL OF THE TOWN'S ENGINEERING DEPARTMENT.
2. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE ON SITE BY SEPTEMBER 15TH AND IN PLACE BY OCTOBER 1ST.
3. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 1ST THROUGH APRIL 30TH, WHICHEVER IS LONGER.
4. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
6. PROJECTS MUST HAVE ALL CUT AND FILL SLOPES PROTECTED BY AND DISTURBED AREAS BY ONE OF THE FOLLOWING MEASURES OR THE COMBINATION OF THEM: TEMPORARY SEEDING AND MULCHING, PERMANENT SEEDING AND MULCHING, HYDROMULCHING–HYDROSEEDING, EROSION CONTROL BLANKETS/GEOTEXTILES, AND FIBER ROLLS;
7. ANY AREAS OF DISTURBED SOIL SHALL BE SEEDED OR REPLANTED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO OCTOBER 1ST, OR FINAL INSPECTION, WHICHEVER IS SOONER.
8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED BY TOWN'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
9. PROJECTS SHALL PREVENT ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEM.

ADDITIONAL EROSION CONTROL NOTES

1. THIS PLAN MAY NOT COVER ALL THE SITUATIONS OR PHASES THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT STORM RUNOFF FROM LEAVING THE SITE. SEDIMENT ROLLS AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WITH THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
2. EROSION CONTROL FACILITIES SHALL BE MAINTAINED DAILY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION–CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT FREE STORM WATER INTO EXISTING AND PROPOSED STORM DRAIN FACILITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB–CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.
4. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
5. IF EXISTING DRIVEWAY IS REMOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL PLACE DRAIN ROCK AS A GRAVEL ROADWAY (8" MINIMUM THICKNESS FOR THE FULL WIDTH AND LENGTH OF SITE EGRESS AREA AS DEFINED IN THESE PLANS) AT THE ENTRANCE TO THE SITE.
6. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM.
7. DURING PERIODS WHEN STORMS ARE FORECAST:
   - A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREA.
   - B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
   - C. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH FIBER ROLLS, GRAVEL SEDIMENT BARRIER, SILT FENCE OR OTHER RUNOFF CONTROLS.
   - D. USE INLET CONTROLS AS NEEDED (E.G. BLOCK & GRAVEL SEDIMENT BARRIER FOR STORM DRAIN ADJACENT TO THE PROJECT OR STOCKPILED SOIL.
9. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
10. STAND–BY CREWS SHALL BE ALERTED BY THE PERMIT APPLICANT OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
11. AFTER OCTOBER 1ST TO APRIL 15TH, ALL EROSION CONTROL MEASURES WILL BE INSPECTED DAILY AND AFTER EACH STORM. BREACHES IN DIKES AND TEMPORARY SWALES WILL BE REPAIRED AT THE CLOSE OF EACH DAY AND WHENEVER RAIN IS FORECAST.
12. AS A PART OF THE EROSION CONTROL MEASURES, UNDERGROUND STORM DRAIN FACILITIES SHALL BE INSTALLED COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS.
13. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.
14. SANDBAGS SHALL BE STOCKPILED ON SITE AND PLACED AT INTERVALS SHOWN ON EROSION CONTROL PLANS WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.
15. SANDBAGS REFERRED TO IN THE PRECEDING ITEMS MUST BE FULL. APPROVED SANDBAG FILL MATERIALS ARE SAND, DECOMPOSED GRANITE, AND/OR GRAVEL, OR OTHER MATERIALS APPROVED BY THE INSPECTOR.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFETY OF VEHICLES OPERATING IN ROADWAY ADJACENT TO EROSION CONTROL FACILITIES.
17. AFTER RAINSTORMS CONTRACTOR SHALL CHECK FOR AND REMOVE SEDIMENT TRAPPED BY SANDBAGS AT STAGING AREA. REPLACE SANDBAGS IF DETERIORATION IS EVIDENT.
18. DUST CONTROL SHOULD BE PRACTICED ON ALL CONSTRUCTION SITES WITH EXPOSED SOIL AS NEEDED. IT IS IMPORTANT IN WINDY OR WIND–PRONE AREAS. DUST CONTROL IS CONSIDERED A TEMPORARY MEASURE AND AS AN INTERMEDIATE TREATMENT BETWEEN SITE DISTURBANCE AND CONSTRUCTION, PAVING, OR REVEGETATION.



1 **DROP INLET PROTECTION**
NTS

PROGRESS 9/27/2022

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

PROFESSIONAL ENGINEER — No. 67085 — Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE
EROSION CONTROL PLAN

PROJECT NUMBER
C7.0.0

SHEET NUMBER

DRAWING NAME: K:\2020\2019\0_Oakland_Cancer_Center-MOB\ENGISHEETS\P2-Onsite\LVCC-P2-C700.dwg (00)
PLOT TIME: 12-02-22 6:48pm PLOTTED BY: monl

EROSION CONTROL NOTES

1. THE PROJECT WILL DISTURB MORE THAN ONE ACRE OF LAND AND IS THEREFORE SUBJECT TO THE STATE'S CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS OF THE PROJECT SPECIFIC SWPPP AT ALL TIMES.
   1.1. WDID No. : XXXXXXXXX
2. EROSION CONTROL MEASURES SHALL CONFORM TO ABAG STANDARDS, TOWN STANDARDS AND THE APPROVAL OF THE TOWN'S ENGINEERING DEPARTMENT.
3. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE ON SITE BY SEPTEMBER 15TH AND IN PLACE BY OCTOBER 1ST.
4. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 1ST THROUGH APRIL 30TH, WHICHEVER IS LONGER.
5. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
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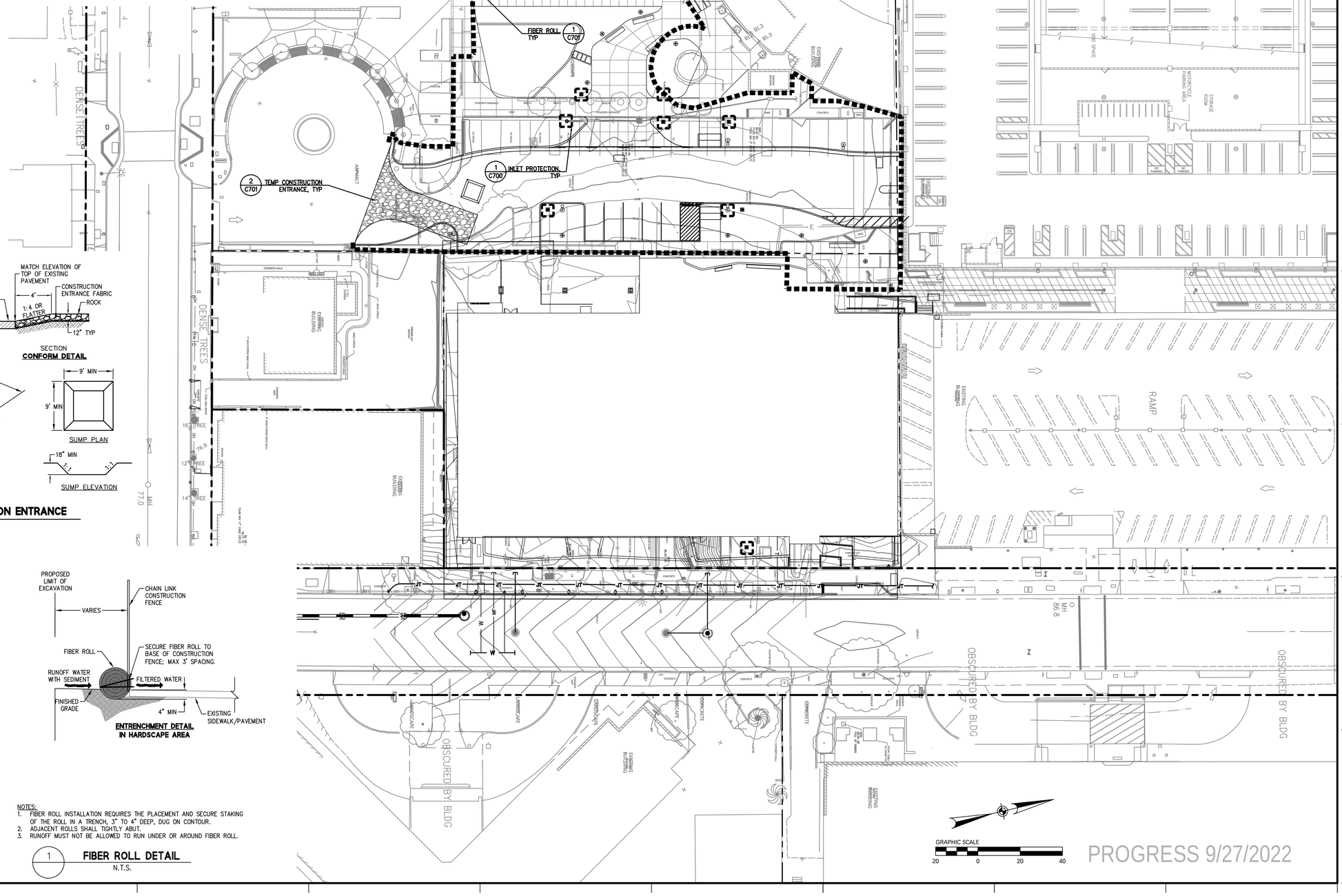
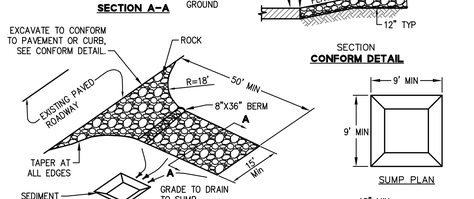
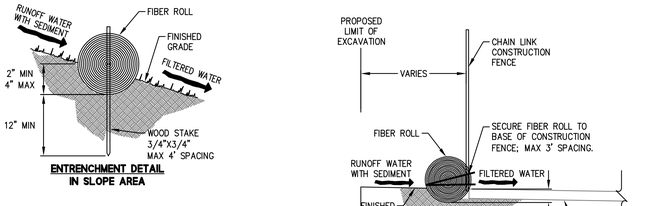




2 TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.



NOTES:
1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
2. ADJACENT ROLLS SHALL TIGHTLY ABUT.
3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

1 FIBER ROLL DETAIL
N.T.S.

PROGRESS 9/27/2022

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City, State, Zip
Phone

Consultant One
DISCIPLINE ONE
Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER TIMOTHY P. HEFFERNAN No. 67085 Exp. 9/30/22 CIVIL STATE OF CALIFORNIA

KEYPLAN

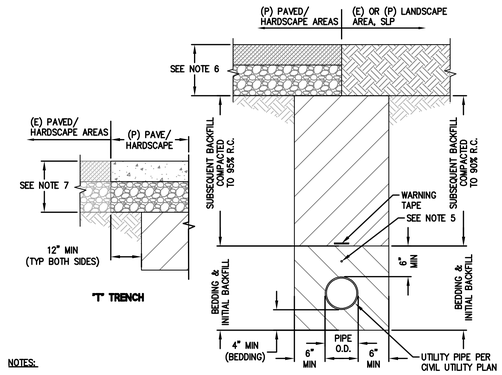
NORTH

SHEET TITLE
EROSION CONTROL PLAN

PROJECT NUMBER
C7.0.1

SHEET NUMBER

DRAWING NAME: K:\2020\2013\10_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\VCC-P2-C700.dwg (01)
PLOT TIME: 12-02-22 6:48pm PLOTTED BY: mord

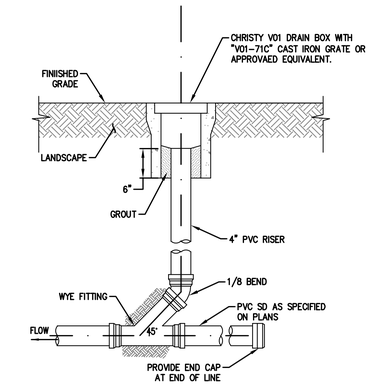


"T" TRENCH

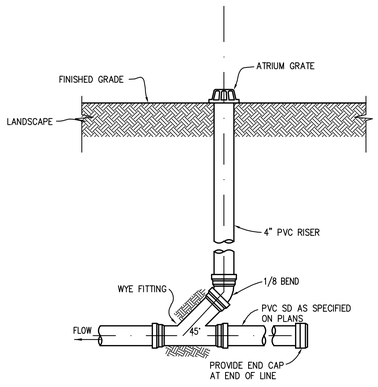
NOTES:

1. BEDDING AND INITIAL BACKFILL:
   1.1. SAND PER CALTRANS SPECIFICATION SECTION 19-3025B, COMPACTED TO 95% R.C.
   1.2. UNDER SATURATED CONDITIONS AND APPROVED BY THE ENGINEER AND GEOTECHNICAL CONSLUTATNT – MANUFACTURED AGGREGATE PER ASTM 2321 CLASS 1A (3/8" MAX). COMPACTION SHALL BE BY VIBRATORY EQUIPMENT OR AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
2. SUBSEQUENT BACKFILL:
   2.1. CLASS II AGGREGATE BASE PER CALTRANS SPECIFICATION SECTION 26 (3/4" MAX). REFER TO DETAIL FOR COMPACTION REQUIREMENTS.
   2.2. IMPORTED OR EXCAVATED ONSITE SOIL CONFORMING TO STRUCTURAL FILL PER SPECIFICATION SECTION ## ## ## APPROVED BY THE GEOTECHNICAL CONSULTANT. REFER TO DETAIL FOR COMPACTION REQUIREMENTS.
3. BACKFILL TO BE COMPACTED IN LIFTS NOT EXCEEDING 8-INCHES.
4. ALL UTILITY TRENCHES THAT CROSS BELOW BUILDINGS, PAVEMENTS, CURBS, GUTTER AND SIDEWALKS SHALL BE PLUGGED AT LEAST 2-FEET THICK AND 2-FEET BEYOND TRENCH EDGE WITH COMPACTED CLAYEY-SOIL, COMPACTEED BENTONITE, A BENTONITE-CEMENT OR SAND-CEMENT SLURRY MIXTURE.
5. TRACER WIRE SHALL BE PROVIDED FOR NON-METALLIC UTILITY PIPES
6. REFER TO PAVING PLANS FOR PAVEMENT SECTION.
7. MIN PAVING SECTION SHALL MATCH EXISTING OR SHALL BE PER PAVING PLAN, WHICHEVER IS GREATER.

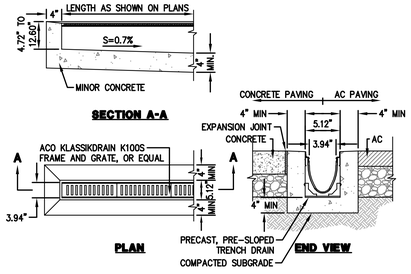
1 – UTILTY TRENCH
NTS



2 – AREA DRAIN
NTS

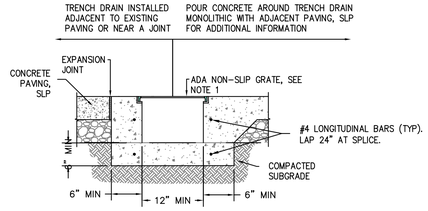


3 – AREA DRAIN (TYPE-2)
NTS



NOTES:
1. ACO KLASSIKDRAIN 0.7% SLOPED CHANNELS IN METER LENGTHS 1/2 METER LENGHTS AND 40 DEPTHS WHICH CONNECT TO CREATE CONTINUOUSLY SLOPING RUN. HALF METER CHANNELS AND NEUTRAL SLOPING CHANNELS ARE ALSO AVAILABLE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. CONTRACTOR SHALL PROVIDE ADA COMPLIANT GRATES IN ADA ACCESSIBLE AREAS.
3. CONTRACTOR SHALL PROVIDE TRAFFIC RATED GRATES IN VEHICULAR LOADING AREAS.
4. PROVIDE OUTLET STRAINER.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

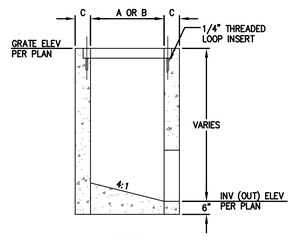
4 – 4" TRENCH DRAIN
NTS



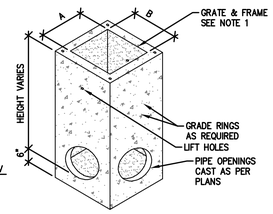
NOTES:
1. FRAME AND GRATE SHALL BE GRATING PACIFIC MODEL TSP-12-EZ.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5 – CAST-IN-PLACE TRENCH DRAIN
NTS

TYPE	A	B	C	MODEL
1	12"	12"	4"	DI-1212
2	24"	24"	5"	DI-2424
3	24"	30"	5"	DI-2430
4	36"	36"	6"	DI-3636



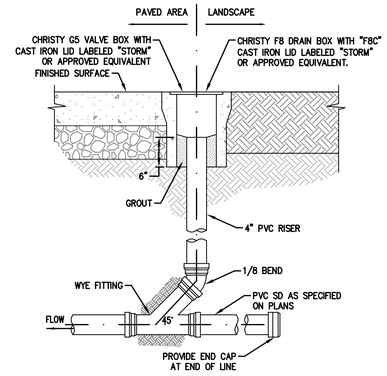
FRONT



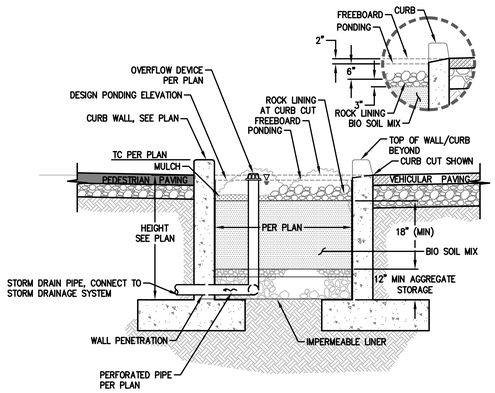
ISOMETRIC

NOTES
1. REFER TO OLDCASTLE PRE-CAST PRODUCTS OR APPROVED EQUIVALENT.
2. DROP INLETS SHALL BE:
   2.1. RATED FOR H20 LOADING,
   2.2. HAVE A STANDARD HEAVY DUTY ADA COMPLIANT FRAME AND GRATE AND,
   2.3. SHALL BE PROVIDED WITH A LOCKING DEVICE.

6 – DROP INLET
NTS

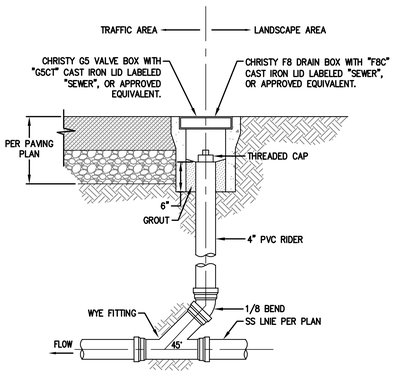


7 – STORM DRAIN CLEANOUT
NTS



NOTE:
1. BOTTOM OF UNDERDRAIN PIPE SHALL BE LESS THAN 2" ABOVE BOTTOM OF AGGREGATE STORAGE LAYER FOR LINED BIORETENTION AREAS.

8 – TYPICAL CAST-IN PLACE TREATMENT STRUCTURE (BIORETENTION AREA TYPE 2)
NTS



9 – SANITARY SEWER CLEANOUT
NTS

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE
Stanford Medicine
Sutter Health
Cancer Center
3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

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DISCIPLINE TWO
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Phone

Consultant One
DISCIPLINE ONE
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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

PROFESSIONAL ENGINEER REGISTERED No. 67685 Exp. 9/30/22 CIVIL STATE OF CALIFORNIA

KEYPLAN

NORTH

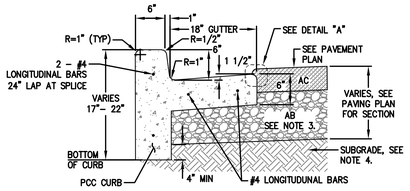
SHEET TITLE
CONSTRUCTION DETAILS

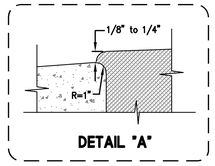
PROJECT NUMBER
C8.0.0

SHEET NUMBER

PROGRESS 9/27/2022

DRAWING NAME: K:\2020\20101O_Oakland_Cancer_Center-MOB\ENG\SHEETS\PZ-Onsite\JVCC-PZ-C800.dwg (00)
PLOT TIME: 12-02-22 5:48pm PLOTTED BY: monil

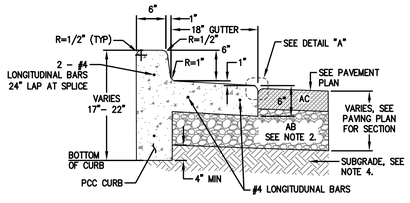


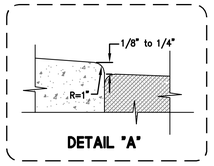


NOTES:

1. PORTLAND CEMENT CONCRETE SHALL BE CLASS B PER CITY OF OAKLAND STANDARDS.
2. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.
3. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.
5. CURB SHOULD EXTEND A MIN OF 4" BELOW THE BOTTOM OF THE PAVEMENT AND BASEROCK LAYER.
6. CURB OPENING SHALL NOT OCCUR WITHIN EXPANSION JOINT.

1 — CURB & GUTTER (TYPE 1)
N.T.S.





NOTES:

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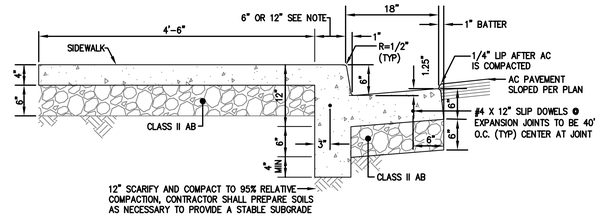
2. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.
3. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.
5. CURB SHOULD EXTEND A MIN OF 4" BELOW THE BOTTOM OF THE PAVEMENT AND BASEROCK LAYER.
6. CURB OPENING SHALL NOT OCCUR WITHIN EXPANSION JOINT.

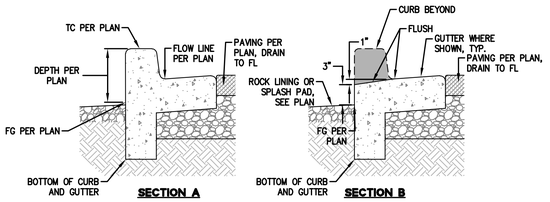
2 — CURB & GUTTER (TYPE 2) (REVERSE PITCH)
N.T.S.

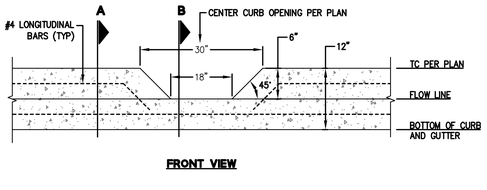


NOTES:

1. INCREASE WIDTH OF CURB TO 12" AT ALL END PARKING STALLS ADJACENT TO LANDSCAPING.

3 — CURB & GUTTER WITH SIDEWALK
NTS

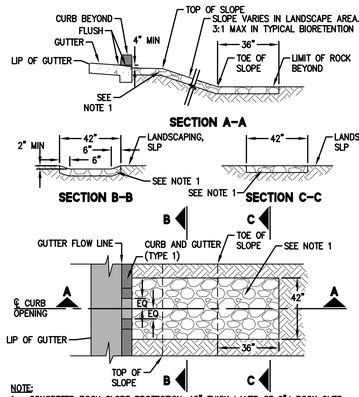




NOTES:

1. PORTLAND CEMENT CONCRETE SHALL BE CLASS B PER CITY OF OAKLAND STANDARDS.
2. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.
3. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.
5. CURB SHOULD EXTEND A MIN OF 4" BELOW THE BOTTOM OF THE PAVEMENT AND BASEROCK LAYER.

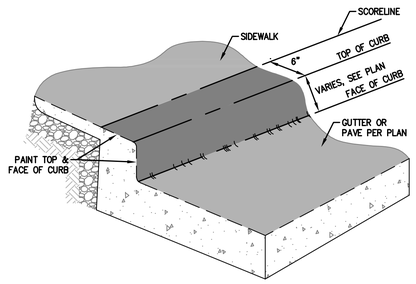
4 — CURB CUT
NTS



NOTE:

1. CONCRETED ROCK SLOPE PROTECTION. 12" THICK LAYER OF 6"ø ROCK OVER FILTER FABRIC (MIRAFI 140N OR APPROVED EQUIVALENT.). THE TOP OF THE ROCKS SHALL BE AT, OR JUST BELOW, THE ADJACENT LANDSCAPE GRADE.
2. CONCRETE SHALL BE MINOR CONCRETE PER PROJECT SPECIFICATIONS AND CALTRANS SPECIFICATIONS SECTION 72-3.02B.
3. PLACE CONCRETE SUCH THAT CONCRETE PENETRATES TO THE BOTTOM LAYER OF ROCKS. AT LEAST HALF OF THE ROCK ON THE TOP LAYER IS EXPOSED, AND PER CALTRANS SPECIFICATIONS SECTIONS 72-3.03C, 72-3.03E

5 — ROCK LINING AT CURB OPENINGS
N.T.S.

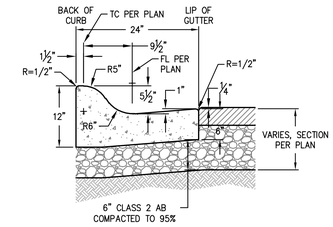


PERSPECTIVE VIEW

NOTES:

1. CURB PAINT COLOR SHALL BE AS SHOWN ON PLAN.
2. TEMPERATURE DURING APPLICATION SHALL NOT BE LESS THAN 50° F, PER MANUFACTURERS RECOMMENDATIONS.
3. CURB SHALL BE DRY TWO DAYS PRIOR TO APPLICATION, PER MANUFACTURERS RECOMMENDATIONS.
4. ALL PAINTING REMOVED SHALL BE REPLACED. NEW CONSTRUCTION WHICH RESULTS IN ADDITIONAL RED CURBING SHALL BE INSTALLED AS SHOWN ON PLAN.
5. FIRE LANES SHALL BE MARKED AND SIGNED PER FIRE DEPARTMENT REQUIREMENTS.

6 — CURB PAINTING
N.T.S.

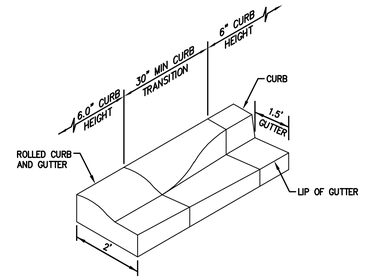


STANDARD PITCH

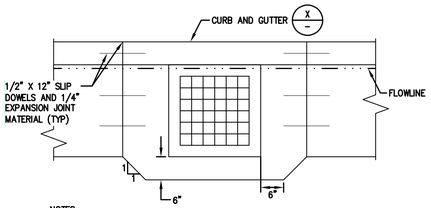
NOTES:

1. CONCRETE SHALL BE CLASS B, TYPE 2 CONCRETE PER CALTRANS STANDARD SPEC. SECTION 90.
2. PROVIDE EXPANSION JOINTS 20' O.C. MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.
3. SCARIFY UPPER 12" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GEOTECHNICAL REPORT.

7 — ROLLED CURB
NTS



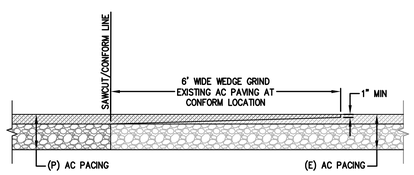
8 — VERTICAL TO ROLLED CURB TRANSITION
NTS



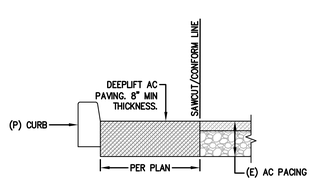
NOTES:

1. GUTTER APRON TO EXTEND A MIN 6" FROM OUTSIDE WALL OF DROP INLET.
2. TC AND DROP INLET PER PLAN.

9 — DROP INLET GUTTER APRON
NTS



TRANSVERSE CONFORM



LONGITUDINAL CONFORM

10 — AC CONFORM
N.T.S.

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP

301 BATTERY STREET
7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

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Phone

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY P. HEFFERNAN — No. 67085 — Ex. 9/30/22 — CIVIL — STATE OF CALIFORNIA

KEYPLAN — NORTH

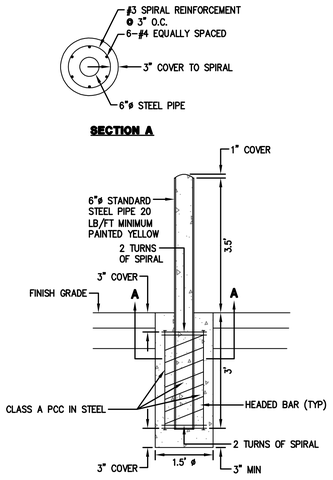
SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NUMBER
C8.0.1

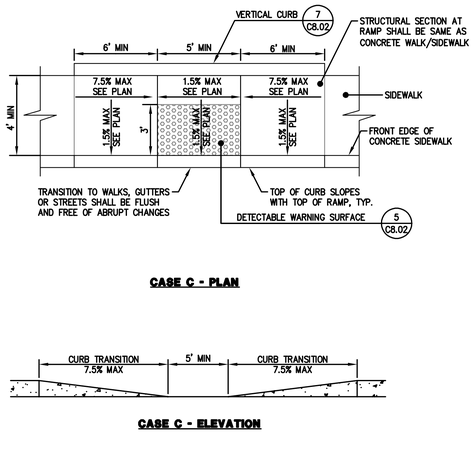
SHEET NUMBER

PROGRESS 9/27/2022

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\IVCC-P2-C800.dwg (01)
PLOT TIME: 12-02-22 6:48pm PLOTTED BY: mont



1 — FIXED BOLLARD
NTS



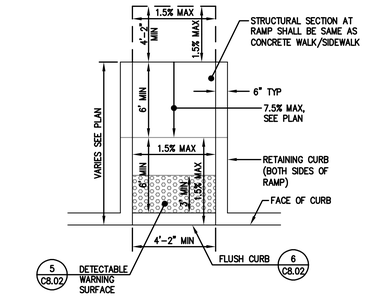
CASE C - PLAN

CASE C - ELEVATION

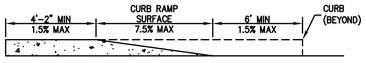
NOTES:

1. A "CURB RAMP" IS DEFINED AS THE ENTIRE CONCRETE SURFACE AREA WHICH INCLUDES THE RAMP AND THE FLARED SIDES. THE "RAMP" IS DEFINED AS THE 4'-2" WIDE MINIMUM CENTER PORTION INCLUDING THE DETECTABLE SURFACE, AND SHALL LIE IN A SLOPED PLANE OF 7.5% MAXIMUM AND CROSS SLOPE NOT TO EXCEED 1.5%. THE "FLARED SIDE" IS DEFINED AS THE AREA ON EITHER SIDE OF THE RAMP AND SHALL LIE ON A SLOPED PLANE OF 9% MAXIMUM MEASURED ALONG THE CURB. THE CURB RAMP SURFACES SHALL HAVE A SURFACE FLATNESS TOLERANCE OF 1/4" PER 10-FOOT STRAIGHT EDGE MAXIMUM.
2. WHEN VERTICAL OBSTRUCTIONS ARE PRESENT NEAR THE CURB AT THE END OF THE FLARED SIDE, OR WHEN THE CURB RAMP IS DIAGONAL TO THE CURB THAT WILL RESULT IN AN EXTREMELY LONG FLARED SIDE SURFACE, THEN THE AFFECTED FLARED SIDE MAY BE CUT AND TERMINATED PERPENDICULAR TO THE CURB, PROVIDED THAT THE REQUIRED SLOPE IS ACHIEVED ON EACH OF THE RESULTING PLANES.
3. A LEVEL LANDING OF 4'-2" MINIMUM DEPTH, 1.5% MAXIMUM CROSS SLOPE, SHALL BE PROVIDED AT THE LOWER END OF THE RAMP AND OVER THE FULL WIDTH OF THE RAMP TO ALLOW SAFE EGRESS. THE ALGEBRAIC SUM OF THE OPPOSING SLOPES BETWEEN TWO ADJACENT SURFACES SHALL NOT EXCEED 9.33%.
4. THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE LOWER LANDING (NO HALF-INCH LIP).
5. A LEVEL LANDING 4'-2" DEEP MINIMUM, 1.5% MAXIMUM CROSS SLOPE IN EACH DIRECTION, SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP TO ALLOW SAFE EGRESS FROM THE RAMP SURFACE. THE WIDTH OF THE LEVEL LANDING SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP.
6. NO NEW VERTICAL OBSTRUCTIONS MAY BE LOCATED IN THE CURB RAMP.
7. NEW UTILITY BOXES SHALL NOT BE PLACED WITHIN THE RAMP.
8. THE SURFACE OF THE CURB RAMP AND DETECTABLE SURFACE MATERIAL SHALL BE STABLE, FIRM AND SLIP RESISTANT. THE CONCRETE CURB RAMP SURFACE SHALL BE BROOM FINISHED TRANSVERSE TO THE AXIS OF THE RAMP AND SHALL BE SLIGHTLY ROUGHER THAN THE FINISH ON THE ADJACENT SIDEWALK SURFACE. ALL CURB RAMP SURFACES SHALL BE SLIP RESISTANT, INCLUDING CONCRETE OR OTHER APPROVED SURFACE MATERIALS, AND THE DETECTABLE WARNING MATERIAL MEASURED AT THE TOP OF DOMES SURFACES AND THE SURFACE BETWEEN DOMES. SLIP RESISTANCE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C1028 AND SHALL ACHIEVE A STATIC COEFFICIENT OF FRICTION OF 0.8 OR GREATER, WET OR DRY.
9. THE DEPTH OF THE COMBINED CONCRETE CURB AND GUTTER SHALL BE EQUAL TO THE DEPTH OF THE EXISTING PAVEMENT STRUCTURAL SECTION OR 6 INCHES, WHICHEVER IS GREATER.
10. THE RAMP CENTER LINE AND PATH OF TRAVEL MUST BE PARALLEL TO THE CROSSWALK. THE FULL WIDTH OF THE RAMP SHALL LIE WITHIN THE CROSSWALK AREA. IT IS DESIRABLE THAT THE LOCATION OF THE RAMP BE AS CLOSE AS POSSIBLE TO THE CENTER OF THE CROSSWALK.

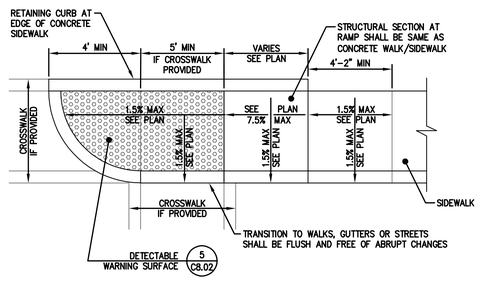
2 — CURB RAMP (CASE C)
NTS



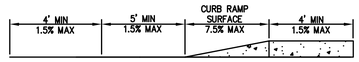
CASE F CURB RAMP



CASE F - SIDE ELEVATION

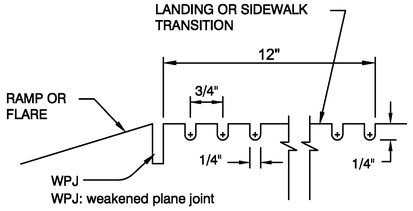


CASE CM I CURB RAMP

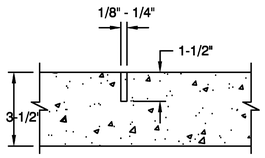


CASE CM I - ELEVATION

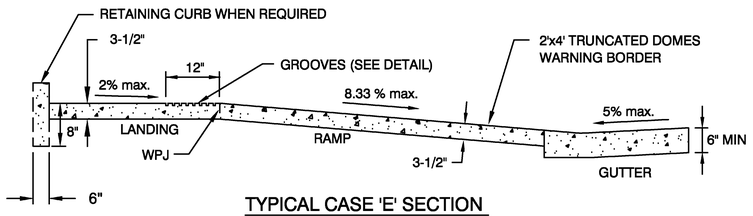
3 — CURB RAMP (CASE CM I AND F)
NTS



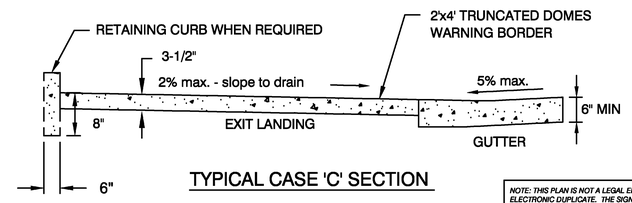
12" GROOVING DETAIL



WEAKENED PLANE JOINT (WPJ)



TYPICAL CASE 'E' SECTION



TYPICAL CASE 'C' SECTION

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE SIGNED CITY OF OAKLAND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION IS AVAILABLE FOR PURCHASE FROM THE CONTRACT ADMINISTRATION DEPARTMENT.

THIS SHEET IS FOR GUIDANCE ONLY. ALL CURB RAMPS SHALL BE CONSTRUCTED PER THE MOST RECENT EDITIONS OF THE AMERICAN WITH DISABILITIES ACT (ADA) AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

CITY OF OAKLAND	DESIGN AND CONSTRUCTION SERVICES DEPARTMENT
CURB RAMP DETAILS SHEET 4 OF 6 TYPICAL SECTIONS	ENGINEERING DESIGN MANAGER DATE: OCTOBER 2002 REV. DATE: _____ DWG. S-6

4 — CURB RAMP DETAILS
NTS

1. Curb ramps shall have 4 ft by 2 ft long detectable warning border centered and squared at the ramp bottom.

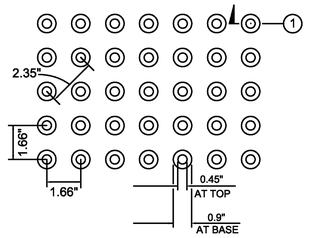
2. The detectable warning border shall contrast visually with the adjoining surfaces, either light or dark. The material used to provide contrast shall be an integral part of the walking surface and shall contrast by at least 70 percent. A fully cured 2 ft x 2 ft sample of both the cast-in-place detectable warning border and the adjacent curb ramp shall be submitted to the Engineer for review and approval, prior to installation.

3. Dome orientation shall conform to the latest ADA / Title 24 regulations.

4. The closest corner of the truncated dome tile to the street shall be set 6" from the flowline.

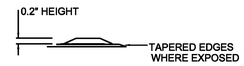
5. Detectable dome warning tiles or strips made of materials other than concrete shall only be used with the written approval of the Director of Public Works.

6. Precast concrete detectable warning dome pavers shall be installed on top of a 4 inch thick concrete pad. Mortared joints shall be flush with top surface and finished to provide a smooth surface. Pavers shall be laid such that joints are level with adjoining joints to provide a smooth transition from paver to paver and from paver to concrete surface.



Bottom Diameter = 0.9 inches
Top Diameter = 0.4 inches
Height = 0.2 inches
Center-to-Center Spacing = 2.35 inches

PLAN VIEW OF DETECTABLE WARNING DOMES
NTS



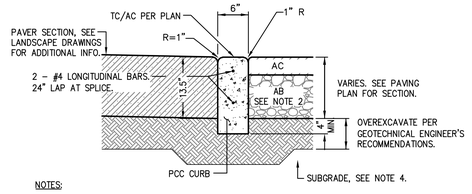
1 DETECTABLE WARNING DETAIL
NTS

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE SIGNED CITY OF OAKLAND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION IS AVAILABLE FOR PURCHASE FROM THE CONTRACT ADMINISTRATION DEPARTMENT.

THIS SHEET IS FOR GUIDANCE ONLY. ALL CURB RAMPS SHALL BE CONSTRUCTED PER THE MOST RECENT EDITIONS OF THE AMERICAN WITH DISABILITIES ACT (ADA) AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

CITY OF OAKLAND	DESIGN AND CONSTRUCTION SERVICES
CURB RAMP DETAILS SHEET 5 OF 6 DETECTABLE WARNINGS	ENGINEERING DESIGN MANAGER DATE: OCTOBER 2002 REV. DATE: _____ DWG. S-7

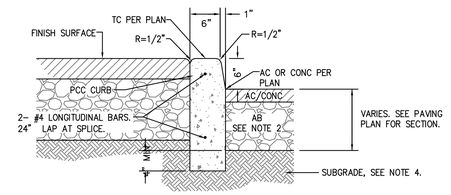
5 — DETECTABLE WARNINGS
NTS



NOTES:

1. CONCRETE SHALL BE CLASS A, PER CITY OF MENLO PARK STANDARDS.
2. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
3. CURB SHOULD EXTEND A MIN OF 4" BELOW THE BOTTOM OF THE PAVEMENT AND BASEROCK LAYER.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 87%-92% RELATIVE COMACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.
5. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.

6 — FLUSH CURB (TYPE 1)
N.T.S.



NOTES:

1. CONC SHALL BE CLASS A, PER THE CITY OF MENLO PARK STANDARDS.
2. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
3. CURBS SHOULD EXTEND A MIN OF 4" BEYOND THE BOTTOM OF THE PAVEMENT AND BASEROCK LAYER.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 87%-92% RELATIVE COMPACTION PER GEOTECH REPORT. REFER TO THE GETECH REPORT FOR OVEREXCAVATION REQUIREMENTS.
5. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.

7 — VERTICAL CURB (TYPE 1)
N.T.S.

PROGRESS 9/27/2022

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE
Stanford Medicine
Sutter Health
Cancer Center
3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

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Phone

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City, State, Zip
Phone

Consultant One
DISCIPLINE ONE
Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NUMBER
C8.0.2

SHEET NUMBER

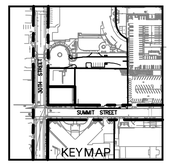
DRAWING NAME: K:\2020\20191D_Oakland_Cancer_Center-MOB\ENG\SHEETS\P2-Onsite\VCC-P2-C800.dwg (02)
PLOT TIME: 12-02-22 6:48pm PLOTTED BY: moni

GENERAL NOTES:

1. BACKFLOW PREVENTER LOCATED INSIDE BUILDING

LEGEND

- HOSE LENGTH — XXX' / END OF HOSE — HOSE PULL FROM ACCESS ROUTE
- HOSE LENGTH — XXX' / END OF HOSE — HOSE PULL FROM HYDRANT
- FIRE APPARATUS ACCESS ROUTE
- FIRE APPARATUS STAGING AREA
- (E) FIRE HYDRANT
- (P) FIRE HYDRANT
- (P) FDC
- (P) PIV
- (P) BACKFLOW



EXISTING PERALTA PAVILION

EXISTING SUMMIT GARAGE

EXISTING BUILDING

EXISTING MOB BUILDING

(P) BUILDING

PROVIDENCE GARAGE

30TH STREET

SUMMIT STREET

387'

270'

GRAPHIC SCALE
20 0 20 40

PROGRESS 9/27/2022

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP

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7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

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Consultant One
DISCIPLINE ONE
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City, State, Zip
Phone

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER — No. 67685 — Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

KEYPLAN — NORTH

SHEET TITLE

FIRE ACCESS PLAN

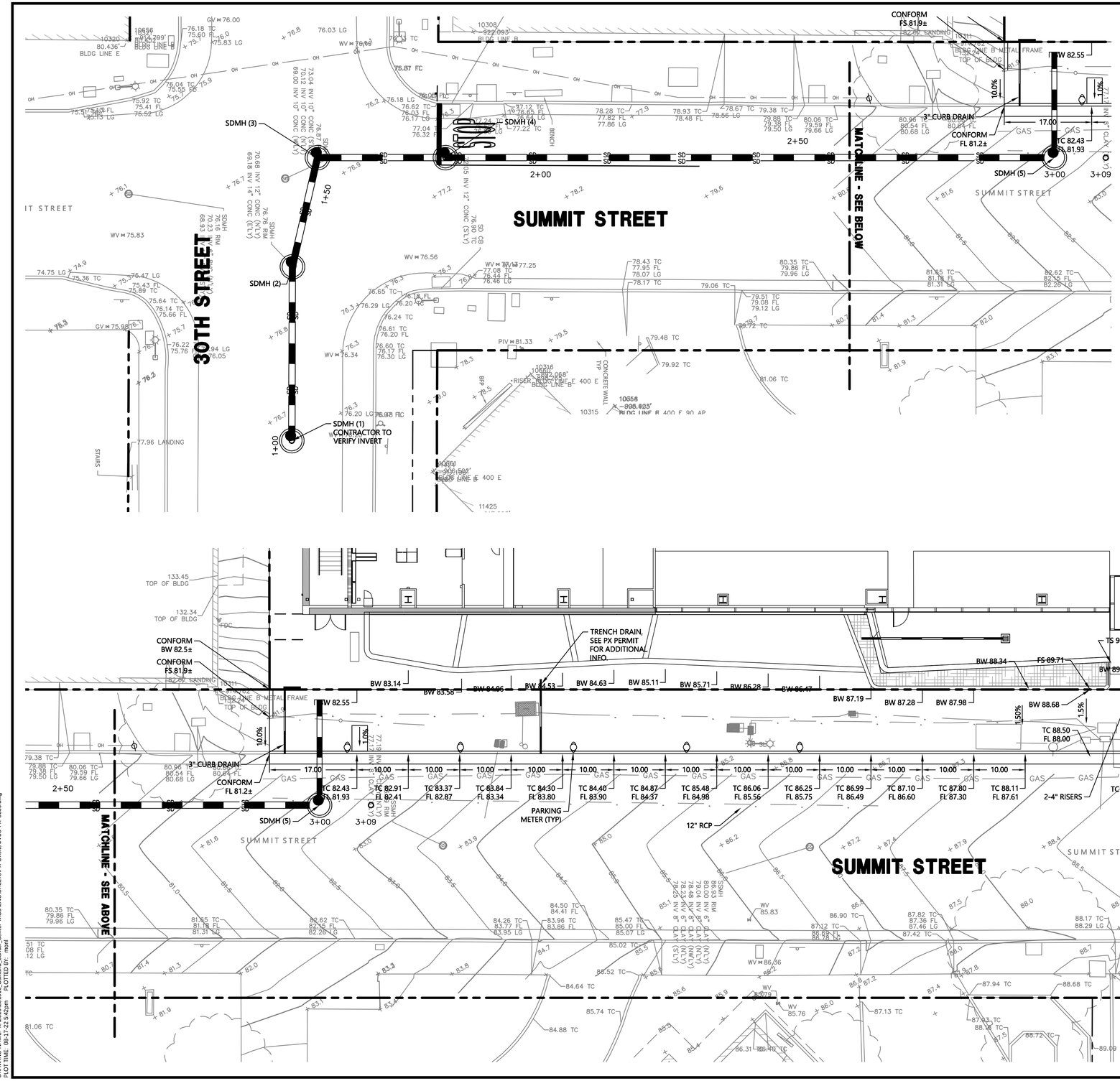
PROJECT NUMBER

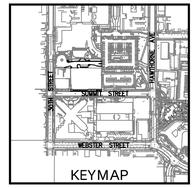
C9.0.0

SHEET NUMBER

DRAWING NAME: K:\2020\201910_Oakland_Cancer_Center-MOB\ENG\SHEETS\PZ-Onsite\LVCC-PZ-C900.dwg (00)
PLOT TIME: 12-02-22 6:44pm PLOTTED BY: monil

© BKF Engineers





GRADING NOTES:

1. REFER TO PAVING PLAN FOR LIMITS OF PAVING AND MATERIAL.
2. REFER TO LANDSCAPE PLANS FOR WORK OUTSIDE VEHICULAR AREAS
3. REFER TO LANDSCAPE PLANS FOR SITE STAIR, RAILING, AND RAMP DETAILS.
4. REFER TO ARCHITECTURAL PLANS FOR BLDG., RAMP AND HANDRAIL DETAILS.
5. REFER TO SHEET C100 FOR DETAIL REFERENCES.
6. SAWCUT (E) CONCRETE ONLY AT (E) SCORE MARKS.
7. MINIMUM CLEAR WIDTH ALONG ACCESSIBLE PATH OF TRAVEL SHALL BE 48".
8. THE ACCESSIBLE PATH OF TRAVEL SHALL BE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY ABRUPT CHANGES IN LEVEL.
   - 8.1. CHANGES IN LEVEL SHALL NOT EXCEED 1/4"
   - 8.2. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A MAX GRADIENT OF 1:2.
   - 8.3. CHANGES IN LEVEL GREATER THAN 1/2" ARE NOT PERMITTED.
9. MAX 2% CROSS SLOPE ALONG ACCESSIBLE PATH OF TRAVEL.
10. MAX LONGITUDINAL SLOPE ON RAMPS SHALL BE 8.33%.
11. DETECTABLE WARNING SURFACE SHALL BE PROVIDED WHERE SHOWN, DESCRIBED, OR DETAILED ON THESE PLANS.
12. DETECTABLE WARNING SURFACE SHALL BE ARMOR-TILE (OR APPROVED EQUIVALENT) CONFORMING TO CBC SECTION 11B-705.1 INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES (FEDERAL YELLOW).
    - 12.1. FOR NEW CONSTRUCTION, TILES SHALL BE CAST IN PLACE.
13. CURB RAMPS SHALL HAVE A SMOOTH TRANSITION BETWEEN CURB RAMPS AND GUTTERS.

NOT FOR CONSTRUCTION

BKF
255 SHORELINE DR., SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300
www.bkf.com

JVCC OAKLAND
STREET IMPROVEMENT PLANS
GRADING & DRAINAGE PLAN
ALAMEDA COUNTY CALIFORNIA
OAKLAND

No.	Revisions	
	FINAL DEVELOPMENT PERMIT	09 DEC 2022

Date:	8/12/2022
Scale:	1" = 10'
Design:	
Drawn:	AM
Approved:	TH
Job No:	20201910

Drawing Number:
C-300
5 OF

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY P. HEFFERNAN — No. 67089 Exp. 9/30/22 — CIVIL — STATE OF CALIFORNIA

DRAWING NAME: K:\2020\20201910 Oakland Career Center-MOB\ENGINEER\PX-Offsite\JVCC-PX-C300.dwg
PLOT TIME: 08/17/22 3:42pm PLOTTED BY: mmah

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18019A
Author
4/19/2022 11:45:27 PM
Plot Date:

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS DESCRIBE THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, CONFIGURATION AND DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND OPERATIONAL SYSTEMS AND INSTALLATIONS OF THE DESCRIBED DESIGN INTENT, INCLUDING ALL MISCELLANEOUS ITEMS OF WORK, MATERIALS, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. ALL MATERIALS SHALL BE FURNISHED AND PROPERLY INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

2. THE INSTALLED WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING AUTHORITY, ALL SPECIAL REQUIREMENTS AND CONDITIONS OF THE BUILDING PERMIT, AND ALL APPLICABLE CODES, LAWS, STANDARDS, ETC.

3. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS AND CLEARLY UNDERSTAND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING. THE CONTRACTOR SHALL BE FAMILIAR WITH THE PROJECT SITE, FIELD INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS, ELEVATIONS AND DIMENSIONS OF THE PROJECT, AS SHOWN ON OR REFERENCED ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE ABOUT ANY CONDITION REQUIRING MODIFICATION OR CLARIFICATION PRIOR TO BIDDING. ENTERING INTO AN AGREEMENT WITH THE OWNER INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, FAMILIAR WITH THE EXISTING CONDITIONS AND FULLY UNDERSTANDS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR ANY EXTRA COST DUE TO THE CONTRACTOR'S FAILURE TO INFORM THE OWNER OF DISCREPANCIES IN TIME TO ISSUE CORRECTIVE ADDENDA PRIOR TO BIDDING.

4. ALL GENERAL NOTES, DIMENSIONS, AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. SPECIFIC NOTES, DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK BETWEEN TRADES, SUBCONTRACTORS, MANUFACTURERS, FABRICATORS, AND ALL OTHER CONTRACTED FOR THE COMPLETION OF THE WORK, INCLUDING THOSE UNDER SEPARATE CONTRACTS FOR CONCURRENT PROJECTS.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING, INSPECTIONS AND REPORTING AS OUTLINED IN THE CONTRACT DOCUMENT AND AS REQUIRED BY THE PERMITTING AUTHORITIES TO COMPLETE THE WORK.

7. ALL WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SPECIFIED IN THE GEOTECHINICAL INVESTIGATION REPORT PREPARED BY RUTHERFORD + CHEKENE, OAKLAND JOINT VENTURE CANCER CENTER SUMMIT MEDICAL CENTER, APRIL 8, 2022. THE RECOMMENDATIONS OF THE REPORT SHALL SUPERSEDE THE INFORMATION FOUND WITHIN THESE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).

8. ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS REFLECT THE AVAILABLE RECORDS. CONTRACTOR SHALL USE CAUTION IN ALL EXCAVATION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE TO INVESTIGATE AND VERIFY ALL EXISTING AND PROPOSED CONDITIONS AS SHOWN OR REFERENCED IN THE DOCUMENTS, INCLUDING LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL IMMEDIATE NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS AND/OR DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITIONS WHICH WILL AFFECT THE WORK, BEFORE PROCEEDING WITH THE WORK.

9. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800-642-2444) TWO WORKING DAYS MINIMUM PRIOR TO ANY EXCAVATION.

10. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACE". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH, WHICH COULD CONTAIN AIR THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".

11. PROVIDE ADEQUATE PROTECTION FOR ALL PROPOSED AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

12. ALL EXISTING UTILITY STRUCTURES (SHOWN OR NOT SHOWN ON THE DRAWINGS) WITHIN THE AREA OF WORK SHALL BE ADJUSTED OR RECONSTRUCTED TO THE FINISH GRADES SHOWN AND SPECIFIED.

13. UTILITY CONNECTIONS AND DISCONNECTIONS NECESSARY TO COMPLETE THE WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE UTILITY SERVICE INTERRUPTIONS. CONTRACTOR SHALL COORDINATE ALL "DOWN TIME" WITH THE OWNER'S REPRESENTATIVE AND THE APPROPRIATE UTILITY AND/OR AGENCY.

14. REFER TO CIVIL DRAWINGS FOR INFORMATION AND LOCATION OF ALL EXISTING AND PROPOSED UTILITIES.

15. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING ALL STRUCTURAL CONNECTIONS, WATERPROOFING, BUILDING SYSTEMS AND REQUIREMENTS.

16. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, TREES, LANDSCAPE AND OTHER ITEMS TO REMAIN FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, LIGHTS, ETC. FOR THE PROTECTION OF PUBLIC, PERSONNEL, PROPERTY, AND MATERIAL AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND NOT LIMITED TO NORMAL WORKING HOURS.

17. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE EGRESS AND INGRESS TO ON-SITE FACILITIES THAT ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION.

18. ANY PERMANENT MONUMENTS OR POINTS DAMAGED OR DESTROYED BY CONSTRUCTION ACITIVITIES SHALL BE REPLACED BY A LICENSED ENGINEER OR LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

19. THE CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO CONTROL AIRBORNE PARTICULATE (DUST) AT AND NEAR THE CONSTRUCTION SITE OF WORK AND ALONG APPROACH ROUTES TO THE CONSTRUCTION SITE AND IN COMPLIANCE WITH LOCAL AIR QUALITY STANDARDS.

20. BEFORE ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, THE COMPLETED CONSTRUCTION SHALL BE CLEARED, ANY APPLICABLE LABELS REMOVED, AND ALL OTHER TOUCHUP WORK COMPLETED. ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

21. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DESIGNATION OF THE EQUIPMENT AND MATERIAL STORAGE AND STAGING AREAS AT THE JOB SITE.

22. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORMWATER RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND PREVENT RUNOFF. GRADING AND DRAINAGE FEATURES SHALL BE CONSTRUCTED SO THAT WATER FLOW DOES NOT DRAIN TO OTHER PROPERTIES. FLUSHING OF STREETS AND PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED.

23. REFER TO CIVIL DRAWINGS FOR THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IF NO PLAN IS PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SWPPP TO THE APPROPRIATE AGENCY FOR APPROVAL.

24. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE APPROPRIATE AGENCY PRIOR TO ANY WORK REQUIRING TRAFFIC CONTROL. THE CONTRACTOR SHALL BE PROVIDE TRAFFIC CONTROLS IN ACCORDANCE WITH CALTRANS "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" (CURRENT EDITION) AND ANY ADDITIONAL CITY, COUNTY, DISTRICT OR OTHER AGENCY REQUIREMENTS. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN PLACE.

25. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL IMPROVEMENTS TO THE ADJACENT EXISTING CONDITIONS WITH SMOOTH TRANSITIONS TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPE, HAZARDOUS CONDITIONS, ETC.

26. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY REVISIONS OR ADDITIONAL WORK REQUIRED AS A RESULT OF FIELD CONDITIONS OR LOCAL GOVERNING AUTHORITIES. ALL REVISIONS SHALL BE IN WRITTEN CHANGE ORDER FORM AND APPROVED AND AUTHORIZED BY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK. WORK PERFORMED WITHOUT WRITTEN AUTHORIZATION SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.

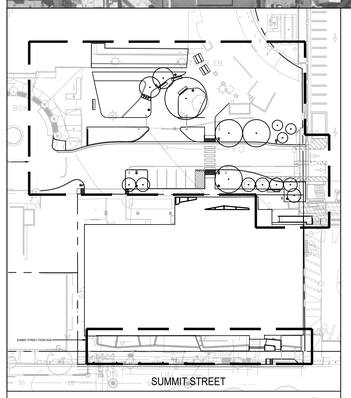
QUALITY CONTROL NOTES

1. CONTRACTOR IS TO PROVIDE A SUMMARY OF ALL SUBMITTALS AND MOCKUPS NECESSARY FOR LANDSCAPE WORK AND ASSOCIATED SCOPE ITEMS FOR APPROVAL BY LANDSCAPE ARCHITECT. CONTRACTOR IS TO PROVIDE COMPREHENSIVE SUBMITTALS AS OUTLINED IN THE APPROVED SUMMARY OF SUBMITTALS IN TIMELY MANNER AND IN ACCORDANCE WITH THE CONTRACT FOR REVIEW AND APPROVAL.

2. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS THAT ARE COORDINATED WITH ALL DISCIPLINES AND WITH EXISTING AND PROPOSED CONDITIONS AND WILL REFLECT ALL INFORMATION NECESSARY FOR COORDINATION AND CONFORMANCE REQUIREMENTS.

3. ALL APPROVED SUBMITTALS, TEST RESULTS, PRODUCTS, SYSTEMS, SHOP DRAWINGS, MATERIALS, AND MOCKUPS WILL BE CONSIDERED PART OF THE PROJECT SPECIFICATIONS.

VICINITY MAP



PROJECT SITE

LIST OF DRAWINGS

L0.00	LANDSCAPE COVER SHEET
L0.02	KEY MAP
L1.01	TREE PROTECTION & REMOVAL PLAN (PERALTA)
L1.02	TREE PROTECTION & REMOVAL PLAN (SUMMMIT)
L1.02	TREE PROTECTION & REMOVAL PLAN TABLE
L2.01	LAYOUT PLAN (PERALTA)
L2.02	LAYOUT PLAN (SUMMIT)
L3.01	CONSTRUCTION PLAN (PERALTA)
L3.02	CONSTRUCTION PLAN (SUMMIT)
L5.01	CONSTRUCTION DETAILS
L5.02	CONSTRUCTION DETAILS
L6.00	IRRIGATION LEGEND & NOTES
L6.01	IRRIGATION PLAN (PERALTA)
L6.02	IRRIGATION PLAN (SUMMIT)
L6.03	IRRIGATION DETAILS
L6.04	IRRIGATION DETAILS
L7.00	PLANTING LEGEND & NOTES
L7.01	PLANTING PLAN - TREES (PERALTA)
L7.01A	PLANTING PLAN - SHRUBS (PERALTA)
L7.02	PLANTING PLAN (SUMMIT)
L7.03	PLANTING DETAILS

DELEGATED DESIGN

DESIGN INTENT AND MINIMUM REQUIRED CRITERIA ARE INDICATED IN CONTRACT DOCUMENTS. GENERAL CONTRACTOR TO PROVIDE FINAL DESIGN AND ENGINEERING SUBMITTALS FOR OWNER AND LANDSCAPE ARCHITECT REVIEW FOR CONFORMANCE WITH DESIGN INTENT.

1. SCULPTURAL CONCRETE WALL SURFACE TREATMENT AND CAP AT BIORETENTION RETAINING WALLS ALONG SUMMIT STREET FRONTAGE AND WALL AT OUTDOOR SEATING AREA ALONG SUMMIT STREET FRONTAGE. SCULPTURAL CONCRETE WALL SURFACE TREATMENT AND CAP TO BE APPLIED OVER WALLS BY ARCHITECT.

ABBREVIATIONS

AL	ALIGN
AC	ASPHALITIC CONCRETE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
AGG	AGGREGATE
ALUM	ALUMINUM
APPX	APPROXIMATE
ARCH	ARCHITECTURE
BLDG	BUILDING
BOS	BOTTOM OF SLOPE
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIRS
BX	BOX
CAL	CALIPER
CALDAG	CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CJ	CONTROL JOINT
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
CY	CUBIC YARD
DG	DECOMPOSED GRANITE
DI	DRAIN INLET
DIA	DIAMETER
DWGS	DRAWINGS
EJ	EXPANSION JOINT
ELE TRANS	ELECTRICAL TRANSFORMER
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ETWU	ESTIMATED TOTAL WATER USE
(E)	EXISTING
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FOB	FACE OF BUILDING
FOC	FACE OF CURB
FT	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GC	GALLON CAN
GFRC	GLASS FIBER REINFORCED CONCRETE
GPM	GALLONS PER MINUTE
GRD	GRADE
HB	HOSE BIB
HD	HOT DIPPED
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HORIZ	HORIZONTAL
HT	HEIGHT
ID	INSIDE DIAMETER
INV	INVERT ELEVATION
IRR	IRRIGATION
LF	LINEAR FEET
MAWA	MAXIMUM APPLIED WATER ALLOWANCE
MAX	MAXIMUM
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
(N)	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PA	PLANTING AREA
PERF	PERFORATED
PERP	PERPENDICULAR
PIP	POURED-IN-PLACE
PL	PROPERTY LINE
POC	POINT OF CONNECTION
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL-CHLORIDE
QTY	QUANTITY
R	RADIUS
RB	ROOTBALL
REBAR	REINFORCING BAR
REC	RECOMMENDATION
REQ'D	REQUIRED
RGH	ROUGH
RIM	RIM ELEVATION
RWD	REDWOOD
SAD	SEE ARCHITECTURAL DRAWINGS
SED	SEE ELECTRICAL DRAWINGS
SPD	SEE PLUMBING DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SD	STORM DRAIN
SDR	STORM / SLOT DRAIN RIM
SHT	SHEET
SJ	SCORE JOINT
SMD	SEE MECHANICAL DRAWINGS
SPCS	SPACES
SPEC'D	SPECIFIED
SPECS	SPECIFICATIONS
SQ	SQUARE
SF	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STPA	STORMWATER TREATMENT PLANTING AREA
SW	SIDEWALK
TBD	TO BE DETERMINED
TC	TOP OF CURB
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIRS
TW	TOP OF WALL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WATER LINE
WUCOLS	WATER USE CLASSIFICATION OF LANDSCAPE SPECIES
W/	WITH
@	AT

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

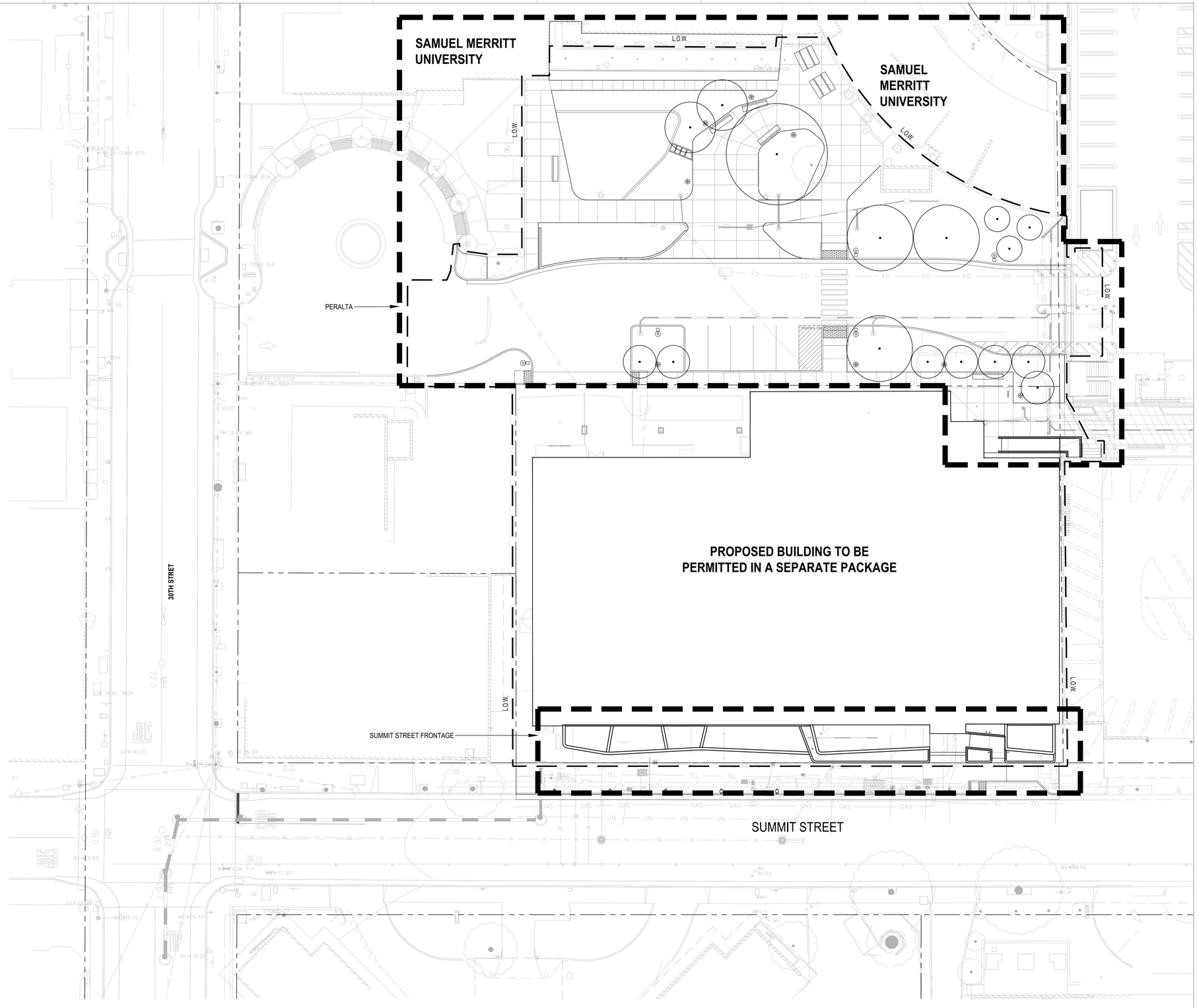
KEYPLAN

SHEET TITLE

LANDSCAPE COVER SHEET

PROJECT NUMBER 13718.000

SHEET NUMBER L0.00



KEY MAP LEGEND

PROPERTY LINE

L.O.W. LIMIT OF WORK

N

0 8 16 32

SCALE: 1"=16'-0"

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SHEET TITLE

KEY MAP

13718.000

PROJECT NUMBER

L0.02

SHEET NUMBER

Plot Date: 4/19/2022 11:45:27 PM Author

SAMUEL MERRITT UNIVERSITY

SAMUEL MERRITT UNIVERSITY

L.O.W.

L.O.W.

L.O.W.

L.O.W.

L.O.W.

#94

#95

#93

#97

#96

BENCH

BENCH

CONCRETE SIDEWALK

#103

#102

#101

P

HC SPACE

HC SPACE

#98

#100

#99

#89

#88

#87

P

P

P

P

#86

#92

PROPOSED BUILDING TO BE
PERMITTED IN A SEPARATE PACKAGE

MATCHLINE SEE SHEET L1.02

TREE PROTECTION & REMOVAL NOTES

1. SEE SHEET L1.02 FOR TREE PROTECTION & REMOVAL PLAN LEGEND AND NOTES.

N

0 4 8 16

SCALE: 1"=8'-0"

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KEYPLAN

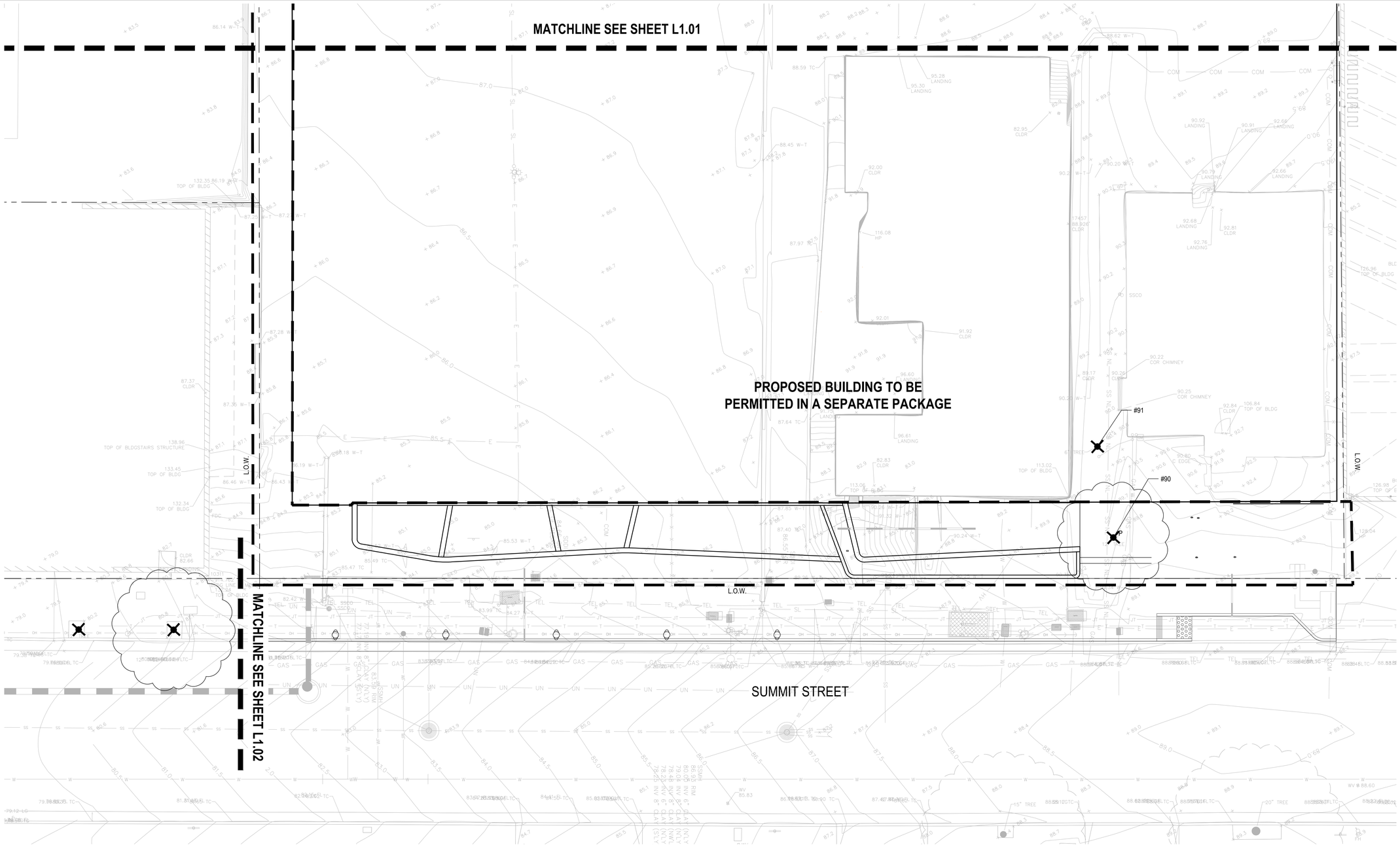
SHEET TITLE

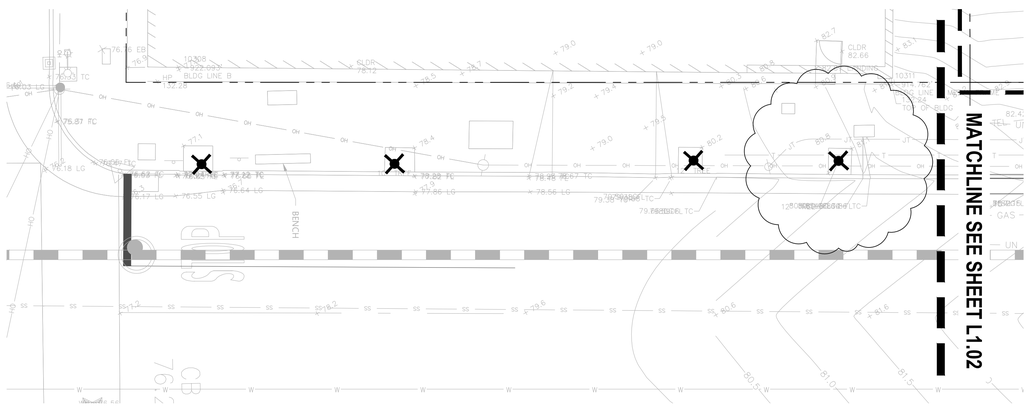
TREE PROTECTION & REMOVAL PLAN (PERALTA)

PROJECT NUMBER 13718.000

SHEET NUMBER L1.01

Plot Date: 4/19/2022 11:45:27 PM Author





TREE PROTECTION & REMOVAL LEGEND

- PROPERTY LINE
- L.O.W. — LIMIT OF WORK
- MATCHLINE
- (E) PROTECTED TREE WITHIN LIMIT OF WORK - TO REMAIN AND TO BE PRESERVED PER SPECS
- (E) PROTECTED TREE WITHIN LIMIT OF WORK - TO BE REMOVED
- (E) TREE WITHIN LIMIT OF WORK - TO BE REMOVED
- #1 — TREE NUMBER AS IDENTIFIED IN ARBORIST REPORT, GREATER OR EQUAL TO 4" DBH
- TREE PROTECTION FENCING, SEE CITY STANDARD DETAIL SHEET L1.03

N

0 4 8 16
SCALE: 1/8"=1'-0"

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KEYPLAN

SHEET TITLE

TREE PROTECTION & REMOVAL PLAN (SUMMIT)

13718.000

PROJECT NUMBER

L1.02

SHEET NUMBER

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18019A

Plot Date: 4/19/2022 11:45:27 PM

Author

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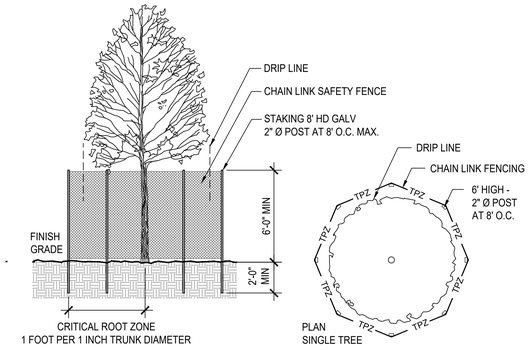

1 TREE PRESERVATION FENCING
SCALE: 1/4" = 1'-0"

Tree #	Species	Trunk Diameter (in.)	Protected	Condition	Suitability	Recommended Action	Notes	Designation
86	Coast redwood	43	Yes	3	High	Preserve	In upper parking lot away from proposed demolition and construction	Remove
87	Victorian box	15,12,9,7	Yes	1	Low	Remove	Severely declining tree; poor candidate for preservation even away from construction impacts	Remove
88	Lilly pilly tree	14	Yes	3	Moderate	Remove	In upper parking lot away from proposed demolition and construction	Remove
89	Lilly pilly tree	10	Yes	3	Moderate	Preserve	In upper parking lot away from proposed demolition and construction	Remove
90	Saucer magnolia	12	Yes	3	Moderate	Remove	Immediately adjacent to building proposed for demolition	Remove
91	Eastern arborvitae	7,6,1	No	3	Moderate	Remove	Immediately adjacent to building proposed for demolition	Remove
92	Red maple	5	No	3	Moderate	Remove	Identified for removal in conceptual plan discussion	Remove
93	Crape Myrtle	5	No	1	Low	Remove	Dead tree	Remove
94	Olive	6	No	3	Moderate	Preserve	Located in planting bed away from proposed construction and demolition	Preserve
95	Callery pear	5	No	3	Low	Remove	Poor candidate for preservation even away from construction impacts	Remove
96	Callery pear	4	No	3	Low	Remove	Poor candidate for preservation even away from construction impacts	Remove
97	Callery pear	6	No	3	Low	Remove	Poor candidate for preservation even away from construction impacts	Remove
98	Sweetgum	8	No	3	Moderate	Remove	Identified for removal in conceptual plan discussion	Remove
99	Sweetgum	7	No	1	Low	Remove	Identified for removal in conceptual plan discussion	Remove
100	Sweetgum	8	No	2	Low	Remove	Identified for removal in conceptual plan discussion	Remove
101	Sweetgum	7	No	3	Moderate	Remove	Identified for removal in conceptual plan discussion	Remove
102	Sweetgum	9	Yes	3	Moderate	Remove	Identified for removal in conceptual plan discussion	Remove
103	Sweetgum	10	Yes	3	Moderate	Remove	Identified for removal in conceptual plan discussion	Preserve

TREE PROTECTION NOTES

1. REFER TO SPECIFICATIONS FOR PLANT PROTECTION, AND TREE REPLACEMENT REQUIREMENTS.
2. THE CONTRACTOR TO MEET WITH THE PROJECT ARBORIST BEFORE BEGINNING WORK TO DISCUSS WORK PROCEDURES AND TREE PROTECTION.
3. EACH TREE IDENTIFIED FOR PRESERVATION SHALL RECEIVE SUPPLEMENTAL IRRIGATION PRIOR TO AND DURING THE DEMOLITION AND CONSTRUCTION PROCESS.
4. ESTABLISH A TREE PROTECTION ZONE (TPZ) FOR EACH TREE IDENTIFIED FOR PRESERVATION PRIOR BEGINNING ANY DEMOLITION OR CONSTRUCTION WORK. ANY MODIFICATIONS TO THE TPZ MUST BE APPROVED AND MONITORED BY THE PROJECT ARBORIST.
5. PROHIBIT WORK WITHIN THE TREE PROTECTION ZONE. INCLUDING: GRADING AND STORAGE OF SOIL, CONSTRUCTION ACCESS ROUTES, TRAVEL AND PARKING OF ALL VEHICLES AND CONSTRUCTION EQUIPMENT, GRADE CHANGES AND EXCAVATIONS, MATERIAL STORAGE AND STAGING, FUEL AND MIXING AREAS, WASHOUT AREAS FOR CONCRETE AND OTHER MATERIALS.
6. VERIFY THAT ANY HERBICIDES PLACED UNDER PAVING MATERIALS ARE SAFE FOR USE AROUND TREES AND LABELED FOR THAT USE.
7. DO NOT LIME SOIL WITHIN 30' OF ANY TREE DESIGNATED FOR PRESERVATION. LIME IS TOXIC TO TREE ROOTS.
8. NO IRRIGATION TRENCHING SHALL OCCUR WITHIN THE TPZ, SEE IRRIGATION SPECIFICATION.
9. FENCE ALL TREES TO BE RETAINED TO COMPLETELY ENCLOSE THE TREE PROTECTION ZONE PRIOR TO DEMOLITION, GRUBBING, OR GRADING. FENCES SHALL BE 6' CHAIN LINK OR EQUIVALENT AS APPROVED. WHERE POSSIBLE, FENCE GROUP OF TREES TOGETHER. FENCES ARE TO REMAIN IN PLACE UNTIL ALL GRADING AND CONSTRUCTION IS COMPLETED.
10. PROTECT ALL TRUNKS AND LIMBS EXPOSED TO POTENTIAL DAMAGE BY CONSTRUCTION ACTIVITIES WITH TIMBERS SECURED TO TREES WITH METAL STRAPS AS APPROVED BY THE PROJECT ARBORIST.
11. PRUNE TREES TO BE PRESERVED TO CLEAN THE CROWN AND TO PROVIDE CONSTRUCTION CLEARANCE. ALL PRUNING SHALL BE COMPLETED BY A CERTIFIED ARBORIST OR TREE WORKER AND ADHERE TO THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. BRUSH SHALL BE CHIPPED AND SPREAD BENEATH THE TREES WITHIN THE TREE PROTECTION ZONE.
12. ENSURE THAT ANY ROOT PRUNING REQUIRED FOR CONSTRUCTION PURPOSES IS SUPERVISED BY AND RECEIVES THE APPROVAL OF THE PROJECT ARBORIST.
13. APPLY AND MAINTAIN 3" OF WOOD CHIP MULCH WITHIN THE TREE PROTECTION ZONE. KEEP THE MULCH 2' FROM THE BASE OF TREE TRUNKS.
14. EVALUATE ANY INJURY TO TREES THAT SHOULD OCCUR DURING CONSTRUCTION. NOTIFY THE PROJECT ARBORIST SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED.
15. REQUIRE THAT ANY TREE PRUNING NEEDED FOR CLEARANCE DURING CONSTRUCTION BE PERFORMED BY A CERTIFIED ARBORIST AND NOT BY CONSTRUCTION PERSONNEL.
16. AN I.S.A. CERTIFIED ARBORIST OR TREE WORKER SHALL BE PRESENT AT ALL TIMES DURING PRUNING. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE AND ADHERE TO THE MOST RECENT EDITION OF THE AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS (Z133.1) AND TREE PRUNING (A300).
17. TREES SHOWN FOR DEMO THAT DO NOT HAVE A TREE NUMBER WERE TREES NOT INCLUDED IN THE ARBORIST SURVEY BUT REQUIRE DEMO.
18. ARBORIST REPORT WAS PREPARED BY HortScience | Barlett Consulting DATED APRIL, 2022.
19. SEE PLANT PROTECTION SPECS SECTION 31 10 01.
20. CONTRACTOR TO HAND WATER EXISTING TREES TO REMAIN WITHIN EXISTING LANDSCAPE AREAS WHERE IRRIGATION MAY BE IMPACTED. HAND WATERING SHALL BE SUFFICIENT TO ENSURE THAT HEALTH OF TREE IS NOT IMPACTED BY CONSTRUCTION ACTIVITIES.

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

TREE PROTECTION & REMOVAL - TABLE

PROJECT NUMBER 13718.000

SHEET NUMBER L1.03

12/8/2022 11:13 PM
S:\Active Jobs\Sutter Stanford JV Oakland Cancer Center MOB\CAD\03-CD\RHAA\Plot\L2.01 LAYOUT PLAN (PERALTA).dwg
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Author
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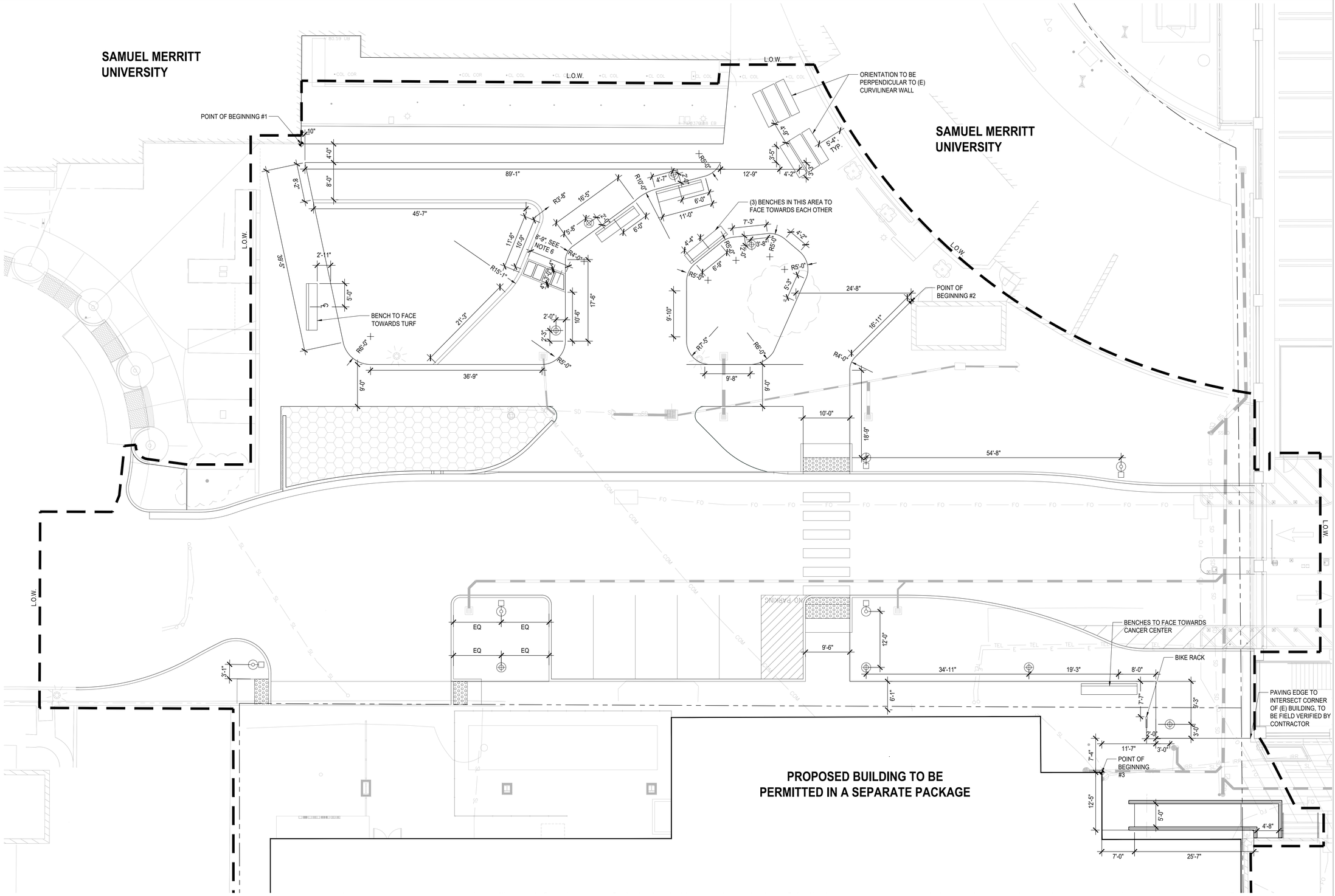

LAYOUT LEGEND

- PROPERTY LINE
- L.O.W. — LIMIT OF WORK
- LAYOUT POINT OF BEGINNING

LAYOUT NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO LAYOUT ALL IMPROVEMENTS AS SHOWN AND SPECIFIED.
2. THE CONTRACTOR SHALL FIELD VERIFY THAT ALL STAKING SET FOR IMPROVEMENTS ARE CONSISTENT WITH THE DESIGN INTENT OF THESE PLANS AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT OF ANY DISCREPANCY.
3. ALL CURVES TO BE CONTINUOUS WITH SMOOTH TRANSITIONS AS SHOWN IN THE DRAWINGS, UNLESS OTHERWISE NOTED.
4. HORIZONTAL COORDINATES AND DIMENSIONS ARE SHOWN AT THE PRIMARY GEOMETRIC CONTROL POINTS FOR THE IMPROVEMENTS TO AID THE CONTRACTOR WITH THE ESTABLISHMENT OF THE HORIZONTAL LOCATION OF THE IMPROVEMENTS AND ARE BASED ON THE SURVEY AND COORDINATES PROVIDED BY THE CIVIL ENGINEER.
5. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND ENGINEERING PLANS FOR THE LAYOUT, DIMENSIONS, ANGLES AND ELEVATIONS OF ALL BUILDINGS, STRUCTURES, UTILITIES, CURBS AND GUTTERS.
6. CONCRETE STEPPING PAD WIDTHS TO BE SET AT EQUAL DIMENSION ALONG THIS SIDE AND ACCOMMODATE EQUAL SPACING OF ROCK MULCH PER CONCRETE STEPPING PAD DETAIL 7/L5.01.

N
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SCALE: 1"=8'-0"

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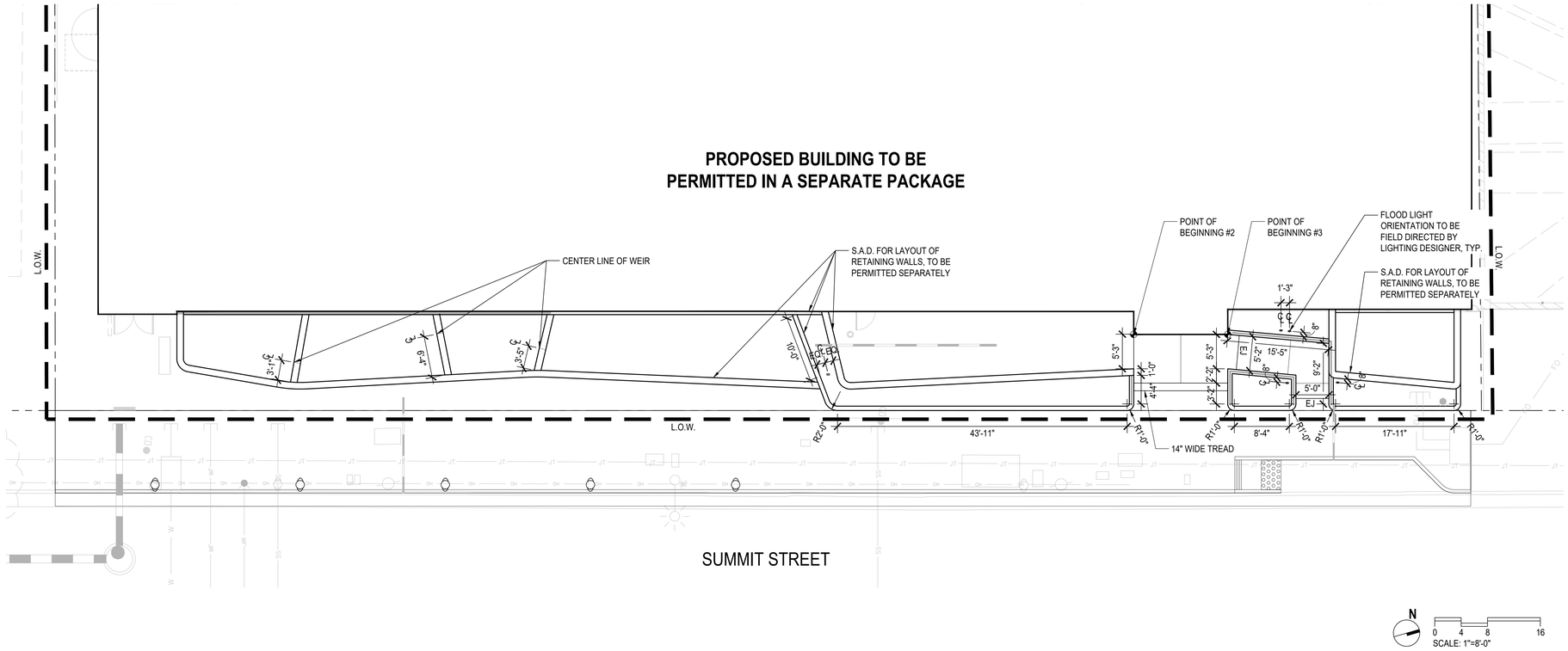
SHEET TITLE

LAYOUT PLAN (PERALTA)

PROJECT NUMBER 13718.000

SHEET NUMBER L2.01



LAYOUT NOTES

1. SEE SHEET L2.01 FOR LAYOUT LEGEND AND NOTES.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

SHEET TITLE

LAYOUT PLAN (SUMMIT)

13718.000

PROJECT NUMBER

L2.02

SHEET NUMBER

12/8/2022 11:13 PM

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Author

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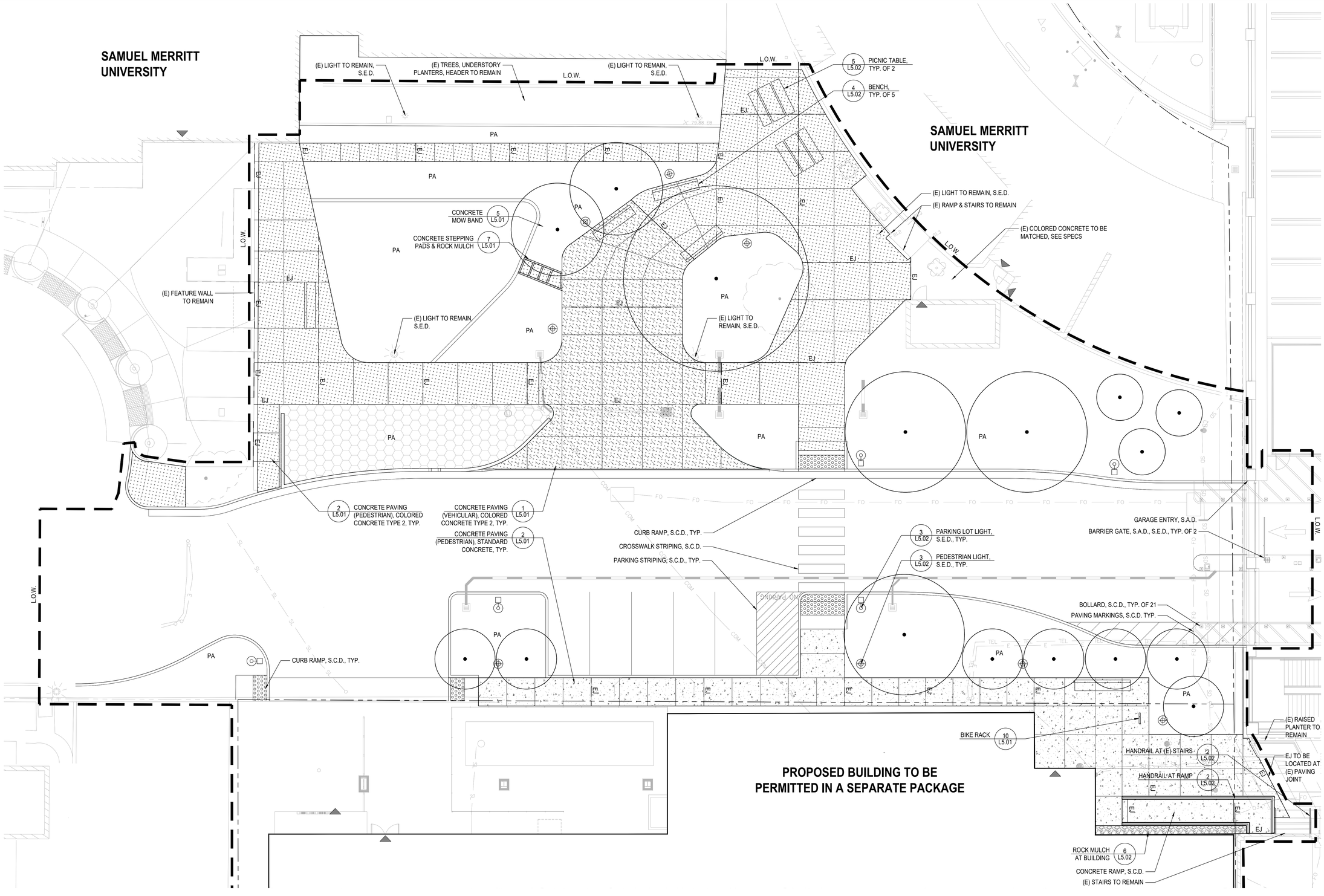

CONSTRUCTION LEGEND

	PROPERTY LINE
L.O.W.	LIMIT OF WORK
	DOORS
EJ	EXPANSION JOINT
PA	PLANTING
S.A.D.	SEE ARCHITECTURE DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
S.E.D.	SEE ELECTRICAL DRAWINGS
S.P.D.	SEE PLUMBING DRAWINGS
	CONCRETE PAVING (PEDESTRIAN), STANDARD CONCRETE
	CONCRETE PAVING (PEDESTRIAN), COLORED CONCRETE TYPE 2
	CONCRETE PAVING (VEHICULAR), COLORED CONCRETE TYPE 2
	ROCK MULCH
	PAVERS ON PEDESTAL
	BIKE RACK: LANDSCAPE FORMS "RIDE" BIKE RACK. COLOR TBD

N

0 4 8 16

SCALE: 1"=8'-0"

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PROJECT NUMBER 13718.000

SHEET NUMBER L3.01

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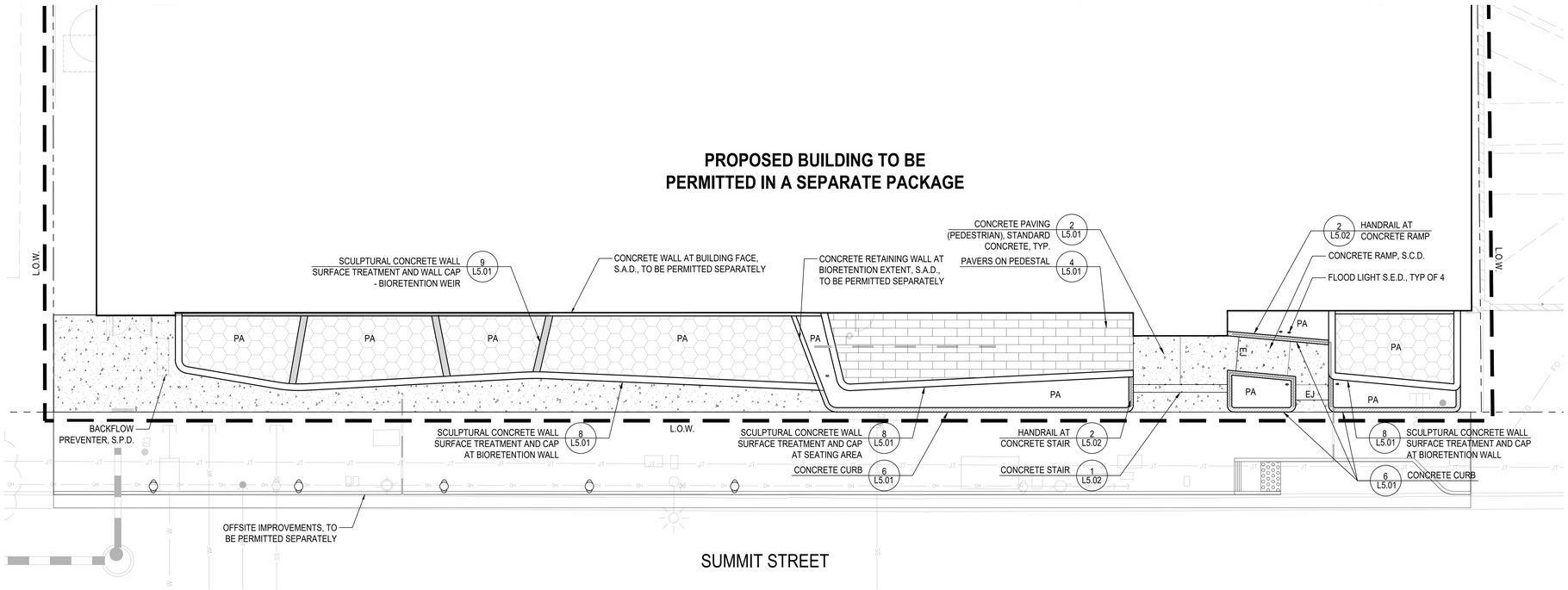

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0 4 8 16

SCALE: 1"=8'-0"

CONSTRUCTION NOTES

1. SEE SHEET L3.01 FOR CONSTRUCTION LEGEND.

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PROJECT NUMBER 13718.000

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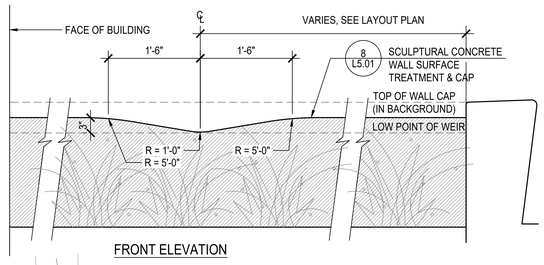
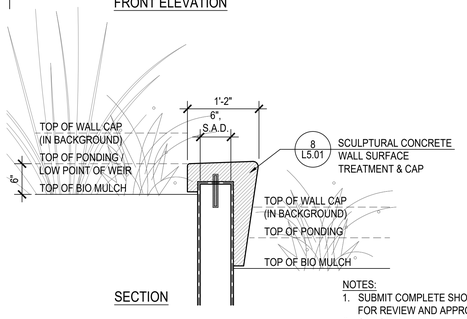


FRONT ELEVATION

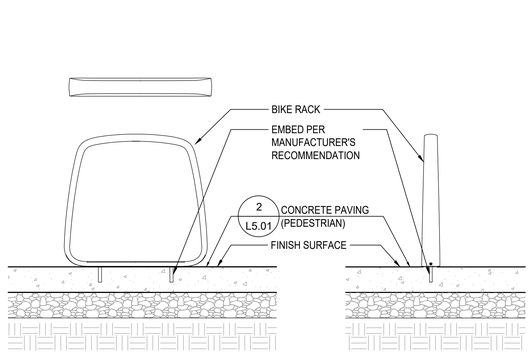


SECTION

NOTES:
1. SUBMIT COMPLETE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. SEE SEPARATELY PERMITTED ARCHITECTURE PLANS FOR RETAINING WALL LAYOUT AND BIO ON STRUCTURE.
3. SCULPTURAL CONCRETE WALL SURFACE TREATMENT & CAP TO BE MIN. 2" THICK.

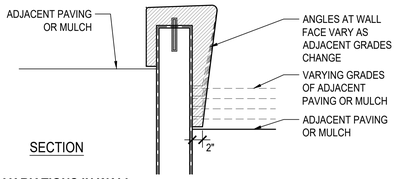
9 SCULPTURAL CONCRETE WALL SURFACE TREATMENT & CAP - BIORETENTION WEIR

SCALE: 1" = 1'-0"



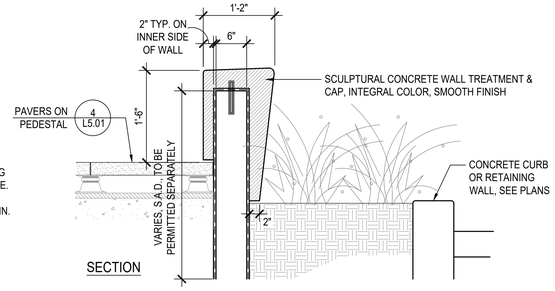
10 BIKE RACK

SCALE: 1" = 1'-0"



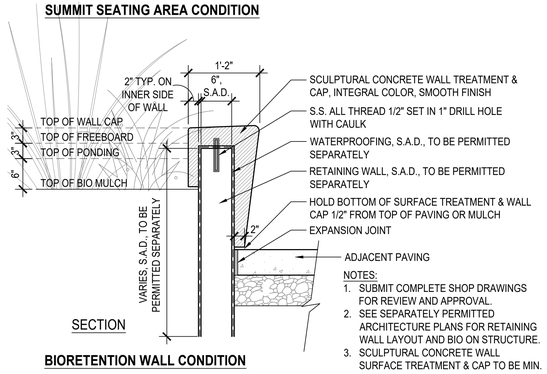
SECTION

VARIATIONS IN WALL FACE PER ADJACENT GRADES CONDITION



SECTION

SUMMIT SEATING AREA CONDITION



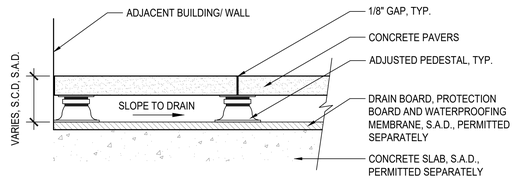
SECTION

NOTES:
1. SUBMIT COMPLETE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. SEE SEPARATELY PERMITTED ARCHITECTURE PLANS FOR RETAINING WALL LAYOUT AND BIO ON STRUCTURE.
3. SCULPTURAL CONCRETE WALL SURFACE TREATMENT & CAP TO BE MIN. 2" THICK.

BIORETENTION WALL CONDITION

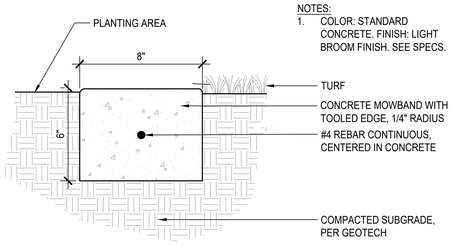
8 SCULPTURAL CONCRETE WALL SURFACE TREATEMENT & CAP

SCALE: 1" = 1'-0"



4 PAVERS ON PEDESTAL

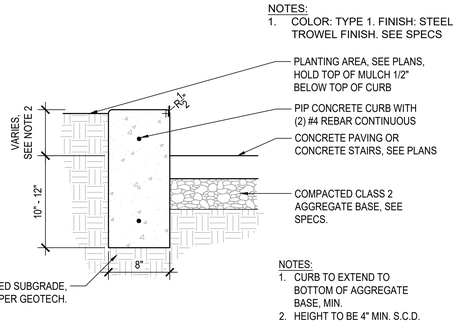
SCALE: 1-1/2" = 1'-0"



NOTES:
1. COLOR: STANDARD CONCRETE. FINISH: LIGHT BROOM FINISH. SEE SPECS.

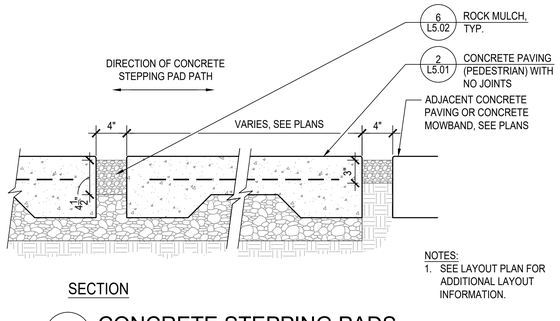
5 CONCRETE MOWBAND

SCALE: 3" = 1'-0"



6 LANDSCAPE CONCRETE CURB

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



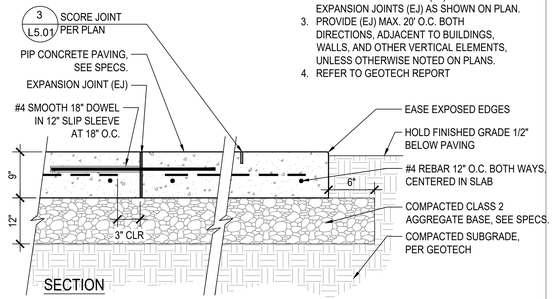
SECTION

NOTES:
1. SEE LAYOUT PLAN FOR ADDITIONAL LAYOUT INFORMATION.

7 CONCRETE STEPPING PADS

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

NOTES:
1. COLOR: TYPE 2. FINISH: LIGHT BROOM FINISH. SEE SPECS.
2. PROVIDE SCORE JOINTS (SJ) AND EXPANSION JOINTS (EJ) AS SHOWN ON PLAN.
3. PROVIDE (EJ) MAX. 20' O.C. BOTH DIRECTIONS, ADJACENT TO BUILDINGS, WALLS, AND OTHER VERTICAL ELEMENTS, UNLESS OTHERWISE NOTED ON PLANS.
4. REFER TO GEOTECH REPORT

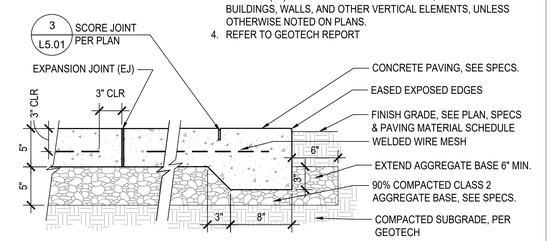


SECTION

1 CONCRETE PAVING (VEHICULAR)

NOT TO SCALE

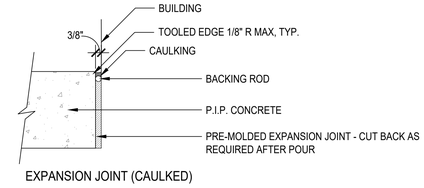
NOTES:
1. COLOR: SEE PLANS. FINISH: LIGHT BROOM FINISH. SEE SPECS.
2. PROVIDE SCORE JOINTS (SJ) AND EXPANSION JOINTS (EJ) AS SHOWN ON PLAN.
3. PROVIDE (EJ) MAX. 20' O.C. BOTH DIRECTIONS, ADJACENT TO BUILDINGS, WALLS, AND OTHER VERTICAL ELEMENTS, UNLESS OTHERWISE NOTED ON PLANS.
4. REFER TO GEOTECH REPORT



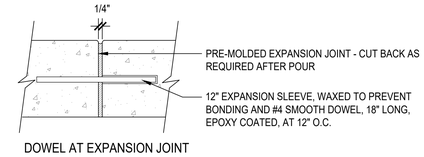
SECTION

2 CONCRETE PAVING (PEDESTRIAN)

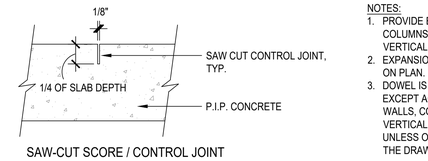
SCALE: 1-1/2" = 1'-0"



EXPANSION JOINT (CAULKED)



DOWEL AT EXPANSION JOINT



SAW-CUT SCORE / CONTROL JOINT

NOTES:
1. PROVIDE EJ'S AT ALL WALLS, COLUMNS AND SIMILAR VERTICAL STRUCTURES.
2. EXPANSION JOINTS AS SHOWN ON PLAN.
3. DOWEL IS TYPICAL AT ALL EJ'S EXCEPT AGAINST CURBS, WALLS, COLUMNS OR SIMILAR VERTICAL STRUCTURES, UNLESS OTHERWISE NOTED ON THE DRAWING.

3 EXPANSION AND CONTROL JOINTS

SCALE: 3" = 1'-0"

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CONSTRUCTION DETAILS

PROJECT NUMBER 13718.000

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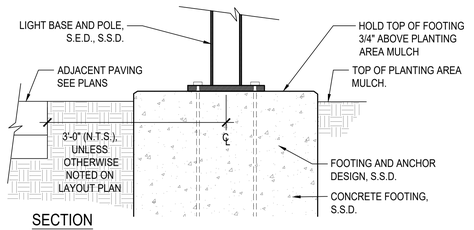
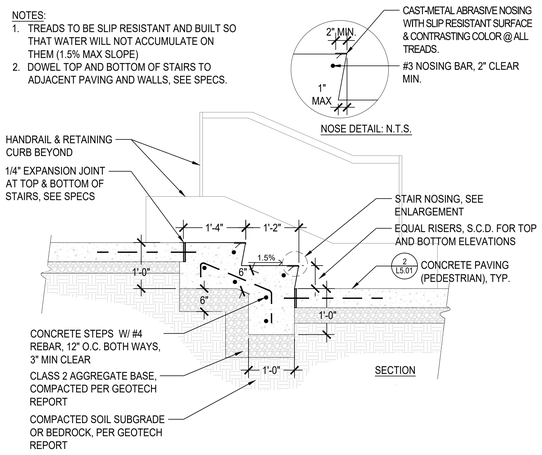
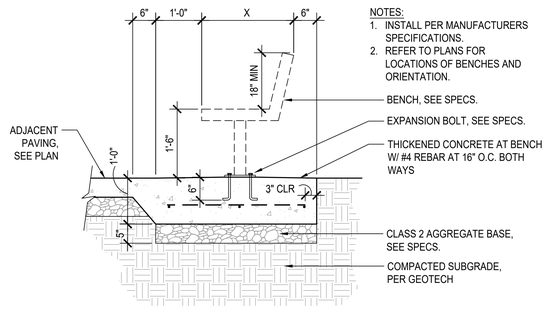


NOTES FOR ALL POLE LIGHT FOOTING CONDITIONS
1. SEE SITE CONSTRUCTION & LAYOUT PLAN FOR POLE LIGHT LAYOUT.
2. SEE ELECTRICAL PLANS FOR POLE LIGHT ELECTRICAL INFORMATION.
3. SEE STRUCTURAL PLANS FOR POLE LIGHT FOOTING DETAIL.

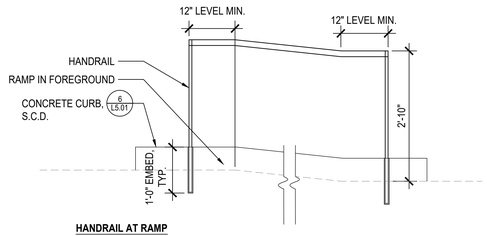
3 POLE LIGHT FOOTING
SCALE: 1-1/2" = 1'-0"



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

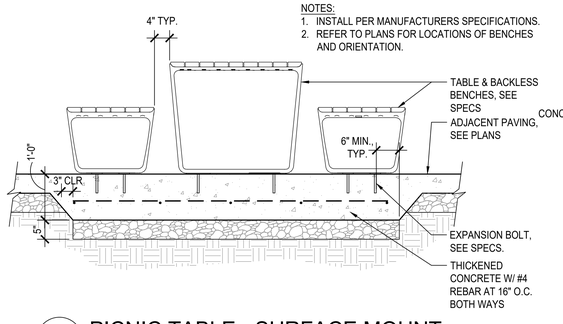


4 BENCH - SURFACE MOUNT
SCALE: 3/4" = 1'-0"

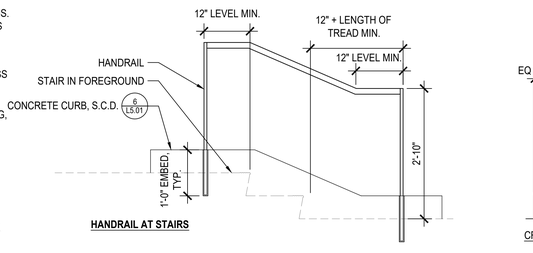


HANDRAIL AT RAMP

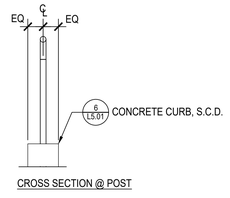
NOTES:
1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
2. REFER TO PLANS FOR LOCATIONS OF BENCHES AND ORIENTATION.



5 PICNIC TABLE - SURFACE MOUNT
SCALE: 3/4" = 1'-0"



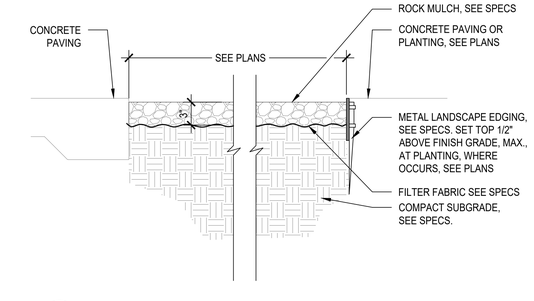
HANDRAIL AT STAIRS



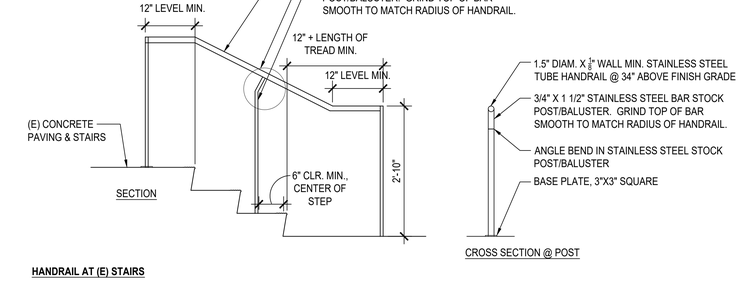
CROSS SECTION @ POST

NOTE:
1. CONTRACTOR TO PROVIDE SHOP DRAWING FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. HANDRAIL SHALL MEET ACCESSIBILITY REQUIREMENTS.
3. GRIND AND POLISH ALL WELDS, TYPICAL.

ANGLE BEND DETAIL: N.T.S.



6 ROCK MULCH
SCALE: 1-1/2" = 1'-0"



HANDRAIL AT (E) STAIRS

CROSS SECTION @ POST

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

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Author
4/19/2022 11:45:27 PM
Plot Date:

IRRIGATION NOTES

1. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE AND WIND EXPOSURE.
2. IRRIGATION TO COMPLY WITH BAY FRIENDLY LANDSCAPING GUIDELINES AND THE STATE WATER EFFICIENT LANDSCAPE ORDINANCE.
3. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE EXISTING & FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION THE CONTRACTING OFFICER FOR APPROVAL AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
4. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS UNDERGROUND UTILITIES, VAULTS, ETC.
5. THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS ARE PRESSURE REDUCING TYPES. SET THE DISCHARGE PRESSURE AS RECOMMENDED BY MANUFACTURER.
6. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
7. CONTROLLER OPERATIONS & (RE)PROGRAMMING MUST BE COORDINATED WITH OWNER
8. ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND DETAILS.
9. CONTRACTOR TO REFER TO SPECIFICATIONS
10. THIS IRRIGATION PLAN HAS BEEN DESIGNED TO COMPLY WITH THE CRITERIA OF CALIFORNIA'S WATER EFFICIENT LANDSCAPE ORDINANCE. ORDINANCE CRITERIA HAS BEEN APPLIED ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. NO INFILTRATION RATE INFORMATION WAS AVAILABLE DURING THE DESIGN PERIOD.
11. CONTRACTOR TO COMPLY WATER DISTRICT PROCEDURES & REQUIREMENTS.

REFERENCES:

- CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD REQUIREMENTS.
- GENERAL INSTALLATION OF IRRIGATION SYSTEM TO CONFORM WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL PROVISIONS AND CODES.
- LATEST EDITION OF THE UNIFORM PLUMBING CODE AND THE NATIONAL ELECTRIC CODE.
- DWR TITLE 23, CHAPTER 2.7 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE, 9/18/2015
- WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES (WUCOLS IV) JANUARY 2014, WUCOLS REGION FOR OAKLAND, CA IS #1 (NORTH-CENTRAL COASTAL).

IRRIGATION LEGEND

TREE IRRIGATION SYSTEM
USE (2) RAINBIRD RWS M-B-C 1401 (.25 GPM EACH) FOR WATERING TUBES FOR TREES UP TO 24" BOX SIZE AND ADDITIONAL 1401 TREE BUBBLER ON THE SURFACE OF THE ROOTBALL. FOR TREE BOX SIZES GREATER THAN 24", USE (3) RWS 1401 FOR 36" BOX SIZE AND (4) RWS 1401 FOR LARGER BOX SIZE AND AN ADDITIONAL 1402 TREE BUBBLER ON THE SURFACE.

SURFACE DRIP ZONE
RAINBIRD XFDP-06 DRIPLINE W/HEAVY-DUTY CHECK VALVE SURFACE DRIP LINE
W/ RAINBIRD DRIP SYSTEM OPERATION INDICATOR AT END OF EACH DRIP ZONE

18" EMITTER AND LINE SPACING XFDP-06-18

12" EMITTER AND LINE SPACING XFDP-06-12
NOTE: FOR SUMMIT STREET FRONTAGE.

ROTARY SPRAY - RAINBIRD 1804 BODY
RAINBIRD R-VAN24 (ADJUSTABLE)

RAINBIRD R-VAN24360 (FIXED FULL CIRCLE)

RAINBIRD R-VAN14360 (FIXED FULL CIRCLE)

SPRAY - RAINBIRD 1804 BODY
RAINBIRD HE-VAN 8, 10, 12, 15

CONTROLLERS
EXISTING CONTROLLER TO REMAIN, 30 STATION PLASTIC WALL MOUNTED HUNTER I-CORE WITH RAIN SENSOR. 9 STATIONS CURRENTLY USED. ADD HUNTER WIRELESS SOLAR SYNC SENSOR WITH MOUNTING ARM FOR A WEATHER BASED SMART CONTROL SYSTEM.

PROPOSED HUNTER I-CORE CONTROLLER FOR SUMMIT. BASE MODEL IC-600-PL AND ADDED MODULE ICM-600 FOR A 12 STATION CONTROLLER. ADD HUNTER WIRELESS SOLAR SYNC SENSOR WITH MOUNTING ARM FOR WEATHER BASED SMART CONTROL SYSTEM.

BACKFLOW PREVENTER
FEBCO #825Y, 3/4 INCH

REMOTE CONTROL VALVES (PRESSURE REGULATING)

MEDIUM+HIGH FLOW	LOW FLOW-DRIP ZONES
RAINBIRD PESB-R-PRS-D	RAINBIRD XERIGATION CONTROL ZONE KITS
PRESSURE REGULATING TYPE	XCZ-100-PRB-R

QUICK COUPLING VALVE
RAINBIRD 33-DLRC

MASTER VALVE
GRISWOLD CONTROLS MODEL 2000, 1.5 INCH MASTER VALVE NORMALLY CLOSED.

FLOW METER
DATA INDUSTRIAL #FSI-T10-001 WITH MINIMAL FLOW READ OF .86GPM TO A MAXIMUM FLOW READ OF 52GPM.

BALL VALVE
NIBCO T-113 BRONZE GATE VALVE, LINE SIZE, OR APPROVED EQUAL.

MAINLINES
2", SCH 40 PVC

EXISTING MAINLINE

LATERAL LINE
1", SCH 40 PVC

SLEEVE
CLASS 200 PVC, SIZE AS SHOWN

DRIP A13 19.1
1"
CONTROLLER / STATION NUMBER
FLOW RATE (GPM)
VALVE SIZE (INCHES)

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

SHEET TITLE

IRRIGATION LEGEND & NOTES

PROJECT NUMBER 13718.000

SHEET NUMBER L6.00

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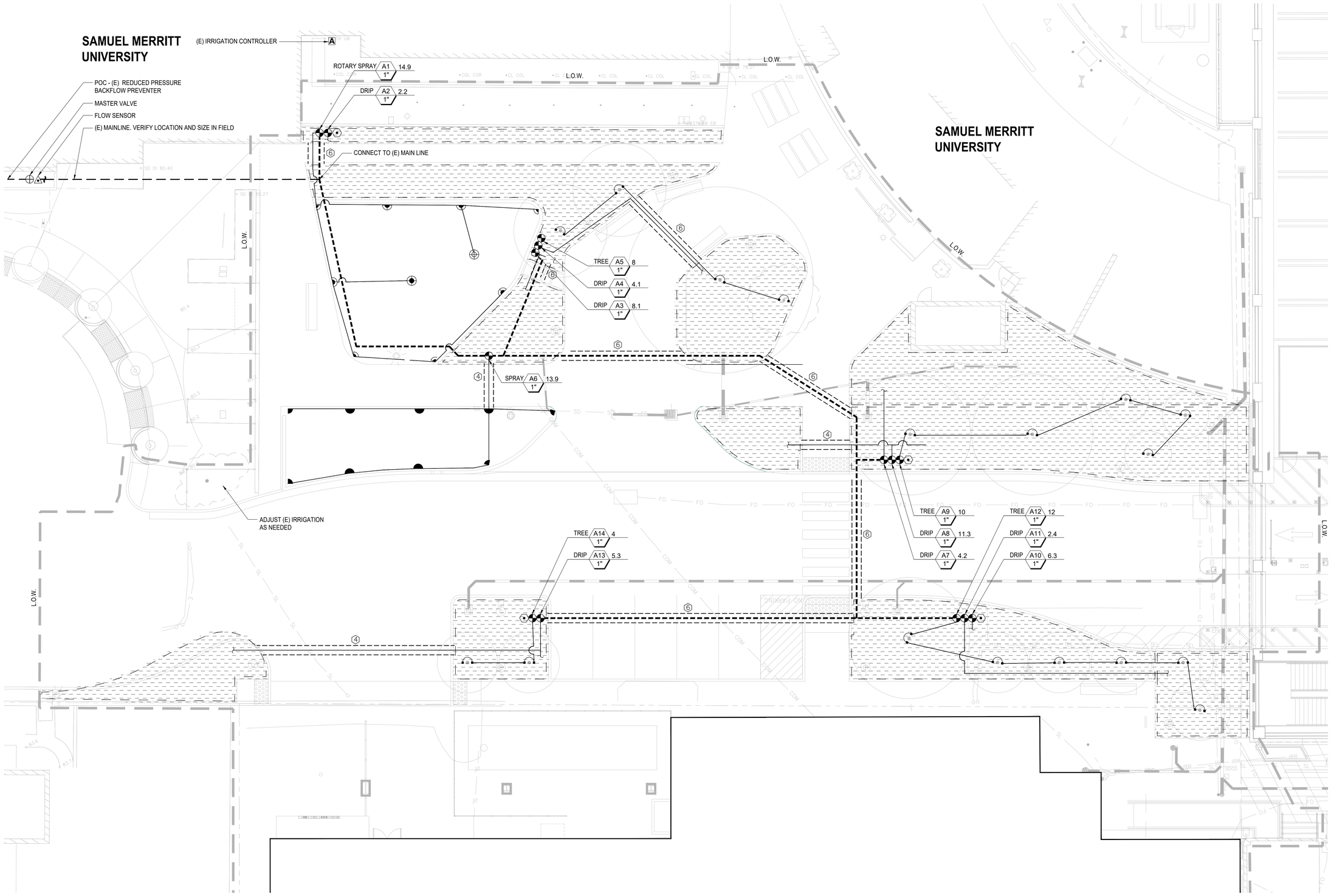

IRRIGATION NOTES

1. SEE SHEET L6.00 FOR IRRIGATION LEGEND AND NOTES.

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SCALE: 1"=8'-0"

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

IRRIGATION PLAN (PERALTA)

PROJECT NUMBER 13718.000

SHEET NUMBER L6.01

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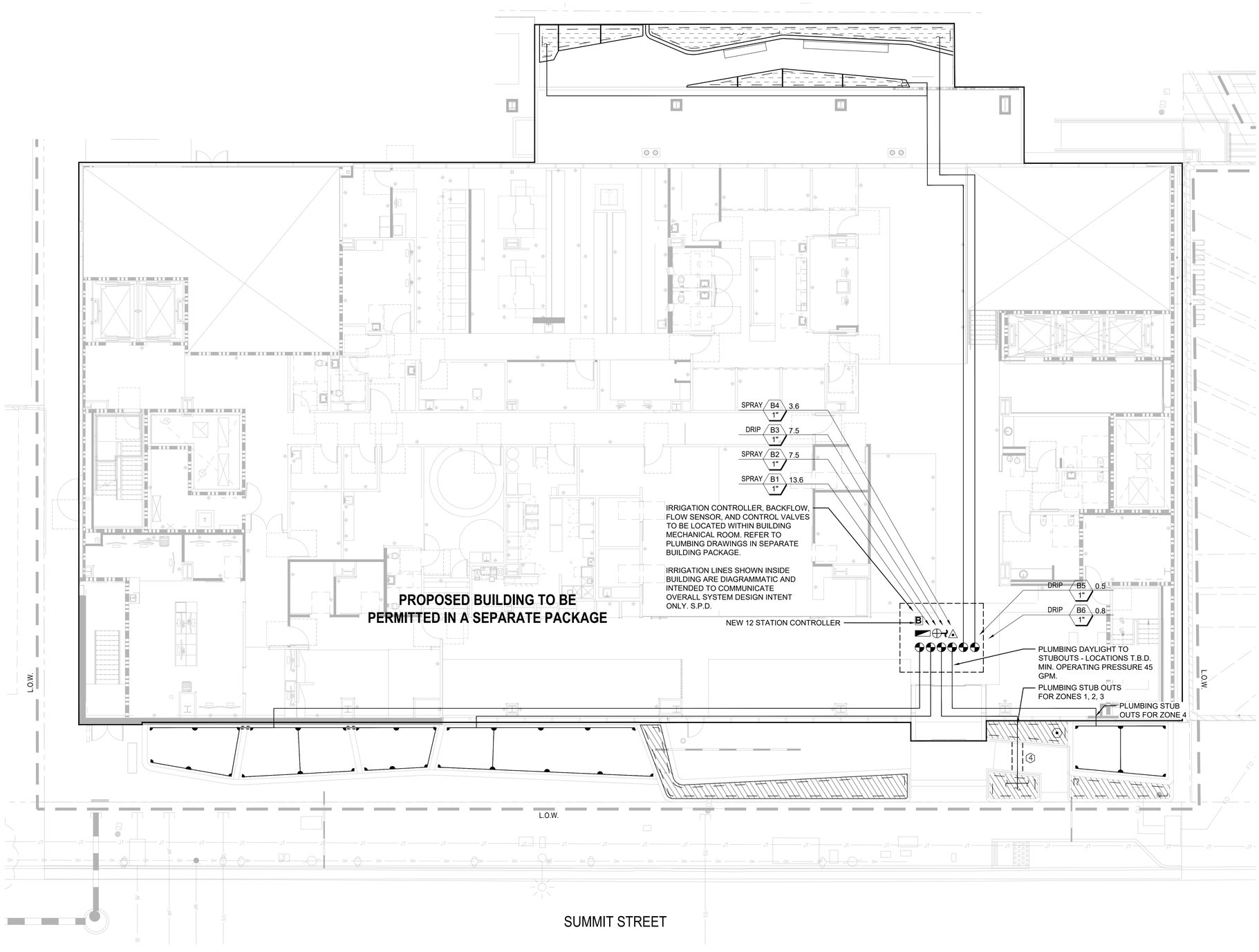

IRRIGATION NOTES

1. SEE SHEET L6.00 FOR IRRIGATION LEGEND AND NOTES.

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

IRRIGATION PLAN (BUILDING DOMESTIC)

13718.000
PROJECT NUMBER

L6.02
SHEET NUMBER

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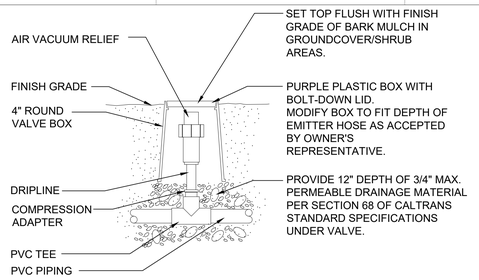
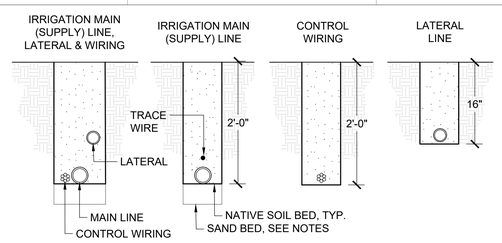


SECTION

NOTES:
1. INSTALL AIR VACUUM RELIEF VALVE AT ALL HIGH POINTS IN SYSTEM.
2. COMPONENTS TO BE PURPLE FOR USE IN A RECYCLED WATER SYSTEM

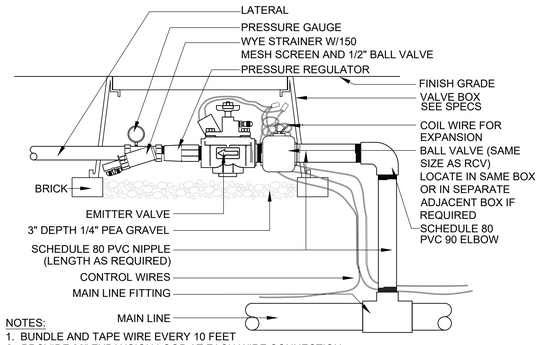
13 DRIP LINE FLUSH VALVE
NTS



SECTIONS

NOTES:
1. LAY IRRIGATION SUPPLY LINE ON NATIVE SOIL BED UNLESS SAND BED IS SPECIFIED
2. BUNDLE AND TAPE WIRE EVERY TEN FEET
3. PROVIDE 36" COVER OVER ALL PIPE AND PIPE SLEEVES UNDER ROADWAYS, PARKING LOTS, ENTRANCES TO PARKING LOTS AND FIRE ACCESS LANES PER NFPA 24, SECTION 10.44, SEE SPECS.
4. PROVIDE SEPARATE SLEEVES FOR ALL WIRES CROSSING UNDER ROADWAYS, PARKING LOTS AND FIRE ACCESS LANES PER NFPA 24, SECTION 10.44, SEE SPECS.

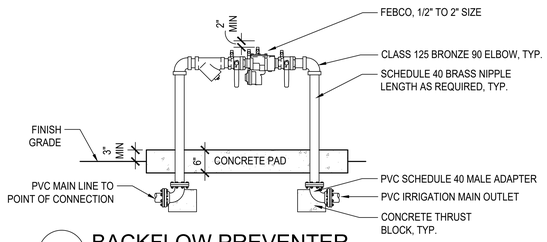
9 IRRIGATION TRENCHING
NTS



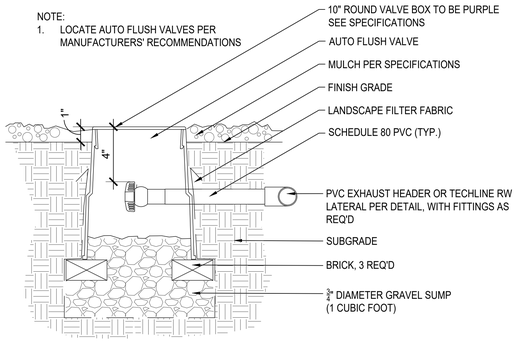
NOTES:
1. BUNDLE AND TAPE WIRE EVERY 10 FEET
2. PROVIDE 36" EXPANSION LOOP AT EACH WIRE CONNECTION
3. LOCATE VALVES MIN. 4" FROM PAVED WALKWAYS.

5 REMOTE CONTROL VALVE_DRIP
NTS

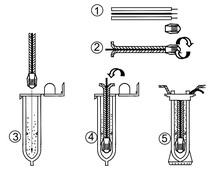
NOTES:
1. INSTALL PER MANUFACTURER RECOMMENDATIONS.
2. SEE IRRIGATION LEGEND FOR MAKE AND MODEL NUMBER OF BACKFLOW PREVENTER.



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

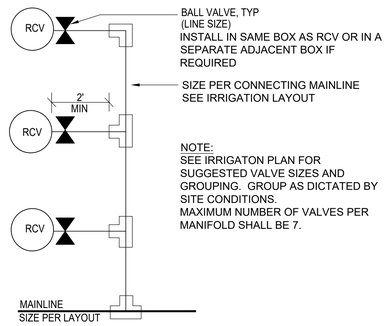


14 DRIP AIR VACUUM RELIEF VALVE
NTS

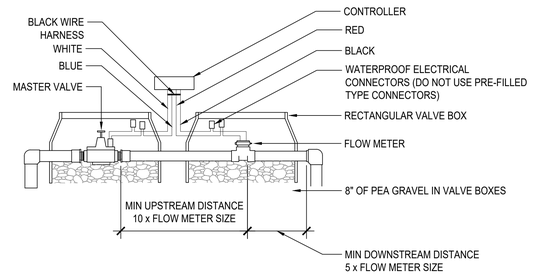


NOTES:
1. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

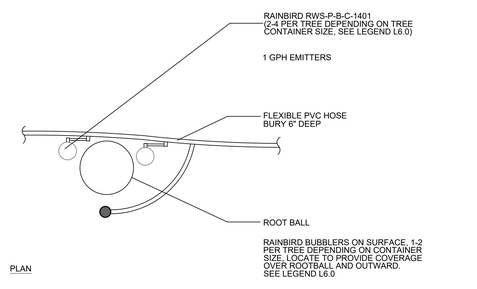
10 WATERPROOF WIRE CONNECTION
NTS



6 REMOTE CONTROL VALVE - CONNECTION
NTS



2 MASTER VALVE AND FLOW METER
SCALE: 3/4" = 1'-0"

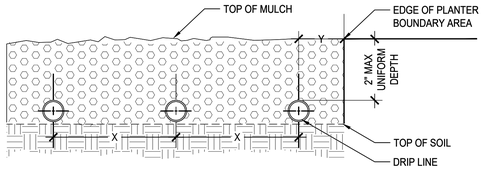


PLAN

11 TREE IRRIGATION
NTS

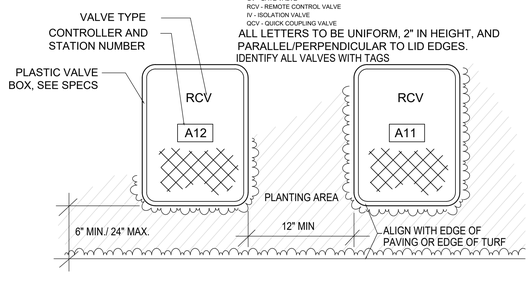
X DIMENSION (INCHES)	Y DIMENSION (INCHES)
12 OR 18, SEE PLANS	4 OR 6

NOTES:
1. TYPICAL DIMENSIONS FOR DRIP LINE GRID LAYOUT IN PLANTING AREAS.
2. COORDINATE PLANTING INSTALLATION WITH GRID LAYOUT TO AVOID DAMAGE TO INSTALLED DRIP LINE AND TO PROVIDE UNIFORM IRRIGATION COVERAGE.
3. INSTALL DRIPLINE PARALLEL TO CONTOUR LINES.
4. USE PURPLE TUBING FOR RECYCLE WATER SYSTEM

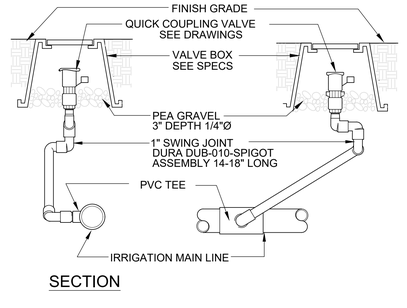


12 DRIP TUBING ON GRADE INSTALLATION
NTS

NOTE:
IDENTIFY CONTROLLER AND STATION NUMBER.
IDENTIFY VALVE TYPE.
VALVE TYPE ABBREVIATIONS:
GV - GATE VALVE
RCV - REMOTE CONTROL VALVE
IV - ISOLATION VALVE
QCV - QUICK COUPLING VALVE
ALL LETTERS TO BE UNIFORM, 2" IN HEIGHT, AND PARALLEL/PERPENDICULAR TO LID EDGES.
IDENTIFY ALL VALVES WITH TAGS

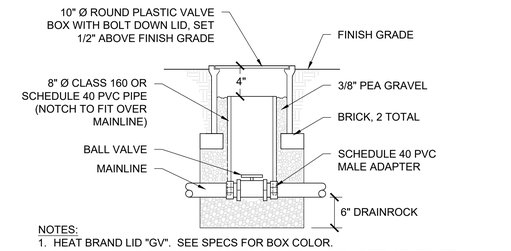


7 REMOTE CONTROL VALVES - LOCATION
NTS



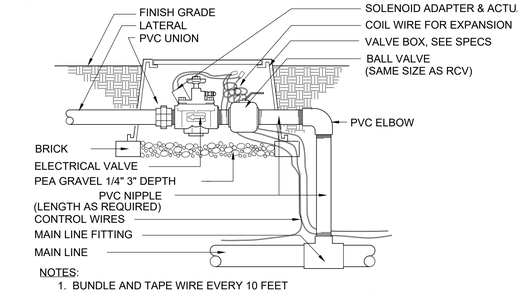
SECTION

8 QUICK COUPLING VALVE
NTS



NOTES:
1. HEAT BRAND LID "GV". SEE SPECS FOR BOX COLOR.
2. BALL VALVE AND FITTINGS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
3. USE TEFLON TAPE ON ALL THREADED FITTINGS.
4. VALVE BOX LID TO BE PURPLE FOR USE IN A RECYCLED WATER SYSTEM

3 ISOLATION/GATE VALVE
NTS



NOTES:
1. BUNDLE AND TAPE WIRE EVERY 10 FEET
2. PROVIDE 36" EXPANSION LOOP AT EACH WIRE CONNECTION
3. SIZE BOX TO INCLUDE RCV AND BALL VALVES
4. CONTRACTOR TO INSTALL NECESSARY SOLENOID ADAPTAR FOR PROPER ATTACHEMENT OF ACTUATOR
5. VALVE TO RW TAG AND HAVE PURPLE COMPONENTS FOR USE IN A RECYCLED WATER SYSTEM

4 REMOTE CONTROL VALVE
NTS

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

IRRIGATION DETAILS

13718.000
PROJECT NUMBER

L6.03
SHEET NUMBER

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Author
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Plot Date:

STANFORD MEDICINE SUTTER HEALTH CANCER CENTER - PERALTA

WATER TYPE	POTABLE
SITE ETO=	33

PLN#

REGULAR LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/ YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE
1	AMENDED PLANTING SOIL	LOW	0.3	DRIP	0.81	0.37	6,246	2,313	47,331	0.15	63.28	72.63%
2	AMENDED PLANTING SOIL	MOD	0.5	DRIP	0.81	0.62		0	0	0.00	0.00	0.00%
3	BIORETENTION SOIL	MOD	0.5	SPRAY	0.75	0.67	768	512	10,469	0.03	14.00	8.92%
4	CONTAINER PLANTING SOIL	MOD	0.5	DRIP	0.81	0.62		0	0	0.00	0.00	0.00%
5	STRUCTURAL SOIL	LOW	0.3	BUBBLER	0.81	0.37		0	0	0.00	0.00	0.00%
6	TURF	MOD	0.5	SPRAY	0.75	0.67	1,330	887	18,141	0.06	24.25	15.47%
7	SHRUBS	HIGH	0.8	BUBBLER	0.81	0.99		0	0	0.00	0.00	0.00%
8	TREES	LOW	0.3	BUBBLER	0.81	0.37	256	95	1,940	0.01	2.59	2.98%
					TOTALS		8,600	3,806	77,881	0.24	104.12	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME											
	N/A											0%
					TOTALS							0%

MAWA	GALLONS/YR	79,176
	ACRE FEET/YR	0.24
	HCF/YR	105.85
ETWU	GALLONS/YR	77,881
	ACRE FEET/YR	0.24
	HCF/YR	104.12

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION
0.55= ET ADJUSTMENT FACTOR
LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION
PF = PLANT FACTOR FOR HYDROZONES
HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

SITE IRRIGATION EFFICIENCY	SITE PLANT FACT0R	MAWA COMPLIANT
79.5%	0.35	YES

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP
IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

ETAF Calculations

REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	3,806
TOTAL AREA	8,600
AVG. ETAF	44.26%

STANFORD MEDICINE SUTTER HEALTH CANCER CENTER - BUILDING DOMESTIC

WATER TYPE	POTABLE
SITE ETO=	33

PLN#

REGULAR LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/ YEAR	HCF/ YEAR	PERCENTAGE OF LANDSCAPE
1	AMENDED PLANTING SOIL	LOW	0.3	DRIP	0.81	0.37	874	324	6,623	0.02	8.85	46.15%
2	AMENDED PLANTING SOIL	MOD	0.5	DRIP	0.81	0.62		0	0	0.00	0.00	0.00%
3	BIORETENTION SOIL	LOW	0.3	SPRAY	0.75	0.40	656	262	5,369	0.02	7.18	34.64%
4	BIORETENTION SOIL	MOD	0.5	SPRAY	0.75	0.67	364	243	4,965	0.02	6.64	19.22%
5	CONTAINER PLANTING SOIL	MOD	0.5	DRIP	0.81	0.62		0	0	0.00	0.00	0.00%
6	STRUCTURAL SOIL	LOW	0.3	BUBBLER	0.81	0.37		0	0	0.00	0.00	0.00%
7	TURF	MOD	0.5	SPRAY	0.75	0.67		0	0	0.00	0.00	0.00%
9	SHRUBS	HIGH	0.8	BUBBLER	0.81	0.99		0	0	0.00	0.00	0.00%
10	TREES	LOW	0.3	BUBBLER	0.81	0.37		0	0	0.00	0.00	0.00%
					TOTALS		1,894	829	16,957	0.05	22.67	100%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME											
	N/A											0%
					TOTALS							0%

MAWA	GALLONS/YR	17,438
	ACRE FEET/YR	0.05
	HCF/YR	23.31
ETWU	GALLONS/YR	16,957
	ACRE FEET/YR	0.05
	HCF/YR	22.67

MAWA FORMULA

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR

MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION
0.55= ET ADJUSTMENT FACTOR
LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA

ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR

ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION
PF = PLANT FACTOR FOR HYDROZONES
HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

SITE IRRIGATION EFFICIENCY	SITE PLANT FACT0R	MAWA COMPLIANT
51.8%	0.23	YES

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP
IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

ETAF Calculations

REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	829
TOTAL AREA	1,894
AVG. ETAF	43.76%

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13718.000
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SHEET NUMBER

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Plot Date:

PLANT LIST

TREES										
QTY.	ABBR.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	WATER USE	HEIGHT	SPREAD	STAKING	NOTES
3	ARB MAR	ARBUTUS 'MARINA'	MARINA STRAWBERRY TREE	48" BOX	SEE PLAN	LOW	25-40'	20-35'	NO	MULTI-TRUNK
3	ARC HUR	ARCTOSTAPHYLOS MANZANITA 'DR. HURD'	DR. HURD MANZANITA	24" BOX	SEE PLAN	LOW	10-15'	10-15'	YES	MULTI-TRUNK
7	CER MEX	CERCIS CANADENSIS 'MEXICANA'	MEXICAN REDBUD	24" BOX	SEE PLAN	LOW	12-25'	12-25'	NO	MULTI-TRUNK
1	QUE SUB	QUERCUS SUBER	CORK OAK	72" BOX	SEE PLAN	LOW	30-60'	30-60'	NO	STANDARD
3	TIL TOM	TILIA TOMENTOSA 'STERLING'	STERLING SILVER LINDEN	48" BOX	SEE PLAN	LOW	50-70'	30-50'	NO	STANDARD

UNDERSTORY											
SYM.	QTY.	ABBR.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	WATER USE	HEIGHT	SPREAD	STORMWATER TREATMENT USE	NOTES
LARGE SHRUBS											
	11	BUD CRO	BUDDLEIA 'CROWN OF JEWELS'	BUTTERFLY BUSH	15 GAL	4'-0" O.C.	LOW	3-5'-0"	3-5'-0"		
	2	CAL OCC	CALYCANTHUS OCCIDENTALIS	SPICE BUSH	15 GAL	10'-0" O.C.	MOD	5-12'-0"	5-12'-0"	YES	CA NATIVE
	6	CEP OCC	CEPHALNTHUS OCCIDENTALIS 'SUGAR SHACK'	SUGAR SHACK BUTTONBUSH	15 GAL	4'-0" O.C.	MOD	3-4'-0"	3-4'-0"	YES	CA NATIVE
	5	COR COR	CORYLUS CORNUTA VAR. CALIFORNICA	CALIFORNIA HAZEL	15 GAL	6'-0" O.C.	LOW	8'-0"	6'-0"	YES	CA NATIVE
	8	COT COG	COTINUS COGGYGRIA 'GOLDEN SPIRIT'	GOLDEN SPIRIT SMOKE TREE	15 GAL	6-0" O.C.	LOW	8'-0"	6'-0"		
	4	FRE KEN	FREMONTODENDRON 'KEN TAYLOR'	KEN TAYLOR FLANNEL BUSH	15 GAL	10'-0" O.C.	LOW	6'-0"	8-12'-0"		CA NATIVE
	12	LEU SIL	LEUCADENDRON 'SILVAN RED'	LEUCADENDRON 'SILVAN RED'	15 GAL	6'-0" O.C.	LOW	6'-0"	6'-0"		
	4	SAM RAC	SAMBUCUS RACEMOSA	RED ELDERBERRY	15 GAL	6'-0" O.C.	LOW	10'-0"	6'-0"	YES	CA NATIVE
SHRUBS, PERENNIALS, GRASSES											
	29	ACH MIL	ACHILLEA MILLEFOLIUM 'WHITE BEAUTY'	WESTERN YARROW	1 GAL	1'-6" O.C.	LOW	1-3'-0"	1'-0"	YES	CA NATIVE
	119	ACH MOO	ACHILLEA 'MOONSHINE'	MOONSHINE COMMON YARROW	1 GAL	2'-0" O.C.	LOW	2'-0"	2'-0"		CA NATIVE
	113	CAR DIV	CAREX DIVULSA	BERKELEY SEDGE	1 GAL	2'-0" O.C.	LOW	1'-6"	2'-0"	YES	
	6	CHO ELE	CHONDROPEALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GAL	4'-0" O.C.	LOW	3-5'-0"	4-6'-0"	YES	
	15	FES MAI	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	3'-0" O.C.	LOW	2-3'-0"	2-3'-0"		
	16	IRI CAN	IRIS DOUGLASIANA 'CANYON SNOW'	CANYON SNOW IRIS	1 GAL	2'-0" O.C.	LOW	1-2'-0"	2-3'-0"	YES	
	25	IRI DOU	IRIS DOUGLASIANA	DOUGLAS IRIS	1 GAL	2'-0" O.C.	LOW	1-2'-0"	2-3'-0"	YES	CA NATIVE
	18	KNI FLA	KNIPHOFIA UVARIA 'FLAMENCO'	FLAMENCO RED HOT POKER	5 GAL	2'-0" O.C.	LOW	2-3'-0"	2-3'-0"		
	100	MAH AQU	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT OREGON GRAPE	5 GAL	3'-6" O.C.	LOW	2-3'-0"	3-4'-0"		
	217	MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	3'-0" O.C.	LOW	2-3'-0"	3'-0"	YES	
	22	MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	5'-0" O.C.	LOW	4-5'-0"	4-6'-0"	YES	CA NATIVE
	11	ROS OFF	ROSMARINUS OFFICINALIS 'BARBECUE'	BARBECUE ROSEMARY	5 GAL	3'-0" O.C.	LOW	4-6'-0"	2-3'-0"		
	11	SEN MAN	SENECIO MANDRALISCAE	BLUE CHALKSTICKS	1 GAL	2'-0" O.C.	LOW	1-1'-6"	2'-0"		
	1003	SES AUT	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL	1'-0" O.C.	LOW	1-2'-0"	1-2'-0"		
GROUND COVER											
	24	ARC POI	ARCTOSTAPHYLOS UVA-URSI 'POINT REYES'	POINT REYES BEARBERRY	5 GAL	6'-0" O.C.	LOW	18"	6'-0"		
	10	CEA GRI	CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT'	YANKEE POINT CEANOTHUS	5 GAL	9'-0" O.C.	LOW	2-3'-0"	8-10'-0"		HOLD CENTER OF PLANT 5'-0" FROM PAVING EDGE

PLANTING NOTES

1. ALL TREES TO BE STANDARD FORM, UNLESS OTHERWISE NOTED AS 'MULTI' TRUNK.
2. REFER TO SPECIFICATIONS FOR SOIL PREPARATION, PLANTING, AND MAINTENANCE PERIOD REQUIREMENTS.
3. CONTRACTOR TO REFER TO PLANT LIST FOR PLANT SIZE AND SPACING. USE TRIANGULAR SPACING UNLESS OTHERWISE NOTED.
4. PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES SHOWN IN PLANTING PLANS.
5. CONTRACTOR TO SUBMIT PLANT SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT, SEE SPECS.
6. LANDSCAPE ARCHITECT TO INSPECT PLANTING LAYOUT PRIOR TO INSTALLATION. CONTRACTOR TO PROVIDE 10' X 10' MOCKUP OF ALL PLANT MIXES FOR APPROVAL BY LANDSCAPE ARCHITECT.
7. PRIOR TO PLANTING, REVIEW WITH ARBORIST AND LANDSCAPE ARCHITECT ANY PROPOSED PLANTING BENEATH EXISTING TREES. MODIFICATIONS TO PLANTING LAYOUT MAY BE REQUIRED TO PROTECT EXISTING TREES.
8. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES, STRUCTURES, AND IRRIGATION LINES BEFORE DIGGING.
9. GROUNDCOVERS ARE TO EXTEND UNDER NEW TREE AND SHRUB PLANTINGS FOR FULL COVERAGE. SPACE GROUNDCOVER MINIMUM 18" AWAY FROM TREES AND 12" AWAY FROM SHRUBS. DO NOT PLANT SHRUB, GROUNDCOVER, OR GRASS PLANTINGS WITHIN THE ROOTBALL OF NEW TREES.
10. SEE GRADING PLAN FOR FINISH GRADES. ALL FINISH GRADES REFER TO FINISH GRADE OF MULCHED LANDSCAPE.
11. ALL PLANTING AREAS, PLANTERS, AND POTS TO RECEIVE 3" OF MULCH, SEE SPECS.
12. PHYTOPHTHORA TESTING REQUIREMENTS FOR ALL PLANT MATERIAL TO BE CONFIRMED BY CLIENT.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

SHEET TITLE

PLANTING LEGEND & NOTES

PROJECT NUMBER 13718.000

SHEET NUMBER L7.00

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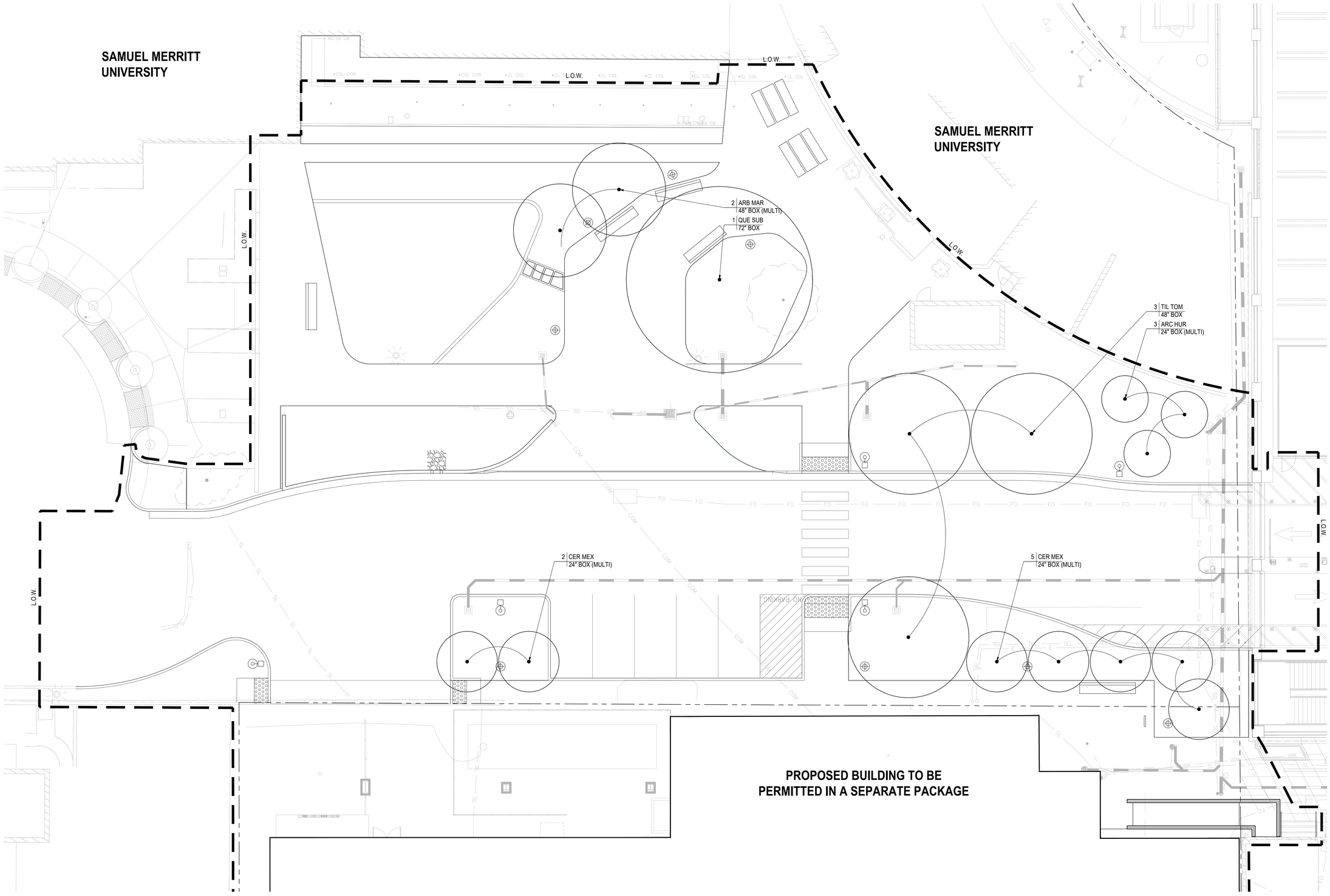

PLANTING NOTES

1. SEE SHEET L7.00 FOR PLANTING LEGEND AND NOTES.

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SCALE: 1"=8'-0"

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KEYPLAN

SHEET TITLE

PLANTING PLAN - TREES (PERALTA)

PROJECT NUMBER 13718.000

SHEET NUMBER L7.01

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Author
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SAMUEL MERRITT UNIVERSITY

SAMUEL MERRITT UNIVERSITY

L.O.W.

18 | ACH MOO | 1 GAL
60 | SES AUT | 1 GAL
19 | MUH DUB | 1 GAL
2 | COT COG | 15 GAL
1 | CEA GRI | 5 GAL
26 | MUH DUB | 1 GAL
24 | MAH AQU | 5 GAL
32 | ACH MOO | 1 GAL
4 | LEU SIL | 10 GAL
200 | SES AUT | 1 GAL
TURF, SEE SPECS
2 | BUD CRO | 10 GAL
1 | FRE KEN | 15 GAL
11 | MAH AQU | 5 GAL
2 | CEA GRI | 5 GAL
1 | LEU SIL | 10 GAL
1 | FRE KEN | 15 GAL
21 | MUH DUB | 1 GAL
82 | ACH MOO | 1 GAL
(E) OLIVE TO REMAIN
89 | SES AUT | 1 GAL
3 | BUD CRO | 10 GAL
4 | CEA GRI | 5 GAL
15 | ACH MOO | 1 GAL
69 | MUH DUB | 1 GAL
6 | COT COG | 15 GAL
14 | ARC POI | 5 GAL
2 | FRE KEN | 15 GAL
4 | LEU SIL | 10 GAL
31 | MAH AQU | 5 GAL
15 | MUH RIG | 1 GAL
60 | CAR DIV | 1 GAL
25 | IRI DOU | 1 GAL
2 | CAL OCC | 15 GAL
BIORETENTION COBBLE, S.C.D.
9 | MUH DUB | 1 GAL
63 | AUT SES | 1 GAL
14 | ACH MOO | 1 GAL
2 | ARC POI | 5 GAL
20 | MUH DUB | 1 GAL
3 | CEA GRI | 5 GAL
5 | BUD CRO | 10 GAL
77 | SES AUT | 1 GAL
12 | ACH MOO | 1 GAL
4 | ARC POI | 5 GAL
19 | MUH DUB | 1 GAL
5 | ARC POI | 5 GAL
9 | ACH MOO | 1 GAL
59 | SES AUT | 1 GAL
11 | MUH DUB | 1 GAL
34 | MAH AQU | 5 GAL
32 | ACH MOO | 1 GAL
3 | LEU SIL | 10 GAL
355 | SES AUT | 1 GAL

PROPOSED BUILDING TO BE PERMITTED IN A SEPARATE PACKAGE

PLANTING NOTES

1. SEE SHEET L7.00 FOR PLANTING LEGEND AND NOTES.

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SCALE: 1"=8'-0"

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

PLANTING PLAN - SHRUBS (PERALTA)

PROJECT NUMBER 13718.000

SHEET NUMBER L7.01A

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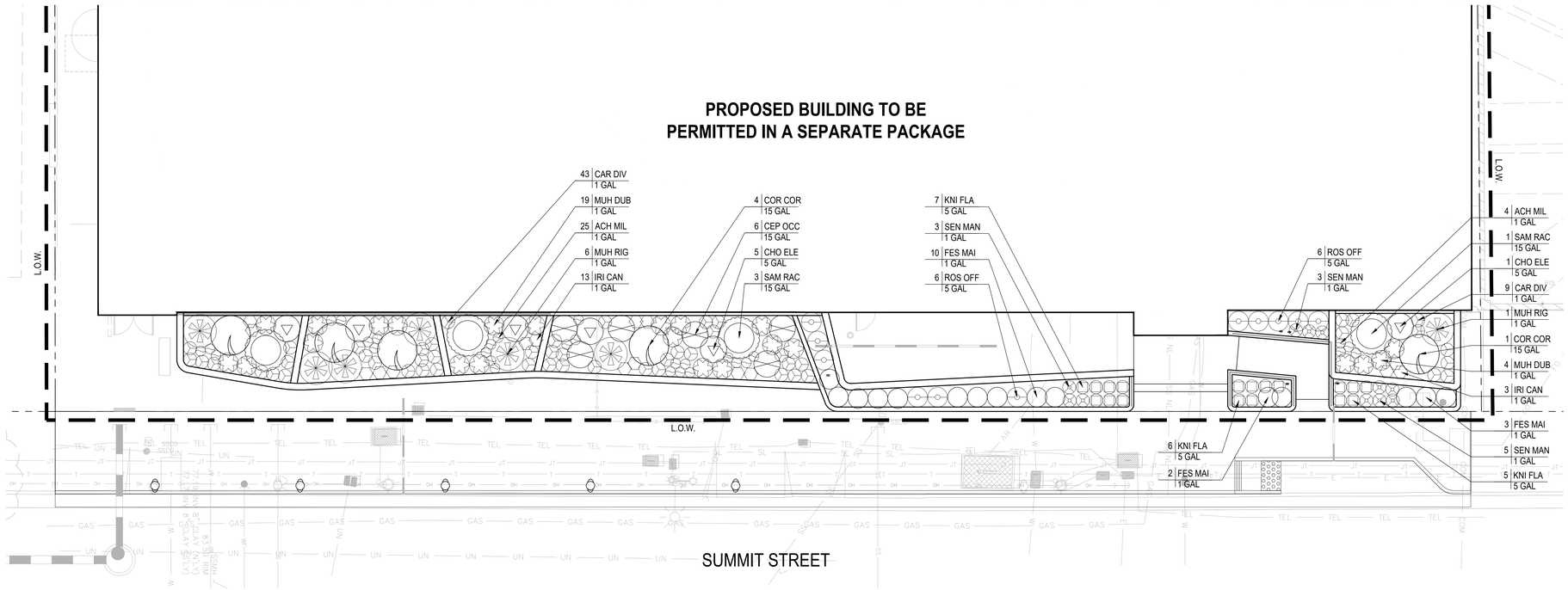

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SCALE: 1"=8'-0"

PLANTING NOTES

1. SEE SHEET L7.00 FOR PLANTING LEGEND AND NOTES.

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KEYPLAN

SHEET TITLE

PLANTING PLAN (SUMMIT)

PROJECT NUMBER 13718.000

SHEET NUMBER L7.02

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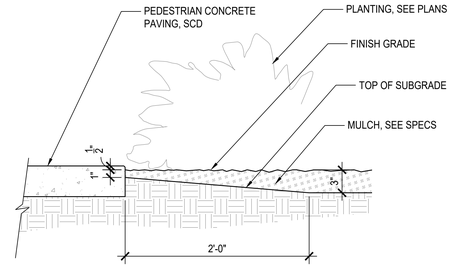
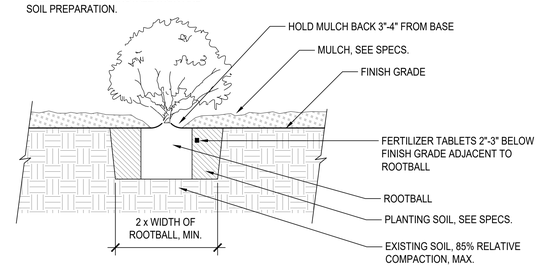
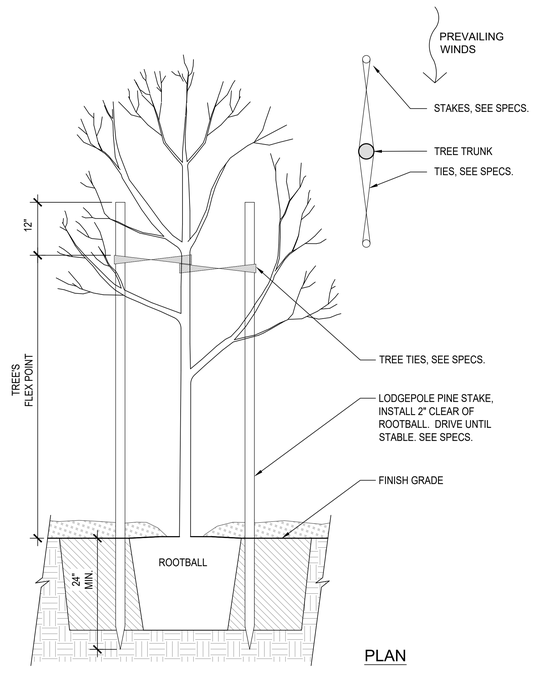


5 MULCH AT CONCRETE PAVING
SCALE: 1-1/2" = 1'-0"

NOTE:
1. SEE SPECS FOR MORE INFORMATION REGARDING PLANT INSTALLATION AND SOIL PREPARATION.



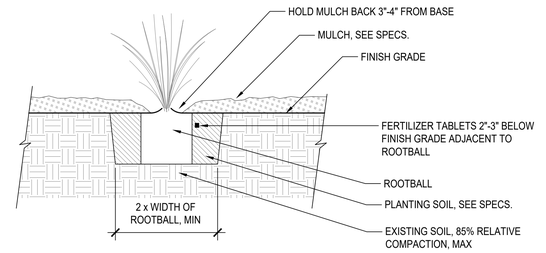
1 SHRUB PLANTING
SCALE: 1" = 1'-0"



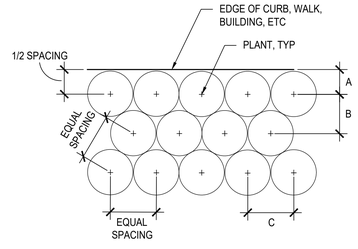
PLAN

6 TREE STAKING
SCALE: 3/4" = 1'-0"

NOTE:
1. SEE SPECS FOR MORE INFORMATION REGARDING PLANT INSTALLATION AND SOIL PREPARATION.



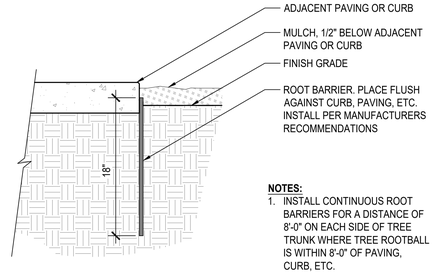
2 ORNAMENTAL GRASS PLANTING
SCALE: 1" = 1'-0"



NOTES:
1. SEE PLANTING PLAN FOR SPACING BY PLANT SPECIES.
2. INSTALL TRIANGULATED PLANT LAYOUT, UNLESS OTHERWISE SHOWN ON PLANS.

PLANT SPACING	A	B	C
12"	6"	10"	12"
1'-6"	9"	1'-4"	1'-6"
2'-0"	12"	1'-9"	2'-0"
2'-6"	1'-3"	2'-2"	2'-6"
3'-0"	1'-6"	2'-7"	3'-0"
3'-6"	1'-9"	3'-0"	3'-6"
4'-0"	2'-0"	3'-6"	4'-0"
4'-6"	2'-3"	3'-11"	4'-6"
5'-0"	2'-6"	4'-4"	5'-0"

3 PLANTING LAYOUT
NTS



NOTES:
1. INSTALL CONTINUOUS ROOT BARRIERS FOR A DISTANCE OF 8'-0" ON EACH SIDE OF TREE TRUNK WHERE TREE ROOTBALL IS WITHIN 8'-0" OF PAVING, CURB, ETC.

4 ROOT BARRIER
SCALE: 1-1/2" = 1'-0"

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SEALS AND SIGNATURES

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KEYPLAN

SHEET TITLE

PLANTING DETAILS

13718.000
PROJECT NUMBER

L7.03
SHEET NUMBER

RELOCATE LOW VOLTAGE LINE CONNECTED TO SMU BUILDING BEFORE PROCEED WITH DEMOLITION

TEMPORARY PEDESTRIAN PATH DURING CONSTRUCTION

NO SURCHARGE APPLIED BEYOND THIS LINE

PRESERVED AREA DURING BUILDING CONSTRUCTION PRIOR FINAL DEMOLITION

PRESERVED AREA DURING BUILDING CONSTRUCTION PRIOR FINAL DEMOLITION

REMOVE EXISTING BENCHES TO BE RELOCATED

NO VEHICULAR, EQUIPMENT SURCHARGE ALLOWED BEYOND THIS LINE (20' FROM EXISTING BUILDING BASEMENT WALL)

RELOCATED REMOVED BENCHES (ORIGINAL LOCATION SHOWED IN DASHED LINE)

TEMPORARY FENCE DURING CONSTRUCTION

REMOVE ONE EXISTING SUNSHADE COLUMNS AND TWO EXISTING BEAMS. EXISTING FOOTINGS AT COLUMNS TO REMAIN.

AFTER REMOVAL OF EXISTING ELECTRICAL PANEL, REMOVE UNPAINTED CONCRETE SCREEN WALL BACK TO EAST END OF EXISTING PAINTED CONCRETE WALL AND TO TOP OF EXISTING CONCRETE WALL FOOTING TO REMAIN. EPOXY COAT REMAINING EXISTING BAR ENDS THAT ARE EXPOSED TO WEATHER OR EARTH.

REMOVE CONCRETE ISLAND & ARM GATE

CONSTRUCTION ZONE ACCESS

DEMOLITION AREA 2

DEMOLITION AREA 1

REMOVE (E) KNOCK OUT PANELS

REMOVE (E) STRIPING FOR NEW ENTRANCE

EXISTING BUILDING

PARKING LOT ASPHALT

LANDSCAPE

CONCRETE

ASPHALT

CONCRETE WALL

SUMMIT STREET

OBSCURED BY BLDG

1 DEMO SITE PLAN
SCALE: 1/16" = 1'-0"

GRAPHIC LEGEND

- DEMOLITION
- LOW VOLTAGE LINE
- SURCHARGE BOUNDARY
- TEMPORARY FENCE DURING CONSTRUCTION

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. REFER TO CIVIL DRAWINGS (PX, PZ) FOR DESCRIPTION OF DEMOLITION SCOPE NOT INCLUDED IN THIS SHEET

E. REFER TO ARBOLIST REPORT AND PROCEED ACCORDINGLY TO RECOMMENDATIONS.

F. REFER TO FINAL LANDSCAPE DRAWING FOR NEW CONCRETE PEDESTRIAN PATH.

G. REFER LANDSCAPE AND ELECTRICAL DRAWING FOR EXISTING LIGHT POLE TO REMAIN.

H. UNLESS OTHERWISE NOTED, ALL DEMOLISHED ITEMS ARE TO BE DISCARDED.

REFERENCE KEYNOTES

SHEET KEYNOTES

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TRUE NORTH PROJECT NORTH

SHEET TITLE
DEMOLITION PLAN

PROJECT NUMBER
13718.000

SHEET NUMBER
A0.0.D1

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ARCHITECTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ACS PNL	ACCESS PANEL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AVG	AVERAGE

B

BB	BULLETIN BOARD
BD	BOARD
BTWN	BETWEEN
BITUM	BITUMINOUS
BLDG	BUILDING
BM	BENCHMARK
BOD	BASIS OF DESIGN
BOT	BOTTOM
BOS	BOTTOM OF STEEL
BRG	BEARING
BSMT	LOWER LEVEL
BUR	BUILT UP ROOFING SYSTEM

C

CAB	CABINET
CB	CATCH BASIN
CCR	CARD CONTROL READER
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CG	CORNER GUARD
CEM	CEMENT, CEMENTITIOUS
CER	CERAMIC
CH BD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CSK	COUNTERSUNK
CSP	COMBINATION STANDPIPE
CSWK	CASEWORK
CT	CERAMIC TILE
CU	CUBIC
CW	COLD WATER

D

D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DEG	DEGREE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENSION POINT
DISP	DISPENSER
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAPERY TRACK
DWG	DRAWING
DWGS	DRAWINGS

E

(E)	EXISTING
EA	EACH
EDR	EQUIPMENT DRAWING
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPB	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATED
EXH	EXHAUST
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR

F

F/F	FACE TO FACE
FA	FIRE ALARM
FAS	FIRE ALARM STATION
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FF	FINISH FACE
FHC	FIRE HOSE CABINET
FH/FEC	FIRE HOSE / FIRE EXTINGUISHER CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHY	FIRE HYDRANT
FLAM	FLAMMABLE
FLASH	FLASHING
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FO	FACE OF
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FXTR	FIXTURE

G

G	GAS
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GR	GRADE OR GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER

I

ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IVT	INTRAVENOUS TRACK

J

JAN	JANITOR
JST	JOIST
JT	JOINT

K

KG	KILOGRAM
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE

L

L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LB	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LG	LENGTH
LIN	LINEAR
LL	LEAD LINED
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
LVR	LOUVER

M

M	METERS
MACH	MACHINE
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MVBL	MOVABLE
MULL	MULLION

N

(N)	NEW
NA	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOICE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST

O

OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD
OZ	OUNCE

P

PA	PUBLIC ADDRESS
PART	PARTIAL
PBD	PARTICLEBOARD
PBX	PRIVATE TELEPHONE EXCHANGE
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNL BD	PANEL BOARD
PNT	PAINT
PORT	PORTABLE
PP	PUSH PLATE
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREP	PREPARATION
PREFAB	PREFABRICATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R

R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION OR SEPARATE
SEP JT	SEPARATION JOINT
SHT	SHEET, SHEETING
SHWR	SHOWER
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SMS	SHEET METAL SCREW
SP	SPACE, SPACED, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING STEEL
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVCE	SERVICE
SW	SOUTHWEST
SYMM	SYMMETRICAL
SYST	SYSTEM

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CONCRETE, TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF
TOR	TOP OF RAILING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL

U

UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
UTIL	UTILITY

V

VAC	VACUUM
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VP	VENT PIPE
VOL	VOLUME
VWC	VINYL WALL COVERING

W

W	WEST
W/	WITH
W/O	WITHOUT
WW	WALL TO WALL
WC	WATER CLOSET OR WALL COVERING
WD	WOOD
WDW	WINDOW
WGL	WIRE GLASS
WCHR	WHEELCHAIR
WM	WIRE MESH
WO	WHERE OCCURS
WPT	WORKING POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WSP	WET STANDPIPE
WT	WEIGHT
WTHPRF	WEATHERPROOF
WTRPRF	WATERPROOF
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

X

XFMR	TRANSFORMER

Y

YD	YARD

ARCHITECTURAL FLOOR PLAN SYMBOLS

DIMENSION SYMBOLS

10' - 0" — DIMENSION SHOWN TO:
- STRUCTURAL GRID
- LAYOUT GRID
- CENTERLINE OF ASSEMBLY
- CENTER OF OPENING
- CENTER OF EQUIP/ FURN

GRID OR CENTER LINE TYPICAL

10' - 0" — DIMENSION SHOWN TO:
- PARTITION ASSEMBLY
- EDGE OF DOOR OPENING
- OTHER BUILDING ELEMENT
- WORKING POINT INDICATED ON DETAIL

GENERAL SYMBOLS

- BASE CABINETS
- BASE AND WALL CABINETS
- WALL CABINETS
- TOILET PARTITION AND DOOR
- HANDRAIL
- BUMPER GUARD
- CORNER GUARD (CG)
- EDGE GUARD (EG)
- OVERHEAD ITEMS
- UNDER-COUNTER ITEMS
- NOT-IN-CONTRACT ITEMS (N/C)

FIRE EXTINGUISHER SYMBOLS

- FIRE EXTINGUISHER BRACKET MOUNTED (FEXT)
- FIRE EXTINGUISHER SURFACE MOUNTED (FEC)
- FIRE EXTINGUISHER CABINET SEMI-RECESSED (FEC)
- FIRE EXTINGUISHER CABINET RECESSED (FEC)

PLUMBING SYMBOLS

- TOILET - WALL HUNG
- URINAL - FLOOR/WALL HUNG
- LAVATORY - COUNTERTOP
- LAVATORY - PEDESTAL/WALL HUNG
- UTILITY SINK
- DRINKING FOUNTAIN / EWC
- JANITOR'S RECEPTOR
- BATHTUB
- SHOWER
- FLOOR DRAIN IN SLOPING FLOOR (FD)

ARCHITECTURAL DEMOLITION SYMBOLS

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING LAY-IN CEILING TO REMAIN
- EXISTING LAY-IN CEILING TO BE REMOVED

DOOR AND INTERIOR OPENING SYMBOLS

- DOOR OPENING MARK (122)
- SINGLE OPENING DOOR
- DOUBLE ACTING DOOR
- PAIR DOORS - EQUAL SIZES
- PAIR DOORS - UNEQUAL SIZES
- PAIR DOORS - DOUBLE EGRESS
- 2 PANEL BI-FOLD DOOR
- PAIR - BI FOLD DOOR
- OVERHEAD ROLLING DOOR
- INTERIOR GLAZED WINDOW
- DOOR WITH SIDE LIGHT
- SLIDING DOOR - BETWEEN JAMBS
- SLIDING POCKET DOOR

ARCH REFLECTED CEILING PLAN SYMBOLS

ARCHITECTURAL

- 2'X4' LAY IN ACOUSTIC TILE CEILING
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- ACCESS PANEL (AP)

MECHANICAL

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CLG MOUNT
- SPRINKLER HEAD - WALL MOUNT

ELECTRICAL

- 2'X4' LIGHTING FIXTURE
- 2'X2' LIGHTING FIXTURE
- 1'X4' LIGHTING FIXTURE
- LIGHTING STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- TRACK LIGHTING
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- FIRE ALARM (F)
- SPEAKER (S)
- SMOKE DETECTOR (P)
- WIRELESS INTERNET (W)

MISCELLANEOUS

- +12'-8" — HEIGHT OF CEILING FINISH ABOVE FINISH FLOOR

ARCHITECTURAL REFERENCE SYMBOLS

BUILDING SECTION

SIM / A101 — WALL SECTION NUMBER; DIRECTION OF VIEW; SHEET WHERE DRAWN

WALL SECTION

SIM / A101 — WALL SECTION NUMBER; SHEET WHERE DRAWN; DIRECTION OF VIEW

EXTERIOR ELEVATION

AX.X.X / X — ELEVATION NUMBER AND DIRECTION; SHEET WHERE DRAWN

DETAIL REFERENCE

A101 / SIM — DETAIL NUMBER; SHEET WHERE DRAWN, HYPHEN INDICATES DETAIL ON SAME SHEET.

SECTION DETAIL REFERENCE

1 / A101 / SIM — ELEVATION NUMBER AND DIRECTION; SHEET WHERE DRAWN

INTERIOR ELEVATION REFERENCE

1 / 2 / A102 / 2 / 1 — ELEVATION NUMBER AND DIRECTION OF VIEW; SHEET WHERE DRAWN

ROOM NAME AND NUMBER

Room Name
101

WINDOW AND LOUVER TYPE MARK

- W-X — SEE CORRESPONDING NUMBER ON SCHEDULE
- M-X — SEE ASSEMBLY TYPE FOR DETAILS.

LEVEL LINE

SECOND LEVEL +10'-0" — NAME OF LEVEL; INDICATES HEIGHT ABOVE PROJECT DATUM

REVISION NUMBER AND EXTENT

1 — REVISION NUMBER - SEE REVISION HISTORY ON THE TITLE BLOCK OF EACH SHEET; EXTENT OF CURRENT REVISION

SHEET KEYNOTE MARK

A502 — SEE CORRESPONDING NUMBERED KEYNOTE ON SHEET WHERE REFERENCE OCCURS

REFERENCE KEYNOTE MARK

088000.A03 — EXAMPLE 1: THE CHARACTERS FOLLOWING THE PERIOD REPRESENT PARTICULAR ITEMS OF THE SPECIFIED SYSTEM

061600.5/8" PLYWOOD — EXAMPLE 2: THE TEXT IS THE PRODUCT DESCRIPTION

THE FIRST SIX DIGITS REPRESENT THE SPECIFICATION SECTION

MATCH LINE REFERENCES

MATCH LINE / SHEET A2.1.1 — REFER TO THE SHEET WHERE CONTINUATION IS FOUND

OR

SHEET A2.1.2 / SHEET A2.1.1 — REFER TO THE SHEETS EITHER SIDE OF THE MATCH LINE

DRAWING TITLE SYMBOLS

1 View Name — SCALE: 1/8" = 1'-0" — BASIC DRAWING TITLE

1 View Name — SCALE: 1/8" = 1'-0" — BASIC DRAWING TITLE WITH LINE

View Name — SCALE: 1/8" = 1'-0" — DRAWING TITLE WHEN ONLY ONE PLAN EXISTS ON THE DRAWING

LAYOUT GRID LINES

A / B / 1 — NEW GRID IDENTIFICATION; EXISTING GRID IDENTIFICATION; 90.000°

NORTH ARROW REFERENCES

NORTH OR PROJECT NORTH OR TRUE NORTH

ARCHITECTURAL MATERIAL INDICATIONS

PLAN AND SECTION

- EARTH
- AGGREGATE BASE COURSE
- CONCRETE
- CONCRETE MASONRY UNIT
- BRICK MASONRY
- PRECAST CONCRETE
- LIMESTONE, SANDSTONE, GRANITE
- MARBLE
- STEEL, STAINLESS STEEL (LARGE SCALE)
- ALUMINUM (LARGE SCALE)
- OTHER METALS (LARGE SCALE)
- WOOD FRAMING - CONTINUOUS (LARGE SCALE)
- WOOD FRAMING - DISCONTINUOUS (LARGE SCALE)
- PLYWOOD (LARGE SCALE)
- FINISH WOOD (LARGE SCALE)
- EIFS INSULATION BOARD (LARGE SCALE)
- SEMI-RIGID INSULATION (LARGE SCALE)
- BATT INSULATION (LARGE SCALE)
- MORTAR, SAND, FIREPROOFING, STUCCO, GYPSUM BOARD
- TERRAZZO (LARGE SCALE)
- COMPOSITE BOARD (LARGE SCALE)
- ACOUSTIC TILE (LARGE SCALE)
- PROTECTION BOARD (LARGE SCALE)
- CERAMIC TILE (LARGE SCALE)
- GLASS (LARGE SCALE)

ELEVATION

- PLASTER CONCRETE
- MASONRY, METAL SIDING (HORIZONTAL)
- GLASS BLOCK, CERAMIC TILE
- METAL SIDING (VERTICAL)
- GLASS

ARCHITECTURAL GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL ARCHITECTURAL SERIES SHEETS. FOR GENERAL NOTES APPLICABLE TO ALL SHEETS REFER TO THE "PROJECT GENERAL NOTES":

1. THE ARCHITECTURAL SERIES SHEETS ARE PART OF A COMPLETE SET OF CONSTRUCTION DOCUMENTS DESCRIBING THE WORK FOR THIS PROJECT. USERS OF THESE DOCUMENTS ARE RESPONSIBLE TO REVIEW ALL CONSTRUCTION DOCUMENTS TO UNDERSTAND AND COORDINATE THE GRAPHIC AND ANNOTATED INFORMATION PROVIDED IN THESE ARCHITECTURAL SERIES SHEETS.
2. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATIONS SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS.
3. ALL VISUALLY EXPOSED STRUCTURAL, MECHANICAL AND ELECTRICAL ELEMENTS, INCLUDING EXPOSED METAL FLOOR AND ROOF DECK, ARE TO BE PAINTED UNLESS OTHERWISE NOTED. THIS INCLUDES ELEMENTS THAT MAY BE VISIBLE THROUGH GRILLES, LOUVERS OR CEILINGS. COLORS AND PAINT MATERIALS ARE DEFINED IN THE FINISH SCHEDULE, THE SPECIFICATIONS, AND THE DRAWINGS AS APPLICABLE TO THE CONSTRUCTION DOCUMENTS.

REFERENCE ELEVATION DEFINITIONS

1. THE TERM "REFERENCE" ELEVATION OR DIMENSIONS REFERS TO A NOMINAL WORK POINT. THE ACTUAL ELEVATION MAY VARY FROM THE REFERENCE POINT. REFER TO APPLICABLE DETAIL TO DETERMINE THE RELATIONSHIP BETWEEN THE ACTUAL ELEVATION OR DIMENSION AND THE STATED REFERENCE POINT."
2. THE DESIGN REFERENCE ELEVATION +0'-0" SHOWN ON THE ARCHITECTURAL DRAWINGS CORRESPONDS TO THE FINISH FLOOR ELEVATION OF THE GROUND FLOOR. ESTABLISH THE ACTUAL ELEVATION WITH RESPECT TO SITE-SPECIFIC BENCHMARKS AND CONTROL POINTS AS DEFINED IN THE CIVIL DRAWINGS.
3. "FINISH FLOOR" ELEVATIONS ARE MEASURED AT THE TOP OF THE CONCRETE FLOOR SLAB UNLESS OTHERWISE NOTED. APPLIED FINISHES SUCH AS RESILIENT FLOORING OR CARPET MAY RAISE THE ACTUAL FINISH SURFACE ABOVE THE REFERENCE ELEVATION PROVIDED FOR THE FINISH FLOOR.
4. WHERE CONCRETE FLOOR SLAB IS DEPRESSED TO ACCOMMODATE MORTAR BEDS, SETTING BEDS, RAISED ACCESS FLOORS, AND OTHER SIMILAR FLOOR ASSEMBLIES, "FINISHED FLOOR" ELEVATIONS ARE MEASURED AS IF CONCRETE DEPRESSION DOES NOT OCCUR.
5. CEILING HEIGHT ELEVATIONS ARE MEASURED TO BOTTOM OF FINISH SURFACES AND STATED IN RELATION TO DISTANCE ABOVE THE REFERENCE ELEVATION FOR THE FINISH FLOOR UNLESS OTHERWISE NOTED.
6. ROOF ELEVATIONS ARE MEASURED TO TOP OF SURFACES AND STATED IN RELATION TO DISTANCE ABOVE THE REFERENCE ELEVATION PROVIDED FOR THE UPPERMOST FINISH FLOOR UNLESS OTHERWISE NOTED. ELEVATIONS GIVEN ARE TO TOP OF STEEL (TOS), TOP OF DECK (TOD), OR TOP OF TAPERED INSULATION (TOT) UNLESS OTHERWISE NOTED.

ARCHITECTURAL ASSEMBLY SYSTEM TAGS

TYPICAL ARCHITECTURAL ASSEMBLY IDENTIFICATION MARK

A000X — PLAN; A000X — SECTION

FOR THE ASSEMBLY TYPES LISTED, SEE THE FOLLOWING SHEETS FOR SYSTEM DETAILS AND DESCRIPTIONS:

TYPE **A** = EXTERIOR WALLS - ABOVE GRADE - SHEET A5.0.X
TYPE **B** = EXTERIOR WALLS - VERTICAL BELOW GRADE - SHEET A5.0.X
TYPE **H** = FOUNDATION SLAB SYSTEMS - HORIZONTAL BELOW GRADE - SHEET A5.0.X
TYPE **R** = ROOFING SYSTEMS - SHEET A5.0.X
TYPE **S** = EXTERIOR SOFFITS - SHEET A5.0.X

TYPE **X** = EXTERIOR FENESTRATION SYSTEMS - SHEET A5.4.X

TYPE **P** = INTERIOR WALL PARTITIONS - SHEET A9.2.X

TYPE **Y** = INTERIOR FENESTRATION SYSTEMS - SHEET A9.3.X

A000X
- **ASSEMBLY TYPE**
- **ASSEMBLY NAME** REPRESENTING: -MAJOR GROUP -FINISH SYSTEM -SUBSTRATE CONFIGURATION
- **ASSEMBLY VARIABLE** (NOT ALWAYS PRESENT)

ASSEMBLY TAG DESIGNATION

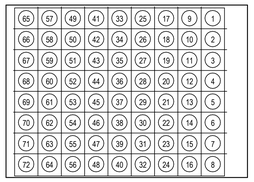
FIRE RESISTIVE RATING INDICATION

- 0 HOUR SMOKE PARTITION
- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- 3 HOUR FIRE RESISTANCE RATING
- 4 HOUR FIRE RESISTANCE RATING

ARCHITECTURAL SYMBOL NOTES

1. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS WHICH MAY TYPICALLY OCCUR ON THE ARCHITECTURAL DRAWINGS.
2. ADDITIONAL SYMBOLS NOT SHOWN OR DEFINED ON THIS SHEET MAY BE USED ON THE ARCHITECTURAL DRAWINGS AND ARE TYPICALLY DEFINED ON OTHER SHEETS.
3. SYMBOLS ARE NOT DRAWN TO SCALE. TO DETERMINE THE ACTUAL SIZES OF ELEMENTS REPRESENTED BY SYMBOLS, REFER TO THE SPECIFICATIONS AND OTHER SHEETS, AS MAY APPLY.

MODULAR LAYOUT / DETAIL NUMBER

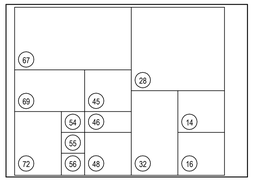


DETAIL MODULE LAYOUT

DETAILS ARE NUMBERED ACCORDING TO THEIR LOCATION ON EACH SHEET AND ARE NOT NUMBERED CONSECUTIVELY. EACH MODULE MAINTAINS THE NUMBER ASSOCIATED WITH IT

THIS SYSTEM CAN BE APPLIED TO ANY SHEET THAT CONTAINS MULTIPLE IMAGES. THE IMAGES ARE NUMBERED ACCORDING TO THE MODULE SYSTEM SHOWN ILLUSTRATED TO THE LEFT

EACH DETAIL MAY OCCUPY ONE OR MORE WHOLE MODULES. THE DETAIL MODULE IS USED TO ESTABLISH THE IDENTIFYING LABEL FOR EACH DETAIL, NOT TO LIMIT THE SIZE OF THE DETAIL



DETAIL NUMBERING EXAMPLE

THE NUMBER OF THE MODULE WHICH OCCURS IN THE LOWER LEFT CORNER OF A SINGLE MODULE OR SEVERAL MODULES GROUPED TOGETHER WILL DEFINE THE FINAL DETAIL NUMBER AS SHOWN IN THE ILLUSTRATION TO THE LEFT. ALTHOUGH THE MODULE NUMBERS OCCUR IN CONSECUTIVE ORDER, NOT ALL NUMBERS ARE NECESSARILY USED ON EACH SHEET

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP

301 BATTERY STREET
7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

TRUE NORTH PROJECT NORTH

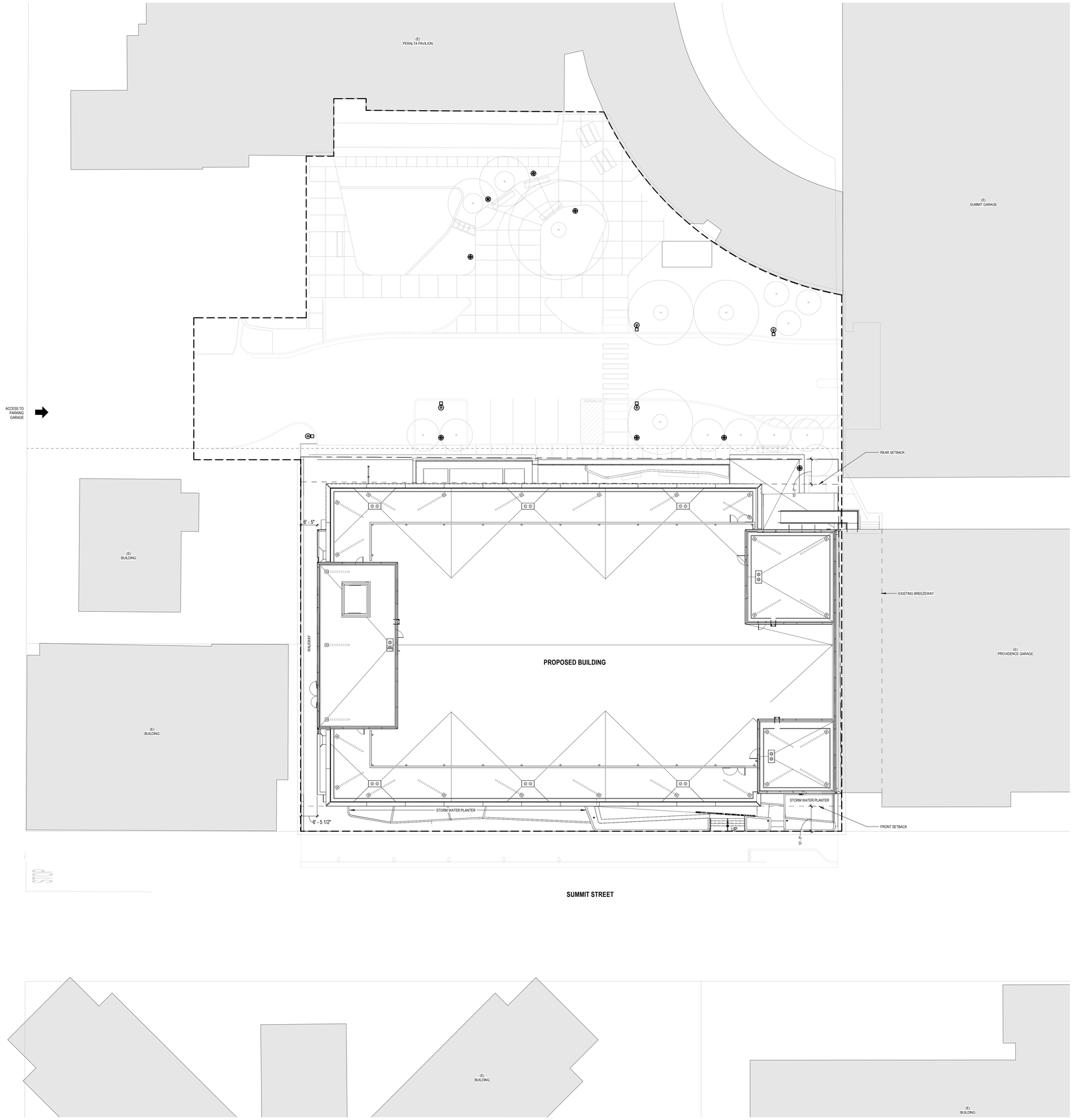
SHEET TITLE

ARCHITECTURAL ABBREVIATIONS AND SYMBOLS

13718.000
PROJECT NUMBER

A0.1
SHEET NUMBER

Plot Date: 12/8/2022 9:01:34 AM _BADR



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

Plot Date: 12/8/2022 2:03:00 PM BADR

GRAPHIC LEGEND

NOT IN SCOPE, REFER TO INC 1

EXISTING BUILDING

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. GENERAL CONTRACTOR AND SUB CONTRACTOR SHALL VERIFY ALL EXISTING SITE, ABOVE GROUND AND UNDERGROUND UTILITY CONDITIONS IN THE FIELD.

E. ALL EXTERIOR DOOR LANDINGS SHALL NOT EXCEED 1/4"/FT (2% SLOPE) IN ANY DIRECITON.

REFERENCE KEYNOTES

SHEET KEYNOTES

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

3023 SUMMIT STREET
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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

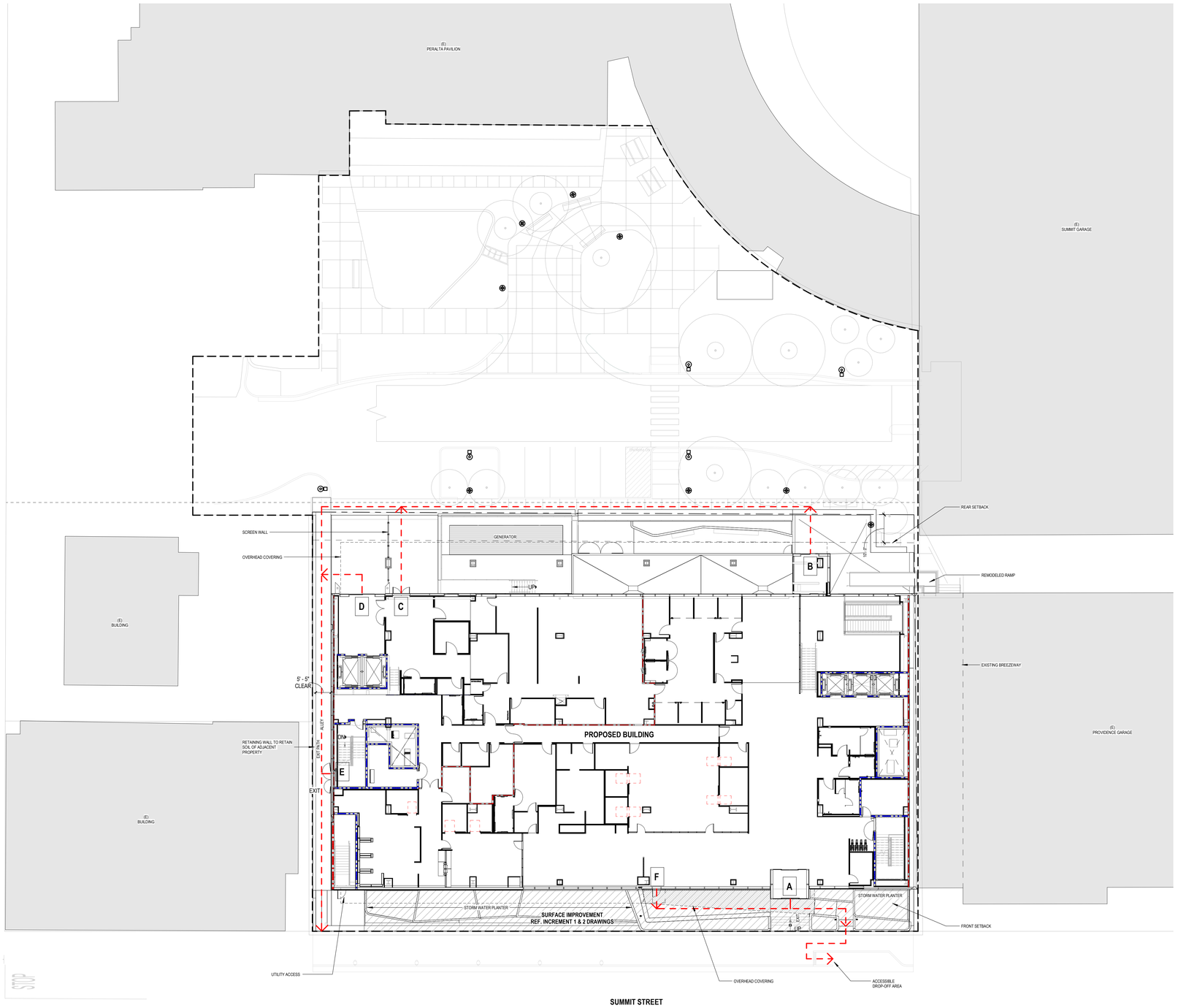
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

SITE PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A1.3.1**



1 SITE ACCESSIBILITY PLAN
SCALE: 1/16" = 1'-0"

GRAPHIC LEGEND

- NOT IN SCOPE, REFER TO INC 1
- EXISTING BUILDING
- PATH OF TRAVEL

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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E. ALL EXTERIOR DOOR LANDINGS SHALL NOT EXCEED 1/4"/FT (2% SLOPE) IN ANY DIRECITON.

F. ALL INTERIOR STAIRS WILL BE PERMITTED SEPARATELY. INTERIOR STAIRS ARE SHOWN HERE FOR REFERENCE ONLY.

PATH OF TRAVEL NOTES

A	SUMMIT STREET MAIN ENTRANCE
B	PERALTA BUILDING ENTRANCE
C	BACK OF HOUSE ENTRANCE
D	AMBULANCE DROPOFF AND STAFF ENTRANCE
E	STAIR EXIT
F	WAITING AREA EXIT

ALL PEDESTRIAN ROUTES TO COMPLY WITH THE FOLLOWING:
- AT LEAST 48" IN WIDTH, OR AS APPROVED BY CODE.
- WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4".
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE.
- WALKS WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED AS A RAMP, AND A CROSS SLOPE OF 1:48 (1/4"/FT.) OR LESS.
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SRFACES; AND
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.

SHEET KEYNOTES

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

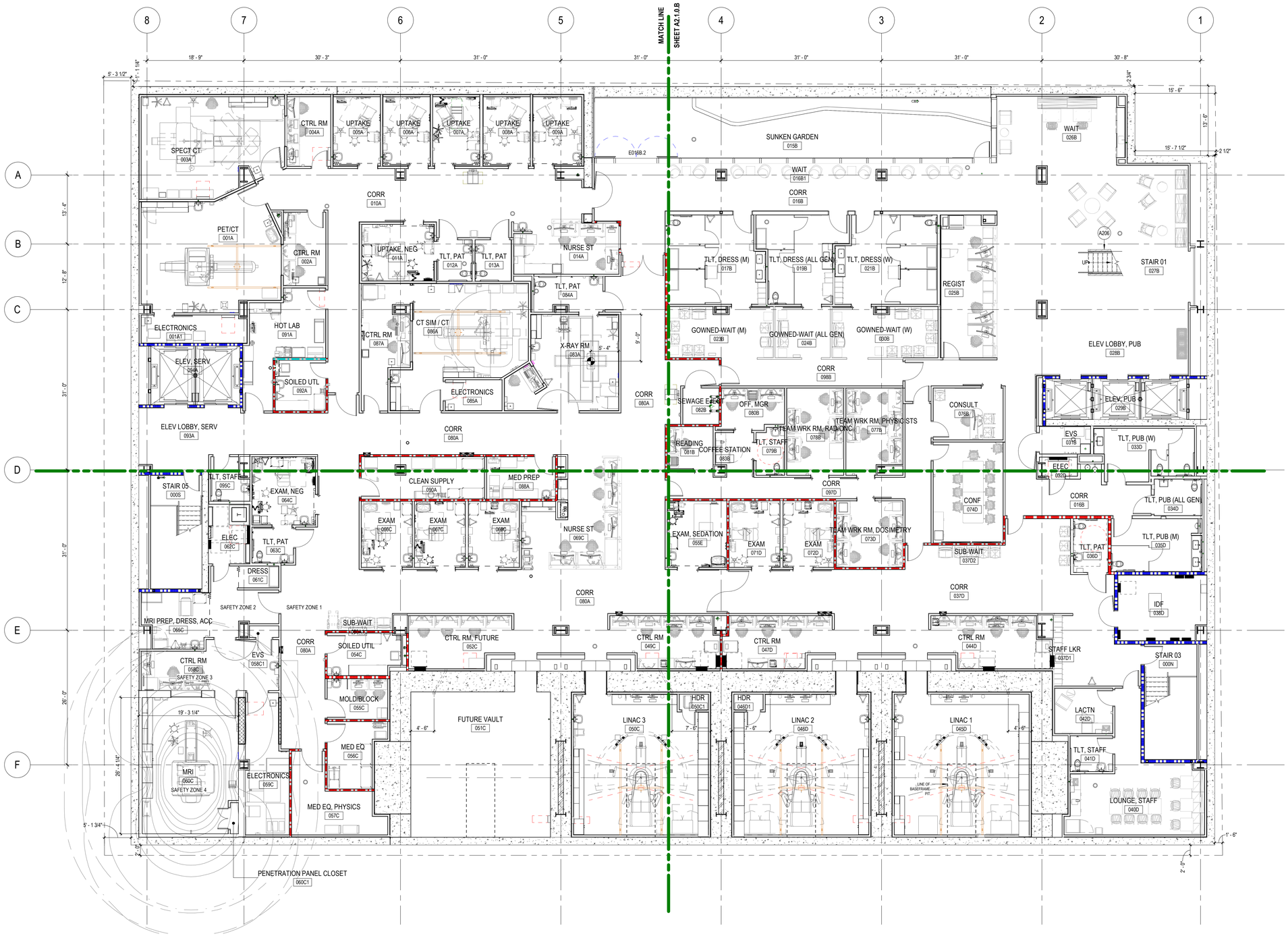
AREA A	AREA B
AREA C	AREA D

SHEET TITLE
SITE ACCESSIBILTY PLAN

PROJECT NUMBER
13718.000

SHEET NUMBER
A1.3.3

Plot Date: 12/8/2022 2:07:40 PM _BADR



1 LOWER LEVEL - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:02:21 AM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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REFERENCE KEYNOTES

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

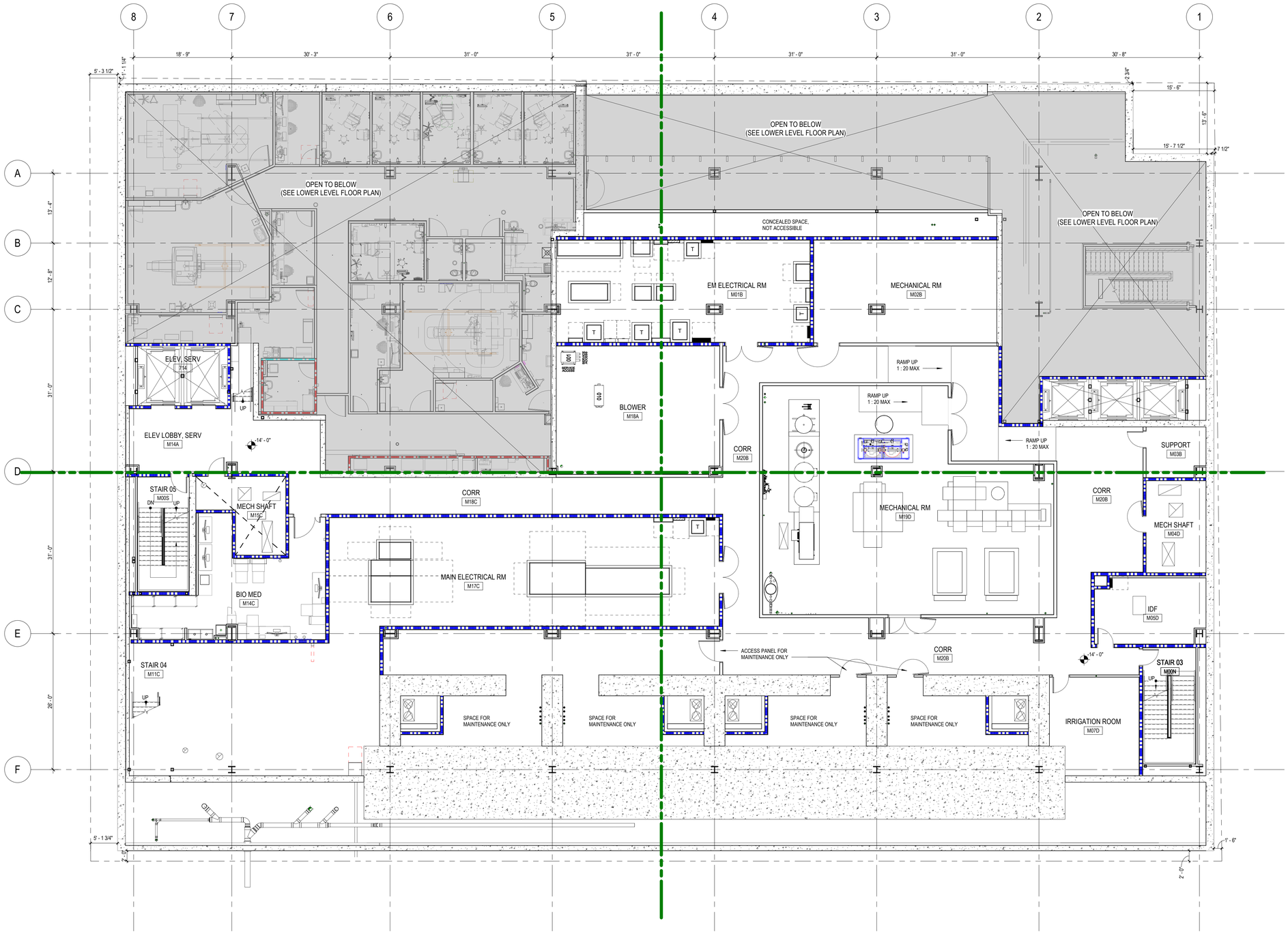
TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE
LOWER LEVEL FLOOR PLAN

13718.000
PROJECT NUMBER

A2.1.0
SHEET NUMBER



1 MECHANICAL - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:02:31 AM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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REFERENCE KEYNOTES

SHEET KEYNOTES

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Sutter Health

CANCER COLLABORATIVE

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

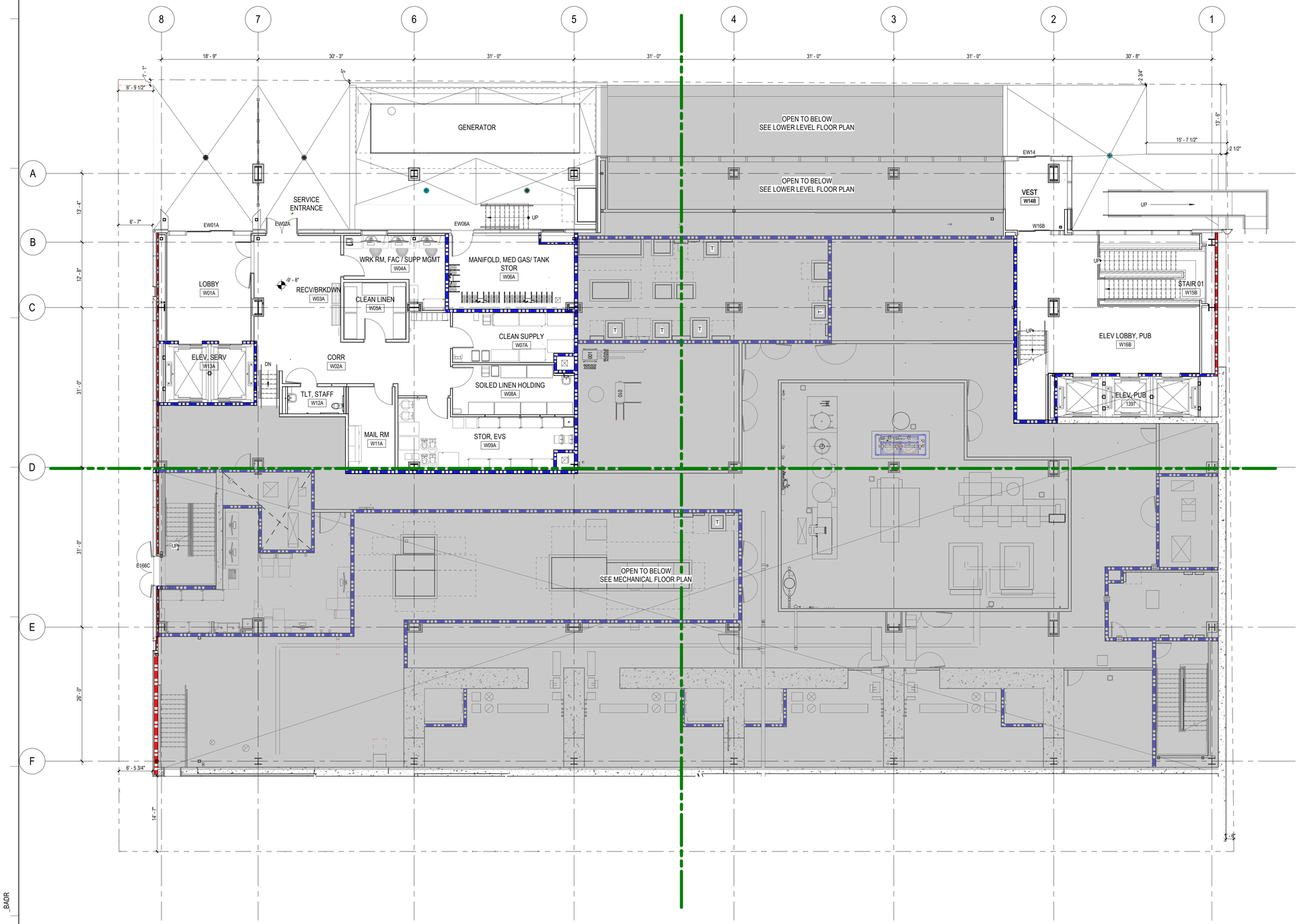
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

MECHANICAL LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.0M**



1 LEVEL 1 WEST ENTRANCE - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:02:39 AM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

SHEET KEYNOTES

Stanford MEDICINE

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

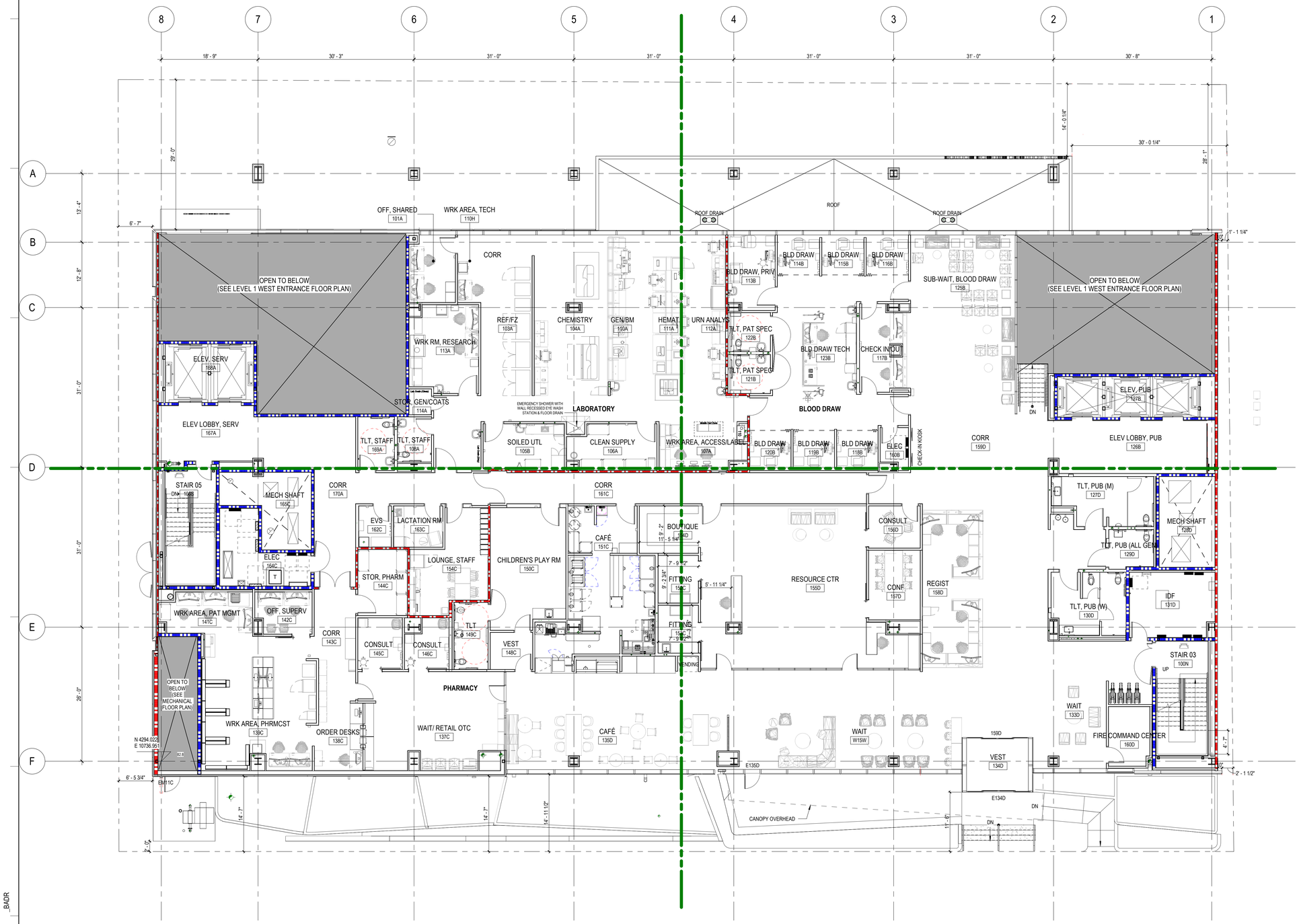
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

FIRST LEVEL WEST ENTRANCE FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.0W**



1 LEVEL 1 - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:02:54 AM

BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

SHEET KEYNOTES

Stanford MEDICINE

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

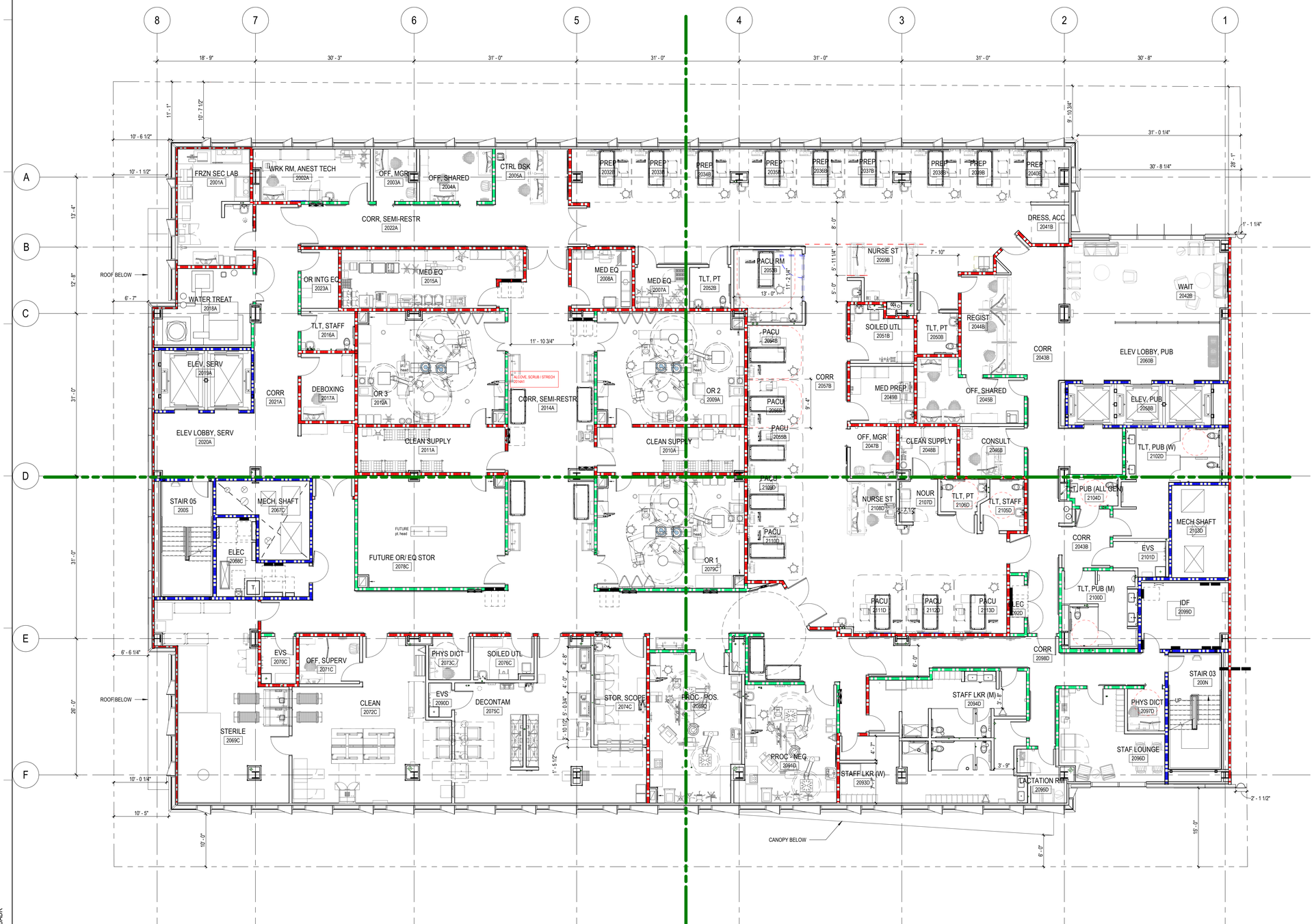
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

FIRST LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.1**



GRAPHIC LEGEND

GENERAL SHEET NOTES

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

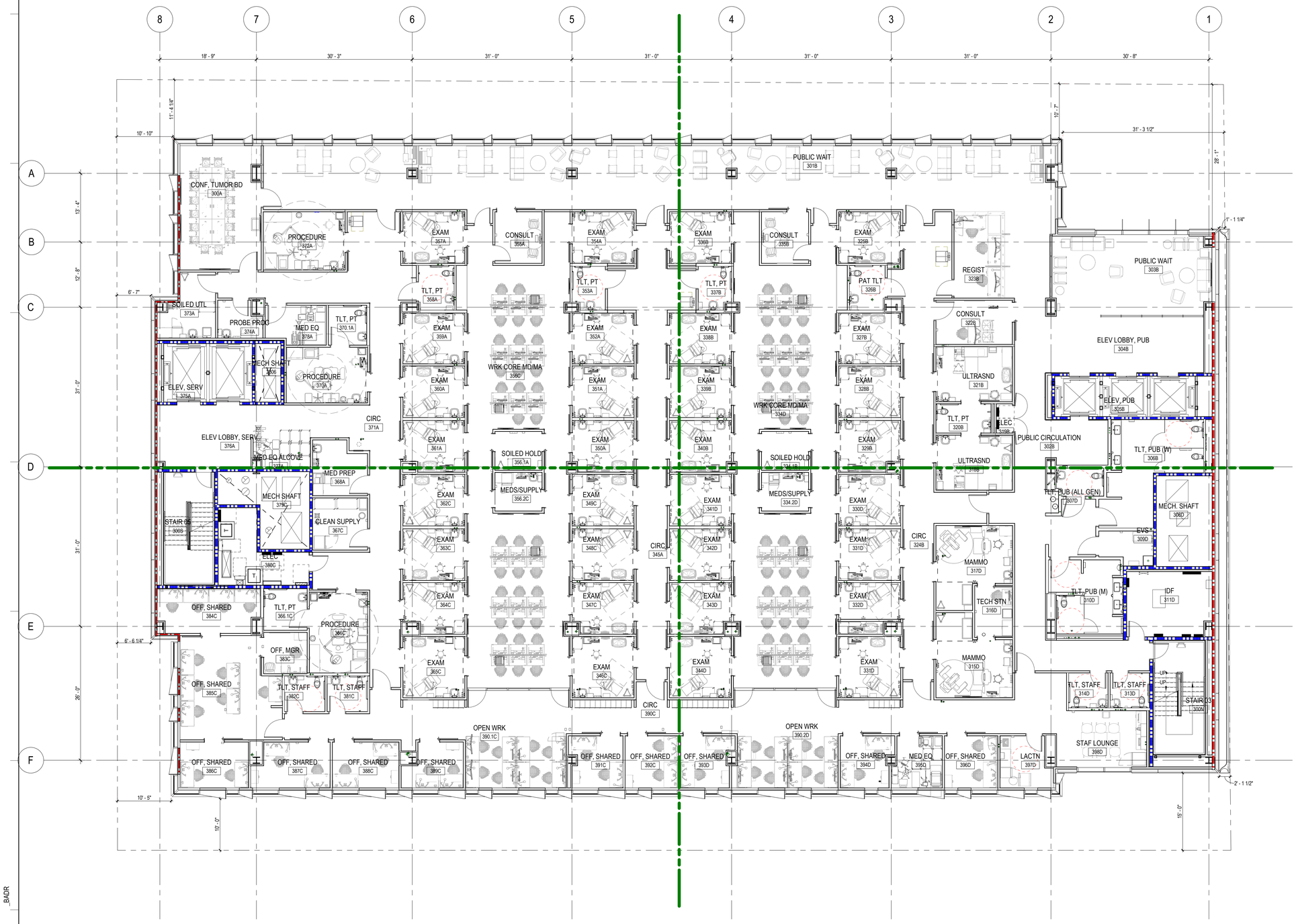
SECOND LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.2**

Plot Date: 12/8/2022 9:04:32 AM BADR

1 LEVEL 2 - FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 LEVEL 3 - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:05:30 AM _BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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REFERENCE KEYNOTES

SHEET KEYNOTES

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

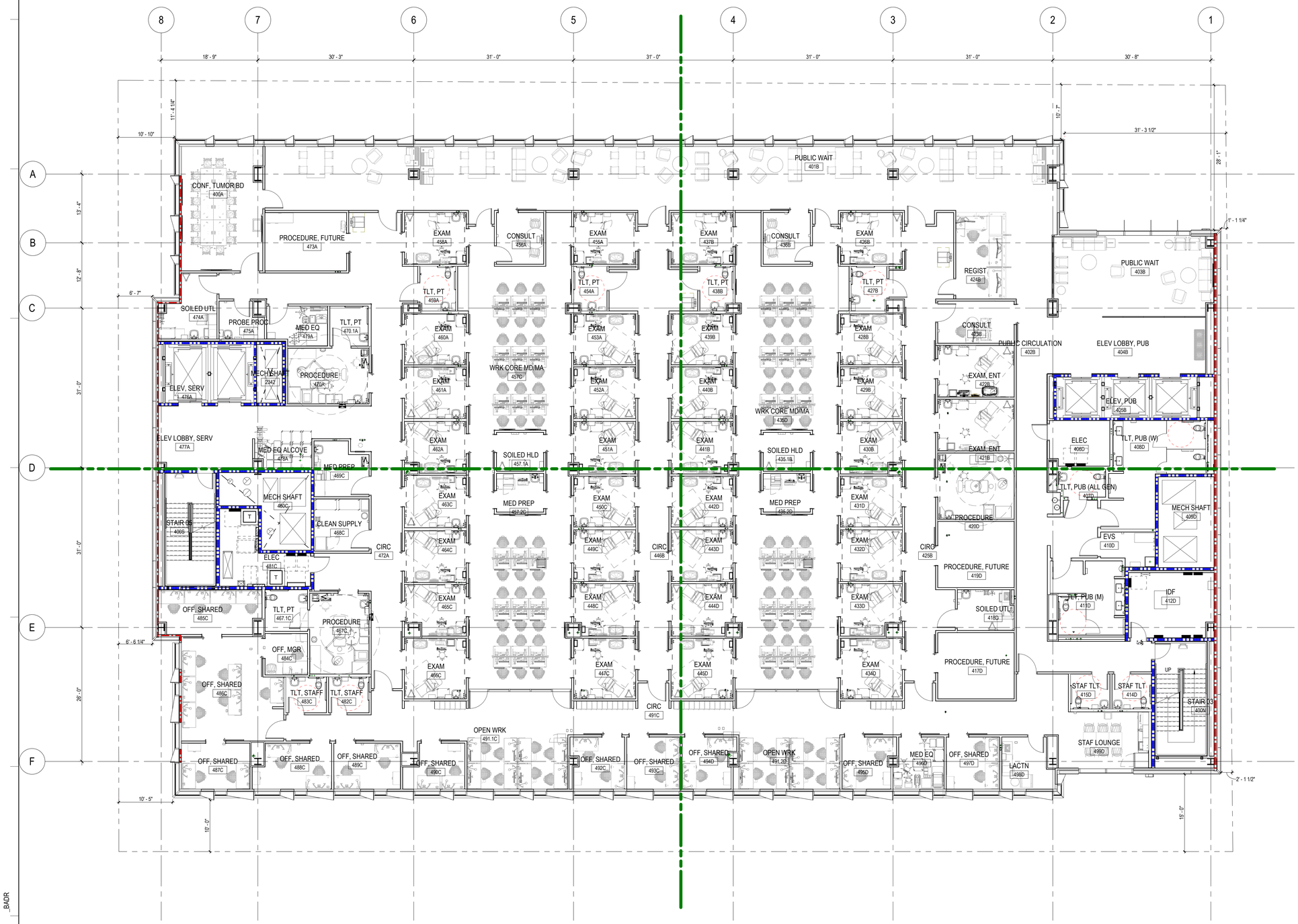
TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE
THIRD LEVEL FLOOR PLAN

PROJECT NUMBER
13718.000

SHEET NUMBER
A2.1.3



1 LEVEL 4 - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:06:24 AM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

SHEET KEYNOTES

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Sutter Health

CANCER COLLABORATIVE

Stanford Medicine
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Cancer Center

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

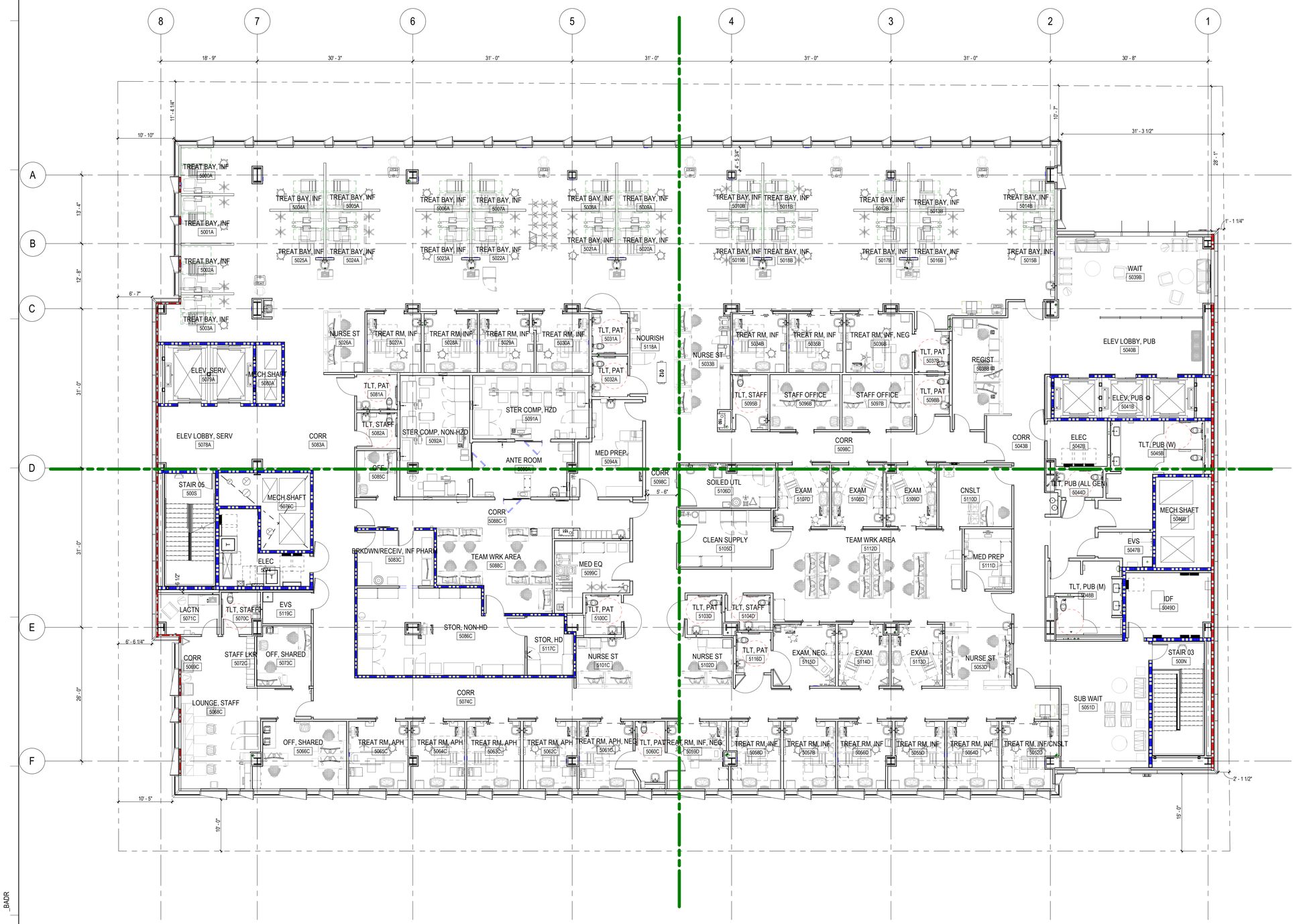
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

FOURTH LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.4**



1 LEVEL 5 - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:06:55 AM _BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

SHEET KEYNOTES

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

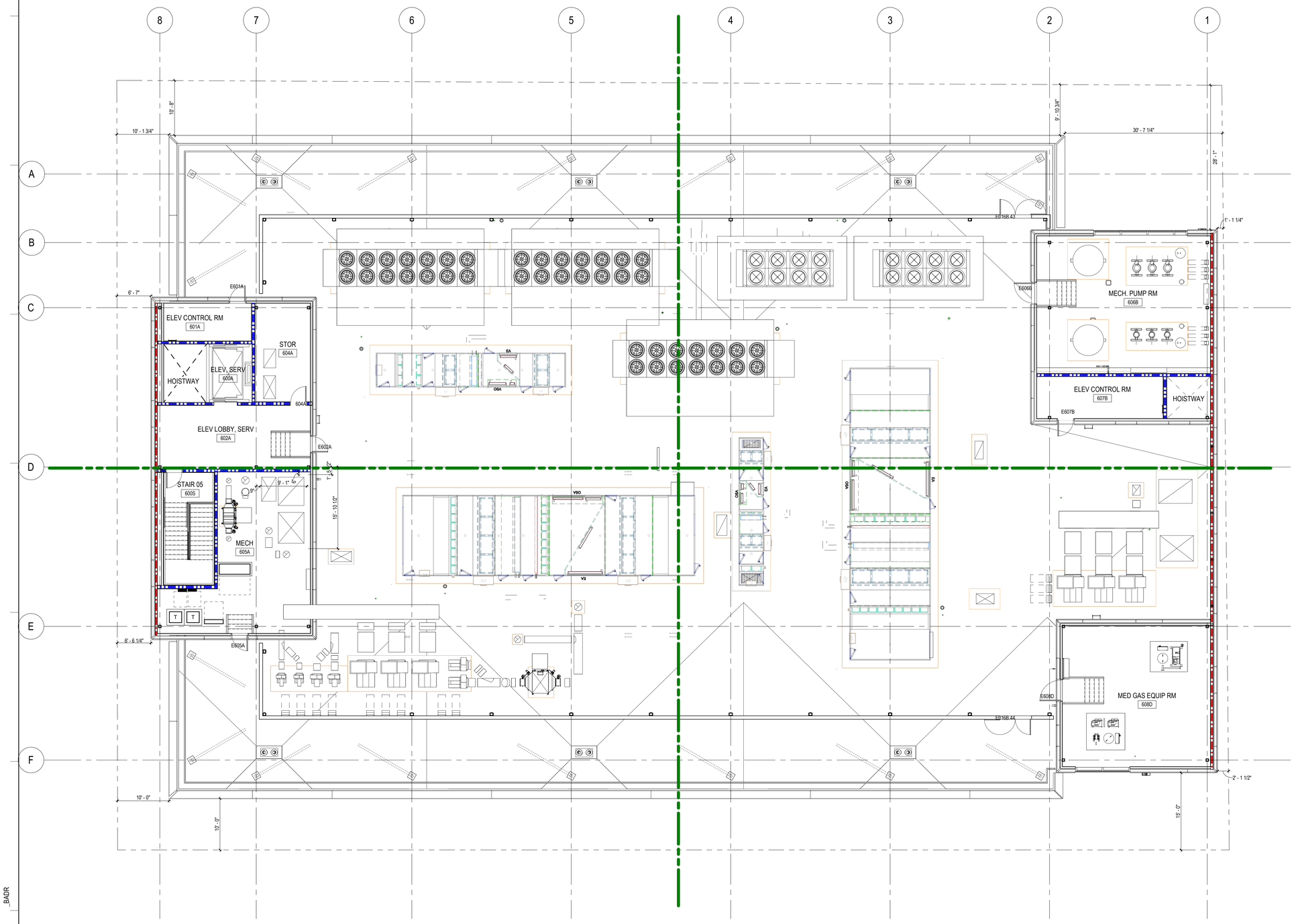
TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE
FIFTH LEVEL FLOOR PLAN

13718.000
PROJECT NUMBER

A2.1.5
SHEET NUMBER



1 ROOF - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:07:08 AM

BADR

GENERAL SHEET NOTES

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D. REFER TO THE A4.3.X SERIES SHEETS FOR ENLARGED EXTERIOR ELEVATIONS.

E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

SHEET KEYNOTES

GRAPHIC LEGEND

FOR PARTITIONS, REFER TO SHEET A9.2.1 & A9.2.2 FOR ADDITIONAL INFORMATION

- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD ONE SIDE, (1) LAYER SPECIALTY GYP BD ON OPPOSITE SIDE, WITH 1/4" LEAD ON 3/4" PLYWOOD EXTEND TO DECK
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD EACH SIDE, WITH 1/8" LEAD ON 3/4" PLYWOOD 7' AFF
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD ONE SIDE, (1) LAYER SPECIALTY GYP BD ON OPPOSITE SIDE, WITH 1/4" LEAD ON 3/4" PLYWOOD 7' AFF
- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD EACH SIDE, WITH 1/8" LEAD ON 3/4" PLYWOOD EXTEND TO DECK
- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD ONE SIDE, (1) LAYER SPECIALTY GYP BD ON OPPOSITE SIDE, WITH 1/8" LEAD ON 3/4" PLYWOOD EXTEND TO DECK
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD ONE SIDE, 1/16" LEAD-LINED GYP BD ON OPPOSITE SIDE
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER GYP BD EACH SIDE
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD ONE SIDE, (1) LAYER SPECIALTY GYP BD ON OPPOSITE SIDE
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER SPECIALTY GYP BD EACH SIDE
- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER SPECIALTY GYP BD EACH SIDE
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER GYP BD EACH SIDE
- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER GYP BD EACH SIDE
- FULL HEIGHT INSULATED STUD (1) LAYER STANDARD GYP BD ONE SIDE, (1) LAYER SPECIALTY GYP BD ON OPPOSITE SIDE
- PARTIAL HEIGHT (TO STOP 6" ABOVE CEILING) INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD
- FULL HEIGHT INSULATED STUD ASSEMBLY WITH (1) LAYER STANDARD GYP BD
- FULL HEIGHT 1-HR RATED STUD ASSEMBLY WITH (1) LAYER TYPE X GYP BD ONE SIDE, 1/16" LEAD-LINED TYPE X GYP BD ON OPPOSITE SIDE
- 1 HOUR FIRE RESISTANCE RATING
- 1 HOUR FIRE PARTITION
- 2 HOUR FIRE RESISTANCE RATING
- CONCRETE, S.S.D.
- MRI RF SHIELDING WALL. REFER TO 4 / A9.2.2

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

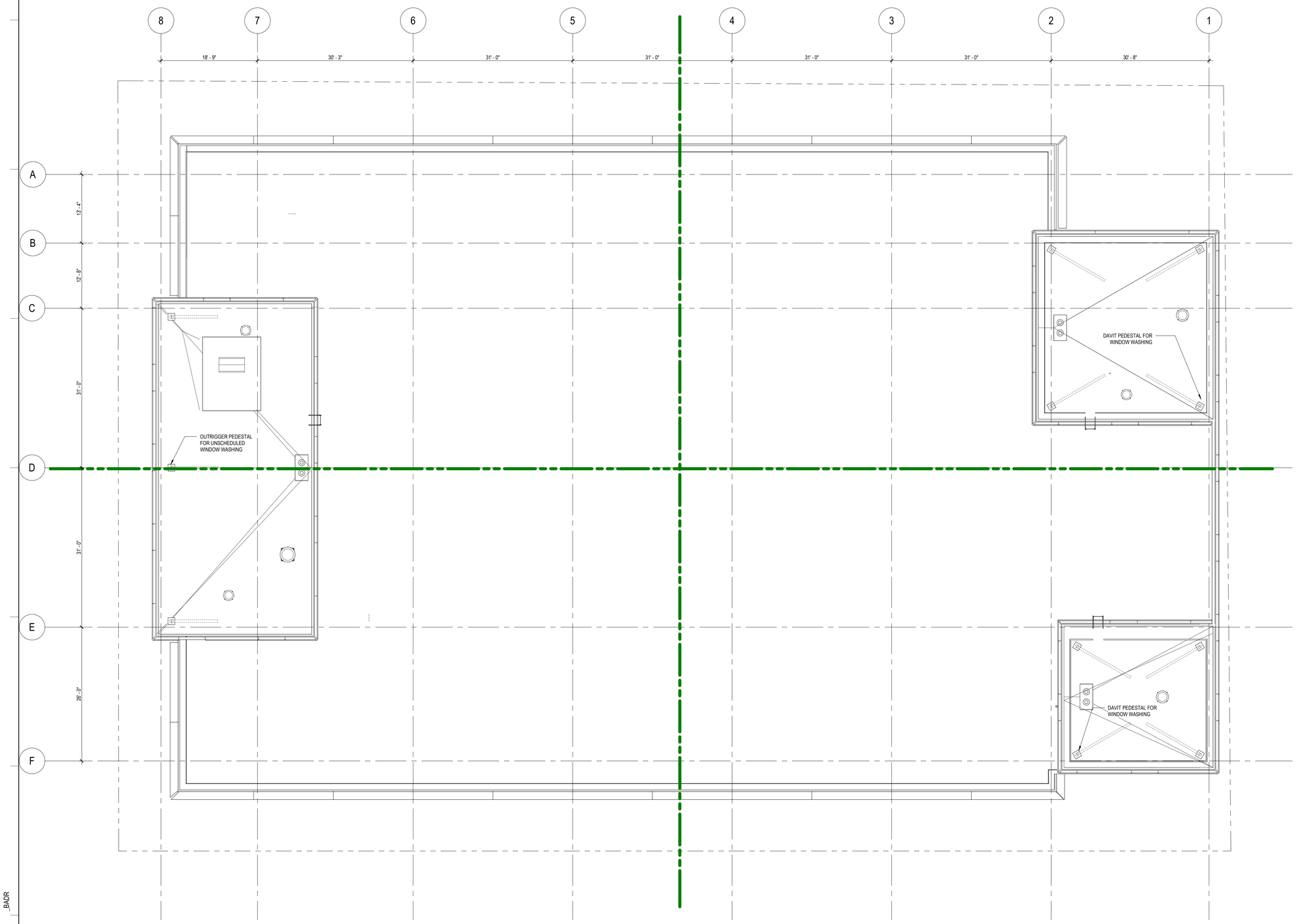
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

ROOF LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.6**



1 PENTHOUSE - FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Date: 12/8/2022 9:07:16 AM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. GENERAL CONTRACTOR AND SUB CONTRACTOR SHALL VERIFY ALL EXISTING SITE, ABOVE GROUND AND UNDERGROUND UTILITY CONDITIONS IN THE FIELD.

E. ALL EXTERIOR DOOR LANDINGS SHALL NOT EXCEED 1/4"/FT (2% SLOPE) IN ANY DIRECITON.

REFERENCE KEYNOTES

SHEET KEYNOTES

Stanford MEDICINE

Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center
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SEALS AND SIGNATURES

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KEYPLAN

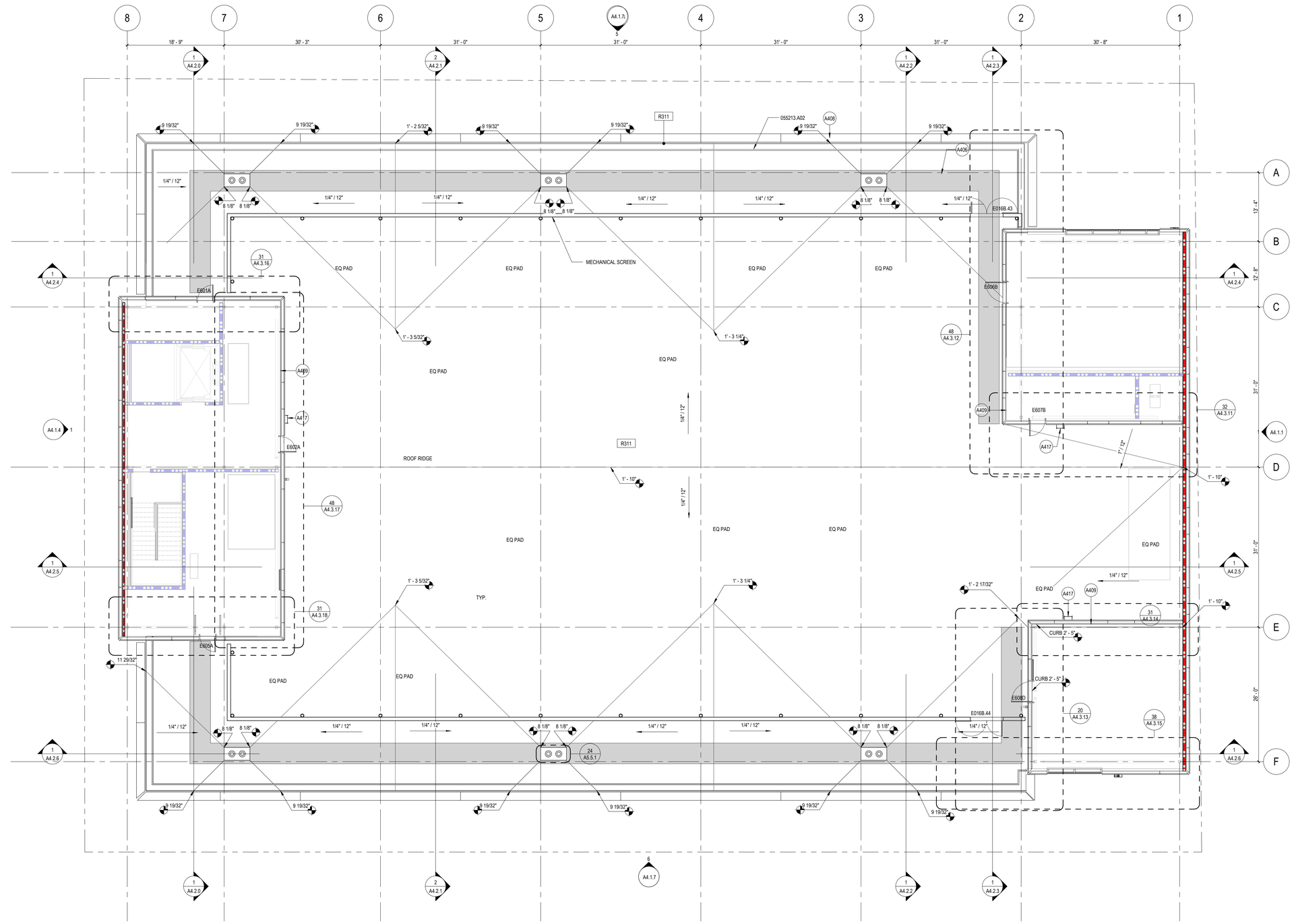
TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE
PENTHOUSE LEVEL FLOOR PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A2.1.7**



1 ROOF ENVELOPE PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. REFER TO THE A4.3.X SERIES SHEETS FOR ENLARGED EXTERIOR ELEVATIONS.

E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

055213.A02 PIPE RAILING

SHEET KEYNOTES

A406	ROOF TRAFFIC PAVERS (STEPSTONE ROOFTRAC 12"X48"X2.5")
A408	METAL PLATE COPING - FINISH #1 (REF. DETAIL)
A409	PROVIDE 8" WIDE CONCRETE CURB 2'-5" TALL AROUND THE PENTHOUSES (ON THE SIDES FACING THE ROOF)
A410	PROVIDE HOUSEKEEPING PAD BELOW ALL MEP EQUIPMENT. AT OUTDOOR SPACES/ ROOF: 12" TALLER THAN HIGHEST ADJACENT ROOFING ELEVATION. AT INDOOR SPACES, 6" ABOVE FINISH FLOOR. REFER TO PLANS AND TYP. DETAILS FOR PADS FOOTPRINT
A416	PROVIDE PVC CROSSGRIP TRAFFIC WALKWAY MAT WITHIN ROOF SCREEN PERIMETER, AROUND MEP EQUIPMENT HOUSEKEEPING PADS AND CONNECT THEM TO THE ROOF ACCESS DOOR
A417	GALVANIZED STEEL LADDER
A418	USE PMMA WATERPROOFING SYSTEM ON ALL MEP HOUSEKEEPING PADS AND PADS. REFER TO ROOFING DETAILS IN A5-SERIES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

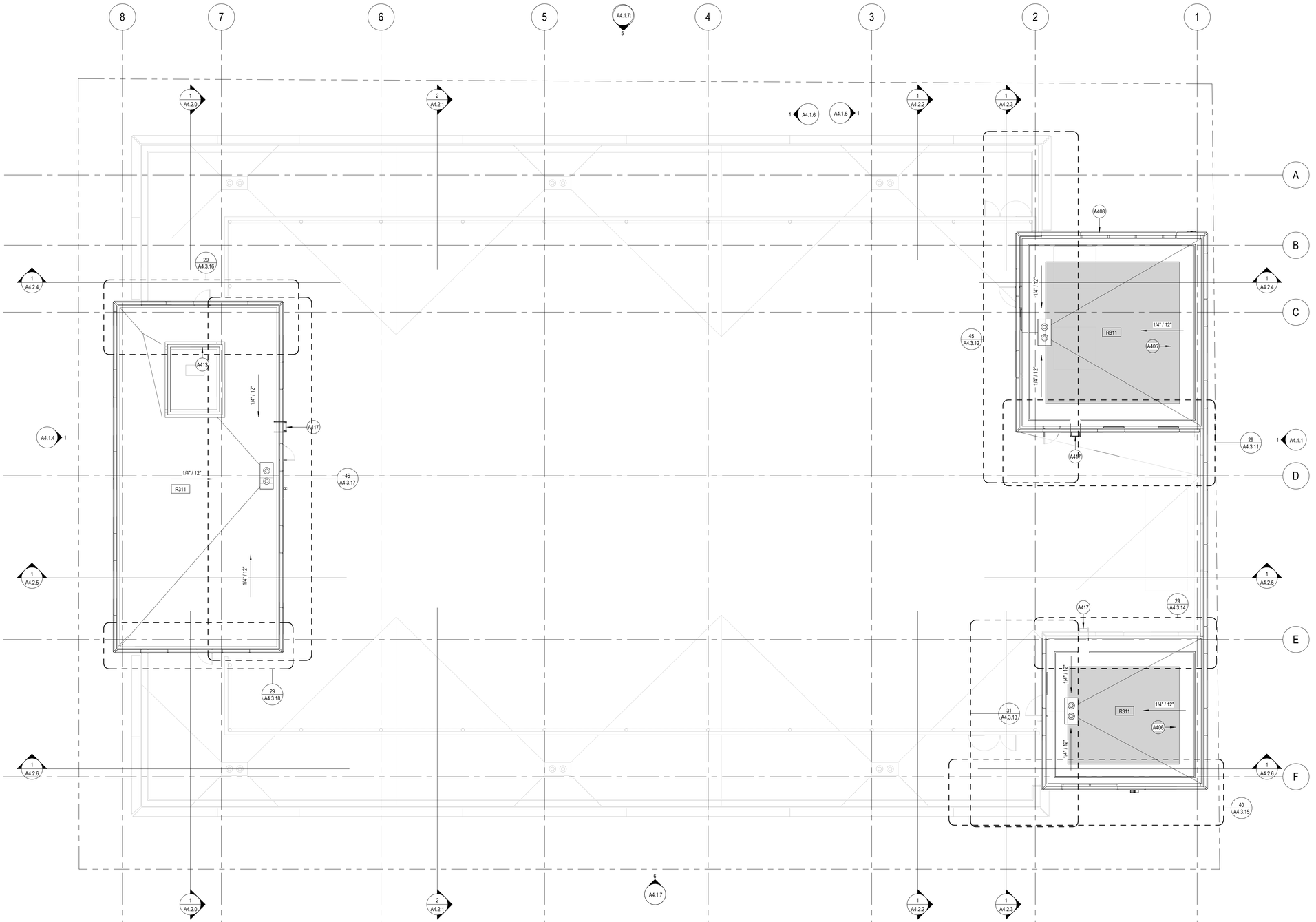
SHEET TITLE

ROOF ENVELOPE PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.0.6**

Plot Date: 12/8/2022 9:07:23 AM BADR



1 PENTHOUSE ENVELOPE PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- CONCRETE
- INSULATION
- ONE HOUR RATED ASSEMBLY
- TWO HOUR RATED ASSEMBLY

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. REFER TO THE A4.3.X SERIES SHEETS FOR ENLARGED EXTERIOR ELEVATIONS.

E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

SHEET KEYNOTES

A406	ROOF TRAFFIC PAVERS (STEPSTONE ROOFTRAC 12"X48"X2.5")
A408	METAL PLATE COPING - FINISH #1 (REF. DETAIL)
A413	PVC WATERPROOFING MEMBRANE SYSTEM AT ROOF AND WALLS OF ELEVATOR OVERRUN DOGHOUSE
A417	GALVANIZED STEEL LADDER

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

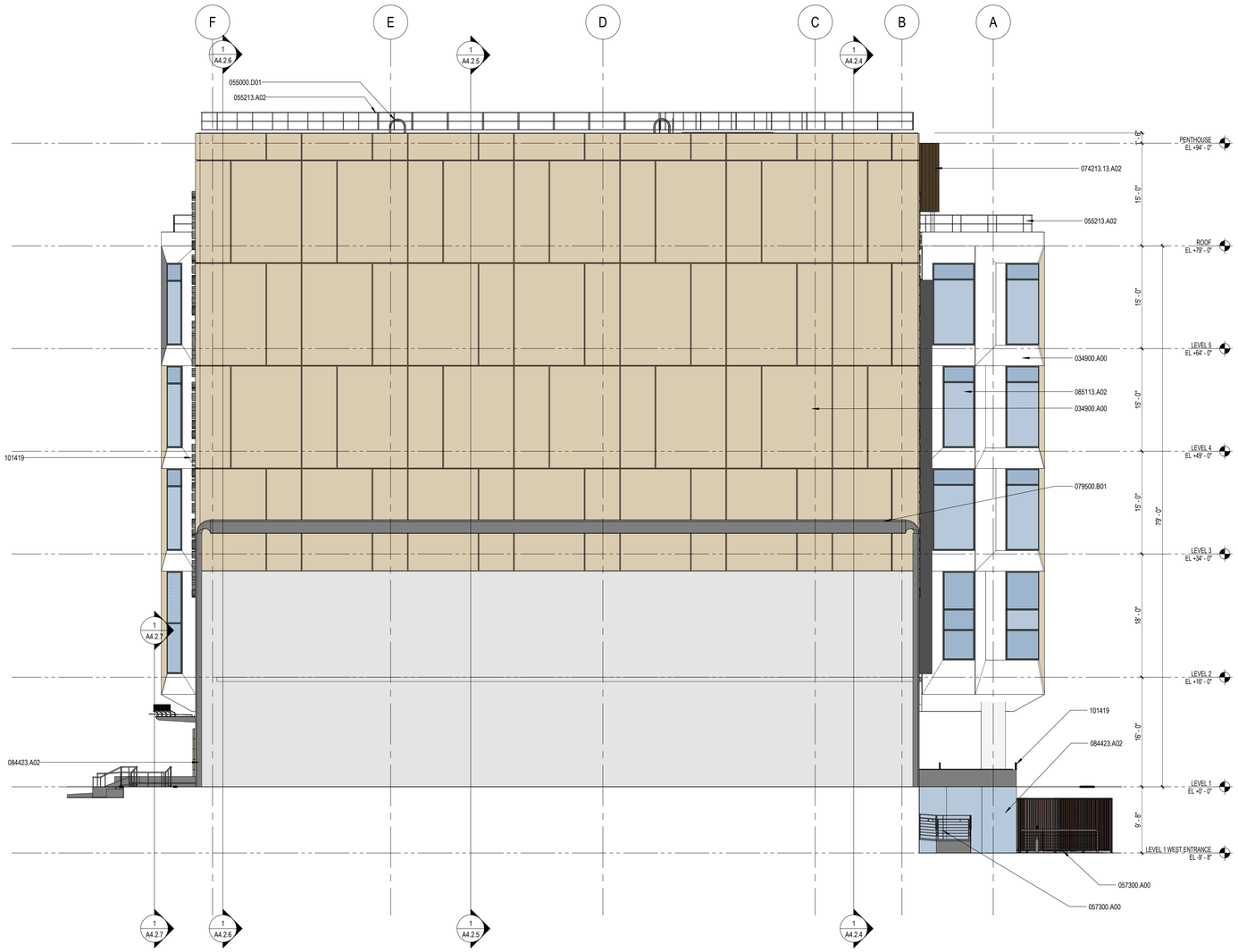
SHEET TITLE

PENTHOUSE ENVELOPE PLAN

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.0.7**

Plot Date: 12/8/2022 9:07:29 AM BADR



1 OVERALL NORTH ELEVATION
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- PROFILE METAL PANEL
- SPANDREL GLAZING
- CLEAR GLAZING OVER SHADOW BOX
- STONE

GENERAL SHEET NOTES

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D. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

E. REFER TO INC 2 (UNDER DIFFERENT PERMIT) FOR STRUCTURE + CORE AND SHELL (INCLUDING EXIT STAIRS AND ELEVATORS) SCOPE.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
057300.A00	DECORATIVE METAL RAILINGS
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
079500.B01	EXTERIOR WALL-TO-WALL JOINT SYSTEM
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

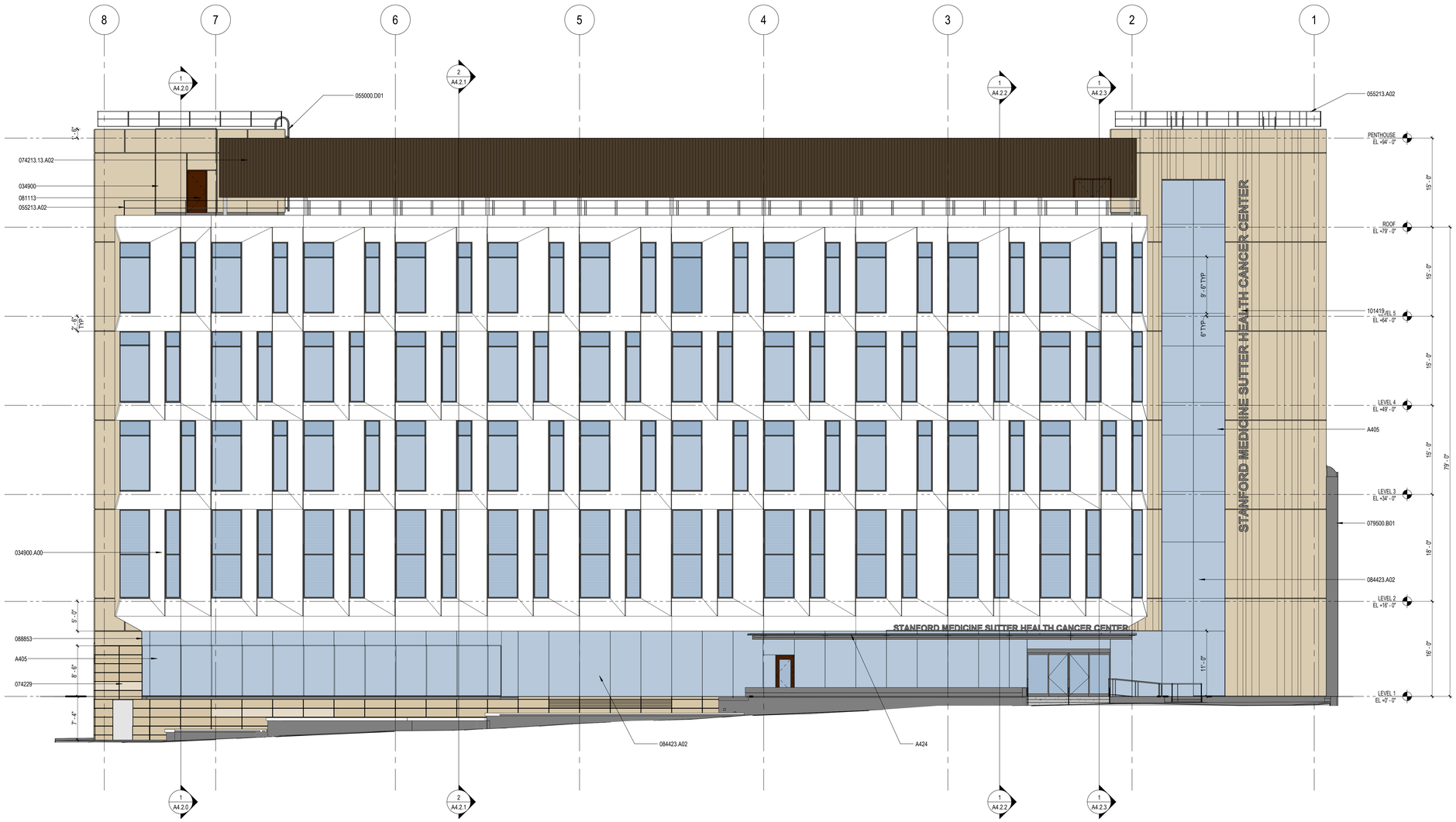
SHEET TITLE

EXTERIOR BUILDING ELEVATION - NORTH

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.1.1**

Plot Date: 5/9/2023 2:56:34 PM BADR



1 OVERALL EAST ELEVATION
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- PROFILE METAL PANEL
- SPANDREL GLAZING
- CLEAR GLAZING OVER SHADOW BOX
- STONE

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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D. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

E. REFER TO INC 2 (UNDER DIFFERENT PERMIT) FOR STRUCTURE + CORE AND SHELL (INCLUDING EXIT STAIRS AND ELEVATORS) SCOPE.

REFERENCE KEYNOTES

034900	SECTION 034900 - GLASS-FIBER-REINFORCED CONCRETE (GFRC)
034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
074229	SECTION 074229.00 - TERRACOTTA RAINSCREEN SYSTEM
079500.B01	EXTERIOR WALL-TO-WALL JOINT SYSTEM
081113	SECTION 081113 - HOLLOW METAL DOORS AND FRAMES
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
088853	SECTION 088853 - SECURITY GLAZING
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

SHEET KEYNOTES

A405	SHADOW BOX WITH INSULATION AT CURTAIN WALL
A424	LAMINATED GLASS CANOPY WITH CUSTOM FRIT PATTERN

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

EXTERIOR BUILDING ELEVATION - EAST

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.1.2**

Plot Date: 5/9/2023 5:04:09 PM _BADR

1 OVERALL WEST ELEVATION
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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D. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

E. REFER TO INC 2 (UNDER DIFFERENT PERMIT) FOR STRUCTURE + CORE AND SHELL (INCLUDING EXIT STAIRS AND ELEVATORS) SCOPE.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
057300.A00	DECORATIVE METAL RAILINGS
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
079500.B01	EXTERIOR WALL-TO-WALL JOINT SYSTEM
081113.A03	EXTERIOR HOLLOW METAL DOOR
081213	SECTION 081213 - HOLLOW METAL FRAMES
084113	SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084229.23	SECTION 084229.23 - SLIDING AUTOMATIC ENTRANCES
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
089119.A02	
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE
323119.A00	DECORATIVE METAL FENCES AND GATES

SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

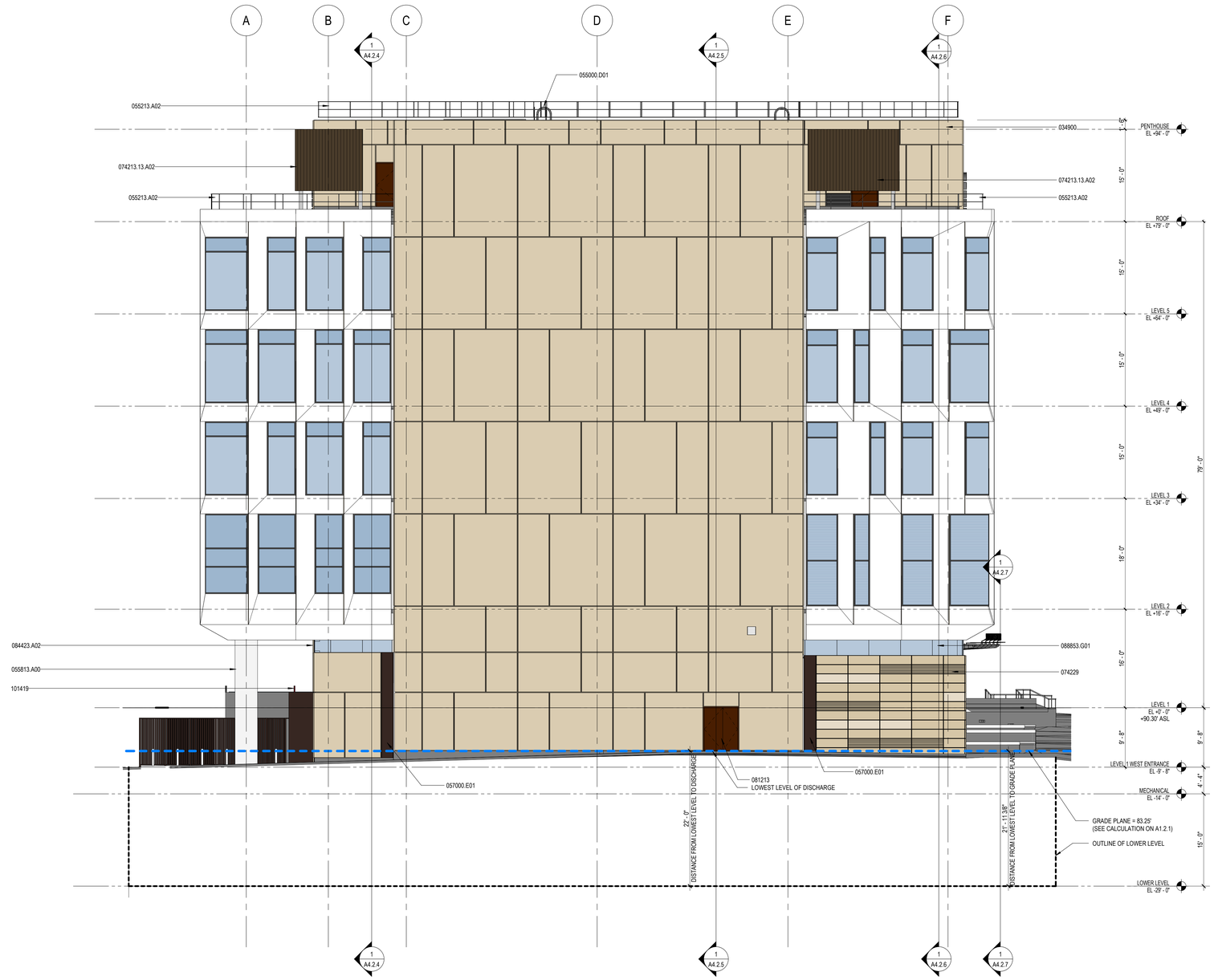
SHEET TITLE

EXTERIOR BUILDING ELEVATION - WEST

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.1.3**

Plot Date: 4/13/2023 7:58:01 PM _BADR



1 OVERALL SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- PROFILE METAL PANEL
- SPANDREL GLAZING
- CLEAR GLAZING OVER SHADOW BOX
- STONE

GENERAL SHEET NOTES

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E. REFER TO INC 2 (UNDER DIFFERENT PERMIT) FOR STRUCTURE + CORE AND SHELL (INCLUDING EXIT STAIRS AND ELEVATORS) SCOPE.

REFERENCE KEYNOTES

034900	SECTION 034900 - GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
055813.A00	COLUMN COVERS
057000.E01	METAL REVEAL
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
074229	SECTION 074229.00 - TERRACOTTA RAINSCREEN SYSTEM
081213	SECTION 081213 - HOLLOW METAL FRAMES
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
088853.G01	INSULATING SECURITY GLAZING
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

SHEET KEYNOTES

Stanford MEDICINE

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

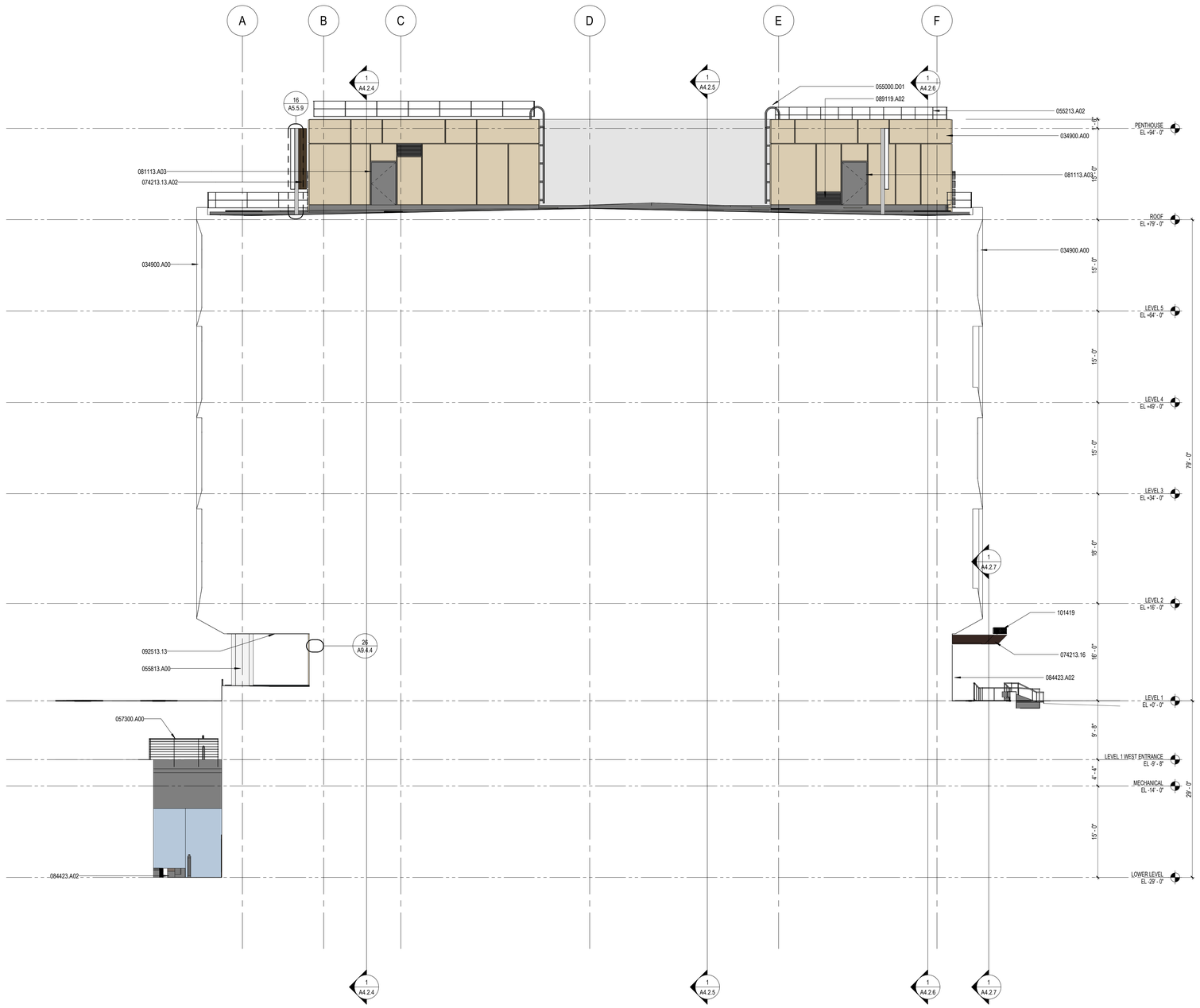
SHEET TITLE

EXTERIOR BUILDING ELEVATION - SOUTH

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.1.4**

Plot Date: 5/9/2023 4:10:37 PM BADR



1 SUNKEN GARDEN ELEVATION - NORTH
SCALE: 1/8" = 1'-0"

Plot Date: 4/13/2023 8:27:58 PM BADR

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
055813.A00	COLUMN COVERS
057300.A00	DECORATIVE METAL RAILINGS
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
074213.16	SECTION 074213.16 - METAL PLATE WALL PANELS
081113.A03	EXTERIOR HOLLOW METAL DOOR
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
089119.A02	
092513.13	ACRYLIC PLASTER FINISH SOFFIT
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

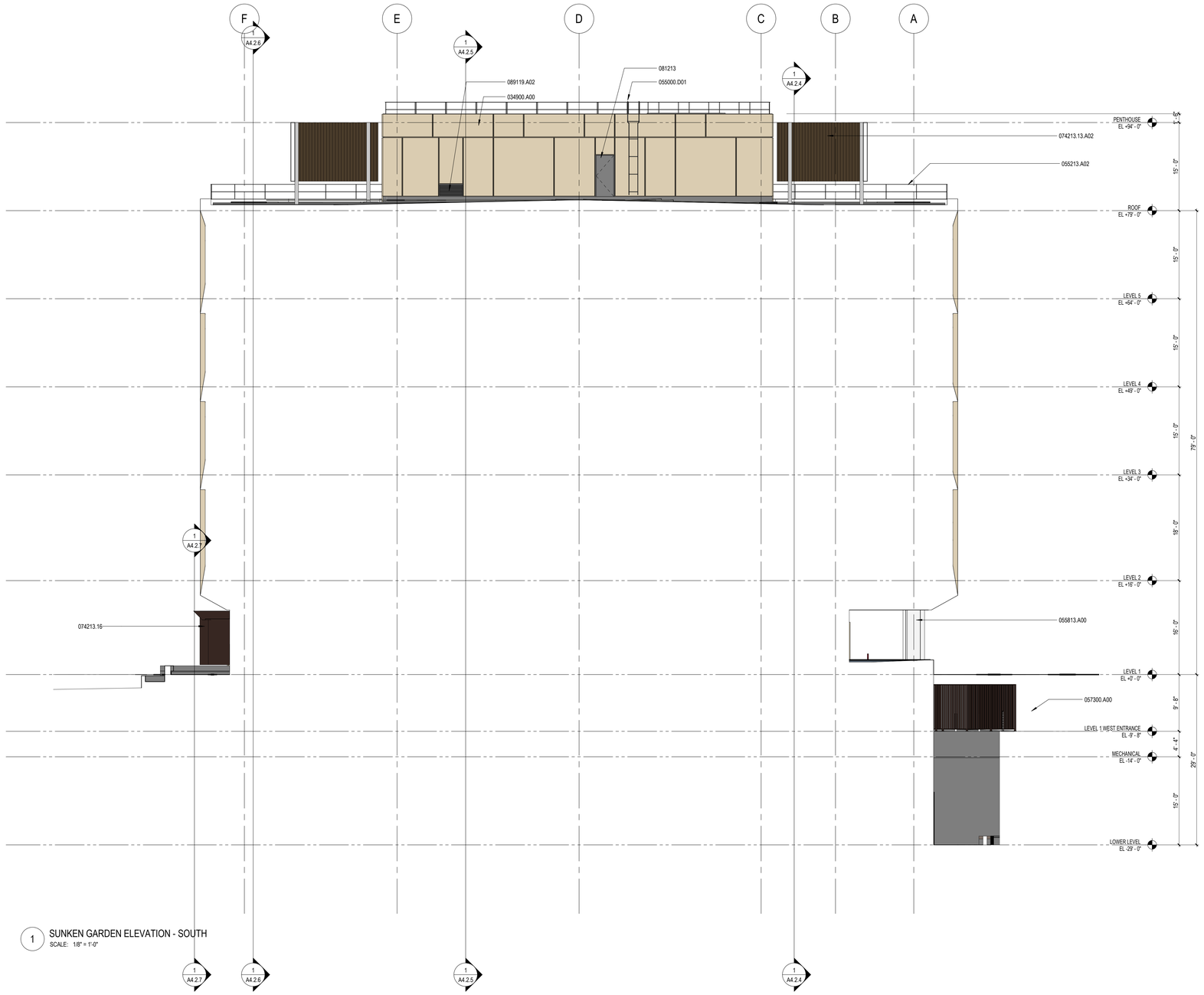
EXTERIOR BUILDING ELEVATION - SUNKEN GARDEN NORTH

13718.000

PROJECT NUMBER

A4.1.5

SHEET NUMBER



1 SUNKEN GARDEN ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
055000.D01	METAL LADDER
055213.A02	PIPE RAILING
055813.A00	COLUMN COVERS
057300.A00	DECORATIVE METAL RAILINGS
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
074213.16	SECTION 074213.16 - METAL PLATE WALL PANELS
081213	SECTION 081213 - HOLLOW METAL FRAMES
089119.A02	

SHEET KEYNOTES

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

EXTERIOR BUILDING ELEVATION - SUNKEN GARDEN SOUTH

13718.000

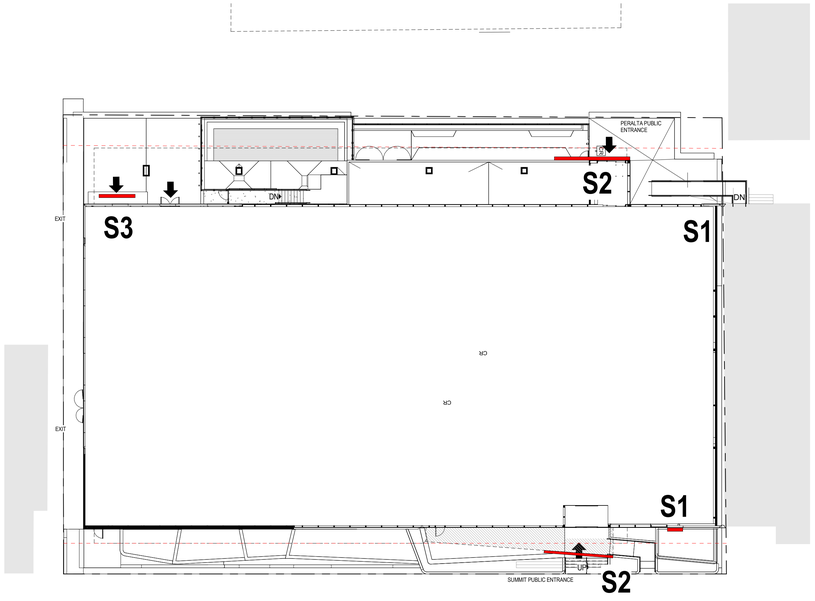
PROJECT NUMBER

A4.1.6

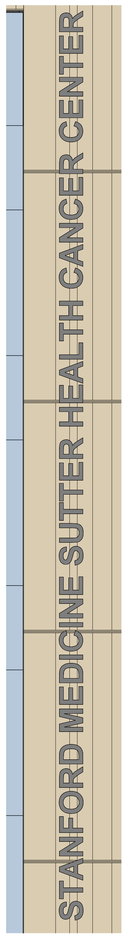
SHEET NUMBER

Plot Date: 4/13/2023 6:28:58 PM _BADR

6 EAST ELEVATION SIGNAGE
SCALE: 3/32" = 1'-0"



1 SIGNAGE PLAN
SCALE: 1" = 20'-0"



3 MAIN SIGNAGE - S1
SCALE: 1/4" = 1'-0"

2 CANOPY SIGNAGE - S2
SCALE: 1/4" = 1'-0"

4 AMBULANCE SIGNAGE - S3
SCALE: 1/4" = 1'-0"

5 WEST ELEVATION-
SCALE: 3/32" = 1'-0"

TOTAL FRONTAGE ON SUMMIT ST = 207'
TOTAL ALLOWED AREA FOR SIGNAGE = 200 SF

TOTAL PROPOSED AREA FOR SIGNAGE ON SUMMIT:
96 SF (S1) + 40 SF (S2) = 136 SF

TOTAL PROPOSED AREA FOR SIGNAGE ON PERALTA:
96 SF (SF) + 40 SF (S2) + 8 SF (S3) = 144 SF

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

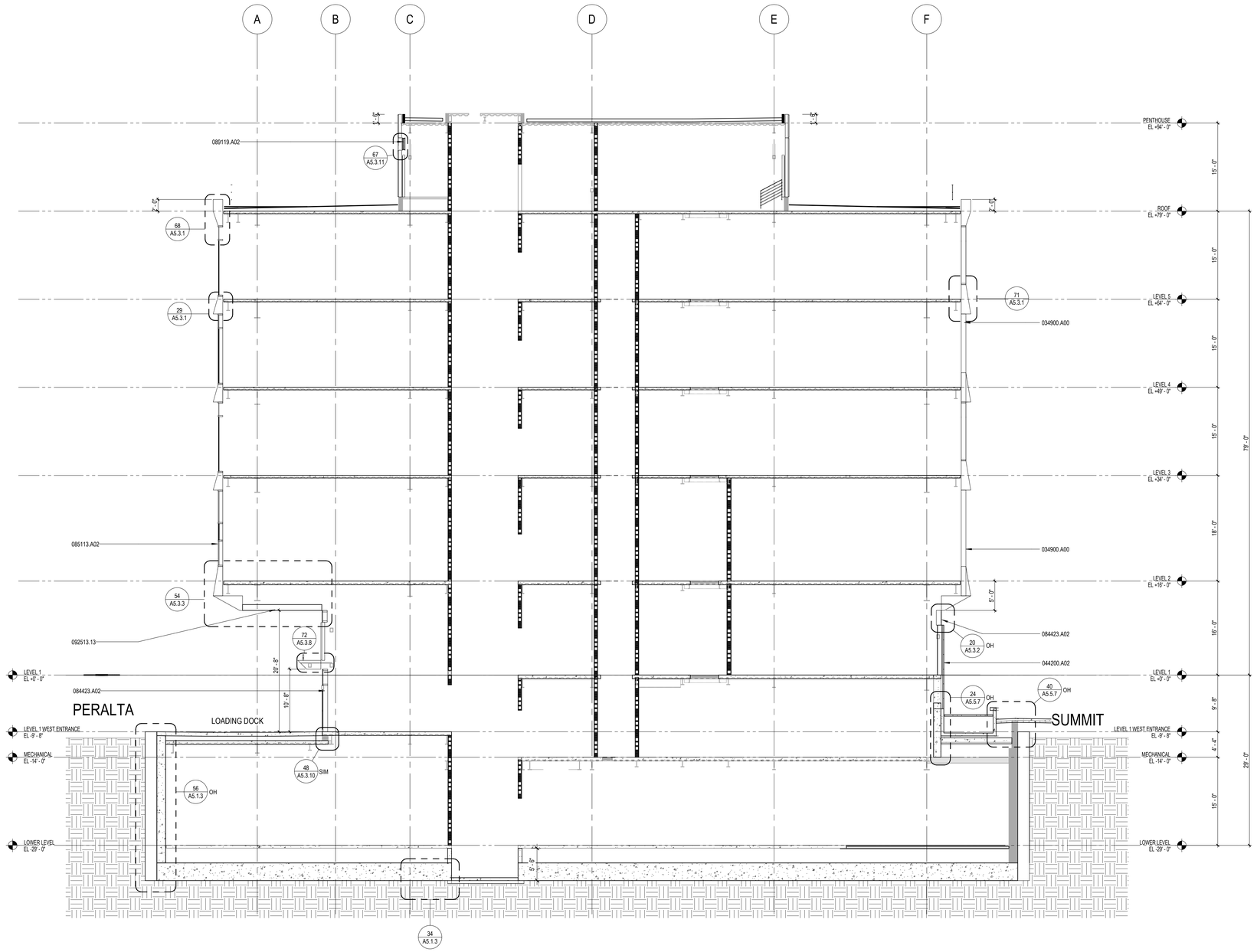
SEALS AND SIGNATURES

SHEET TITLE
SIGNAGE PLAN & ELEVATION

PROJECT NUMBER
13718.000

SHEET NUMBER
A4.1.7

Plot Date: 5/9/2023 2:02:36 PM BADR



1 SECTION THRU LOADING DOCK
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

D. REFER TO THE A4.3.X SERIES SHEETS FOR ENLARGED EXTERIOR ELEVATIONS.

E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
044200.A02	GRANITE CLADDING
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW
089119.A02	
092513.13	ACRYLIC PLASTER FINISH SOFFIT

SHEET KEYNOTES

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

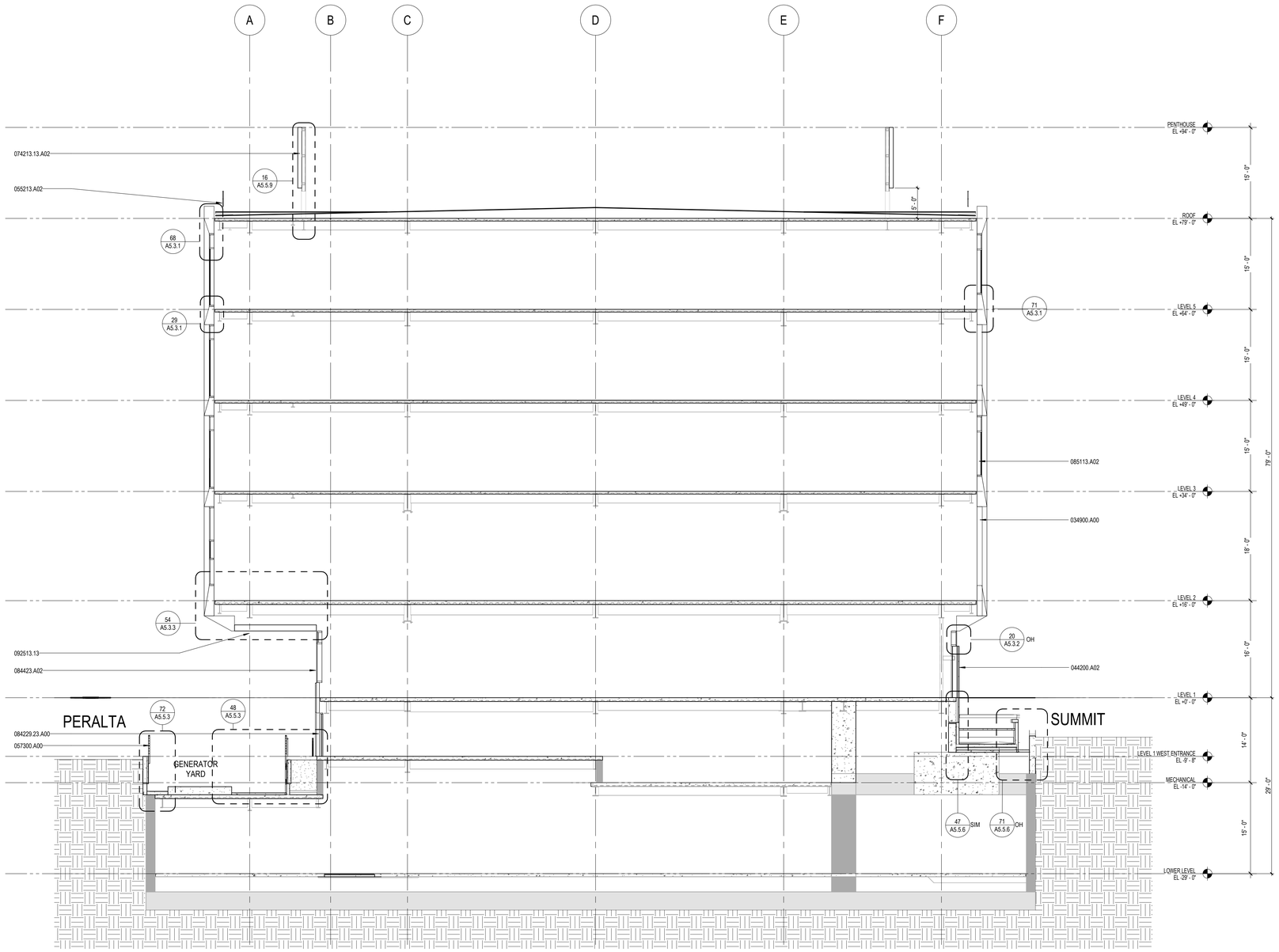
SHEET TITLE

BUILDING SECTION THRU LOADING DOCK

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.0**

Plot Date: 12/9/2022 10:56:16 AM BADR



2 SECTION @ CYLINDER ROOM
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
044200.A02	GRANITE CLADDING
055213.A02	PIPE RAILING
057300.A00	DECORATIVE METAL RAILINGS
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
084229.23.A00	SLIDING AUTOMATIC ENTRANCES
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW
092513.13	ACRYLIC PLASTER FINISH SOFFIT

SHEET KEYNOTES

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SEALS AND SIGNATURES

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A

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

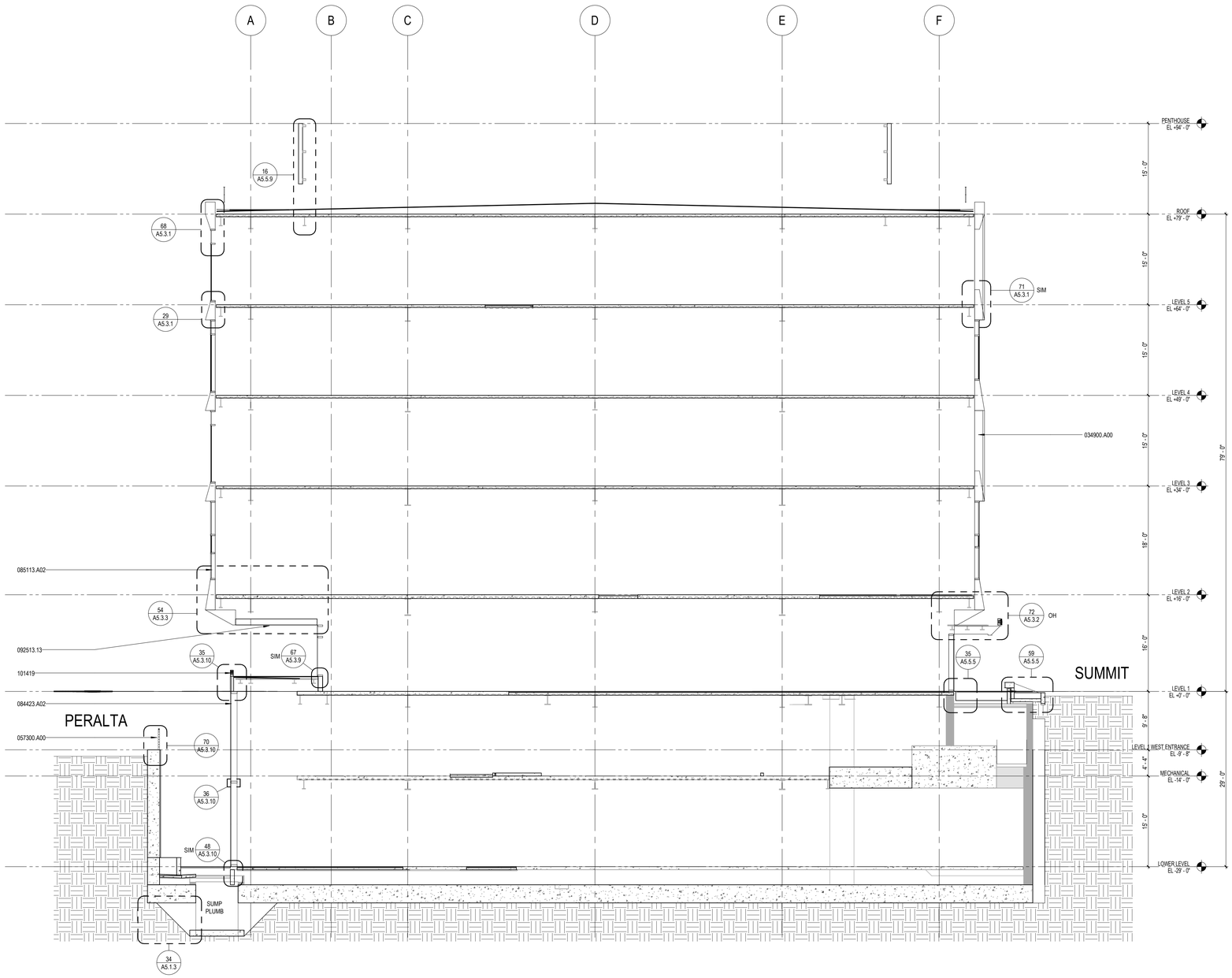
SHEET TITLE

BUILDING SECTION THRU GENERATOR PAD

13718.000
PROJECT NUMBER

A4.2.1
SHEET NUMBER

Plot Date: 12/9/2022 10:56:19 AM _BADR



1 SECTION THRU SUNKEN GARDEN
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
057300.A00	DECORATIVE METAL RAILINGS
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW
092513.13	ACRYLIC PLASTER FINISH SOFFIT
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

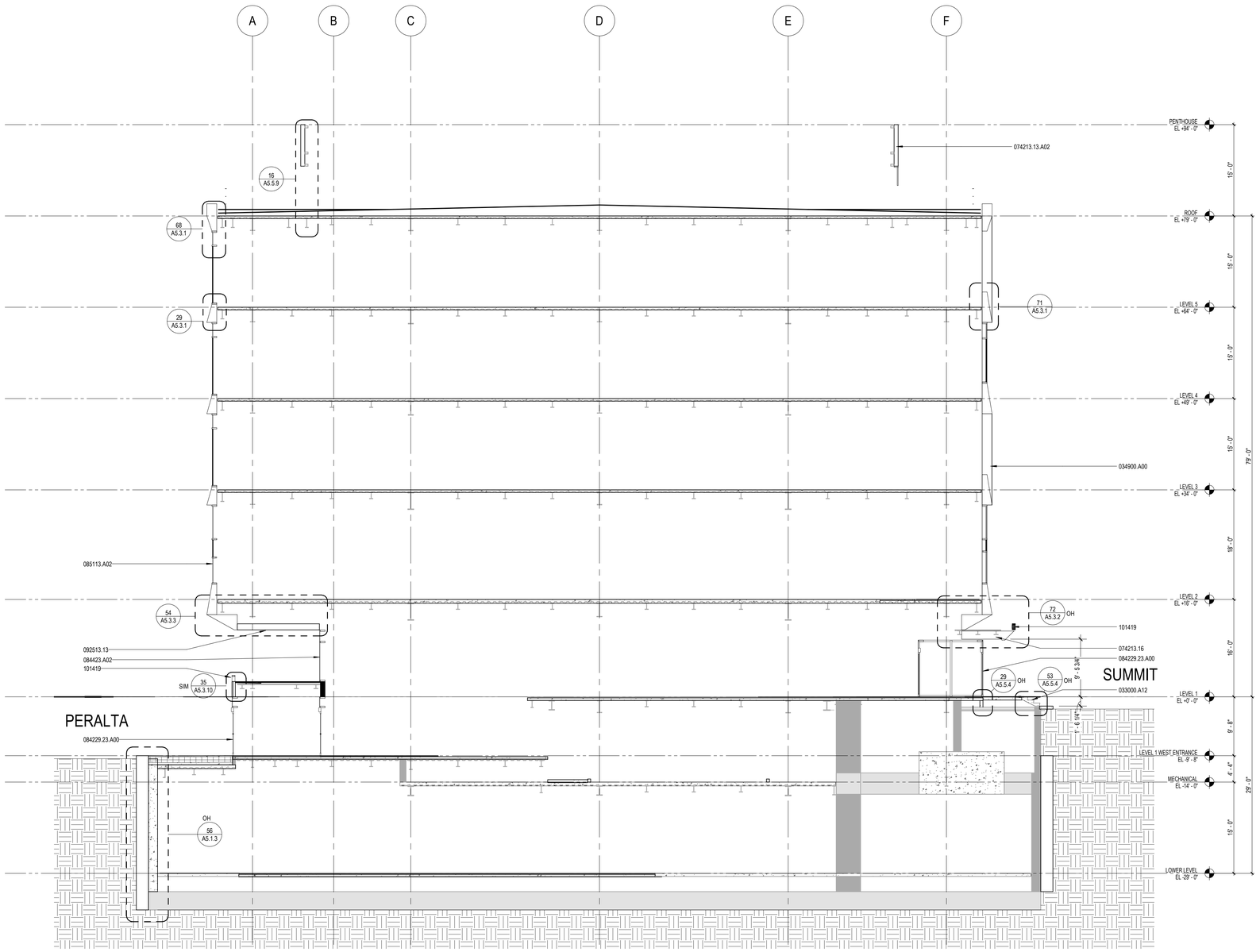
SHEET TITLE

BUILDING SECTION THRU SUNKEN GARDEN

13718.000
PROJECT NUMBER

A4.2.2
SHEET NUMBER

Plot Date: 12/9/2022 10:56:22 AM _BADR



1 SECTION THRU WEST ENTRANCE
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

033000.A12	CONCRETE STAIR
034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
074213.16	SECTION 074213.16 - METAL PLATE WALL PANELS
084229.23.A00	SLIDING AUTOMATIC ENTRANCES
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW
092513.13	ACRYLIC PLASTER FINISH SOFFIT
101419	SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

○ SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B | AREA C | AREA D

SHEET TITLE

BUILDING SECTION THRU WEST ENTRANCE

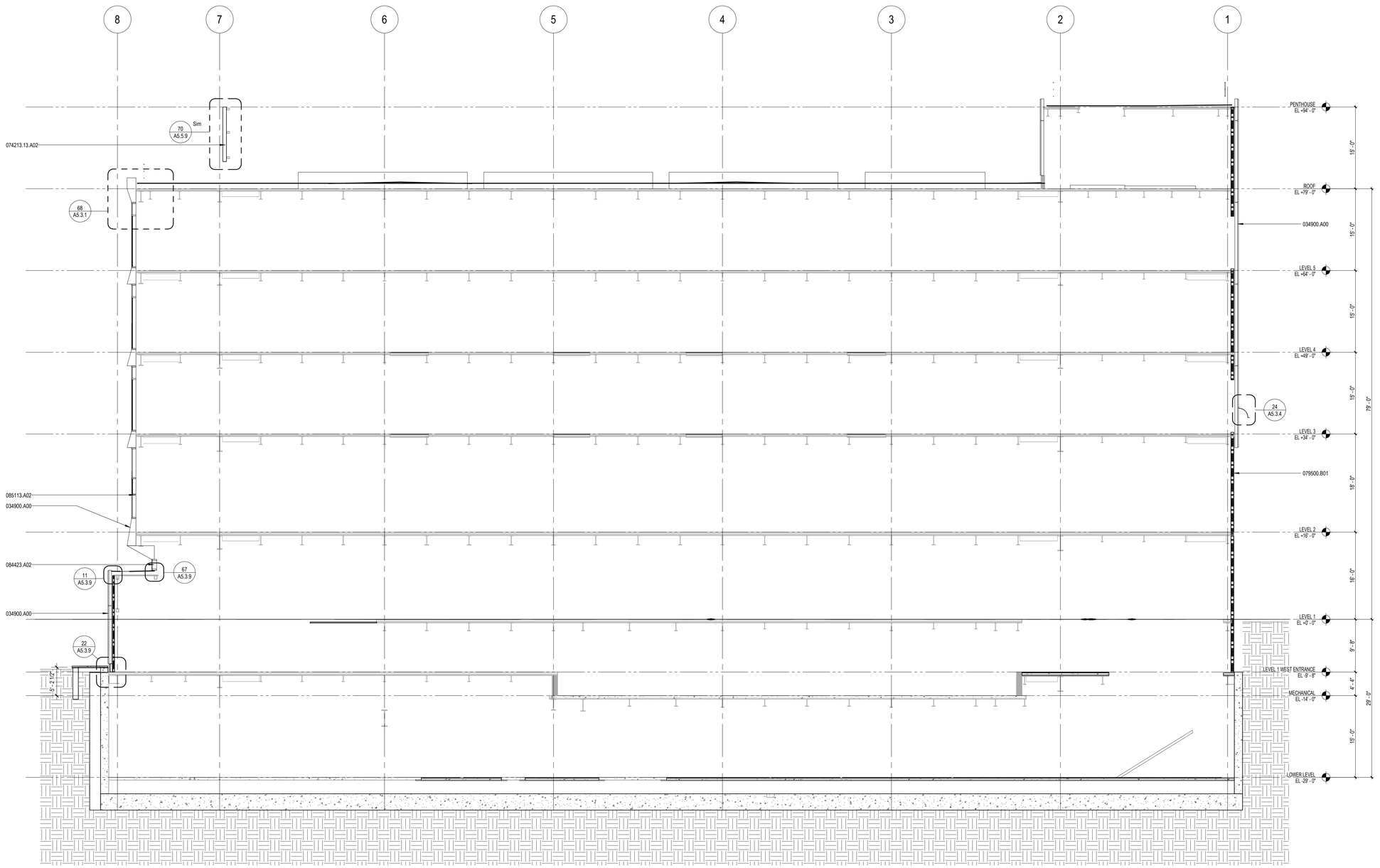
13718.000

PROJECT NUMBER

A4.2.3

SHEET NUMBER

Plot Date: 12/9/2022 10:56:24 AM _BADR



1 SECTION THRU FEATURE STAIR
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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D. REFER TO THE A4.3.X SERIES SHEETS FOR ENLARGED EXTERIOR ELEVATIONS.

E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
079500.B01	EXTERIOR WALL-TO-WALL JOINT SYSTEM
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL
085113.A02	ALUMINUM FIXED WINDOW

SHEET KEYNOTES

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

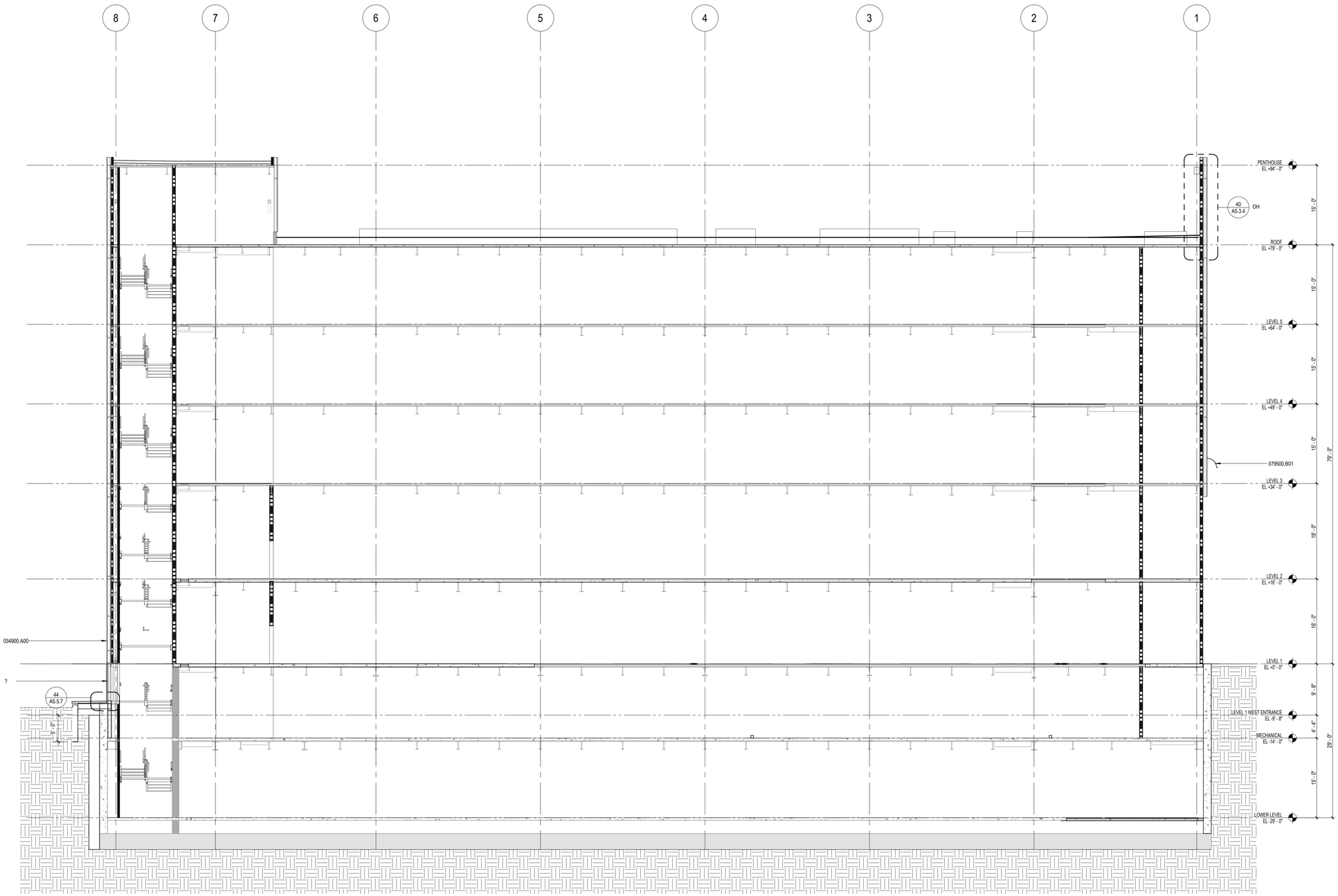
SHEET TITLE

BUILDING SECTION THRU FEATURE STAIR

13718.000
PROJECT NUMBER

A4.2.4
SHEET NUMBER

Plot Date: 12/9/2022 10:56:24 AM _BADR



1 SECTION THRU SOUTH STAIR
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

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E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00 GLASS-FIBER-REINFORCED CONCRETE (GFRC)
079500.B01 EXTERIOR WALL-TO-WALL JOINT SYSTEM

SHEET KEYNOTES

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

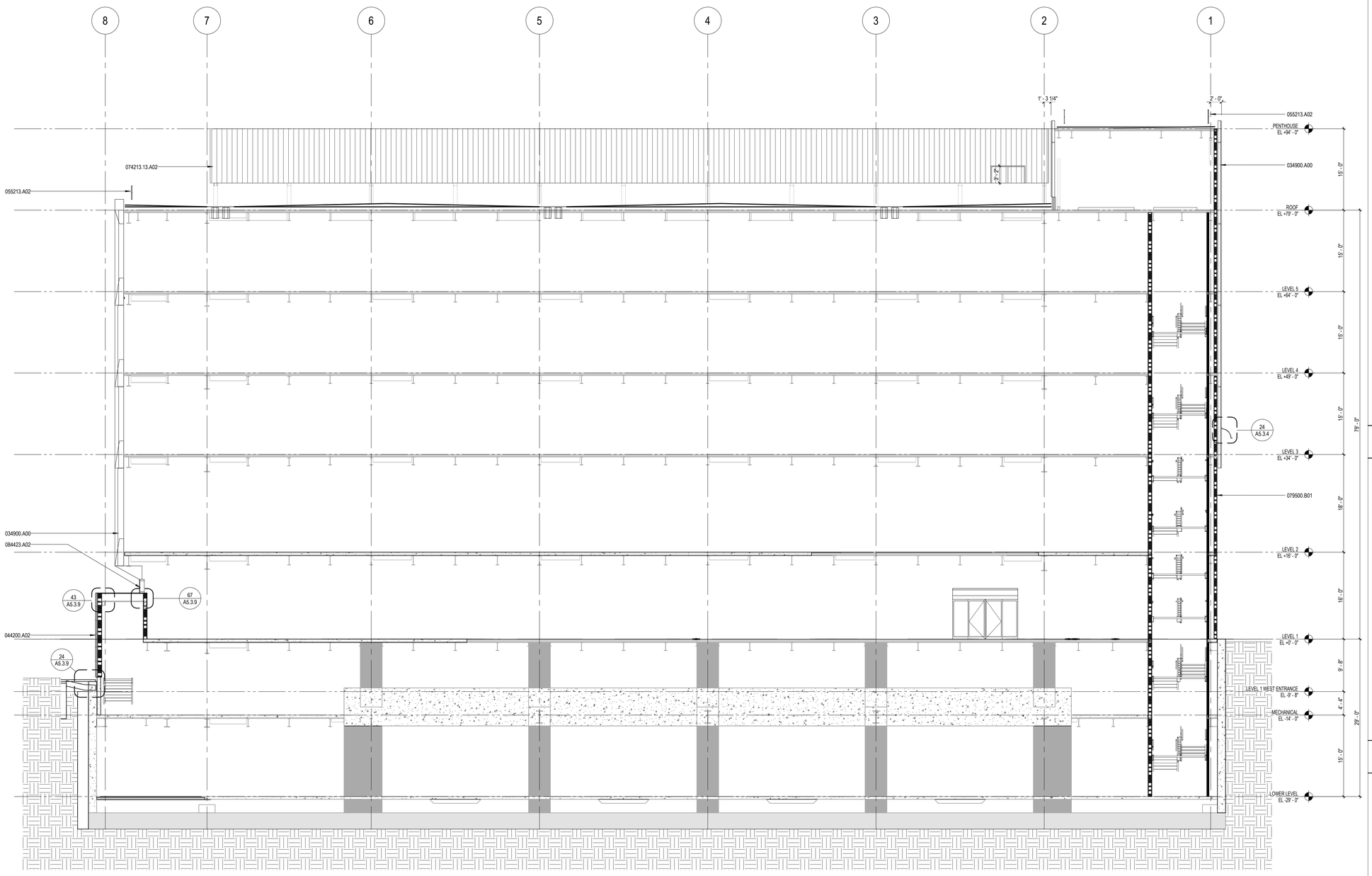
BUILDING SECTION THRU SOUTH STAIR

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.5**

BADR

Plot Date: 12/9/2022 10:56:25 AM



1 SECTION THRU LINAC
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

GENERAL SHEET NOTES

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E. REFER TO THE A5.X SERIES SHEETS FOR EXTERIOR DETAILS.

F. REFER TO EW SERIES SHEETS FOR GFRC PANEL AND CURTAIN WALL SYSTEM DRAWINGS.

REFERENCE KEYNOTES

034900.A00	GLASS-FIBER-REINFORCED CONCRETE (GFRC)
044200.A02	GRANITE CLADDING
055213.A02	PIPE RAILING
074213.13.A02	CONCEALED-FASTENER, LAP-SEAM METAL WALL PANEL
079500.B01	EXTERIOR WALL-TO-WALL JOINT SYSTEM
084423.A02	FOUR-SIDED STRUCTURAL-SEALANT-GLAZED CURTAIN WALL

SHEET KEYNOTES

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SEALS AND SIGNATURES

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KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

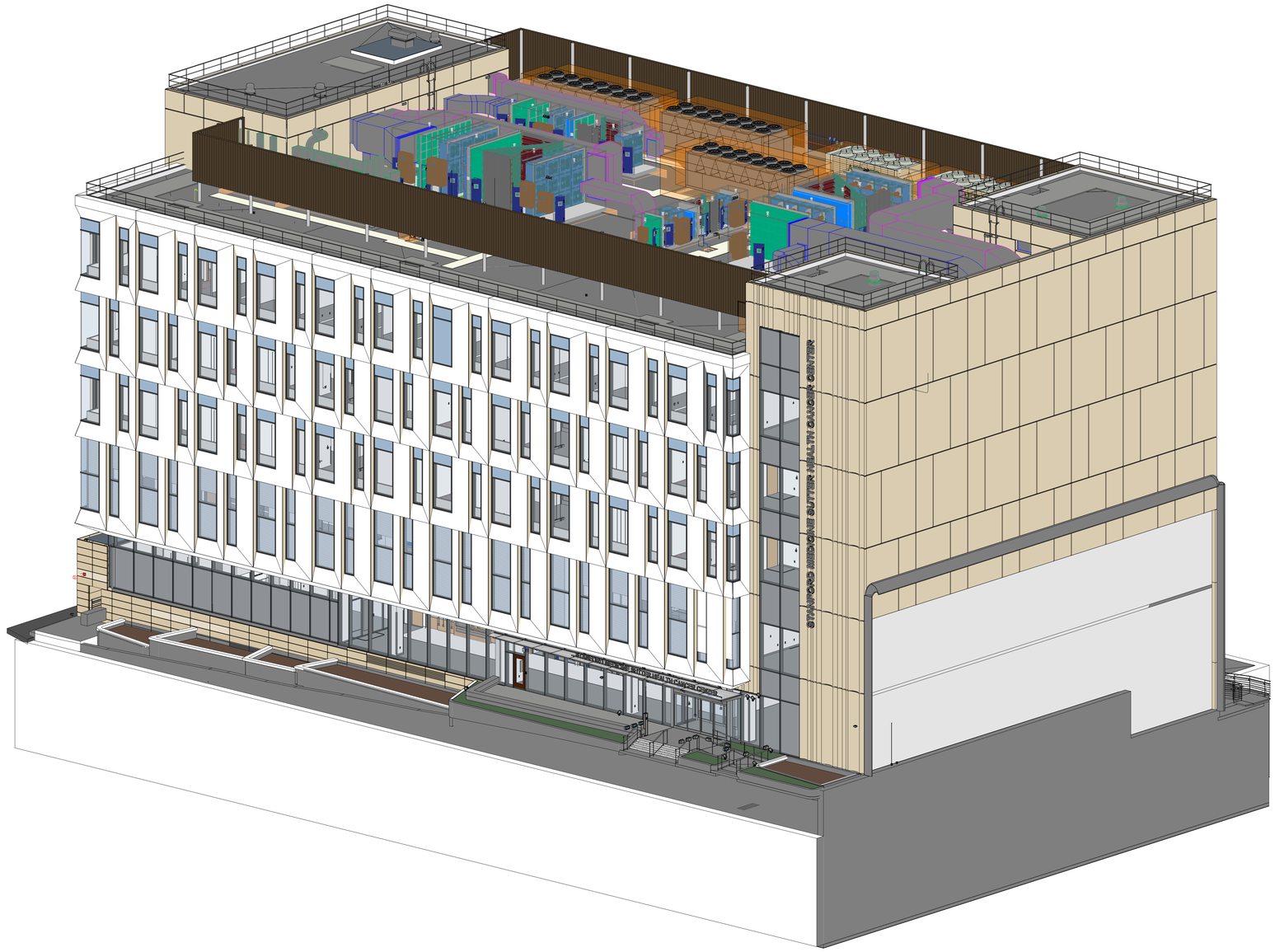
SHEET TITLE

BUILDING SECTION THRU LINAC

13718.000
PROJECT NUMBER

A4.2.6
SHEET NUMBER

Plot Date: 12/9/2022 10:56:26 AM _BADR



3 3D - NORTHEAST - GFRC
SCALE:

Plot Date: 5/9/2023 1:12:12 PM BADR

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SEALS AND SIGNATURES

KEYPLAN

TRUE NORTH PROJECT NORTH

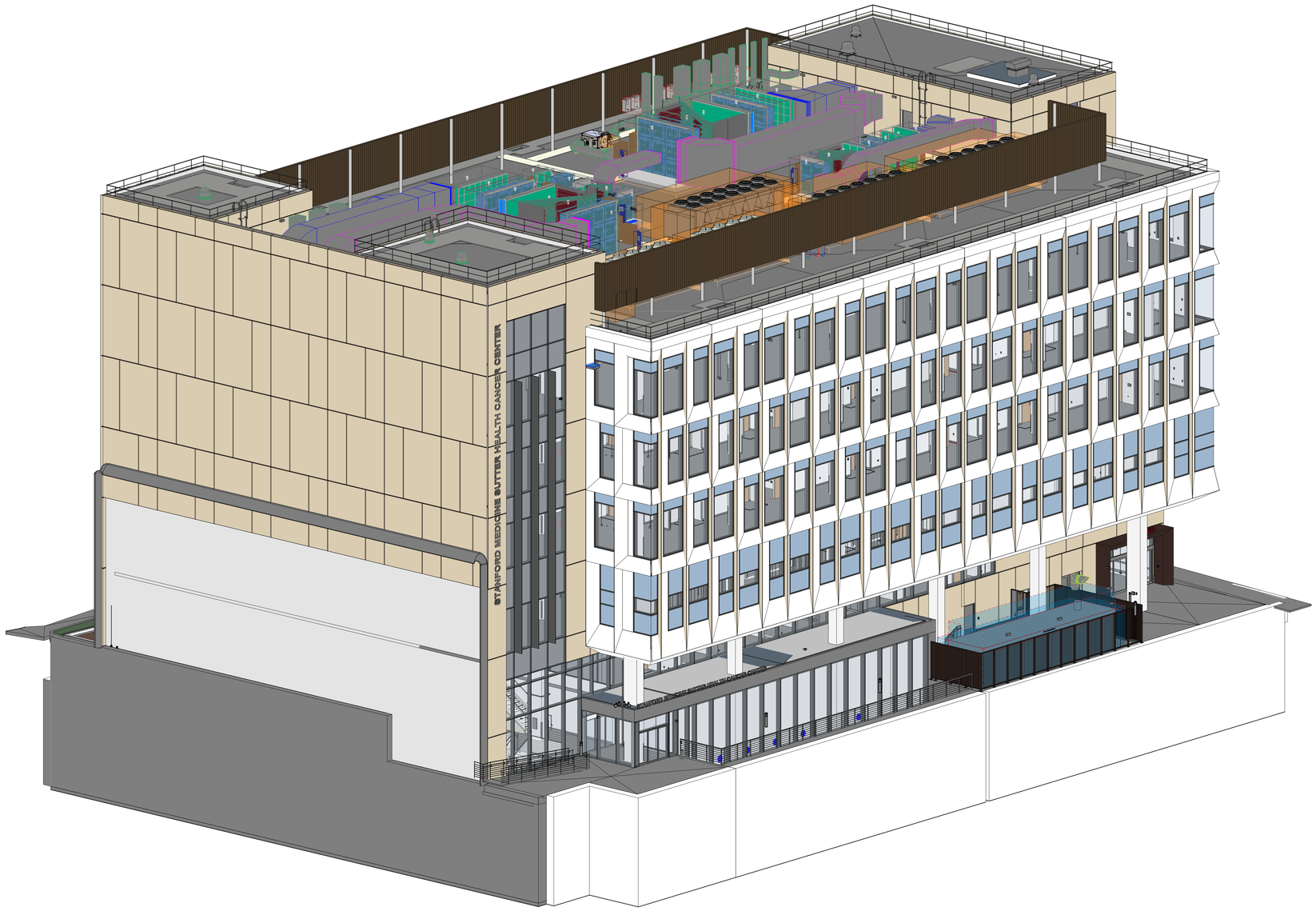
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

EXTERIOR BUILDING AXON - NORTHEAST

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.8**



1 3D - NORTHWEST - GFRC
SCALE:

Plot Date: 4/13/2023 11:15:05 PM _BADR

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

TRUE NORTH PROJECT NORTH

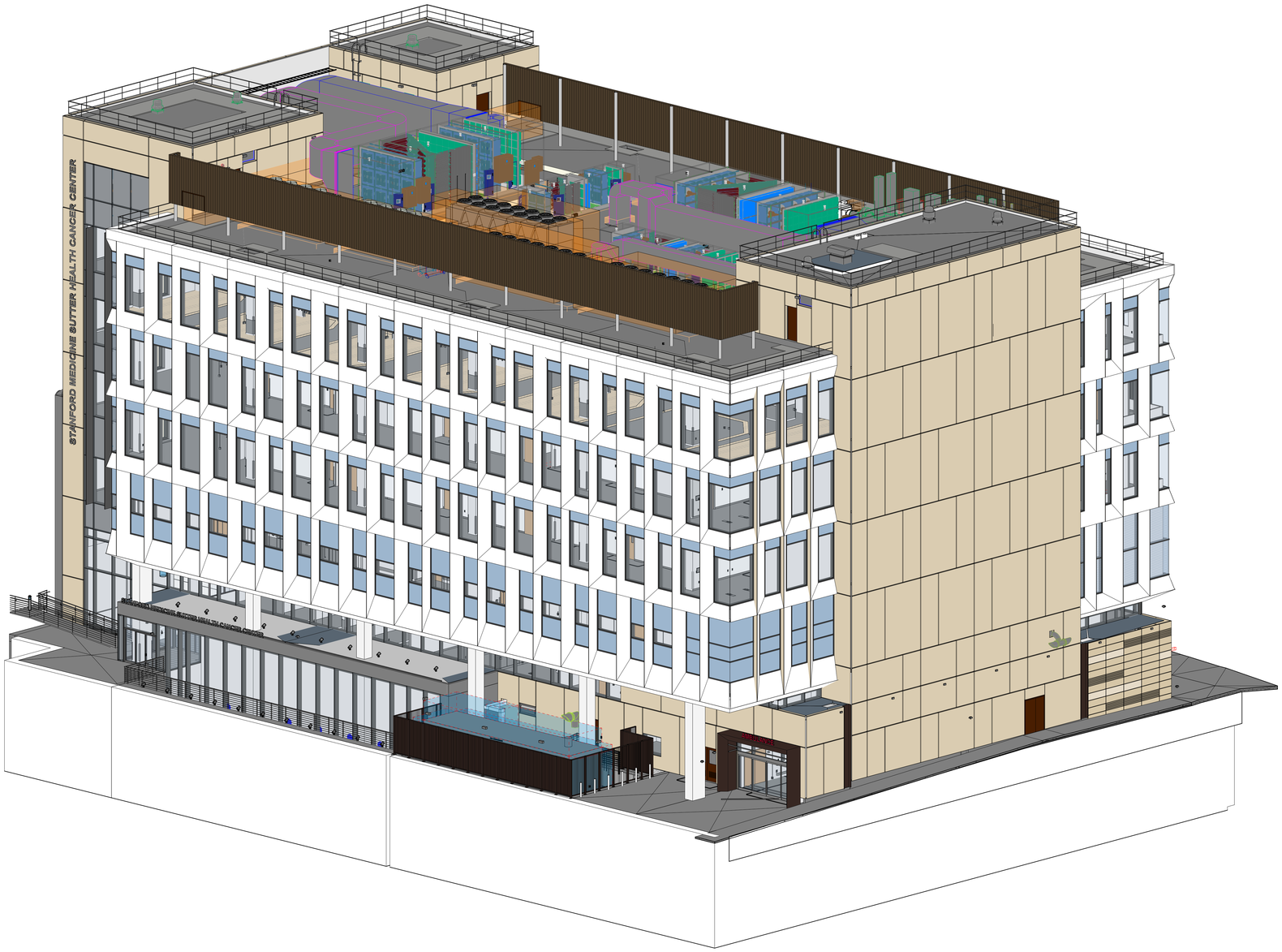
AREA A | AREA B
AREA C | AREA D

SHEET TITLE

EXTERIOR BUILDING
AXON - NORTHWEST

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.9**



1 3D - SOUTHWEST - GFRC
SCALE:

Plot Date: 5/9/2023 5:14:36 PM _BADR

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

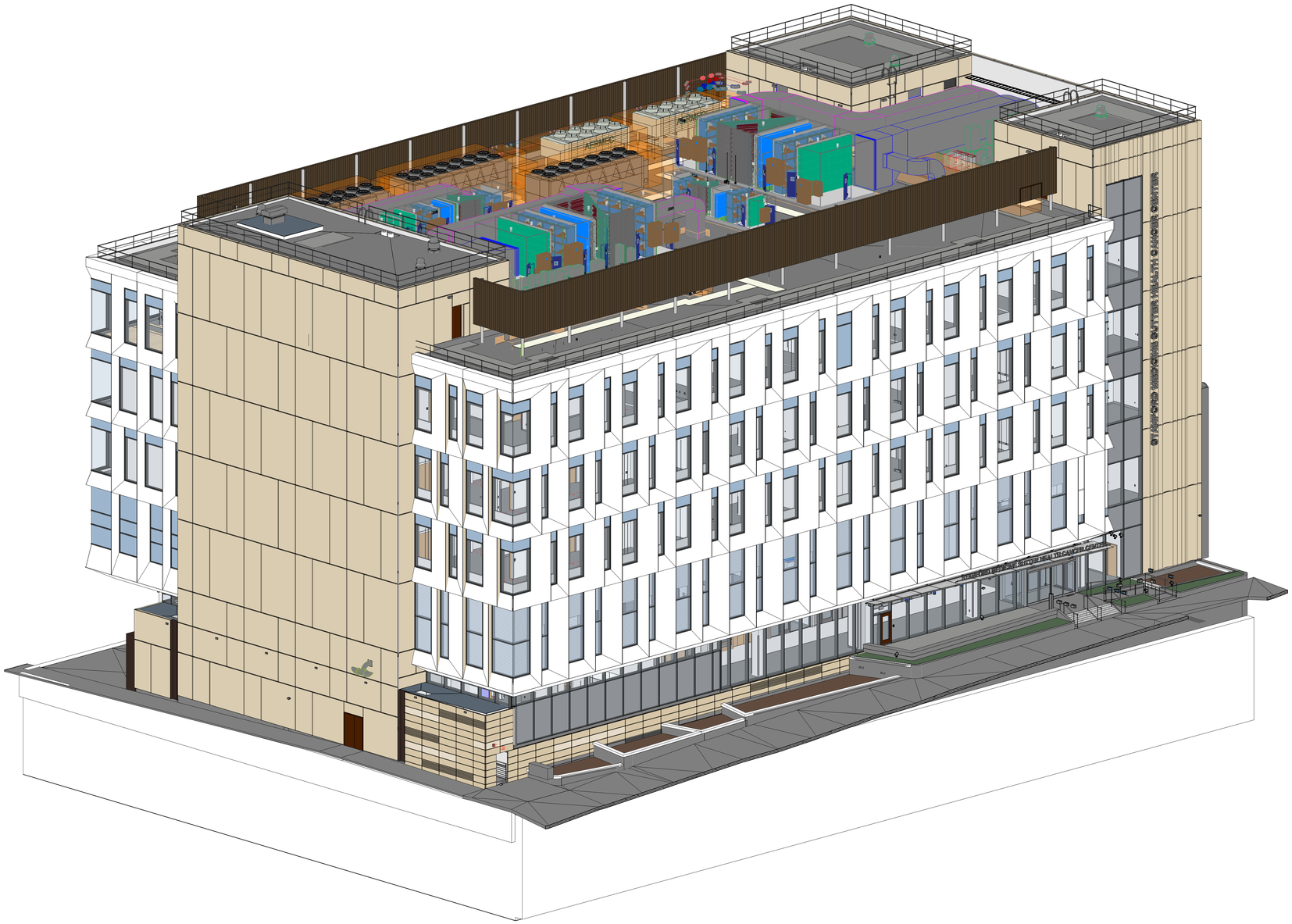
TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE
EXTERIOR BUILDING
AXON - SOUTHWEST

13718.000
PROJECT NUMBER

A4.2.10
SHEET NUMBER



1 3D - SOUTHEAST - GFRC
SCALE:

Plot Date: 5/9/2023 1:55:55 PM _BADR

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

KEYPLAN

TRUE NORTH PROJECT NORTH

AREA A | AREA B
AREA C | AREA D

SHEET TITLE

EXTERIOR BUILDING AXON - SOUTHEAST

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.11**

EAST FACADE (SUMMIT)

WEST FACADE (PERALTA)

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SEALS AND SIGNATURES

TRUE NORTH PROJECT NORTH

SHEET TITLE

EXTERIOR PERSPECTIVE RENDERING

PROJECT NUMBER 13718.000

SHEET NUMBER **A4.2.20**

Plot Date: 5/9/2023 10:59:36 AM _BADR

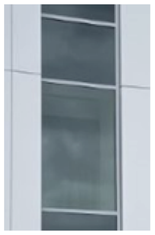
GFRC PANEL SYSTEM

Vanilla Bean Sandlewood

PATTERN GFRC PANEL SYSTEM

CURTAIN WALL WITH SHADOW BOX

CLEAR WINDOW W/ SPANDREL TRANSOM



CLEAR GLAZING WITH TRANSLUCENT FRIT

TERRACOTTA RAINSCREEN SYSTEM

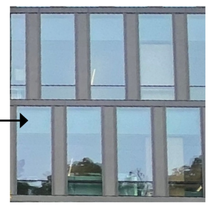
Beige Panel

Champagne Panel

Groove Panel

SHADOW BOX

Shadow box behind glazing



CANOPY FRIT PATTERN

Stanford MEDICINE

Sutter Health

CANCER COLLABORATIVE

Stanford Medicine Sutter Health Cancer Center

3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP

301 BATTERY STREET
4TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

TRUE NORTH PROJECT NORTH

SHEET TITLE

EXTERIOR PERSPECTIVE RENDERING

PROJECT NUMBER 13718.000

SHEET NUMBER A4.2.21

Plot Date: 5/9/2023 1:40:04 PM _BADR

Project Name: JVCC | **Date Prepared:** 2022-11-18

A. General Information

1.	Project Location (city)	Oakland	8.	Standards Version	Compliance2019
2.	CA Zip code	94609	9.	Compliance Software (version)	CBECC-Com 2019.2.1
3.	Climate Zone	3	10.	Weather File	OAKLAND_724930_CZ2010.epw
4.	Total Conditioned Floor Area in Scope (ft²)	159915	11.	Building Orientation (deg)	270 (W)
5.	Total Unconditioned Floor Area (ft²)	0	12.	Permitted Scope of Work	New complete scope
6.	Total # of Stories (Habitable Above Grade)	5	13.	Building Type(s)	Nonresidential
7.	Total # of Dwelling Units	0	14.	Gas Type	Natural gas

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	☒	Performance	Covered Process: Commercial Kitchens (see Table J2)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	☐	Not Included		☒	Not Included		
Mechanical (See Table H)	☒	Performance	Covered Process: Computer Rooms (see Table J3)	☐	Performance	Indoor Lighting (Unconditioned) 140.6	NRCC-LTI-E
	☐	Not Included		☒	Not Included	Outdoor Lighting 140.7	NRCC-LTO-E
Domestic Hot Water (See Table I)	☒	Performance	Covered Process: Laboratory Exhaust (see Table J4)	☐	Performance	Sign Lighting 140.8	NRCC-LTS-E
	☐	Not Included		☒	Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐	Not Included				Electrical Power Distribution 110.11	NRCC-ELC-E
Solar Thermal Water Heating (See Table I3)	☐	Performance				Commissioning 120.8	NRCC-CXR-E
	☒	Not Included				Solar Ready 110.10	NRCC-SRA-E

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use , kBtu/ft² - yr)

COMPLIES

Energy Component	Proposed Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	429.61	413.12	16.49
Space Cooling	125.58	121.98	3.6
Indoor Fans	231.67	227.71	3.96
Heat Rejection	0	0	0
Pumps & Misc.	1.66	2.39	-0.73
Domestic Hot Water	4.34	9.13	-4.79
Indoor Lighting	51.72	49.22	2.5
Flexibility	---	---	---
ENERGY STANDARDS COMPLIANCE TOTAL	**844.58**	**823.55**	**21.03 (2.5%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐This project is pursuing CalGreen Tier 1	☐This project is pursuing CalGreen Tier 2		
Miscellaneous Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Receptacle	85.24	85.24	---
Process	3.75	3.75	---
Other Ltg	---	---	---
Process Motors	---	---	---
Photovoltaics	---	---	---
Batteries	---	---	---
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**933.57**	**912.54**	**21.03 (2.3%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 part 6, if applicable.*

C3. ENERGY USE SUMMARY

Energy Component	Proposed Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	2,554.4	2,459.6	94.8	---	---	---
Space Cooling	656.6	633.5	23.1	---	---	---
Indoor Fans	1,329.4	1,304.1	25.3	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	9.4	14.1	-4.7	---	---	---
Domestic Hot Water	18.7	54.2	-35.5	83.1	---	---
Indoor Lighting	302.5	287.5	15	---	---	---
Compliance Total	**4,871**	**4,753**	**118**	**83.1**	**0**	**83.1**
Receptacle	500.9	500.9	0	86.2	86.2	0
Process	21.7	21.7	0	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
TOTAL	**5,393.6**	**5,275.6**	**118**	**169.3**	**86.2**	**83.1**

D. EXCEPTIONAL CONDITIONS

The project has spaces with higher ventilation rates that required because of other codes or accreditation standards being applied.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	11,327.2	654.4	5.78
East-Facing[2]	16,799.2	4,752.8	28.29
South-Facing[3]	10,814	2,074.32	19.18
West-Facing[4]	20,256	9,189.52	45.37
Total	**59,196.4**	**16,671**	**28.16**
Roof	31,498.1	0	0

Notes
[1] *North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Construction Assembly Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Exterior Floors	Exterior Floor	3,728.8	N/A	N/A	5	U-factor	0.1565	Concrete - 140 lb/ft3 - 4 in. Compliance Insulation R5.00	N
Internal Ceiling/Floor	Interior Floor	134,564	N/A	N/A	N/A	U-factor	0.5464	Concrete - 140 lb/ft3 - 4 in.	N
Above Grade Wall (GFRC)	Exterior Wall	41,494	Metal	15	7	U-factor	0.0856	Concrete Paver Compliance Insulation R7.00 Metal-framed R-15 Gypsum Board - 5/8 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Construction Assembly Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Internal Partition	Interior Wall	234,823	N/A	N/A	N/A	U-factor	0.3003	Gypsum Board - 5/8 in. Air - Wall - 3 1/2 in. Gypsum Board - 5/8 in.	N
Proposed Roof	Roof	23,692.9	N/A	N/A	30	U-factor	0.0322	Concrete - 140 lb/ft3 - 4 in. Compliance Insulation R30.00	N
Below Grade Walls	Underground Wall	13,185.6	N/A	N/A	N/A	C-factor	0.77	Concrete - Solid Grout - 115 lb/ft3 - 12 in.	N
Slab on Grade	Underground Floor	31,811.4	N/A	N/A	N/A	F-factor	0.73	Unheated slab on grade None	N
Basement Roof	Roof	7,805.15	N/A	N/A	30	U-factor	0.0322	Concrete - 140 lb/ft3 - 4 in. Compliance Insulation R30.00	N
Above Grade Wall (Stone Panel)	Exterior Wall	17,702.4	Metal	19	5	U-factor	0.0905	Stone - 1 in. Compliance Insulation R5.00 Metal-Framed R-21 Gypsum Board - 5/8 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type/ Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area (ft²)**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Fixed Windows (SunGuard SNX 62/27)	Vertical fenestration Fixed window	NFRC	Manufactured	10,648.8	0.42	0.27	0.61	N
Curtain Wall (SunGuard SNX 62/27)	Vertical fenestration Curtain wall	NFRC	Manufactured	6,022.24	0.42	0.27	0.61	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A - Altered, E - Existing*

H2.FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
			Supply Fan					Return/Relief Fan					
Name or Item Tag	**Qty**	**Design OA CFM**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**Status[2]**
AH-1	1	23,715.4	70,000	Static Pressure	6.1	Inches water column	VSD	50,000	Static Pressure	2.35	Inches water column	VSD	N
AH-2	1	26,225.3	70,000	Static Pressure	6.1	Inches water column	VSD	50,000	Static Pressure	2.35	Inches water column	VSD	N
AH-3	1	4,992.17	15,000	Static Pressure	7.1	Inches water column	VSD	11,000	Static Pressure	2.67	Inches water column	VSD	N

[2] *Status: N - New, A - Altered, E - Existing*

H2.FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
			Supply Fan					Return/Relief Fan					
Name or Item Tag	**Qty**	**Design OA CFM**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**Status[1]**
AH-4 Pharmacy	1	1,502.88	8,000	Static Pressure	7.35	Inches water column	VSD	4,500	Static Pressure	2.61	Inches water column	VSD	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	**Zone Name(s)**	**Qty**	**CFM**	**Motor BHP**	**Power Per Flow (W/cfm)**	**Total Static Pressure (in H2O)**	**Status[1]**
Pump Rm Exhaust	Zn Pump (MEP)_PH	1	2000	0.71	0.31	1.47	N
Pharmacy Exhaust	Zn Retail Pharmacy_L1	1	8000	9.7	0.95	5	N
Hot Lab Exhaust	Zn Hot Lab B_B	1	1500	2.85	1.57	7.84	N
MRI Exhaust	Zn MRI_B	1	1200	0.95	0.66	3.27	N

[1] *Status: N - New, A - Altered, E - Existing*

H4. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10
Name or Item Tag	**Equipment Type**	**Parent Fluid System Name**	**Qty**	**Vol (gal)**	**Rated Capacity**	**Capacity Unit**	**Rating**	**Rating Unit**	**Status[1]**
ASHP-1 (Cooling)	Screw	CHW Loop	1	N/A	1,850.4	kBtu/Hr	10.32	EER	N
ASHP-2 (Cooling)	Screw	CHW Loop	1	N/A	1,850.4	kBtu/Hr	10.32	EER	N
ASHP-3 (Cooling)	Screw	CHW Loop	1	N/A	1,850.4	kBtu/Hr	10.32	EER	N
HRHP-1 (Cooling)	Screw	CHW Loop	1	N/A	1,461.6	kBtu/Hr	10.98	EER	N

[1] *Status: N - New, A - Altered, E - Existing*

H4. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10
Name or Item Tag	**Equipment Type**	**Parent Fluid System Name**	**Qty**	**Vol (gal)**	**Rated Capacity**	**Capacity Unit**	**Rating**	**Rating Unit**	**Status[1]**
HRHP-2 (Cooling)	Screw	CHW Loop	1	N/A	1,461.6	kBtu/Hr	10.98	EER	N
ASHP-1	Air-to-Water Heat Pump	HHW Loop	1	400	1,370	kBtu/Hr	1.97	COP	N
ASHP-2	Air-to-Water Heat Pump	HHW Loop	1	400	1,370	kBtu/Hr	1.97	COP	N
ASHP-3	Air-to-Water Heat Pump	HHW Loop	1	400	1,370	kBtu/Hr	1.97	COP	N
HRHP-1	Air-to-Water Heat Pump	HHW Loop	1	400	1,074	kBtu/Hr	1.9	COP	N
HRHP-2	Air-to-Water Heat Pump	HHW Loop	1	400	1,074	kBtu/Hr	1.9	COP	N

[1] *Status: N - New, A - Altered, E - Existing*

H5. PUMPS

1	2	3	4	5	6	7	8
Name or Item Tag	**Parent Equipment**	**Qty**	**Power Units**	**Power**	**GPM**	**VSD**	**Status[1]**
SHWP-1	ASHP-1	1	HP	7.5	200	Variable Speed	N
SHWP-2	ASHP-2	1	HP	7.5	200	Variable Speed	N
SHWP-3	ASHP-3	1	HP	7.5	200	Variable Speed	N
SCHWP-1	ASHP-1 (Cooling)	1	HP	15	475	Variable Speed	N
SCHWP-2	ASHP-2 (Cooling)	1	HP	15	475	Variable Speed	N
SCHWP-3	ASHP-3 (Cooling)	1	HP	15	475	Variable Speed	N

[1] *Status: N - New, A - Altered, E - Existing*

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ISSUED FOR | REV | DATE

FINAL DEVELOPMENT PERMIT — 09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
MECHANICAL TITLE 24 COMPLIANCE

5622062
PROJECT NUMBER

M1.1.1
SHEET NUMBER

SCALE: NONE

Plot Date: 12/1/2022 4:21:02 PM Author

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H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	System Type	Window Interlocks per 140.4(n)	Other Special Features and Controls
HHW Loop	Hot Water System	N/A	DDC Controls Fixed Temperature Control
CHW Loop	Chilled Water System	N/A	DDC Controls Fixed Temperature Control
DHW Loop	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Pump (MEP)_PH OSHPD ventilation	Misc - Telephone closets	1.2	120.12	2,000	800.8	N/A
Zn Corridor 5_L5 OSHPD ventilation	NA General - Corridors Misc - Telephone closets Exhaust - Toilets, public	9.45	267.77	200	2,029.44	N/A
Zn Corridor 4_L5 OSHPD ventilation	General - Corridors	6.04	181.27	0	1,208.47	N/A
Zn Corridor 2_L5 OSHPD ventilation	Misc - Telephone closets Exhaust - Toilets, public General - Corridors	6.46	129.17	500	1,371.2	N/A
Zn IV Prep_L5 OSHPD ventilation	Misc - All others	7.14	714.24	2,142.71	1,428.47	N/A
Zn Corridor 1_L5 OSHPD ventilation	General - Corridors	9.08	908.18	0	1,816.32	N/A
Zn Clean Utl_L5 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.41	205.12	820.47	410.23	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Offices_L5 OSHPD ventilation	Office - Office space	2.39	71.81	0	478.71	N/A
Zn Supply Sto_L5 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.66	0	1,323.53	661.76	N/A
Zn Workstation_L5 OSHPD ventilation	NA Office - Office space	4.29	429.44	0	858.87	N/A
Zn Exam/Blood 3 OSHPD ventilation	Misc - All others	1.8	180.4	541.2	360.8	N/A
Zn Rn Station 2_L5 OSHPD ventilation	Misc - All others Exhaust - Toilets, public	4.86	115.92	100	971.2	N/A
Zn Exam/Blood 2_L5 OSHPD ventilation	Misc - All others	0.74	73.92	221.76	147.84	N/A
Zn Exam/Blood_L5 OSHPD ventilation	Misc - All others	2.67	266.8	800.41	533.6	N/A
Zn Team Workroom_L5 OSHPD ventilation	Office - Office space Exhaust - Toilets, public	4.32	90.72	300	864.32	N/A
Zn Registration_L5 OSHPD ventilation	General - Break rooms	11.9	53.57	0	357.12	DCV
Zn CNSLT Rm_L5 OSHPD ventilation	Exhaust - Toilets, public Misc - All others	1.45	144.72	350.56	289.44	N/A
Zn RN Staitions_L5 OSHPD ventilation	Misc - All others	3.83	383.04	0	766.09	N/A
Zn Work Island 4_L5 OSHPD ventilation	Office - Office space	3.34	333.6	0	667.2	N/A
Zn Work Island 3_L5 OSHPD ventilation	Office - Office space	9.69	969.27	0	1,938.56	N/A
Zn Work Island 2_L5 OSHPD ventilation	Office - Office space	3.77	376.96	0	753.92	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Work Island 1_L5 OSHPD ventilation	Office - Office space	3.42	341.6	0	683.2	N/A
Zn Waiting Area 2_L5 OSHPD ventilation	General - Break rooms	29.87	448	0	896	DCV
Zn IDF_L5 OSHPD ventilation	Misc - Telephone closets NA	0.26	25.92	0	172.8	N/A
Zn Waiting Area_L5 OSHPD ventilation	NA General - Break rooms	16.99	254.8	0	509.6	DCV
Zn Office 2_L5 OSHPD ventilation	Office - Office space	10.78	1,078	0	2,156	N/A
Zn Staff Lounge_L5 OSHPD ventilation	General - Break rooms	14.82	222.24	888.95	444.48	DCV
Zn Work Core 4_L3 OSHPD ventilation	Office - Office space	4.39	131.78	0	878.56	N/A
Zn Work Core 3_L3 OSHPD ventilation	Office - Office space	4.03	120.91	0	806.08	N/A
Zn Meds Sto_L3 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.39	0	772.8	386.4	N/A
Zn Exam Rm 5 _L3 OSHPD ventilation	Misc - All others	5.86	586.07	0	1,172.16	N/A
Zn Waiting Area 2 _L3 OSHPD ventilation	General - Break rooms Exhaust - Toilets, public General - Corridors	40.53	1,585.61	313.12	3,029.13	DCV
Zn Ultrasound 2 _L3 OSHPD ventilation	Misc - All others General - Corridors	7.06	503.12	320	1,412.8	N/A
Zn Ultrasound _L3 OSHPD ventilation	Misc - All others	0.99	99.2	0	198.4	N/A
Zn Elec _L3 OSHPD ventilation	NA Misc - Telephone closets	0.16	16.2	0	108	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn IDF _L3 OSHPD ventilation	Misc - Telephone closets	0.26	25.92	0	172.8	N/A
Zn Staff Lounge _L3 OSHPD ventilation	General - Break rooms	12.54	188.16	752.63	376.32	DCV
Zn Open Work 3 _L3 OSHPD ventilation	Office - Office space	1	99.84	0	199.68	N/A
Zn Open Work 2 _L3 OSHPD ventilation	Office - Office space	1.91	191.36	0	382.72	N/A
Zn Office 3 _L3 OSHPD ventilation	Office - Office space	1.35	135.2	0	270.4	N/A
Zn Open Work _L3 OSHPD ventilation	Office - Office space General - Corridors	7.02	338.85	0	1,404.81	N/A
Zn Office 2 _L3 OSHPD ventilation	Office - Office space	1.29	128.96	0	257.92	N/A
Zn Procedure Rm 2 _L3 OSHPD ventilation	Misc - All others	1.54	153.68	461.04	307.36	N/A
Zn Office 1 _L3 OSHPD ventilation	Office - Office space	1.97	196.8	0	393.6	N/A
Zn Corridor 3 _L3 OSHPD ventilation	General - Corridors Exhaust - Toilets, public General - Break rooms	25.89	445.32	750	2,785.12	N/A
Zn Clean Util 2 _L3 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.13	64.96	259.84	129.92	N/A
Zn Procedure Rm _L3 OSHPD ventilation	Misc - All others Exhaust - Toilets, public	1.69	168.64	445.03	337.28	N/A
Zn CNSL Rm _L3 OSHPD ventilation	Misc - All others	0.74	37.12	296.96	148.48	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Exam Rm (8)_L3 OSHPD ventilation	Exhaust - Storage rooms, chemical Misc - All others Exhaust - Toilets, public	6.22	728.56	580.88	1,457.11	N/A
Zn Work Core 2_L3 OSHPD ventilation	Office - Office space	4.2	125.9	0	839.36	N/A
Zn Work Core 1_L3 OSHPD ventilation	Office - Office space	3.77	113.14	0	754.24	N/A
Zn Meds_L3 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.22	112.32	449.27	224.64	N/A
Zn Exam Rms (7)_L3 OSHPD ventilation	Misc - All others Exhaust - Toilets, public	5.38	537.61	50	1,075.21	N/A
Zn Prob Proc_L3 OSHPD ventilation	Office - Office space Misc - All others	1.46	146.32	450.72	292.64	N/A
Zn Exam Rm 2_L3 OSHPD ventilation	Misc - All others	1.54	153.92	0	307.84	N/A
Zn Exam Rms (6)_L3 OSHPD ventilation	Misc - All others Exhaust - Storage rooms, chemical	5.27	586.07	296	1,172.15	N/A
Zn Elec 2_L3 OSHPD ventilation	Misc - Telephone closets	0.3	29.86	0	199.04	N/A
Zn Waiting Rm_L3 OSHPD ventilation	General - Break rooms	37.25	558.7	0	1,117.44	DCV
Zn Conference Rm_L3 OSHPD ventilation	General - Conference/meeting	14.68	220.16	0	440.33	DCV
Zn Corridor 3_L2 OSHPD ventilation	General - Corridors	23.7	1,500.46	0	4,739.39	N/A
Zn Restration 2_L2 OSHPD ventilation	General - Break rooms	8.19	147.45	0	245.76	DCV

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Workstation 4_L2 OSHPD ventilation	Office - Office space Exhaust - Toilets, public	3.67	181.25	300	734.72	N/A
Zn Semi-rest corridor_L2 OSHPD ventilation	Exhaust - Storage rooms, chemical General - Corridors Misc - Warehouses	10.25	1,358.35	1,227.52	2,583.2	N/A
Zn OR 4_L2 OSHPD ventilation	Misc - All others	3.26	781.63	0	651.36	N/A
Zn OR 3_L2 OSHPD ventilation	Misc - All others	3.2	768.38	0	640.31	N/A
Zn OR 2_L2 OSHPD ventilation	Misc - All others General - Corridors	6.04	1,090.93	0	1,207.2	N/A
Zn OR 1_L2 OSHPD ventilation	Misc - All others	3.16	758.97	0	632.48	N/A
Zn Workstation 3_L2 OSHPD ventilation	Office - Office space	1.04	124.32	0	207.2	N/A
Zn Prep/RCVR_L2 OSHPD ventilation	Misc - All others Exhaust - Toilets, public Exhaust - Storage rooms, chemical	2.34	501.12	1,401.36	835.2	N/A
Zn ISO Prep_L2 OSHPD ventilation	Misc - All others	3.71	445.54	1,419.27	742.56	N/A
Zn Deboxing_L2 OSHPD ventilation	Exhaust - Storage rooms, chemical Exhaust - Toilets, public	0.93	161.28	306.09	268.8	N/A
Zn Workstation_L2 OSHPD ventilation	Office - Office space	1.43	172.03	0	286.72	N/A
Zn Elec 2_L2 OSHPD ventilation	NA Misc - Telephone closets	0.3	29.74	0	198.24	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn DirtyEQ_L2 OSHPD ventilation	Exhaust - Storage rooms, chemical Misc - All others	2.05	155.71	3,096.31	1,548.16	N/A
Zn Clean EQ_L2 OSHPD ventilation	Exhaust - Storage rooms, chemical	1.95	1,172.15	3,907.16	1,953.58	N/A
Zn Work RM_L2 OSHPD ventilation	Office - Office space	0.7	84	0	140	N/A
Zn HSKP_L2 OSHPD ventilation	Misc - All others Exhaust - Toilets, public	0.7	84.48	190.8	140.8	N/A
Zn Phys Dictation_L2 OSHPD ventilation	Misc - All others	1.32	158.68	528.96	264.48	N/A
Zn Lactation Rm_L2 OSHPD ventilation	Office - Office space	0.58	69.12	0	115.2	N/A
Zn Staff Lounge_L2 OSHPD ventilation	General - Break rooms	11.37	204.67	682.23	341.12	DCV
Zn Office MGR_L2 OSHPD ventilation	Office - Office space	1.69	202.27	0	337.12	N/A
Zn Waiting Area_L2 OSHPD ventilation	General - Corridors Exhaust - Toilets, public General - Break rooms	35.71	561.79	500	2,063.36	DCV
Zn Elec_L2 OSHPD ventilation	Misc - Telephone closets	0.17	16.85	0	112.32	N/A
Zn IDF_L2 OSHPD ventilation	Misc - Telephone closets	0.26	25.92	0	172.8	N/A
Zn Recovery Rm_L2 OSHPD ventilation	Misc - All others	10.34	1,241.28	0	2,068.8	N/A
Zn EVS_M OSHPD ventilation	Misc - Telephone closets	0.3	29.95	399.35	199.67	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Storage_M OSHPD ventilation	Exhaust - Storage rooms, chemical	0.71	195.36	1,144.81	713.13	N/A
Zn Facility Mgmt_M OSHPD ventilation	Office - Office space Exhaust - Storage rooms, chemical	1.43	30.5	828.8	617.76	N/A
Zn Work Station_M OSHPD ventilation	Office - Office space Exhaust - Toilets, public	1.3	26.93	50	260.48	N/A
Zn Lobby_M OSHPD ventilation	Office - Main entry lobbies General - Corridors	15.57	246.68	0	615.68	DCV
Zn Corridor 2_M OSHPD ventilation	General - Corridors	16.37	491.01	0	3,273.4	N/A
Zn Fire Pump Rmr_M OSHPD ventilation	Misc - Telephone closets	0.27	27.05	360.63	180.32	N/A
Zn West Lobby_M OSHPD ventilation	NA Office - Main entry lobbies General - Corridors	72.25	1,141.82	0	2,826.4	DCV
Zn MEP Rm 1_M OSHPD ventilation	Misc - Telephone closets	6.48	648.48	8,646.43	4,323.22	N/A
Zn IDF_M OSHPD ventilation	Misc - Telephone closets	0.26	26.4	0	176	N/A
Zn El Control Rm_M OSHPD ventilation	Misc - Telephone closets	0.2	19.97	0	133.12	N/A
Zn EM Elec Rm_M OSHPD ventilation	Misc - Telephone closets	2.15	215.04	0	1,433.6	N/A
Zn Main Elec Rm_M OSHPD ventilation	Misc - Telephone closets General - Corridors	6.29	414.43	4,300.81	2,762.88	N/A
Zn Cafe Corridor_L1 OSHPD ventilation	General - Corridors	14.26	1,139.96	0	2,851.66	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Lobby_L1 OSHPD ventilation	Office - Main entry lobbies	48.81	780.98	0	1,464.32	DCV
Zn Storage_L1 OSHPD ventilation	Exhaust - Storage rooms, chemical	0.13	67.58	253.44	126.72	N/A
Zn Waiting Area 2_L1 OSHPD ventilation	NA General - Break rooms Exhaust - Toilets, public	19.08	256.77	500	1,088.16	DCV
Zn Vestibule_L1 OSHPD ventilation	General - Corridors	0.73	21.84	0	145.6	N/A
Zn Retail_L1 OSHPD ventilation	Retail - Sales	21.02	630.4	5,043.19	2,521.6	N/A
Zn Cafe_L1 OSHPD ventilation	Food Service - Cafeteria/fast-food dining	29.81	134.13	1,788.44	894.22	DCV
Zn Retail Pharmacy_L1 OSHPD ventilation	Misc - Pharmacy (preparation area)	12.67	1,351.26	8,000	2,533.6	N/A
Zn Public Waiting_L1 OSHPD ventilation	General - Break rooms Exhaust - Toilets, public NA	36.08	569.18	100	1,168	DCV
Zn Lab Blood Draw_L1 OSHPD ventilation	NA General - Corridors Misc - All others	24.75	2,406.95	8,684.82	4,949.13	N/A
Zn Corridor North_B OSHPD ventilation	General - Corridors	8.71	261.25	0	1,741.67	N/A
Zn Corridor East_B OSHPD ventilation	General - Corridors	7.34	220.29	0	1,468.57	N/A
Zn Corridor South_B OSHPD ventilation	General - Corridors	10.02	300.53	0	2,003.54	N/A
Zn Corridor West_B OSHPD ventilation	General - Corridors	9.23	277.01	0	1,846.72	N/A

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SHEET TITLE
MECHANICAL TITLE 24 COMPLIANCE

5622062
PROJECT NUMBER

M1.1.2
SHEET NUMBER
SCALE: NONE

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H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Waiting Area_B OSHPD ventilation	Exhaust - Toilets, public Misc - All others General - Break rooms General - Corridors	36.43	267.33	2,000	2,653.28	DCV
Zn EVS/Elec_B OSHPD ventilation	Misc - Telephone closets	0.19	19.34	0	128.96	N/A
Zn X-Ray Rm_B OSHPD ventilation	Misc - All others	1.8	167.55	502.66	359.04	N/A
Zn CT Simulation_B OSHPD ventilation	Misc - All others	2.74	256.18	768.55	548.96	N/A
Zn Control Rm E_B OSHPD ventilation	Misc - All others	0.56	52.27	0	112	N/A
Zn Locker Rooms (WM)_B OSHPD ventilation	Exhaust - Toilets, public Exhaust - All other locker rooms General - Break rooms	25.59	47.04	3,934.4	1,872.8	DCV
Zn Work Room_B OSHPD ventilation	Office - Office space Exhaust - Toilets, public	5.54	129.36	1,000	1,108.8	N/A
Zn Clinical Office B_B OSHPD ventilation	Office - Office space	2.5	74.88	0	499.2	N/A
Zn Clinical Office_B OSHPD ventilation	Office - Office space	1.01	30.19	0	201.28	N/A
Zn Exam Rooms B(3)_B OSHPD ventilation	Misc - All others	2.12	198.01	0	424.31	N/A
Zn Nurse Rm_B OSHPD ventilation	Misc - All others	1.79	89.64	717.12	358.56	N/A
Zn Soiled Util_B OSHPD ventilation	Misc - All others Exhaust - Storage rooms, chemical	2.84	264.68	888.97	868.79	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn ELEC_B OSHPD ventilation	Misc - Telephone closets	0.17	17.11	0	114.08	N/A
Zn MRI Control_B OSHPD ventilation	Misc - All others	2.51	234.38	0	502.24	N/A
Zn Control Rm C_B OSHPD ventilation	Misc - All others Exhaust - Storage rooms, chemical	1.54	133.05	233.28	401.76	N/A
Zn Control Rm B_B OSHPD ventilation	Misc - All others	0.71	66.53	0	142.56	N/A
Zn Control Rm A_B OSHPD ventilation	NA Misc - All others	0.71	66.53	0	142.56	N/A
Zn Linac Eq_B OSHPD ventilation	Exhaust - Storage rooms, chemical	0.12	54.43	233.28	116.64	N/A
Zn IDF_B OSHPD ventilation	General - Corridors Misc - Telephone closets	1.62	68.4	0	456	N/A
Zn Lactation Rm_B OSHPD ventilation	Office - Main entry lobbies Office - Office space	7.8	50.4	0	336	DCV
Zn Conf Rm_B OSHPD ventilation	General - Conference/meeting	10.09	45.41	0	302.72	DCV
Zn Staff Lounge_B OSHPD ventilation	General - Break rooms	9.12	136.8	547.2	273.6	N/A
Zn Linac A_B OSHPD ventilation	Misc - All others	14.6	1,362.6	0	2,919.85	N/A
Zn Future Vault_B OSHPD ventilation	Misc - Telephone closets	1.69	524.98	0	1,124.96	N/A
Zn MRI_B OSHPD ventilation	Misc - All others	3.36	313.97	1,200	672.8	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn MRI Equipment Rm_B OSHPD ventilation	Misc - All others	1.21	112.6	0	241.28	N/A
Zn Pipe Entry_B OSHPD ventilation	Misc - All others	1.87	174.72	748.81	374.4	N/A
Zn Clean Util_B OSHPD ventilation	General - Corridors Misc - All others Exhaust - Storage rooms, chemical	2.37	263.12	707.2	669.12	N/A
Zn Hot Exam (5)_B OSHPD ventilation	Misc - All others Exhaust - Storage rooms, chemical	3.96	405	188.17	867.84	N/A
Zn CT Equipment_B OSHPD ventilation	Exhaust - Storage rooms, chemical	0.25	118.27	506.87	253.44	N/A
Zn Control Rm 2_B OSHPD ventilation	Misc - Telephone closets	0.14	44.35	0	95.04	N/A
Zn Control Rm_B OSHPD ventilation	Misc - Telephone closets	0.22	68.1	0	145.92	N/A
Zn Pet/CT_B OSHPD ventilation	Misc - All others	2.44	73.27	976.96	488.48	N/A
Zn Spect CT_B OSHPD ventilation	Misc - All others	2.39	445.31	954.24	477.12	N/A
Zn Play Room_L1 OSHPD ventilation	General - Conference/meeting	8.15	36.67	0	244.48	DCV
Zn Hot Lab B_B OSHPD ventilation	Misc - All others	1.24	231.77	1,500	248.32	N/A
Zn Linac EQ B_B OSHPD ventilation	Exhaust - Storage rooms, chemical	0.19	0	380.16	190.08	N/A
Zn Endoscopy_L2 OSHPD ventilation	Misc - All others	3.99	479.23	1,437.69	798.72	N/A

H7. NON-RESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation				Conditioned Floor Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Elevator Lobby_L3 OSHPD ventilation	General - Corridors	1.27	38.16	0	254.4	N/A
Zn Corridor 2_L3 OSHPD ventilation	General - Corridors	3.74	112.1	0	747.36	N/A
Zn El Lobby_L5 OSHPD ventilation	General - Corridors	1.27	38.16	0	254.4	N/A
Zn Office_L5 OSHPD ventilation	Office - Office space	1.47	146.88	0	293.76	N/A
Zn Corridor 3_L5 OSHPD ventilation	General - Corridors	2.12	212.32	0	424.64	N/A

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-LL-1	Variable Air Volume Reheat Box	1	26.1	N/A	1,790	445	0.25	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-2	Variable Air Volume Reheat Box	1	6.8	N/A	570	145	0.25	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-3	Variable Air Volume Reheat Box	1	18.1	N/A	450	450	1	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-4	Variable Air Volume Reheat Box	1	33.1	N/A	3,000	1,500	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-5	Variable Air Volume Reheat Box	1	7.9	N/A	760	430	0.57	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-6	Variable Air Volume Reheat Box	1	2.9	N/A	320	160	0.5	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-LL-7	Variable Air Volume Reheat Box	1	5.1	N/A	5,410	4,125	0.76	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-8	Variable Air Volume Reheat Box	1	2	N/A	110	110	1	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-9	Variable Air Volume Reheat Box	1	3	N/A	330	165	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-10	Variable Air Volume Reheat Box	1	26.3	N/A	3,100	1,550	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-11	Variable Air Volume Reheat Box	1	5.2	N/A	570	320	0.56	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-12	Variable Air Volume Reheat Box	1	4.4	N/A	265	265	1	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-13	Variable Air Volume Reheat Box	1	15.2	N/A	700	700	1	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-14	Variable Air Volume Reheat Box	1	23.3	N/A	1,190	930	0.78	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-15	Variable Air Volume Reheat Box	1	12.8	N/A	600	435	0.72	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-16	Variable Air Volume Reheat Box	1	11.1	N/A	500	380	0.76	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-17	Variable Air Volume Reheat Box	1	7.7	N/A	840	420	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-18	Variable Air Volume Reheat Box	1	22.9	N/A	2,340	1,170	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-19	Variable Air Volume Reheat Box	1	12.5	N/A	680	680	1	6.1	Inches water column	N/A	Variable Speed
STU-1-LL-20	Variable Air Volume Reheat Box	1	4.8	N/A	620	620	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-LL-ELEC	Variable Air Volume No Reheat Box	1	N/A	N/A	270	45	0.17	6.1	Inches water column	N/A	Variable Speed
STU-1-B1-1	Variable Air Volume Reheat Box	1	16.9	N/A	920	920	1	6.1	Inches water column	N/A	Variable Speed
FPB-1-B1-2	Variable Air Volume Reheat Box	1	12.9	N/A	950	475	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-B1-3	Variable Air Volume Reheat Box	1	4	N/A	220	140	0.64	6.1	Inches water column	N/A	Variable Speed
STU-1-B2-1	Variable Air Volume No Reheat Box	1	N/A	N/A	3,750	700	0.19	6.1	Inches water column	N/A	Variable Speed
STU-1-B2-2	Variable Air Volume Reheat Box	1	11.7	N/A	510	510	1	6.1	Inches water column	N/A	Variable Speed
STU-1-B2-4	Variable Air Volume Reheat Box	1	4.3	N/A	470	235	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L1-1	Variable Air Volume Reheat Box	1	22.9	N/A	5,070	3,435	0.68	6.1	Inches water column	N/A	Variable Speed
STU-1-L1-3	Variable Air Volume Reheat Box	1	8.4	N/A	920	460	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L1-11	Variable Air Volume Reheat Box	1	33.8	N/A	2,060	1,625	0.79	6.1	Inches water column	N/A	Variable Speed
STU-1-L1-6	Variable Air Volume Reheat Box	1	6.3	N/A	540	345	0.64	6.1	Inches water column	N/A	Variable Speed
STU-1-L2-1	Variable Air Volume Reheat Box	1	27.9	N/A	1,430	1,430	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L2-2	Variable Air Volume Reheat Box	1	29.7	N/A	1,490	1,490	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L2-3	Variable Air Volume Reheat Box	2	16.9	N/A	920	920	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-L2-4	Variable Air Volume Reheat Box	1	12.6	N/A	500	500	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L2-5	Variable Air Volume Reheat Box	1	5	N/A	270	270	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L2-ELEC	Variable Air Volume No Reheat Box	1	N/A	N/A	920	190	0.21	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-1	Variable Air Volume Reheat Box	2	51.2	N/A	3,440	1,885	0.55	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-2 18	Variable Air Volume Reheat Box	2	19.8	N/A	1,080	1,080	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-3	Variable Air Volume Reheat Box	2	13.8	N/A	1,020	510	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-4	Variable Air Volume Reheat Box	2	5	N/A	370	184	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-5	Variable Air Volume Reheat Box	2	2.8	N/A	210	154	0.73	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-6 7	Variable Air Volume Reheat Box	2	8.7	N/A	610	305	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-8	Variable Air Volume Reheat Box	2	6.3	N/A	440	220	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-9	Variable Air Volume Reheat Box	2	0.8	N/A	90	45	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-10	Variable Air Volume Reheat Box	2	5.8	N/A	410	410	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-11	Variable Air Volume Reheat Box	2	3.8	N/A	410	205	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-12	Variable Air Volume Reheat Box	2	4.3	N/A	470	235	0.5	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-L3-13 19	Variable Air Volume Reheat Box	2	16.7	N/A	940	910	0.97	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-14	Variable Air Volume Reheat Box	2	2.4	N/A	130	130	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-15	Variable Air Volume Reheat Box	2	5.8	N/A	410	410	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-16	Variable Air Volume Reheat Box	2	13.4	N/A	730	730	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-17	Variable Air Volume Reheat Box	2	9.8	N/A	800	400	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-20	Variable Air Volume Reheat Box	2	5.8	N/A	410	410	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L3-ELEC	Variable Air Volume No Reheat Box	2	N/A	N/A	420	90	0.21	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-1	Variable Air Volume Reheat Box	1	16.4	N/A	1,270	635	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-2	Variable Air Volume Reheat Box	1	37.3	N/A	2,030	2,030	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-3	Variable Air Volume Reheat Box	1	31.1	N/A	2,370	1,185	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-4	Variable Air Volume Reheat Box	1	29.3	N/A	2,180	1,090	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-5	Variable Air Volume Reheat Box	1	34.2	N/A	1,820	1,820	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-6	Variable Air Volume Reheat Box	1	16.2	N/A	760	680	0.89	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-7	Variable Air Volume Reheat Box	1	6.1	N/A	330	330	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-1-L5-8	Variable Air Volume Reheat Box	1	6.1	N/A	180	90	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-9	Variable Air Volume Reheat Box	1	6.1	N/A	330	330	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-10	Variable Air Volume Reheat Box	1	5.6	N/A	615	308	0.5	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-11	Variable Air Volume Reheat Box	1	7.3	N/A	370	370	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-12	Variable Air Volume Reheat Box	1	8.1	N/A	440	440	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-13	Variable Air Volume Reheat Box	1	5.2	N/A	268	268	1	6.1	Inches water column	N/A	Variable Speed
STU-1-L5-ELEC	Variable Air Volume No Reheat Box	1	N/A	N/A	620	145	0.23	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-1	Variable Air Volume Reheat Box	1	27.7	N/A	9,840	4,920	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-2	Variable Air Volume Reheat Box	1	27.7	N/A	2,460	1,365	0.55	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-6	Variable Air Volume Reheat Box	1	7.7	N/A	840	420	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-7	Variable Air Volume Reheat Box	1	1.1	N/A	90	60	0.67	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-8	Variable Air Volume Reheat Box	1	9.9	N/A	480	240	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-9	Variable Air Volume Reheat Box	1	4.4	N/A	240	240	1	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-10	Variable Air Volume Reheat Box	1	6.7	N/A	600	365	0.61	6.1	Inches water column	N/A	Variable Speed

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NOT FOR CONSTRUCTION

SHEET TITLE
MECHANICAL TITLE 24 COMPLIANCE

PROJECT NUMBER
5622062

SHEET NUMBER
M1.1.3

SCALE: NONE

Plot Date: 12/1/2022 4:21:06 PM Author

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H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-2-LL-11	Variable Air Volume Reheat Box	1	15.7	N/A	950	855	0.9	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-12	Variable Air Volume Reheat Box	1	2.6	N/A	280	140	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-13	Variable Air Volume Reheat Box	1	0.8	N/A	90	45	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-14	Variable Air Volume Reheat Box	1	1.4	N/A	150	75	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-17	Variable Air Volume Reheat Box	1	36	N/A	1,180	1,180	1	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-18	Variable Air Volume Reheat Box	1	20.1	N/A	750	750	1	6.1	Inches water column	N/A	Variable Speed
STU-2-LL-IDF	Variable Air Volume No Reheat Box	1	N/A	N/A	1,300	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-2-B1-1	Variable Air Volume Reheat Box	1	7.4	N/A	450	225	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-B1-2	Variable Air Volume Reheat Box	1	20.2	N/A	1,670	835	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-B2-1	Variable Air Volume No Reheat Box	1	N/A	N/A	1,910	420	0.22	6.1	Inches water column	N/A	Variable Speed
STU-2-B2-2	Variable Air Volume No Reheat Box	1	N/A	N/A	880	190	0.22	6.1	Inches water column	N/A	Variable Speed
STU-2-B2-3	Variable Air Volume Reheat Box	1	20.6	N/A	1,210	1,210	1	6.1	Inches water column	N/A	Variable Speed
STU-2-B2-IDF	Variable Air Volume No Reheat Box	1	N/A	N/A	1,310	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-2-L1-3 and 4	Variable Air Volume Reheat Box	1	25.9	N/A	1,260	1,260	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-2-L1-5	Variable Air Volume Reheat Box	1	11.4	N/A	620	620	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L1-6	Variable Air Volume Reheat Box	1	3.5	N/A	210	105	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L1-7	Variable Air Volume Reheat Box	1	15.4	N/A	690	690	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L1-8	Variable Air Volume Reheat Box	1	30.8	N/A	2,070	1,140	0.55	6.1	Inches water column	N/A	Variable Speed
STU-2-L1-9-11	Variable Air Volume Reheat Box	1	9.3	N/A	930	630	0.68	6.1	Inches water column	N/A	Variable Speed
STU-2-L1_IDF	Variable Air Volume No Reheat Box	1	N/A	N/A	1,300	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-1	Variable Air Volume Reheat Box	1	34.5	N/A	1,380	1,380	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-2 and 7	Variable Air Volume Reheat Box	1	22.3	N/A	1,140	1,140	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-3	Variable Air Volume Reheat Box	1	4.4	N/A	210	210	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-4	Variable Air Volume Reheat Box	1	23.8	N/A	1,170	1,170	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-5	Variable Air Volume Reheat Box	1	5.9	N/A	320	320	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-6	Variable Air Volume Reheat Box	1	1.7	N/A	185	181	0.98	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-7	Variable Air Volume Reheat Box	1	8.4	N/A	1,500	1,500	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-8	Variable Air Volume Reheat Box	1	22.5	N/A	1,080	1,080	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-2-L2-9	Variable Air Volume Reheat Box	1	17.8	N/A	970	970	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-10	Variable Air Volume Reheat Box	1	5.9	N/A	440	220	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L2-IDF	Variable Air Volume No Reheat Box	1	N/A	N/A	1,300	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-1 6	Variable Air Volume Reheat Box	2	20.2	N/A	1,100	1,100	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-2	Variable Air Volume No Reheat Box	2	N/A	N/A	320	160	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-3	Variable Air Volume Reheat Box	2	15.1	N/A	790	630	0.8	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-4 5	Variable Air Volume Reheat Box	2	17.8	N/A	970	970	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-7	Variable Air Volume Reheat Box	2	2.4	N/A	130	130	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-8	Variable Air Volume Reheat Box	2	5.6	N/A	410	205	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-9	Variable Air Volume Reheat Box	2	32.2	N/A	1,720	1,720	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-10	Variable Air Volume Reheat Box	2	9.4	N/A	580	345	0.59	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-11	Variable Air Volume Reheat Box	2	6.8	N/A	490	245	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-12	Variable Air Volume Reheat Box	2	10.5	N/A	880	440	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-13	Variable Air Volume Reheat Box	2	6.3	N/A	390	345	0.88	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-2-L3-14	Variable Air Volume Reheat Box	2	8.3	N/A	900	503	0.56	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-15	Variable Air Volume Reheat Box	2	3.8	N/A	410	205	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-16	Variable Air Volume Reheat Box	2	4.3	N/A	470	235	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L3-IDF	Variable Air Volume No Reheat Box	2	N/A	N/A	1,300	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-1	Variable Air Volume Reheat Box	1	1	N/A	120	74	0.62	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-2	Variable Air Volume Reheat Box	1	1.6	N/A	170	85	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-3	Variable Air Volume Reheat Box	1	11.7	N/A	840	420	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-4	Variable Air Volume Reheat Box	1	4.7	N/A	340	180	0.53	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-5 6 7	Variable Air Volume Reheat Box	1	38.6	N/A	2,280	1,700	0.75	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-8	Variable Air Volume Reheat Box	1	10.5	N/A	570	570	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-9	Variable Air Volume Reheat Box	1	14.1	N/A	660	660	1	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-10	Variable Air Volume Reheat Box	1	5	N/A	540	270	0.5	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-11	Variable Air Volume Reheat Box	1	3.3	N/A	230	180	0.78	6.1	Inches water column	N/A	Variable Speed
STU-2-L5-12	Variable Air Volume Reheat Box	1	12.5	N/A	680	680	1	6.1	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-2-L5-IDF	Variable Air Volume No Reheat Box	1	N/A	N/A	1,300	190	0.15	6.1	Inches water column	N/A	Variable Speed
STU-3-L2-1	Variable Air Volume Reheat Box	1	26.4	N/A	1,250	1,250	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-3	Variable Air Volume Reheat Box	1	8.3	N/A	410	410	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-4	Variable Air Volume Reheat Box	1	2.9	N/A	200	200	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-5	Variable Air Volume Reheat Box	1	48.2	N/A	2,230	2,230	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-6	Variable Air Volume Reheat Box	1	48.2	N/A	2,230	2,230	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-7	Variable Air Volume Reheat Box	1	48.2	N/A	2,230	2,230	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-8	Variable Air Volume Reheat Box	1	48.2	N/A	2,230	2,230	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-9	Variable Air Volume Reheat Box	1	6.2	N/A	520	260	0.5	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-10	Variable Air Volume Reheat Box	1	14.2	N/A	730	730	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-11	Variable Air Volume Reheat Box	1	6.7	N/A	446	446	1	7.1	Inches water column	N/A	Variable Speed
STU-3-L2-12	Variable Air Volume Reheat Box	1	15.2	N/A	730	730	1	7.1	Inches water column	N/A	Variable Speed
STU-4-L5-1 2 3 4	Variable Air Volume Reheat Box	1	81.5	N/A	5,740	5,740	1	7.35	Inches water column	N/A	Variable Speed
STU-4-L5-5	Variable Air Volume Reheat Box	1	10.3	N/A	560	560	1	7.35	Inches water column	N/A	Variable Speed

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Units	Cycles	VSD
STU-4-L5-6	Variable Air Volume Reheat Box	1	2.1	N/A	150	150	1	7.35	Inches water column	N/A	Variable Speed
STU-4-L5-7	Variable Air Volume Reheat Box	1	15.7	N/A	1,150	1,150	1	7.35	Inches water column	N/A	Variable Speed
STU-4-L5-8	Variable Air Volume Reheat Box	1	2.9	N/A	180	180	1	7.35	Inches water column	N/A	Variable Speed
FCU-LL-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-B2-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-B2-2	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-1-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-1-2	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-2-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-3-1	Four Pipe Fan Coil	2	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-4-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-5-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed
FCU-6-1	Four Pipe Fan Coil	1	1	22.8	850	N/A	N/A	0.5	Inches water column	Continuous	Constant Speed

I1. WATER HEATER EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
DWH-1	Electricity	Storage	1	264	13.75	kW	2.4	COP	N/A	0	N/A	Packaged Heat Pump Water Heater	N/A
DHW-2	Electricity	Storage	2	500	45	kW	1	TE	N/A	0	N/A	Conventional	N/A

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Warehouse	10632.5	4784.6	0	0	0
Convention, Conference, Multipurpose and Meeting Center Areas	1427.85	1213.67	0	0	0
Corridor Area	38764.2	23258.5	0	0	0
Cafeteria/Fastfood	894.22	357.69	0	0	0
Electrical Mechancial Telephone Room	13120.5	5248.19	0	0	0
Exam/Treatment Room	27830	27850.7	0	0	0
Locker Dressing Room	1467.2	660.24	0	0	0

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Lounge Breakroom or Waiting Area	12267.7	7973.99	0	0	0
Main Entry Lobby	4172.32	3546.47	0	0	0
Office 250 square feet or less	1568.48	1097.93	0	0	0
Office greater than 250 square feet	7499.32	4874.56	0	0	0
Office Open Plan	13487.5	8092.51	0	0	0
Pharmacy Area	2533.6	2786.96	0	0	0
Restrooms	7454.25	4845.27	0	0	0
Retail Merchandise Sales	2521.6	2521.6	0	0	0
Stairwell	4025.59	2012.8	0	0	0
Imaging Room	488.48	488.48	0	0	0
Medical Supply Room	1953.13	1074.22	0	0	0
Hospital Nursery	358.56	340.63	0	0	0
Nurse's Station	1715.69	1286.77	0	0	0
Operating Room	3663.19	6960.06	0	0	0
Recovery Room	2068.8	1861.92	0	0	0
Building Totals:	**159915**	**113138**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspecter during construction and can be found at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspecter during construction and can be found at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. NRCA-LTI-03-A - Automatic Daylight Controls. NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A - Constant Volume Single Zone HVAC NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. NRCA-MCH-08-A Valve Leakage Test NRCA-MCH-10-A Hydronic System Variable Flow Controls NRCA-MCH-11-A Automatic Demand Shed Controls NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance NRCA-MCH-16-A Supply Air Temperature Reset Controls

Stanford MEDICINE
Sutter Health
CANCER COLLABORATIVE
Stanford Medicine
Sutter Health
Cancer Center
3023 SUMMIT STREET
OAKLAND, CA 94609

SMITHGROUP
301 BATTERY STREET
7TH FLOOR
SAN FRANCISCO, CA 94111
415.227.0100
smithgroup.com

Southland
UNION CITY CALIFORNIA
94587
510.477.3300
www.southlandind.com

ISSUED FOR | REV | DATE

FINAL DEVELOPMENT PERMIT — 09 DEC 2022

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
MECHANICAL TITLE 24 COMPLIANCE

PROJECT NUMBER
5622062

SHEET NUMBER
M1.1.4

SCALE: NONE

Plot Date: 12/1/2022 4:21:08 PM Author

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 37 of 38)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
	NRCA-MCH-18-A Energy Management Control Systems

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation NRCV-MCH-32 Local Mechanical Exhaust

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 38 of 38)

Documentation Author's Declaration Statement

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

Documentation Author Name: Inna Dolottseva	Documentation Author Signature:
Company: Interface Engineering	Signature Date:
Address: 135 Main St	CEA/HERS Certification Identification (if applicable): -specify-
City/State/Zip: San Francisco , CA 94105	Phone:: 4154893242

Responsible Person's Declaration statement

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

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

Responsible Envelope Designer Name: -specify-	Signature:
Company: -specify-	
Address: -specify-	Date Signed:
City/State/Zip: -specify-, CA 0	Job Title:
Phone: -specify-	License #: -specify-
Responsible Lighting Designer Name: -specify-	Signature:
Company: -specify-	
Address: -specify-	Date Signed:
City/State/Zip: -specify-, CA 0	Job Title:
Phone: -specify-	License #: -specify-
Responsible Mechanical Designer Name: -specify-	Signature:
Company: -specify-	
Address: -specify-	Date Signed:
City/State/Zip: -specify-, CA 0	Job Title:
Phone: -specify-	License #: -specify-

2019 TITLE 24 MECHANICAL MANDATORY MEASURES REQUIREMENTS

1. MANDATORY REQUIREMENTS FOR APPLIANCES [§110.1]
   - A. MUST BE CERTIFIED TO COMPLY WITH TITLE 20 SECTION 1601 AND 1608(a).
   - B. EXCEPT FOR THOSE CIRCUMSTANCES DESCRIBED IN SECTION 110.1(c), CONFORMANCE WITH PART 6-SPECIFIC EFFICIENCY REQUIREMENTS SHALL BE VERIFIED UTILIZING DATA FROM EITHER:
     1. T20 SECTION 1606; OR
     2. AN EQUIVALENT DIRECTORY PUBLISHED BY A FEDERAL AGENCY; OR
     3. AN APPROVED TRADE ASSOCIATION DIRECTORY AS DEFINED BY T20 SECTION 1606(h).
   - C. CONFORMANCE WITH EFFICIENCY LEVELS REQUIRED TO COMPLY WITH PART 6 MANDATORY, PRESCRIPTIVE AND PERFORMANCE STANDARDS SHALL BE DEMONSTRATED EITHER BY DEFAULT TO THE MANDATORY EFFICIENCY LEVELS SPECIFIED IN PART 6 OR BY FOLLOWING PROCEDURES APPROVED BY THE COMMISSION PURSUANT TO SECTION 10-109 OF TITLE 24, PART 1, WHEN:
     1. DATA TO VERIFY CONFORMANCE WITH PART 6 SPECIFIC EFFICIENCY REQUIREMENTS IS NOT AVAILABLE PURSUANT TO SUBDIVISION (b); OR
     2. FIELD VERIFICATION AND DIAGNOSTIC TESTING IS REQUIRED FOR COMPLIANCE WITH PART 6 AND THERE IS NOT AN APPLICABLE FIELD VERIFICATION AND DIAGNOSTIC TEST PROTOCOL AVAILABLE IN PART 6 THAT IS SUITABLE TO THE APPLIANCE; OR
     3. THE APPLIANCE MEETS THE REQUIREMENTS OF SECTION 110.1(a) AND HAS BEEN SITE MODIFIED IN A WAY THAT AFFECTS ITS PERFORMANCE; OR
     4. THE U.S. DEPARTMENT OF ENERGY HAS APPROVED A WAIVER FROM FEDERAL TEST PROCEDURES, PURSUANT TO 10 CFR SECTION 430.27 OR SECTION 431.401 AND THAT WAIVER FAILS TO SPECIFY HOW THE EFFICIENCY OF THE SYSTEM SHALL BE DETERMINED.
2. HEATING EQUIPMENT EFFICIENCY [§110.2(a)]
   - A. TABLE 110.2-A THROUGH TABLE 110.2-K
   - B. HEAT PUMP, AIR COOLED (HTG MODE):
     - a. ≥ 65,000 BTUH & <135,000 BTUH (CLG CAPACITY) 3.3 COP
     - b. ≥ 135,000 BTUH (CLG CAPACITY) 3.2 COP
3. COOLING EQUIPMENT EFFICIENCY [§110.2(a)]
   - A. TABLE 110.2-A THROUGH TABLE 110.2-K
   - B. HEAT PUMP, AIR COOLED (CLG MODE):
     - a. ≥ 65,000 BTUH & <135,000 BTUH 11.0 EER
     - b. ≥ 135,000 BTUH & <240,000 BTUH 10.6 EER
     - c. ≥ 240,000 BTUH 9.5 EER
   - C. AIR CONDITIONER, AIR COOLED.
     - a. ≥ 65,000 BTUH & <135,000 BTUH 11.2 EER
     - b. ≥ 135,000 BTUH & <240,000 BTUH 11.0 EER
     - c. ≥ 240,000 BTUH & <760,000 BTUH 10.0 EER
     - d. ≥ 760,000 BTUH 9.7 EER
4. HVAC OR HEAT PUMP THERMOSTAT [§110.2(b,c)]
   - A. HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEATERS SHALL HAVE CONTROLS:
     - a. THAT PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE.
     - b. IN WHICH THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING IS HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING IS HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING.
   - B. ALL HEATING OR COOLING SYSTEMS NOT CONTROLLED BY A CENTRAL ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) AND NOT LISTED AS AN EXCEPTION SHALL HAVE A SETBACK THERMOSTAT.
     - a. ALL THERMOSTATS SHALL HAVE A CLOCK MECHANISM THAT ALLOWS THE BUILDING OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN 24 HOURS.
5. PIPE INSULATION [§120.3]
   - A. SEE TABLE 120.3-A OR INSULATION THICKNESS EQUATIONS FOR INSULATION WITH A CONDUCTIVITY OUTSIDE THE RANGE SHOWN IN TABLE 120.3-A.
   - B. INSULATION EXPOSED TO WEATHER SHALL BE SUITABLE FOR OUTDOOR SERVICE (PROTECTED BY ALUMINUM, SHEET METAL, PAINTED CANVAS, OR PLASTIC COVER). CELLULAR FOAM INSULATION SHALL BE PROTECTED AS ABOVE OR PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL.
   - C. INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE A VAPOR RETARDANT LOCATED OUTSIDE THE INSULATION (UNLESS THE INSULATION IS INHERENTLY VAPOR RETARDANT), ALL PENETRATIONS AND JOINTS OF WHICH SHALL BE SEALED.
6. AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS [§120.4]
   - A. CMC COMPLIANCE. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL MEET THE REQUIREMENTS OF THE CMC SECTIONS 601.0, 602.0, 603.0, 604.0, 605.0, AND ANSI/SMACNA-006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE 3RD EDITION, INCORPORATED HEREIN BY REFERENCE. CONNECTIONS OF METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS SHALL BE MECHANICALLY FASTENED. OPENINGS SHALL BE SEALED WITH MASTIC, TAPE, AEROSOL SEALANT, OR OTHER DUCT-CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL181A, OR UL 181B. IF MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, THE COMBINATION OF MASTIC AND EITHER MESH OR TAPE SHALL BE USED. ALL DUCT SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8 IN THE FOLLOWING SPACES:
     1. OUTDOORS
     2. IN A SPACE BETWEEN THE ROOF & AN INSULATED CEILING
     3. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES
     4. IN AN UNCONDITIONED CRAWLSPACE
     5. IN OTHER UNCONDITIONED SPACES
        - A. PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.
   - B. DUCT AND PLENUM MATERIALS.
     1. FACTORY-FABRICATED DUCT SYSTEMS.
        - A. ALL FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS, INCLUDING COLLARS, CONNECTIONS, AND SPLICES, AND BE LABELED AS COMPLYING WITH UL 181. UL 181 TESTING MAY BE PERFORMED BY UL LABORATORIES OR A LABORATORY APPROVED BY THE EXECUTIVE DIRECTOR.
        - B. ALL PRESSURE-SENSITIVE TAPES, HEAT-ACTIVATED TAPES, AND MASTICS USED IN THE MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND UL 181A.
        - C. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED WITH FLEXIBLE DUCTS SHALL COMPLY WITH UL 181 AND UL181B.
        - D. JOINTS AND SEAMS OF DUCT SYSTEMS AND THEIR COMPONENTS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS SUCH TAPE IS USED IN COMBINATION WITH MASTIC AND DRAWBANDS.
     2. FIELD-FABRICATED DUCT SYSTEMS.
        - A. FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL PRESSURE-SENSITIVE TAPES, MASTICS, AEROSOL SEALANTS, OR OTHER CLOSURE SYSTEMS USED FOR INSTALLING FIELD-FABRICATED DUCT SYSTEMS SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B.
        - B. MASTIC SEALANTS AND MESH.
          - a. SEALANTS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, AND BE NONTOXIC AND WATER RESISTANT.
          - b. SEALANTS FOR INTERIOR APPLICATIONS SHALL PASS ASTM C731 (EXTRUDABILITY AFTER AGING) AND D2202 (SLUMP TEST ON VERTICAL SURFACES), INCORPORATED HEREIN BY REFERENCE.
          - c. SEALANTS FOR EXTERIOR APPLICATIONS SHALL PASS ASTM C731, C732 (ARTIFICIAL WEATHERING TEST), AND D2202, INCORPORATED HEREIN BY REFERENCE.
          - d. SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE.
        - C. PRESSURE-SENSITIVE TAPE. PRESSURE-SENSITIVE TAPES SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B.
        - D. JOINTS AND SEAMS OF DUCT SYSTEMS AND THEIR COMPONENTS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS SUCH TAPE IS USED IN COMBINATION WITH MASTIC AND DRAWBANDS.
        - E. DRAWBANDS USED WITH FLEXIBLE DUCT.
          - a. DRAWBANDS SHALL BE EITHER STAINLESS-STEEL WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES.
          - b. DRAWBANDS SHALL HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 POUNDS.
          - c. DRAWBANDS SHALL BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AN ADJUSTABLE TENSIONING TOOL.
        - F. AEROSOL-SEALANT CLOSURES.
          - a. AEROSOL SEALANTS SHALL MEET THE REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS.
          - b. TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL MEET THE REQUIREMENTS OF THIS SECTION.
     3. ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY (EXCLUDING AIR FILMS, VAPOR RETARDERS, OR OTHER DUCT COMPONENTS) AND TESTED C-VALUES AT 75°F MEAN TEMPERATURE AT THE INSTALLED THICKNESS, IN ACCORDANCE WITH ASTM C518 OR ASTM C177, INCORPORATED HEREIN BY REFERENCE, AND CERTIFIED PURSUANT TO SECTION 110.8.
     4. THE INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS:
        - A. FOR DUCT BOARD, DUCT LINER, AND FACTORY-MADE RIGID DUCTS NOT NORMALLY SUBJECTED TO COMPRESSION, THE NOMINAL INSULATION THICKNESS SHALL BE USED.
        - B. FOR DUCT WRAP. INSTALLED THICKNESS SHALL BE ASSUMED TO BE 75 PERCENT (25 PERCENT COMPRESSION) OF NOMINAL THICKNESS.
        - C. FOR FACTORY-MADE FLEXIBLE AIR DUCTS, THE INSTALLED THICKNESS SHALL BE DETERMINED BY DIVIDING THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
        - D. INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS, IN MAXIMUM INTERVALS OF 3 FEET, SHOWING THE THERMAL PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF (EXCLUDING AIR FILMS, VAPOR RETARDER, OR OTHER DUCT COMPONENTS), BASED ON THE TESTS IN SECTION 120.4(C) AND THE INSTALLED THICKNESS DETERMINED BY SECTION 120.4(D)3.
     5. PROTECTION OF INSULATION. INSULATION SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE, AND WIND BUT NOT LIMITED TO THE FOLLOWING: INSULATION EXPOSED TO WEATHER SHALL BE SUITABLE FOR OUTDOOR SERVICE E.G., PROTECTED BY ALUMINUM, SHEET METAL, PAINTED CANVAS, OR PLASTIC COVER. CELLULAR FOAM INSULATION SHALL BE PROTECTED AS ABOVE OR PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL.

CALGREEN REQUIREMENTS

1. **ENERGY EFFICIENCY [§§.201.1]**
   - A. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS.
2. **METERS [§§.303.1]**
   - A. NEW BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED:
     1. FOR EACH INDIVIDUAL LEASED, RENTED OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY (380 L/DAY), INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
     2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS.
        - a. MAKEUP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM (30 L/S).
        - b. MAKEUP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM (0.04 L/S).
        - c. STEAM AND HOT WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTU/H (147 KW).
   - B. 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.
3. **WATER CONSERVING PLUMBING FIXTURES AND FITTINGS [§§.303.3]**
   - A. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:
     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.
     2. URINALS:
        - a. WALL-MOUNTED URINALS EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.
        - b. FLOOR-MOUNTED URINALS EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
     3. SHOWERHEADS:
        - a. SINGLE 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.
        - b. MULTIPLE SHOWERHEADS SERVING ONE SHOWER SHALL USE 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.
     4. FAUCETS AND FOUNTAINS:
        - a. NONRESIDENTIAL LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.
        - b. KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI.
        - c. WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].
        - d. METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.
        - e. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI].
4. **COMMERCIAL KITCHEN EQUIPMENT [§5.303.4]**
   - A. 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.
     - a. NOTE: THIS CODE SECTION DOES NOT AFFECT LOCAL JURISDICTION AUTHORITY TO PROHIBIT OR REQUIRE DISPOSER INSTALLATION.
5. **AREAS OF ADDITION OR ALTERATION [§5.303.5]**
   - A. FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, THE PROVISIONS OF SECTIONS 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.
6. **STANDARDS FOR PLUMBING FIXTURES AND FITTINGS [§5.303.6]**
   - A. 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.
7. **COMMISSIONING [§5.410.2(1,2,3,4,5,6)]**
   - A. 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. COMMISSIONING -ALL BUILDING SYSTEMS AND COMPONENTS COVERED BY TITLE 24, PART 6, AS WELL AS PROCESS EQUIPMENT AND CONTROLS, AND RENEWABLE ENERGY SYSTEMS SHALL BE INCLUDED IN THE SCOPE OF THE COMMISSIONING REQUIREMENTS.
   - B. REQUIREMENTS SHALL INCLUDE:
     1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS
        - a. 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:
          - ENVIRONMENTAL AND SUSTAINABILITY GOALS.
          - ENERGY EFFICIENCY GOALS.
          - INDOOR ENVIRONMENTAL QUALITY REQUIREMENTS.
          - PROJECT PROGRAM, INCLUDING FACILITY FUNCTIONS AND HOURS OF OPERATION, AND NEED FOR AFTER HOURS OPERATION.
          - EQUIPMENT AND SYSTEMS EXPECTATIONS.
          - BUILDING OCCUPANT AND OPERATION AND MAINTENANCE (O&M) PERSONNEL EXPECTATIONS.
     2. BASIS OF DESIGN
        - a. 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:
          - HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS.
          - INDOOR LIGHTING SYSTEM AND CONTROLS.
          - WATER HEATING SYSTEM.
          - RENEWABLE ENERGY SYSTEMS.
          - LANDSCAPE IRRIGATION SYSTEMS.
          - WATER REUSE SYSTEMS.
     3. COMMISSIONING PLAN
        - a. 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:
          - GENERAL PROJECT INFORMATION.
          - COMMISSIONING GOALS.
          - SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
            1. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT.
            2. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS.
            3. FUNCTIONS TO BE TESTED.
            4. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED.
            5. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE.
            6. COMMISSIONING TEAM INFORMATION.
            7. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING SHALL BE INCLUDED.
     4. FUNCTIONAL PERFORMANCE TESTING
        - a. 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. DOCUMENTATION AND TRAINING.
        - a. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN *CALIFORNIA CODE OF REGULATIONS* (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
        - b. 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:
          - SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS.
          - SITE CONTACT INFORMATION.
          - BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG.
          - MAJOR SYSTEMS.
          - SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES.
          - A COPY OF VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
          - OTHER RESOURCES AND DOCUMENTATION, IF APPLICABLE.
        - c. 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:
          - SYSTEMS/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES).
          - REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE.
          - REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL.
          - REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/EQUIPMENT.
     6. COMMISSIONING REPORT
        - a. A REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.
8. **TESTING AND ADJUSTING [§5.410.4(1,2,3,4,5)]**
   - A. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT.
   - B. 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.
   - C. PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
     - a. 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.
   - D. REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
   - E. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
     - a. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
9. **TEMPORARY VENTILATION [§5.504.1]**
   - A. 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.
10. **COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION [§5.504.3]**
    - A. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
11. **FILT

SYMBOLS LIST

ABBREVIATIONS

Ø	PHASE
A OR AMP	AMPERE
A/C	AIR CONDITIONER
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
ALT	ALTERNATE
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
C	CONDUIT
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CLG	CEILING
CONT	CONTINUOUS
CRT	CATHODE RAY TUBE
CT	CURRENT TRANSFORMER
D	DEMOLISH
DC	DIRECT CURRENT
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DIAG	DIAGRAM
DISC	DISCONNECT
DIST	DISTRIBUTION
DMU	DIGITAL METERING UNIT
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
DSD	DUCT SMOKE DETECTOR
EC	EMPTY CONDUIT
EMT	ELECTRICAL METALLIC TUBING
EP	EMERGENCY POWER
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
FIXT	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FVNR	FULL VOLTAGE, NON REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
HG	HOSPITAL GRADE
HGT	HEIGHT
HP	HORSEPOWER
HTR	HEATER
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
ISO	ISOLATED
JB OR J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
LT	LIGHT
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
N/A OR NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	NONFUSIBLE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPA	NATIONAL PURCHASING AGREEMENT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	POLE
PB	PULL BOX
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
R	RELOCATE
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
S/N	SOLID NEUTRAL
SAD	SEE ARCHITECTURAL DRAWINGS
SHT	SHEET
STD	STANDARD
SWBD	SWITCHBOARD
T	TRANSFORMER
TC	TIMECLOCK
TEL	TELEPHONE
TP	TAMPER PROOF
TS	TIME SWITCH
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UF	UNDERFLOOR
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT OR WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

LIGHTING

- RECESSED TROFFER FIXTURE
- SURFACE OR PENDANT MOUNTED FIXTURE
- SURFACE MOUNTED LINEAR WALL/MIRROR FIXTURE
- SURFACE MOUNTED STRIP LIGHT FIXTURE
- RECESSED LINEAR DOWN LIGHT
- FLUORESCENT STRIP LIGHT FIXTURE, SURFACE OR CHAIN MOUNTED
- RECESSED DOWN LIGHT FIXTURE
- SURFACE MOUNTED WALL FIXTURE
- TRACK LIGHT WITH FIXTURES
- EXIT FIXTURE, CEILING OR WALL MOUNTED, DIRECTIONAL ARROWS AS INDICATED
- SHADING OF ANY FIXTURE INDICATES EMERGENCY LIGHTING
- ARM MOUNT FIXTURE ON LIGHT POLE
- PENDANT FIXTURE
- SURFACE MOUNTED CEILING FIXTURE
- DIRECTIONAL FIXTURE - ARROW INDICATES AIMING DIRECTION
- UNDERCABINET TASK LIGHT FIXTURE
- FLOOR OR TABLE LAMP

LIGHTING CONTROL

DIGITAL LIGHTING CONTROL SYSTEM DEVICES

- LC — WALL MOUNTED CONTROL STATION
- LC — CONTROL STATION IN LOCATION OTHER THAN WALL. MOUNT AS DESCRIBED ON DRAWINGS.
- RC — ROOM CONTROLLER RELAY UNIT. MOUNT ABOVE CEILING OR IN LOCATIONS AS INDICATED ON DRAWINGS.
- DS — DAYLIGHT SENSOR. LOCATE PER DRAWINGS.
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PI — PARTITION INTERFACE. PROVIDE CONNECTION TO MOTORIZED PARTITION CONTROLLER PER MANUFACTURER'S INSTRUCTIONS.

CONVENTIONAL STAND-ALONE DEVICES

- OS — CEILING MOUNTED OCCUPANCY SENSOR, LINE OR LOW VOLTAGE. FOR LOW VOLTAGE APPLICATIONS, PROVIDE COMPLETE WITH CORRESPONDING SWITCHPACK. PROVIDE CONNECTION BETWEEN SENSOR AND SWITCHPACK USING LOW-VOLTAGE CABLING PER MANUFACTURER'S INSTRUCTIONS.
- PC — CEILING MOUNTED PHOTOCELL
- PC — WALL MOUNTED PHOTOCELL
- S_a — WALL MOUNTED SINGLE POLE TOGGLE SWITCH. SUBSCRIPT LETTER INDICATES SWITCHLEG CONTROLLED.
- S_3 — WALL MOUNTED THREE-WAY TOGGLE SWITCH
- S_D — WALL MOUNTED LINE-VOLTAGE DIMMER SWITCH
- S_{ms} — WALL MOUNTED OCCUPANCY SENSOR SWITCH
- S^D_{ms} — WALL MOUNTED SINGLE POLE OCCUPANCY SENSOR DIMMER SWITCH
- S_K — KEY-OPERATED TOGGLE SWITCH
- TC — WALL MOUNTED TIME CLOCK - TYPE AS NOTED ON PLANS

NOTES:
1. ALL WALL MOUNTED LIGHTING CONTROL DEVICES SHALL BE INSTALLED AT + 45" TO CENTER, UNLESS OTHERWISE NOTED.
2. FOR DIGITAL LIGHTING CONTROL SYSTEM, REFER TO SYSTEM CONTROL SCHEDULE FOR ADDITIONAL DETAILS AND PART NUMBERS.

POWER

- PANELBOARD, 277/480V, SURFACE MOUNTED
- PANELBOARD, 277/480V, FLUSH MOUNTED
- PANELBOARD, 120/208V, SURFACE MOUNTED
- PANELBOARD, 120/208V, FLUSH MOUNTED
- COMMUNICATIONS PANEL
- (2) — ELECTRIC MOTOR-CONNECTION, NUMBER INDICATES HORSEPOWER
- (J) — JUNCTION BOX, CEILING MOUNTED
- (J) — JUNCTION BOX, FLUSH FLOOR MOUNTED
- (J) — FLUSH WALL MOUNTED JUNCTION BOX
- PF — FLUSH WALL MOUNTED JUNCTION BOX FOR AUTO-DOOR PUSH-PLATE ACTIVATION, MOUNT AT +42" AFF AND ROUTE A 1/2"C TO CEILING SPACE FOR LOW-VOLTAGE CABLING TO DOOR OPENER.
- DUPLEX CONVENIENCE OUTLET, +18" AFF UON, TV = TELEVISION +84" AFF
- DOUBLE DUPLEX CONVENIENCE OUTLET, +18" AFF UON
- DUPLEX GFCI OUTLET, +18" AFF UON
- DOUBLE DUPLEX GFCI OUTLET, +18" AFF UON. SINGLE LINE THROUGH CENTER OF OUTLET INDICATES OUTLET(S) MOUNTED AT +45" AFF, OR 6" ABOVE COUNTERTOP. SAD FOR EXACT MOUNTING HEIGHT.
- SHADING THROUGH CENTER OF OUTLET INDICATES OUTLET ON EMERGENCY. HALF SHADING OF ANY RECEPTACLE INDICATES "CONTROLLED OUTLET". DEVICE(S) SHALL BE MANUFACTURED WITH PERMANENT MARKING INDICATING SUCH.
- CEILING MOUNTED DUPLEX CONVENIENCE OUTLET
- FLUSH FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET
- FLUSH FLOOR MOUNTED DOUBLE DUPLEX CONVENIENCE OUTLET
- SPECIALTY OUTLET, 18" UON. TYPE AS NOTED ON PLANS
- N C HW — HEADWALL UNIT
- EPO — EMERGENCY POWER OFF BUTTON
- CLOCK OUTLET, +80" AFF, E = ELAPSED TIMECLOCK
- HEAVY DUTY FUSIBLE SAFETY SWITCH 25/30/480/3 = AMP FUSE/AMP SWITCH/MAX VOLTS/POLES
- 2 — COMBINATION MOTOR STARTER/DISCONNECT, NEMA SIZE AS INDICATED
- VFD — COMBINATION VARIABLE FREQUENCY DRIVE CONTROLLER. PROVIDED UNDER DIVISION 23, INSTALLED & CONNECTED UNDER DIVISION 26.
- FSD — FIRE/SMOKE DAMPER. PROVIDED AND INSTALLED BY DIV. 23 AND CONNECTED BY DIV. 26.
- PACKAGE CONTROLLER OR STARTER FURNISHED & INSTALLED UNDER ANOTHER DIVISION BUT WIRED UNDER THIS DIVISION
- PS — POWER SUPPLY FOR DOOR RELEASE SERVICE, FURNISHED & INSTALLED UNDER ANOTHER DIVISION BUT WIRED UNDER THIS DIVISION.
- CT — CURRENT TRANSFORMERS
- CIRCUIT BREAKER; NA = NON AUTOMATIC; ST = SHUNT TRIP
- FUSED SWITCH
- T — TRANSFORMER
- CONNECTION TO GROUND
- (M) — METER
- GFR — GROUND FAULT RELAY
- ATS — AUTOMATIC TRANSFER SWITCH WITH BYPASS/ISOLATION, UON.
- (ST) — SHUNT TRIP
- (P) (T) — WALL MOUNTED ELECTRIFIED FURNITURE POWER (P) AND TEL/DATA (T) CONNECTIONS. VERIFY EXACT LOCATION WITH PROJECT SUPERINTENDENT. PROVIDE MINIMUM 3/4" (POWER) AND 1" (TEL/DATA) FLEX CONDUITS WITH PVC JACKET CONNECTIONS TO FURNITURE SYSTEM.
- (P) — FLOOR MOUNTED ELECTRIFIED FURNITURE POWER CONNECTOR. VERIFY EXACT LOCATION WITH THE PROJECT SUPERINTENDENT. PROVIDE MINIMUM 3/4" FLEX CONDUIT WITH PVC JACKET CONNECTION TO FURNITURE SYSTEM.
- (T) — FLOOR MOUNTED ELECTRIFIED FURNITURE SIGNAL CONNECTION. VERIFY EXACT LOCATION, REFER TO TEL/DATA PLANS FOR ADDITIONAL INFORMATION.
- PB — PULLBOX, SIZE AND TYPE AS SPECIFIED BY NUMBERED NOTE.
- PL — POWER POLE WITH DUPLEX CONVENIENCE OUTLET AND TEL/DATA OUTLET
- PC — PLUGLOAD CONTROLLER

CONVENTIONS

- 1 — NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY
- AC 1 — MECHANICAL EQUIPMENT IDENTIFICATION TAG:
  - AC: AIR CONDITIONING UNIT
  - CU: CONDENSING UNIT
  - EF: EXHAUST FAN
  - HP: HEAT PUMP
  - HV: HEAT VENT UNIT
  - TEF: TOILET EXHAUST FAN
- ABCD — EQUIPMENT TAG
- 1 — ADDENDUM, BULLETIN, OR REVISION NUMBER
- 4003 — FEEDER TAG
- 1 — FOODSERVICE EQUIPMENT TAG
- E / E7.5 — DETAIL REFERENCE: DETAIL DESIGNATION / SHEET NUMBER
- F3 — FIXTURE IDENTIFICATION TAG: FIXTURE TYPE
- (1) 1-1/4 — DASH INDICATES FRACTION; PARENTHESIS INDICATES QUANTITY

NAMING CONVENTIONS

SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, & PANELBOARDS:

N HD 1 A

- BOARD DESIGNATION
- FLOOR: L = LOWER LEVEL; 1 = FIRST FLOOR; 2 = SECOND FLOOR, ETC
- VOLTAGE CLASSIFICATION: HD = 277/480 VAC DISTRIBUTIONBOARD; H = 277/480 VAC PANELBOARD; MCC = 480 VAC MOTOR CONTROL CENTER; LS = 120/208 VAC SWITCHBOARD; LD = 120/208 VAC DISTRIBUTIONBOARD; L = 120/208 VAC PANELBOARD; US = UNIT SUBSTATION; ATS = AUTOMATIC TRANSFER SWITCH; TX = TRANSFORMER
- BRANCH DESIGNATION: E = ESSENTIAL POWER SYSTEM; S = LIFE SAFETY BRANCH; N = NORMAL BRANCH; C = CRITICAL BRANCH; Q = EQUIPMENT BRANCH; U = UPS SYSTEM

RACEWAYS

- G — GROUND CONDUCTOR
- CONDUIT RUN CONCEALED IN SLAB, UNDERSLAB OR UNDERGROUND
- CONDUIT RUN CONCEALED IN WALL OR CEILING
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET
- FLEXIBLE METALLIC CONDUIT CONNECTION
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CROSS MARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS:
  - ISOLATED GROUND CONDUCTOR
  - NEUTRAL CONDUCTOR(S)
  - PHASE CONDUCTORS
    1. NO CROSS MARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
    2. THREE TO SIX CROSS MARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
    3. SEVEN OR MORE CROSS MARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
    4. ALL 120V, 20A HOMERUNS LONGER THAN 100' AND ALL 277V, 20A HOMERUNS LONGER THAN 150' SHALL BE #10 MINIMUM
    5. EXPOSED RACEWAYS IN MECHANICAL ROOMS AND ELECTRICAL ROOMS SHALL BE EMT OR RIGID
- MULTI-OUTLET SURFACE RACEWAY; TYPE, OUTLET SPACING AND MOUNTING AS INDICATED ON PLANS AND IN SPECIFICATIONS
- NON-ESSENTIAL BRANCH RACEWAY
- C — CRITICAL BRANCH RACEWAY
- S — LIFE-SAFETY BRANCH RACEWAY
- Q — EQUIPMENT BRANCH RACEWAY
- WALL MOUNTED GROUND BUS. REFER TO DETAIL
- CABLE TRAY, LADDER, OR RUNWAY

SIGNAL

- WALL MOUNTED TEL/DATA OUTLET, 4 11/16" BOX WITH 1-GANG RING AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE. +18" AFF UON, WHERE ADJACENT TO A POWER OUTLET, MATCH OUTLET HEIGHTS.
- W — WALL MOUNTED PHONE OUTLET 45" AFF UON.
- B — WALL MOUNTED BY-PASS PHONE OUTLET 45" AFF UON.
- TV — WALL MOUNTED TELEVISION SYSTEM OUTLET W/ 3/4" CONDUIT, 84" AFF UON.
- AV — WALL MOUNTED AUDIOVISUAL OUTLET 18" AFF UON.
- CEILING MOUNTED TEL/DATA OUTLET
- FLUSH FLOOR MOUNTED TELEDATA OUTLET
- WALL MOUNTED DATA OUTLET 18" AFF UON.
- WALL MOUNTED HDMI OUTLET 18" AFF UON.
- CEILING MOUNTED WIRELESS ACCESS POINT
- CEILING MOUNTED DISTRIBUTED ANTENNA LOCATION
- CEILING MOUNTED SPEAKER
- WALL MOUNTED SPEAKER
- SECURITY CAMERA LOCATION

NOTE: REFER TO SECURITY DRAWINGS FOR SECURITY CAMERA OUTLET LOCATIONS.

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS (REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, ETC.) FOR EXACT LOCATION OF ELECTRICAL EQUIPMENT, INCLUDING LIGHTING FIXTURES, SWITCHES, OUTLETS, SPEAKERS, SMOKE DETECTORS, ETC.
2. MAINTAIN FIRE RATING OF ALL FLOORS, CEILINGS AND WALLS PENETRATED BY ELECTRICAL WORK.
3. ELECTRICAL DEVICE OPENINGS IN FIRE RATED WALLS SHALL NOT EXCEED 16 SQUARE INCHES, AND SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. DEVICE OPENINGS ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE HORIZONTALLY SEPARATED BY A MINIMUM OF 24 INCHES.
4. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER THE 2019 CALIFORNIA BUILDING CODE.
5. VERIFY CIRCUIT VOLTAGE OF SUPPLY CIRCUIT SHOWN ON PLANS FOR ALL LIGHT FIXTURES. PROVIDE FIXTURES/DRIVERS SUITABLE FOR SUPPLY CIRCUIT VOLTAGE.
6. CONTRACTOR SHALL LAY OUT CONDUIT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER TRADES.
7. INSTALL AND CONNECT A CODE SIZED INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT AND FEEDER CONDUITS. THESE EQUIPMENT GROUND WIRES ARE NOT SHOWN ON THE PLANS; INCREASE CONDUIT SIZE WHERE REQUIRED.
8. INSTALL A POLYETHYLENE PULLING ROPE IN ALL EMPTY CONDUITS.
9. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE, UON. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
10. ALL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE MADE IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE, CHAPTER 7.
11. SUBSCRIPTS ON SWITCH SYMBOLS (Sa) DENOTE THE FIXTURE CONTROLLED.
12. DO NOT INSTALL TEL/DATA OR POWER OUTLETS BACK TO BACK IN STUD WALLS. OFFSET OUTLETS A MINIMUM OF 16", OR 24" AT FIRE RATED WALLS.
13. REFER TO ONE-LINE POWER DIAGRAM FOR THE SIZE OF CONDUCTORS BETWEEN MAJOR POWER COMPONENTS OF THE ELECTRICAL SYSTEM.
14. VERIFY THE EXACT LOCATION OF ALL EQUIPMENT FURNISHED BY OTHERS PRIOR TO DETERMINING CONDUIT TERMINATION POINTS.
15. VERIFY CEILING TYPE FOR ALL FIXTURES. PROVIDE MOUNTING/TRIM HARDWARE SUITABLE FOR CEILING CONTAINING EACH FIXTURE.
16. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 3-760 OF PART 3, TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE. REFER TO FIRE ALARM DRAWINGS.
17. PLANS SHOWING INTERIOR LIGHTING ARE INTENDED TO INDICATE APPROXIMATE LOCATIONS, TYPES, BRANCH CIRCUITS AND SWITCHING REQUIREMENTS FOR LIGHTING FIXTURES. EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND THE APPROVED REFLECTED CEILING PLAN SUBMITTAL.
18. COORDINATE ALL MODULAR FURNITURE SYSTEM ELECTRICAL WORK WITH FURNITURE SUPPLIER. CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL AS REQUIRED BY FURNITURE SUPPLIER FOR A COMPLETE, OPERATIONAL INSTALLATION.
19. ALL WIRING DEVICES SHALL BE PERMANENTLY LABELED WITH PANEL AND CIRCUIT NUMBER SUPPLYING THEM.
20. ALL PLENUM CABLE SYSTEMS SHALL BE INSTALLED IN CONDUIT WHEN CROSSING AREAS WHERE THERE IS NO CEILING BELOW THE STRUCTURE, THE CEILING IS DRYWALL OR PLASTER, OR WHEN PENETRATING WALLS. CONDUIT SHALL BE SIZED EQUAL TO J-HOOK SYSTEM CAPACITY.
21. ALL DEVICES LOCATED IN AREAS OR ROOMS CONTAINING CASEWORK SHALL BE ARRANGED SO THAT THEY ARE IN KICK SPACES OR ABOVE COUNTER TOP BELOW UPPER CASE WORK.
22. ALL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
23. ALL RECEPTACLES, SWITCHES, AND JUNCTION BOXES SHALL BE COLOR CODED AND IDENTIFIED PER THE DIVISION 26 SPECIFICATIONS. ALL EMERGENCY SYSTEM DEVICES AND COVERPLATES SHALL BE RED IN COLOR.
24. WHERE THERE ARE TWO SWITCHES SHOWN TOGETHER AND EACH ARE ON SEPARATE POWER SOURCES, PROVIDE EITHER SEPARATE SWITCH BOXES OR PERMANENT BARRIERS IN ONE SWITCH BOX TO COMPLY WITH CEC 517-30(C)(I).
25. POKE-THRU OUTLET BOXES AND FITTINGS SHALL BE U.L. CERTIFIED AS CLASSIFIED FOR FIRE RESISTANCE FOR THE FLOOR CONSTRUCTION AND FIRE RATING WHERE APPLIED, MIN. 2'-0" SEPARATION O.C. AND NOT MORE THAN ONE UNIT PER 65 SQ. FT. OF FLOOR SPAN.
26. ALL UPS SYSTEMS, INCLUDING LIGHTING INVERTERS, ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NORTH

SHEET TITLE

LEGEND AND ABBREVIATIONS

Project Number

PROJECT NUMBER

E0.00

SHEET NUMBER

Author

Plot Date: 9/28/2022 4:30:55 PM

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Stanford Medicine Sutter Health Cancer Center	Report Page:	(Page 1 of 8)
Project Address:	3023 Summit Street	Date Prepared:	8/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Oakland	04	Total Illuminated Hardscape Area (ft²)	15957
02	Climate Zone	3			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2I for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

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

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

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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Project Address:	3023 Summit Street	Date Prepared:	8/26/2022

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

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results
01 General Hardscape Allowance §140.7(d)1 (See Table I)	+	02 Per Application §140.7(d)2 (See Table J)	+	03 Sales Frontage §140.7(d)2 (See Table K)	+	04 Ornamental §140.7(d)2 (See Table L)	+	05 Per Specific Area §140.7(d)2 (See Table M)	OR	06 Existing Power Allowance §141.0(b)2L (See Table N)	=	07 Total Allowed (Watts)	≥	08 Total Actual (Watts)	09 must be >= 08
1,732.74	+	---	+	---	+	---	+	---	OR	---	=	1,732.74	≥	1,367.6	COMPLIES
												Cutoff Compliance (See Table G for Details)			COMPLIES
												Controls Compliance (See Table H for Details)			COMPLIES

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

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

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Stanford Medicine Sutter Health Cancer Center	Report Page:	(Page 3 of 8)
Project Address:	3023 Summit Street	Date Prepared:	8/26/2022

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

Designed Wattage:

01 Name or Item Tag	02 Complete Luminaire Description		03 Watts per luminaire[1, 2]	04 How is Wattage determined	05 Total number luminaires[2]	06 Luminaire Status[3]	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	10 Field Inspector Pass	10 Field Inspector Fail
L1	L1 LED Single Area Fixture	☐ Linear	76	Mfr. Spec	7	New	☐	532	Yes	☐	☐
L2	L2 LED Pedestrian Column	☐ Linear	50	Mfr. Spec	8	New	☐	400	NA: < 6200 lumens	☐	☐
L4	L4 LED Step Light	☐ Linear	3.1	Mfr. Spec	20	New	☐	62	NA: < 6200 lumens	☐	☐
L5	L5 LED Wall Sconce	☐ Linear	5.8	Mfr. Spec	12	New	☐	69.6	NA: < 6200 lumens	☐	☐
L6	L6 LED Double Area Pole Fixture	☐ Linear	152	Mfr. Spec	2	New	☐	304	Yes	☐	☐
							Total Design Watts:	1367.6			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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G. CUTOFF REQUIREMENTS (BUG)
This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

true	02	03	04	05	06	07	08	09	10	11	12	
		Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
Name or Item Tag	Complete Luminaire Description	Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
L1	L1 LED Single Area Fixture	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	2 MH from property line	G3	G3	☐	☐
L6	L6 LED Double Area Pole Fixture	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	2 MH from property line	G3	G3	☐	☐

[1] FOOTNOTES: Mounting Height is labeled MH in this table.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b)
[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

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H. OUTDOOR LIGHTING CONTROLS
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01 Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector Pass	05 Field Inspector Fail
MOB	Photocontrol	Yes	Yes	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Stanford Medicine Sutter Health Cancer Center	Report Page:	(Page 6 of 8)
Project Address:	3023 Summit Street	Date Prepared:	8/26/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

	01				
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply) ☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

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

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02 Area Description	03 Surface Type	04 Area Wattage Allowance (AWA) Illuminated Area (ft²)	05 Area Wattage Allowance (AWA) Allowed Density (W/ft²)	06 Area Allowance (Watts)	07 Area Wattage Allowance (AWA) Perimeter Length (lf)	08 Area Wattage Allowance (AWA) Allowed Density (W/lf)	09 Area Wattage Allowance (AWA) Linear Allowance (Watts)	10 Total General AWA + LWA (Watts)
Parking and Drive Aisles	Asphalt	6785	0.025	169.6	556.5	0.2	139.1	309
Pedestrian Pathways	Concrete	8512.1	0.03	255.4	1806.5	0.4	722.6	978
Summit Street Pedestrian Path	Concrete	659.4	0.03	19.8	190.6	0.4	76.2	96
						Initial Wattage Allowance for Entire Site (Watts):		350
						Total General Hardscape Allowance (Watts):		1733

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

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N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐	

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Stanford Medicine Sutter Health Cancer Center	Report Page:	(Page 8 of 8)
Project Address:	3023 Summit Street	Date Prepared:	8/26/2022

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

Documentation Author Name: Erin Warnock	Documentation Author Signature: Erin Warnock
Company: Silverman & Light, Inc.	Signature Date: 2022-08-26
Address: 1201 Park Ave, Ste 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Emeryville CA 94608	Phone: 510.655.1200

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

Responsible Designer Name: Ramson E. Paulus	Responsible Designer Signature: Ramson Paulus
Company: Silverman & Light, Inc.	Date Signed: 2022-08-26
Address: 1201 Park Ave, Ste 100	License: E21574
City/State/Zip: Emeryville CA 94608	Phone: 510.655.1200

Author
Plot Date: 9/28/2022 4:30:57 PM

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NORTH

SHEET TITLE
TITLE 24

Project Number
PROJECT NUMBER
E0.10
SHEET NUMBER

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	PART NUMBER	LAMPING	WATTS	POWER SUPPLY	CONTROL REQ	VOLTAGE
L1	Large LED area head with type 2 distribution on 16' pole. Pole type and finish by architect.	16' POLE	Signify Gardco	P26-140L-1675-WW-G2-SF-2-277-CM50-IMRI3-PCB-FINISH + 16' POLE	3000K LED, 70 CRI 7,831 LM	76	0-10V Dimmable	Motion Dimming, Photocell	277
L1R	Similar to L1, but provide as a retrofit-style area head on existing pole.	TOP OF EXISTING POLE	Signify Gardco	P26-140L-1675-WW-G2-RAM-2-277-CM50-IMRI3-PCB-FINISH	3000K LED, 70 CRI 7,831 LM	76	0-10V Dimmable	Motion Dimming, Photocell	277
L2	12' tall column light.	12' POLE	Selux	ELFC-12-TS-G1G2-30-FINISH-277-HL50-PC	3000K LED, 80 CRI 4,420 LM	50	0-10V Dimmable	Motion Dimming, Photocell	277
L3	Flexible, wet-listed tapelight for under-bench landscape lighting. Location and length TBD by landscape architect.	SURFACE, UNDER BENCH 1'-3" ToF	LED Linear	TBD	TBD	TBD	0-10V Dimmable	Timeclock	120-277
L4	3" x 3" Recessed in-wall step light. Provide with one remote power supply for up to 8 step lights.	RECESSED, IN-WALL 2' AFG	Bega	22 230-K3-FINISH + 19 580 POWER SUPPLY	3000K LED, 80 CRI 43 LM	3.1	24V Remote DC, static	Timeclock	120-277
L5	7" wide x 4" tall, ADA-compliance, outdoor wall sconce.	WALL, 7' AFG	Bega	22 261-K3-FINISH	3000K LED, 90 CRI 362 LM	5.8	0-10V Dimmable	Timeclock	120-277
L6	Similar to fixture type L1R, but provide as double headed pole.	16' POLE	Signify Gardco	(2) P26-140L-1675-WW-G2-RAM-2-277-CM50-IMRI3-PCB-FINISH	3000K LED, 70 CRI 7,831 LM (EACH HEAD)	152	0-10V Dimmable	Motion Dimming, Photocell	277
XL1	Large LED Flood light. Mounting style and accessories by architect.	Grade	We-Ef	146-0494 | LED-12/24W/700mA-3000K-Black	3000K LED, 80 CRI 2297 LM	28	0-10V Dimmable	Timeclock	120-277
XL5	Large LED Flood light. Mounting style and accessories by architect.	Grade	We-Ef	146-7064 | LED-24/48W/700mA-3000K-Black	3000K LED, 80 CRI 5,077 LM	55	0-10V Dimmable	Timeclock	120-277
XL5A	(4) XL5 flood lights on pole. Pole, mounting, configuration, and accessories by architect.	POLE, TBD	We-Ef	FIXTURE: (4) 146-7064 | LED-24/48W/700mA-3000K-Black + POLE	3000K LED, 80 CRI 5,077 LM (EACH HEAD)	220	0-10V Dimmable	Timeclock	120-277

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ISSUED FOR	REV	DATE
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SEALS AND SIGNATURES

NORTH

SHEET TITLE

LIGHTING FIXTURE SCHEDULE

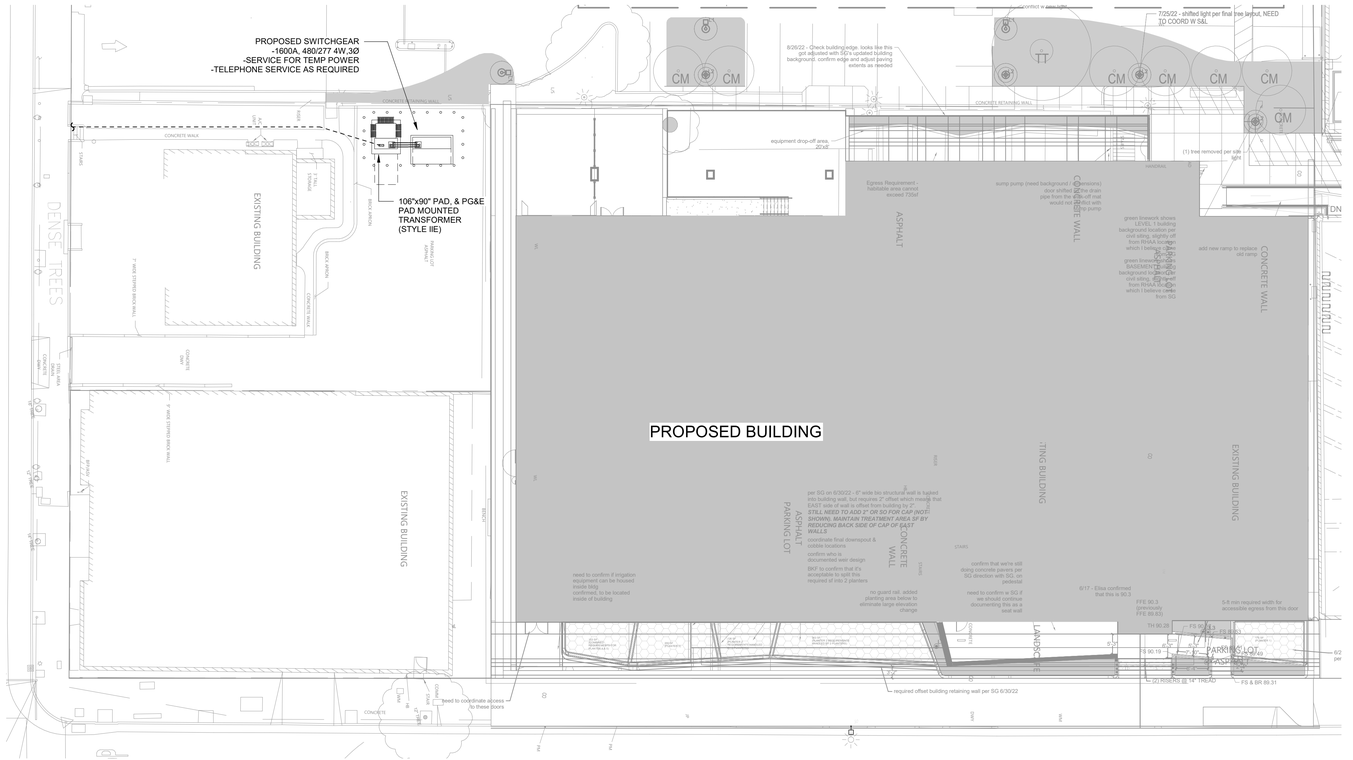
Project Number

PROJECT NUMBER

E0.20

SHEET NUMBER

Plot Date: 9/28/2022 4:30:57 PM Author



1 POWER SITE PLAN FOR ALL UG & SUBSTRUCTURE WORK
1/16" = 1'-0"

GENERAL NOTES

1. POWER CANNOT OCCUPY SAME RACEWAY AS LOW VOLTAGE AND DATA CABLES

NUMBERED NOTES

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FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NORTH

SHEET TITLE

SITE PLAN - UNDERGROUND POWER

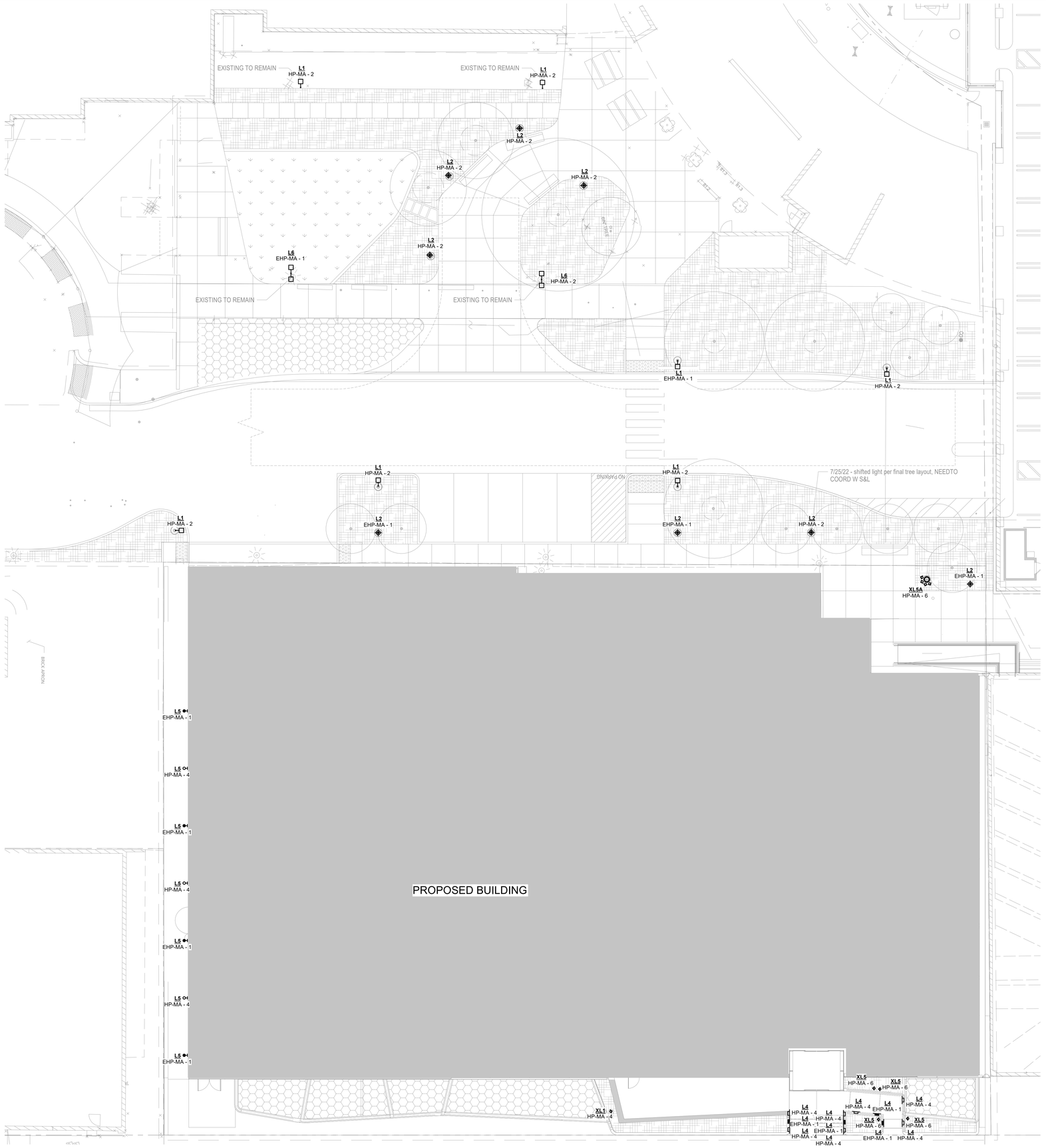
Project Number

PROJECT NUMBER

E1.00

SHEET NUMBER

Plot Date: 9/28/2022 4:31:02 PM Author



1 SITE PLAN - PERALTA LIGHTING
3/32" = 1'-0"

GENERAL NOTES

1. POWER CANNOT OCCUPY SAME RACEWAY AS LOW VOLTAGE AND DATA CABLES

NUMBERED NOTES

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SEALS AND SIGNATURES

NORTH

SHEET TITLE
SITE PLAN - PERALTA LIGHTING

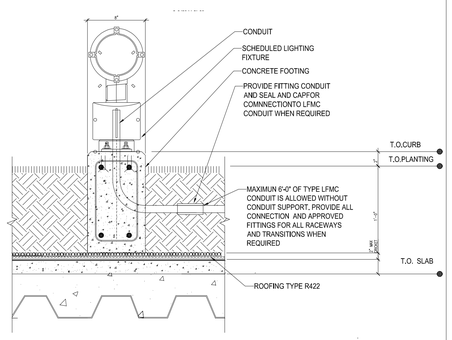
Project Number

PROJECT NUMBER

E1.01

SHEET NUMBER

Plot Date: 9/28/2022 4:31:04 PM Author

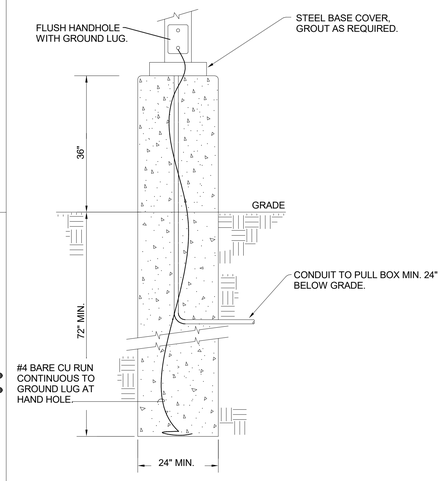


10 LIGHTING BASE AT PLANTERS

NTS

NOTE: FOR STRUCTURAL REINFORCEMENT REQUIREMENTS REFER TO DETAIL 3/S0.21

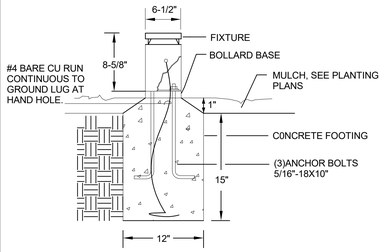
NOTE: SHORTEN LENGTH OF POLE/COLUMN BY 3'-0" SO THAT OVERALL HEIGHT IS THE SAME AS POLES/COLUMNS IN NON-VEHICULAR AREAS.



6 POLE BASE FOR POLES IN VEHICULAR AREAS

NTS

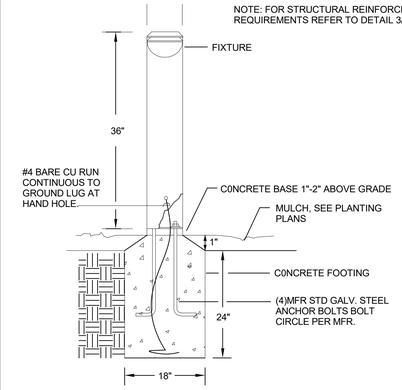
NOTE: FOR STRUCTURAL REINFORCEMENT REQUIREMENTS REFER TO DETAIL 3/S0.21



1 BOLLARD DETAIL

NTS

NOTE: FOR STRUCTURAL REINFORCEMENT REQUIREMENTS REFER TO DETAIL 3/S0.21



2 BOLLARD DETAIL

NTS

PANEL E

LOCATION PROVIDENCE ELEC RM
MOUNTING SURFACE
ENCLOSURE 1
FEEDER 3/4", 4 #10
FED FROM MAIN SWBD

VOLTAGE 480Y/277V
BUS AMPS 50
MAIN BKR MLO
AIC EXISTING

CKT NO.	DESCRIPTION	LOCATION	BKR/ POLE	WATTS	TYPE	PH	TYPE	WATTS	BKR/ POLE	DESCRIPTION	LOCATION	CKT NO.
1	EXISTING		20/1	800	C	A	C	986	20/1	EXISTING		2
3	EXISTING		20/1	1,600	C	B	C	686	20/1	EXISTING		4
5	EXISTING		20/1	1,600	C	C	C	1,280	20/1	(N) TICKET MACHINE	PKNG	6
7	SPARE		20/1		-	A	R		20/1	SPARE		8
9	SPARE		20/1		-	B	R		20/1	SPARE		10
11	SPARE		20/1		-	C	C		20/1	SPARE		12
13	SPARE		20/1		-	A	M		20/1	SPARE		14
15	SPARE		20/1		-	B	R		20/1	SPARE		16
17	SPARE		20/1		-	C	R		20/1	SPARE		18

SCOPE OF WORK

	Type	Connected	Demand
R	Receptacle	-	-
M	Motor	-	-
C	Continuous	6,852	8,565
N	Non-Continuous	-	-
H	Process Heaters	-	-
	Total	6,852	8,565

UPDATED 8/16/2022
BY S&L

Subtotal per	Ph
1,786	A
2,186	B
2,880	C

10 AMPS @ 480Y/277V

PANEL L2

LOCATION 2ND LEVEL ELEC/DATA RM.
MOUNTING SURFACE
ENCLOSURE 1
FEEDER EXISTING
FED FROM EXISTING

VOLTAGE 208Y/120V
BUS AMPS 225
MAIN BKR MLO
AIC EXISTING

CKT NO.	DESCRIPTION	LOCATION	BKR/ POLE	WATTS	TYPE	PH	TYPE	WATTS	BKR/ POLE	DESCRIPTION	LOCATION	CKT NO.
1	BLUE PHONE	LVL 2	20/1	900	R	A	R	900	20/1	BLUE PHONE	LVL 2	2
3	RECEPT	LVL 3	20/1	180	R	B	R	180	20/1	RECEPT	LVL 2	4
5	SPARE		20/1		R	C	C	972	20/1	(N) SECURITY GATE	LVL 1	6
7	BLUE PHONE	LVL 3	20/1	900	R	A	R	1,200	20/1	ELEVATOR 1 CAB POWER	LVL 3	8
9	RECEPT	LVL 3	20/1	180	R	B	R	1,200	20/1	ELEVATOR 2 CAB POWER	LVL 3	10
11	ELEVATOR 4 CONTROLS	LVL 3	20/1	900	R	C	C	500	20/1	ELEVATOR 1 & 2 LIGHTING	LVL 3	12
13	ELEVATOR 4 LIGHTS	LVL 3	20/1	500	C	A	M	1,400	20/1	ELEVATOR 1 & 2 EXHAUST FAN	LVL 3	14
15	ELEVATOR 4 CAB POWER	LVL 3	20/1	1,200	R	B	R	900	20/1	ELEVATOR 1 CONTROLS	LVL 3	16
17	ELEVATOR 4 EXHAUST FAN	LVL 3	20/1	700	M	C	R	900	20/1	ELEVATOR 2 CONTROLS	LVL 3	18
19	ELEVATOR 3 LIGHTS	LVL 3	20/1	500	C	A	R	900	20/1	BLUE PHONE	LVL 3	20
21	ELEVATOR 3 CAB POWER	LVL 3	20/1	1,200	R	B	R	180	20/1	RECEPT	LVL 3	22
23	ELEVATOR 3 EXHAUST FAN	LVL 3	20/1	700	M	C	M	648	20/3	(N) ROLL-UP DOOR	LVL 1	24
25	ELEVATOR 3 CONTROLS	LVL 3	20/1	900	R	A	M	648	"	(N) ROLL-UP DOOR	LVL 1	26
27	SPARE		20/2		-	B	M	648	"	(N) ROLL-UP DOOR	LVL 1	28
29	SPARE		"		-	C	R	180	20/1	RECEPT	ELEC RM L3	30
31	SPARE		20/1		-	A	R	180	20/1	RECEPT	ELEC RM L3	32
33	SPARE		20/1		-	B	C	300	20/1	FACP	LVL 2/3	34
35	CAR CHARGER	LVL 3	30/2	2,200	C	C	C	4,100	40/2	CAR CHARGER	LVL 2	36
37	CAR CHARGER	LVL 3	"	2,200	C	A	C	4,100	"	CAR CHARGER	LVL 2	38
39	CAR CHARGER	LVL 3	30/2	2,200	C	B	C	4,100	40/2	CAR CHARGER	LVL 2	40
41	CAR CHARGER	LVL 3	"	2,200	C	C	C	4,100	"	CAR CHARGER	LVL 2	42

SCOPE OF WORK

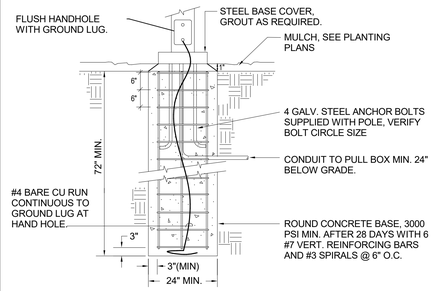
	Type	Connected	Demand
R	Receptacle	13,080	11,540
M	Motor	4,744	5,794
C	Continuous	27,972	34,965
N	Non-Continuous	-	-
H	Process Heaters	-	-
	Total	45,796	52,299

UPDATED 8/16/2022
BY S&L

Subtotal per	Ph
15,228	A
12,468	B
18,100	C

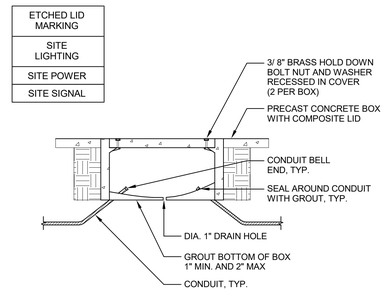
145 AMPS @ 208Y/120V

NOTE: FOR STRUCTURAL REINFORCEMENT REQUIREMENTS REFER TO DETAIL 3/S0.21



3 POLE BASE FOR POLES IN NON-VEHICULAR AREAS

NTS



4 HANDHOLE INSTALLATION DETAIL

NTS

Stanford MEDICINE

Sutter Health
CANCER COLLABORATIVE

Stanford Medicine
Sutter Health
Cancer Center

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ISSUED FOR	REV	DATE
FINAL DEVELOPMENT PERMIT		09 DEC 2022

SEALS AND SIGNATURES

NORTH

SHEET TITLE

PARTIAL ONE LINE & DETAILS

Project Number

PROJECT NUMBER

E7.01

SHEET NUMBER

Author

Plot Date: 9/28/2022 4:31:05 PM