

DRAWING NAME: Z:\PROJECTS\2023\PROJECTS\SB CO. PRADO RV CAMP RESTROOM REMODEL\DRAWINGS\CONSTRUCTION DOCUMENTS\G-001.DWG | PLOT DATE: 3/29/2024 4:55 PM | PLOTTED BY: PAWEL KRYSZEWSKI | COPYRIGHT 2016 MILLER ARCHITECTURAL CORPORATION. ALL RIGHTS RESERVED.

# SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL

16700 EUCLID AVENUE  
CHINO, CA 91708  
PROJECT NO. 10-10-1395

## PROJECT OWNER

SAN BERNARDINO COUNTY  
385 NORTH ARROWHEAD AVE, THIRD FLOOR  
SAN BERNARDINO, CA 92415  
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## ARCHITECT

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FAX: 909-335-7299  
E-MAIL: KOSWALT@MILLER-AIP.COM

## CIVIL

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CONTACT: EDWARD BONADIMAN  
PHONE: 909-885-3806  
FAX: 909-381-1721

## ELECTRICAL

A&F ENGINEERING GROUP, INC  
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RANCHO CUCAMONGA, CA 91701  
CONTACT: LUIS M. FLORES  
PHONE: 909-941-3008  
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E-MAIL: LMFLORES@A-FENGINEERING.COM

## MECHANICAL AND PLUMBING

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LAS VEGAS, NV 89131  
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PHONE: 951-776-9505  
FAX: 951-776-9506  
E-MAIL: REOENG@AOL.COM

## TITLE / OWNER

### EXISTING BUILDING DATA:

BUILDING AREA: 2 RESTROOM SHOWER BUILDING @ 520 SF EACH  
1 RESTROOM BUILDING @ 268 SF  
TYPE OF BUILDING CONSTRUCTION: V-N  
AUTOMATIC FIRE SPRINKLERS: NO  
NATURE OF BUSINESS: PUBLIC RESTROOMS

### CODE DATA:

ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF THE:  
• 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2  
• 2022 CALIFORNIA PLUMBING CODE  
• 2022 CALIFORNIA MECHANICAL CODE  
• 2022 CALIFORNIA ELECTRICAL CODE  
• 2022 CALIFORNIA GREEN BUILDING CODE  
• 2022 CALIFORNIA FIRE CODE  
• 2022 CALIFORNIA REFERENCED STANDARDS CODE

### PROJECT DESCRIPTION:

REMOVAL AND REPLACEMENT OF 3 RESTROOMS IN THE RV PARK CAMPGROUND WITH INSTALLATION OF PREFABRICATED ADA ACCESSIBLE RESTROOM / SHOWER BUILDINGS. ADD NEW ADA ACCESSIBLE PARKING AND PATH OF TRAVEL TO SERVE THE RESTROOM / SHOWER FACILITIES.

### GENERAL NOTES:

1. QUANTITIES LISTED IN THESE DOCUMENTS ARE FOR AGENCY APPROVAL ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES FOR BIDDING PURPOSES.

SHEET NUMBER	SHEET NAME
G-001	TITLE SHEET
G-002	ACCESSIBILITY DETAILS
G-003	OVERALL INFORMATION
G-004	GENERAL INFORMATION
G-005	CALCULATED INFORMATION
AS-102	ENLARGED DEMOLITION SITE PLAN
AS-103	ENLARGED DEMOLITION SITE PLAN
AS-105	ENLARGED DEMOLITION SITE PLAN
AS-106	ENLARGED DEMOLITION SITE PLAN
AS-501	ENLARGED DEMOLITION SITE DETAIL
A-101	FLOOR PLAN - RESTROOM / SHOWER BUILDING
S-03	FLOOR PLAN - FOR REFERENCE ONLY
S-04	EXTERIOR ELEVATIONS - FOR REFERENCE ONLY
S-06	INTERIOR ELEVATIONS - FOR REFERENCE ONLY
A-102	FLOOR PLAN - RESTROOM ONLY BUILDING
S-03	FLOOR PLAN - FOR REFERENCE ONLY
S-04	EXTERIOR ELEVATIONS - FOR REFERENCE ONLY
S-06	INTERIOR ELEVATIONS - FOR REFERENCE ONLY
CIVIL	
1	TITLE SHEET
2	DEMOLITION PLAN - BATHROOM #1
3	DEMOLITION PLAN - BATHROOM #2
4	DEMOLITION PLAN - BATHROOM #3
5	GRADING PLAN - BATHROOM #1
6	GRADING PLAN - BATHROOM #2
7	GRADING PLAN - BATHROOM #3
8	DETAILS
9	EROSION CONTROL PLAN
10	EROSION CONTROL PLAN
ELECTRICAL	
E-001	ELECTRICAL GENERAL NOTES & SYMBOLS LIST
E-002	SINGLE LINE DIAGRAMS
ES-101	ELECTRICAL - OVERALL SITE PLAN
E-101	ELECTRICAL - RV RESTROOM #1
E-102	ELECTRICAL - RV RESTROOM #2
E-103	ELECTRICAL - RV RESTROOM #3
PLUMBING	
P-1	SITE PLAN
P-2	PLUMBING PLAN - RV RESTROOM #1
P-3	PLUMBING PLAN - RV RESTROOM #2
P-4	PLUMBING PLAN - RV RESTROOM #3
P-4	PLUMBING PLAN - RV RESTROOM #3

## DIRECTORY



architecture  
interiors  
planning

MILLER

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Redlands, CA 92374  
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## owner approval

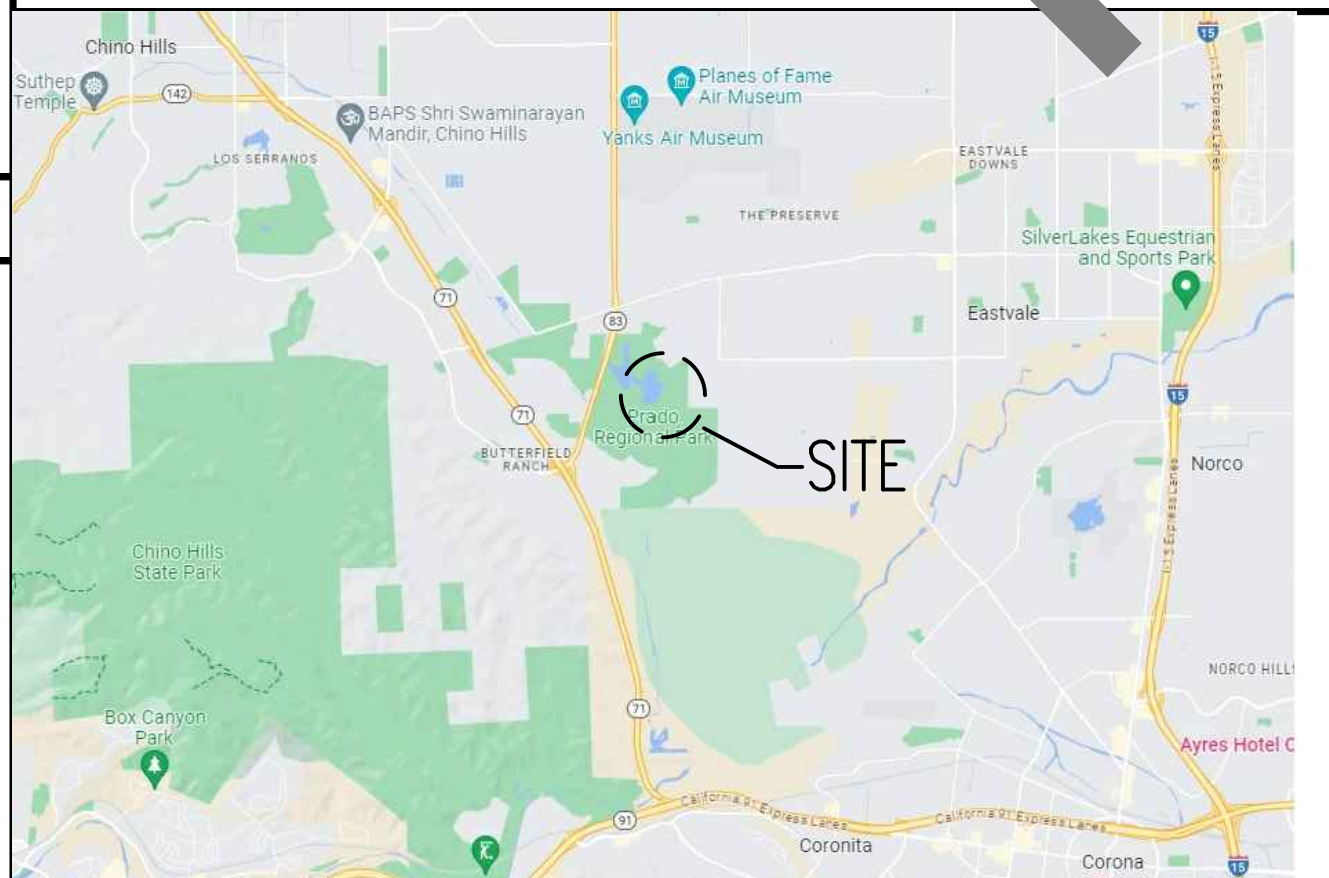
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## revisions/addenda

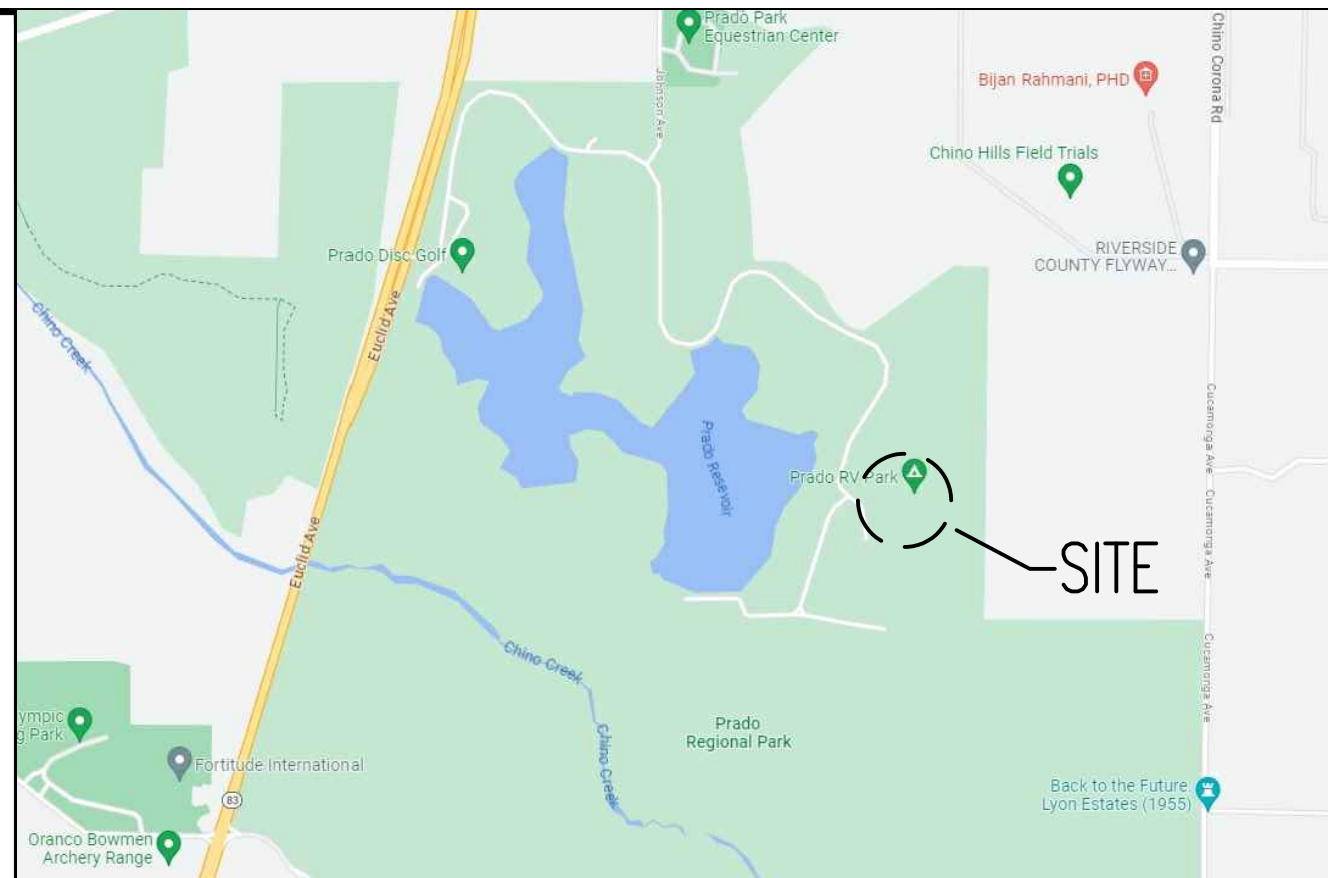
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SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000  
SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE, THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
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## PROJECT INFORMATION



VICINITY MAP



LOCATION MAP

## ABBREVIATIONS

	SECTION SHEET NUMBER		HEIGHT ABOVE FINISH FLOOR (U.N.O)
	DETAIL SHEET NUMBER		ROOM - ROOM NAME
	EXTERIOR ELEVATION SHEET NUMBER		ROOM NUMBER
	WALL LETTER		KEYNOTE NUMBER
	INTERIOR ELEVATION SHEET NUMBER		DOOR LETTER ROOM NUMBER
	WINDOW TYPE		DOOR NUMBER (ALTERNATE SYMBOL)
	DRAWING REVISION		WINDOW TYPE

SYMBOLS

STANDARD CITY NOTES

## sheet name

TITLE SHEET

## sheet number

G-001



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.

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.

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].

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.

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
OSHDP 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 percent at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 90 degrees above nadir.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.

Eligible vehicles are limited to the following:

- 1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating of 9 or 10 as regulated under 40 CFR Section 600 Subpart D.
NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

10. 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.

11. 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.

12. 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.

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 hydros seeding 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 conversion 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.

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

- Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
a. Where there is no local utility power supply
b. Where the local utility is unable to supply adequate power.
c. Where there is evidence suitable to the local 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.
2. Parking spaces accessible only by automated mechanical parking systems are not required to comply with this code section.

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

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

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of compliance with applicable minimum parking space requirements established by an enforcement agency, unless otherwise specified in further details.

Table 5.106.5.3.1: EV CAPABLE SPACES. Columns: TOTAL NUMBER OF ACTUAL PARKING SPACES, NUMBER OF REQUIRED EV CAPABLE SPACES, NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)\*2.

- 1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.
5.106.5.3.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

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

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

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

5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVSC shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3. Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE. Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
a. Where there is no local utility power supply.
b. Where the local utility is unable to supply adequate power.
c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

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

- 5.106.5.4.1 Electric vehicle charging readiness requirements for warehouses, grocery stores and retail stores with planned off-street loading spaces. [N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformers(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel(s) shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the proposed branch circuit for future installation of EVSE.
2. The construction documents shall indicate more locations convenient to planned off-street loading space(s) reserved for medium- and heavy-duty EV charging cabinets and charging dispensers, and a permanently reserved routing of conductors to the termination of the raceway(s) or busway(s) to the charging cabinet and dispenser(s) shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) serving a main service panel or subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future EVSE charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of sufficient size to allow the minimum additional system load to the future location of the charging equipment and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

Table 5.106.5.4.1: RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]. Columns: BUILDING TYPE, BUILDING SIZE (SQ. FT.), NUMBER OF OFF-STREET LOADING SPACES, ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL.

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. Columns: ALLOWABLE RATING, LIGHTING ZONE LZ0, LIGHTING ZONE LZ1, LIGHTING ZONE LZ2, LIGHTING ZONE LZ3, LIGHTING ZONE LZ4.

Table with 6 columns: MAXIMUM ALLOWABLE GLARE RATING (G), N/A, G1, G2, G3, G4. Rows for different building types.

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

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

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

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

5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade 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:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY SECTION 5.201 GENERAL 5.201.1 Scope. [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 are two major influences on the amount of water that needs to be applied to the landscape.

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

METERING 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 multifamily 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 allowed water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).



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owner approval

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revisions/addenda

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SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL 16700 EUCLID AVENUE CHINO, CA 91708 APN: 1057-201-10-0000 SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT 385 NORTH ARROWHEAD AVE. THIRD FLOOR SAN BERNARDINO, CA 92415-0184 CONTACT: SARETTA REED PHONE: 909-552-0427

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# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y NA RESPON. PARTY 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<sub>1,2</sub>  
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
<b>SPECIALTY APPLICATIONS</b>	
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
TDP & TRIM ADHESIVE	250
<b>SUBSTRATE SPECIFIC APPLICATIONS</b>	
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](http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF)

TABLE 5.504.4.2 - SEALANT VOC LIMIT

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
<b>SEALANT PRIMERS</b>	
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 ROG 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.

TABLE 5.504.4.3 - CONT.

COATING CATEGORY	CURRENT VOC LIMIT
<b>SPECIALTY COATINGS</b>	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACs:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	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 control.

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

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

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

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

**5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.4.1.

**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 Appendix A, 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 follows:

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 S3 standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS:

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD <sub>2</sub>	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/CCDC/DE/DC/EHLB/IAQ/Pages/VOC.aspx#material>

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

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

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

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

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

**5.504.5.3 Filters.** In mechanically ventilated buildings, provide regular occupied areas with the building 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 recommended for maintenance. 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 seating areas and operable windows and the building as already prohibited by other laws or regulations; or as enforced by ordinances, resolutions 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 other laws, resolutions 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 HUMIDITY 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 5.401 of this code.

## SECTION 5.506 INDOOR AIR QUALITY

**5.506.1 OUTSIDE AIR FRESHENING.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 5.401 (Requirements for Ventilation) of the *California Energy Code*, or the applicable local code, and Division 1, Chapter 4 of CCR, Title 8.

**5.506.2 CARBON DIOXIDE MONITORING.** For buildings or additions equipped with demand control ventilation, CO<sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 1202(c)(4).

**5.506.3 Carbon dioxide (CO<sub>2</sub>) monitoring in classrooms.** (DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

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

## SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

**5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of not 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<sub>n</sub> or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
  2. L<sub>n</sub> 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<sub>n</sub> 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<sub>dn</sub> - 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 (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

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

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

**5.507.4.3 Interior sound transmission.** Wall and roof-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.toolbox.org/PDF/CaseStudies/stc\\_icc\\_ratings.pdf](http://www.toolbox.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.

Y NA RESPON. PARTY = YES RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.) = NOT APPLICABLE

Y NA RESPON. PARTY

**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<sub>2</sub>), and potentially other refrigerants.

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

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

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

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

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

Exception: Single-flared tubing connections may be used with a 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 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.

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

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

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

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

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

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

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

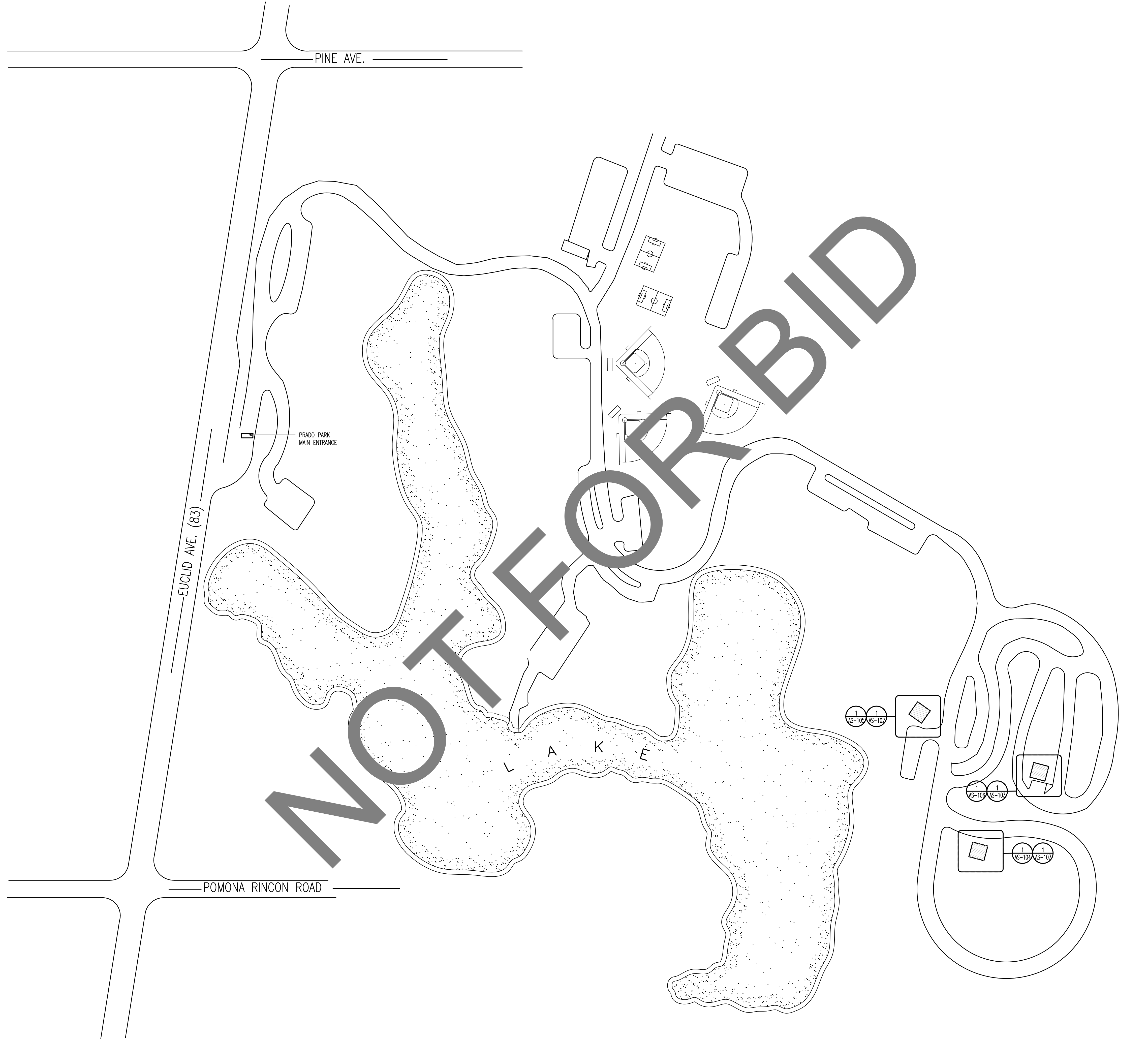
1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice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

Note:

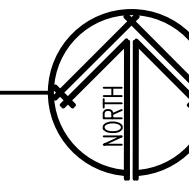
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home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

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KEY SITE PLAN  
SCALE: N.T.S.



architecture  
interiors  
planning

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SAN BERNARDINO COUNTY PRADO RV CAMP  
RV PEDESTAL TRANSFORMER RELOCATION  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

project information

PROJECT NO: 2300050.RA  
DWG FILE: AS-101.DWG  
DRAWN BY: PK  
CHECKED BY: GWM  
DRAWING SCALE: 1" = 10'-0"  
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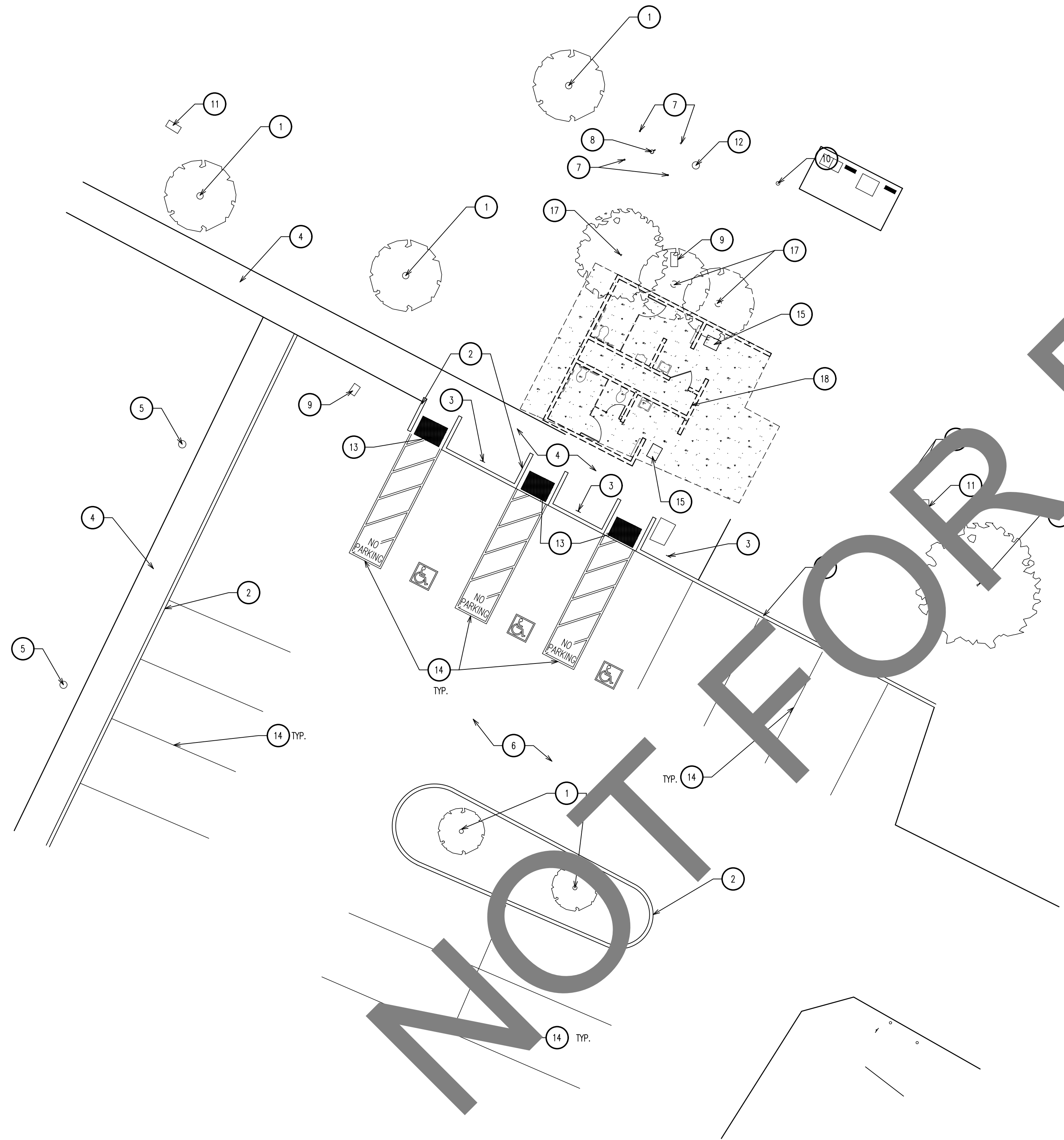
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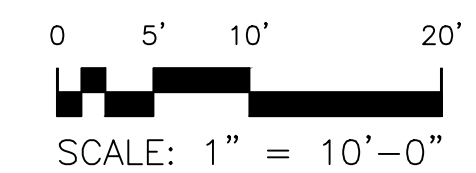
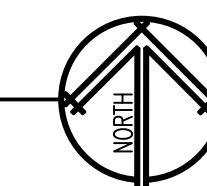
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ENLARGED DEMOLITION SITE PLAN  
SCALE: 1" = 10'-0"



**GENERAL NOTES:**

1. PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE OR EQUIPMENT SHALL BE REPAIRED OR REPLACED.
2. ALL EXISTING AREAS TO REMAIN THAT ARE DAMAGED BY DEMOLITION OR NEW CONSTRUCTION WORK SHALL BE PATCHED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR.
3. EXCESS DOORS, HARDWARE, LIGHTING FIXTURES, ELECTRICAL FITTINGS, CARPETS AND OTHER SALVAGEABLE MATERIAL TO BE STORED OR DISPOSED OF AS DIRECTED BY THE BUILDING OWNER.
4. ANY PROJECTING OR SURFACE MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES UNLESS OTHERWISE NOTED.
5. UPON COMPLETION OF THE DEMOLITION WORK, ENSURE ALL AREAS ARE LEFT IN BROOM CLEAN CONDITION.
6. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES.

**KEY NOTES:** (X)

1. (E) TREE TO REMAIN. PROTECT IN PLACE
2. (E) CURB TO REMAIN. PROTECT IN PLACE
3. (E) SIGN TO REMAIN. PROTECT IN PLACE
4. (E) CONCRETE WALK TO REMAIN. PROTECT IN PLACE
5. (E) IRRIGATION WALK TO REMAIN. PROTECT IN PLACE
6. (E) ASPHALT PAVING
7. (E) BOLLARD TO REMAIN. PROTECT IN PLACE
8. (E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE
9. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
10. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
11. (E) WATER METER TO REMAIN. PROTECT IN PLACE
12. (E) WATER VALVE TO REMAIN. PROTECT IN PLACE
13. (E) TRUNCATED DOMES TO REMAIN. PROTECT IN PLACE
14. (E) STRIPPING TO REMAIN. PROTECT IN PLACE
15. REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE
16. REMOVE CONCRETE SLAB
17. REMOVE STUMP
18. REMOVE CMU BLOCK RESTROOM BUILDING WITH METAL ROOFING. DEMOLITION TO INCLUDE REMOVAL OF ALL WALLS, SLAB, FOOTINGS, PLUMBING AND ELECTRICAL. CAP ALL UTILITY LINES.

**LEGEND:**

- == = WALL TO BE REMOVED
- REMOVE ALL PLUMBING FIXTURES
- REMOVE CONCRETE SLAB AND FOOTING



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interiors  
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**MILLER**

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**owner approval**

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**revisions/addenda**

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SAN BERNARDINO COUNTY PRADO RV CAMP  
RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

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CHECKED BY: GWM  
DRAWING SCALE: 1" = 10'-0"  
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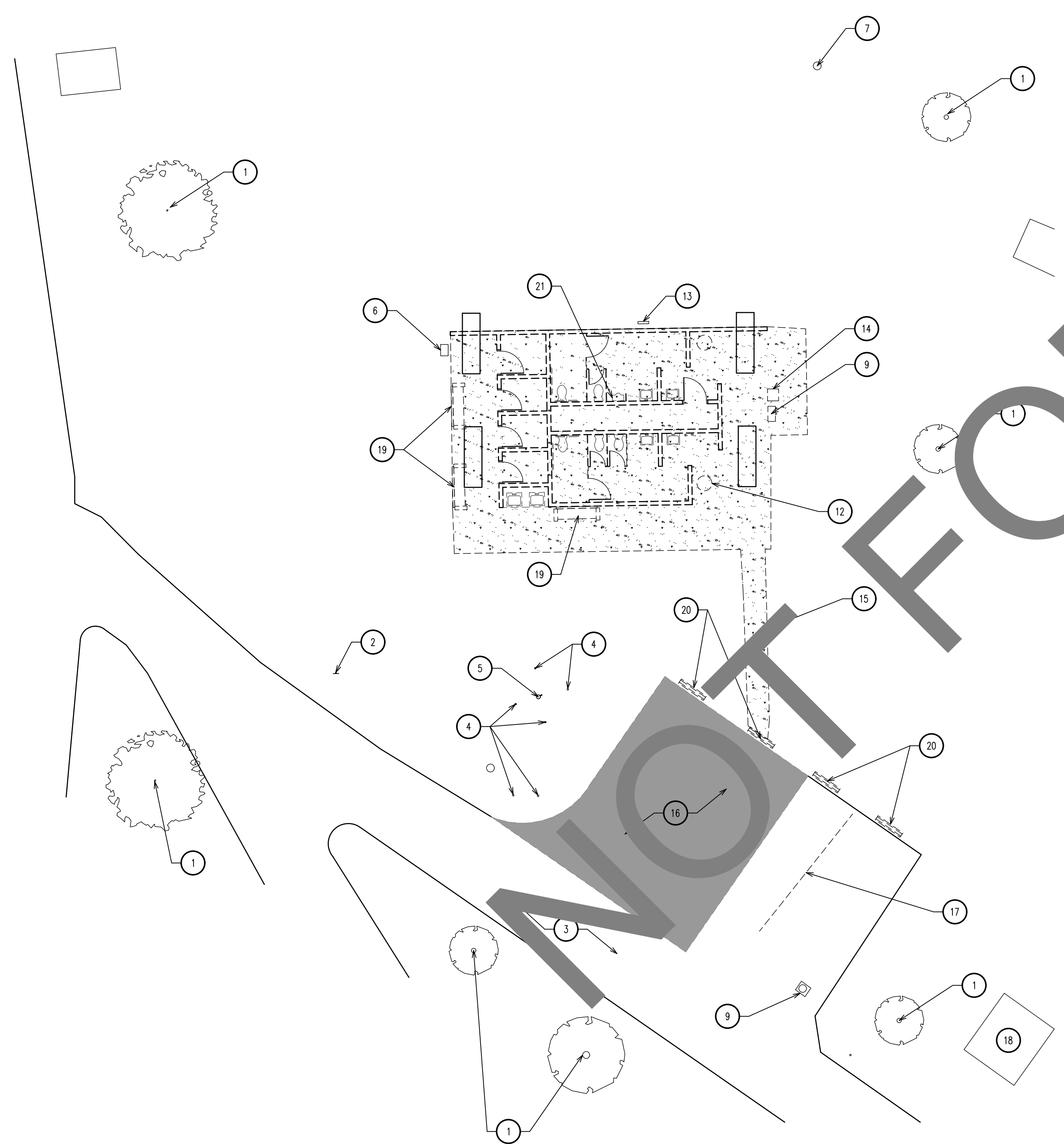
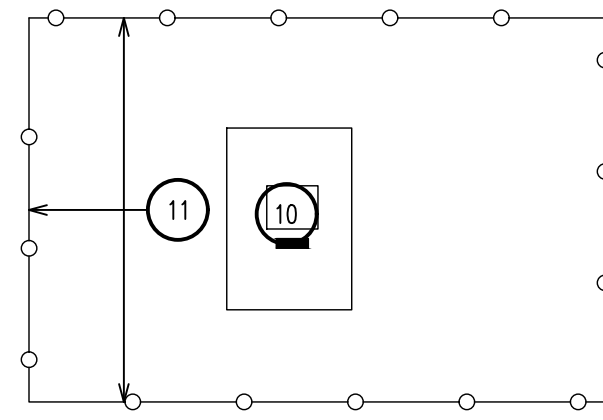
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SITE PLAN

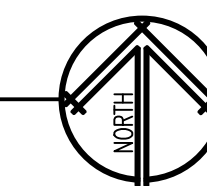
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AS-102

SHEET ##### OF XX SHEETS



ENLARGED DEMOLITION SITE PLAN  
SCALE: 1" = 10'-0"



0 5' 10' 20'  
SCALE: 1" = 10'-0"

GENERAL NOTES:

1. PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE OR EQUIPMENT SHALL BE REPAIRED OR REPLACED.
2. ALL EXISTING AREAS TO REMAIN THAT ARE DAMAGED BY DEMOLITION OR NEW CONSTRUCTION WORK SHALL BE PATCHED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR.
3. EXCESS DOORS, HARDWARE, LIGHTING FIXTURES, ELECTRICAL FITTINGS, CARPETS AND OTHER SALVAGEABLE MATERIAL TO BE STORED OR DISPOSED OF AS DIRECTED BY THE BUILDING OWNER.
4. ANY PROJECTING OR SURFACE MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES UNLESS OTHERWISE NOTED.
5. UPON COMPLETION OF THE DEMOLITION WORK, ENSURE ALL AREAS ARE LEFT IN BROOM CLEAN CONDITION.
6. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES.

KEY NOTES: (X)

1. (E) TREE TO REMAIN. PROTECT IN PLACE
2. (E) SIGN TO REMAIN. PROTECT IN PLACE
3. (E) ASPHALT PAVING
4. (E) BOLLARD TO REMAIN. PROTECT IN PLACE
5. (E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE
6. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
7. (E) IRRIGATION VALVE TO REMAIN. PROTECT IN PLACE
8. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
9. (E) WATER METER TO REMAIN. PROTECT IN PLACE
10. (E) TRANSFORMER TO REMAIN. PROTECT IN PLACE
11. (E) CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE
12. REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE
13. REMOVE IRRIGATION CONTROLLER AND PEDESTAL
14. REMOVE DRINKING FOUNTAIN AND CAP ALL LINES.
15. REMOVE SIDEWALK. SEE CIVIL PLANS FOR BALANCE OF INFORMATION.
16. REMOVE ASPHALT PAVING AND BASE. SEE CIVIL PLANS FOR BALANCE OF INFORMATION.
17. REMOVE PAVEMENT MARKING
18. (E) TRASH BIN TO REMAIN. PROTECT IN PLACE
19. REMOVE BENCH
20. REMOVE WHEEL STOP
21. REMOVE CMU BLOCK RESTROOM BUILDING WITH METAL ROOFING. DEMOLITION TO INCLUDE REMOVAL OF ALL WALLS, SLAB, FOOTINGS, PLUMBING AND ELECTRICAL. CAP ALL UTILITY LINES.

LEGEND:

--- = WALL TO BE REMOVED

REMOVE ALL PLUMBING FIXTURES

REMOVE SLAB AND FOOTINGS

REMOVE ASPHALT



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SAN BERNARDINO COUNTY PRADO RV CAMP  
RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

project information

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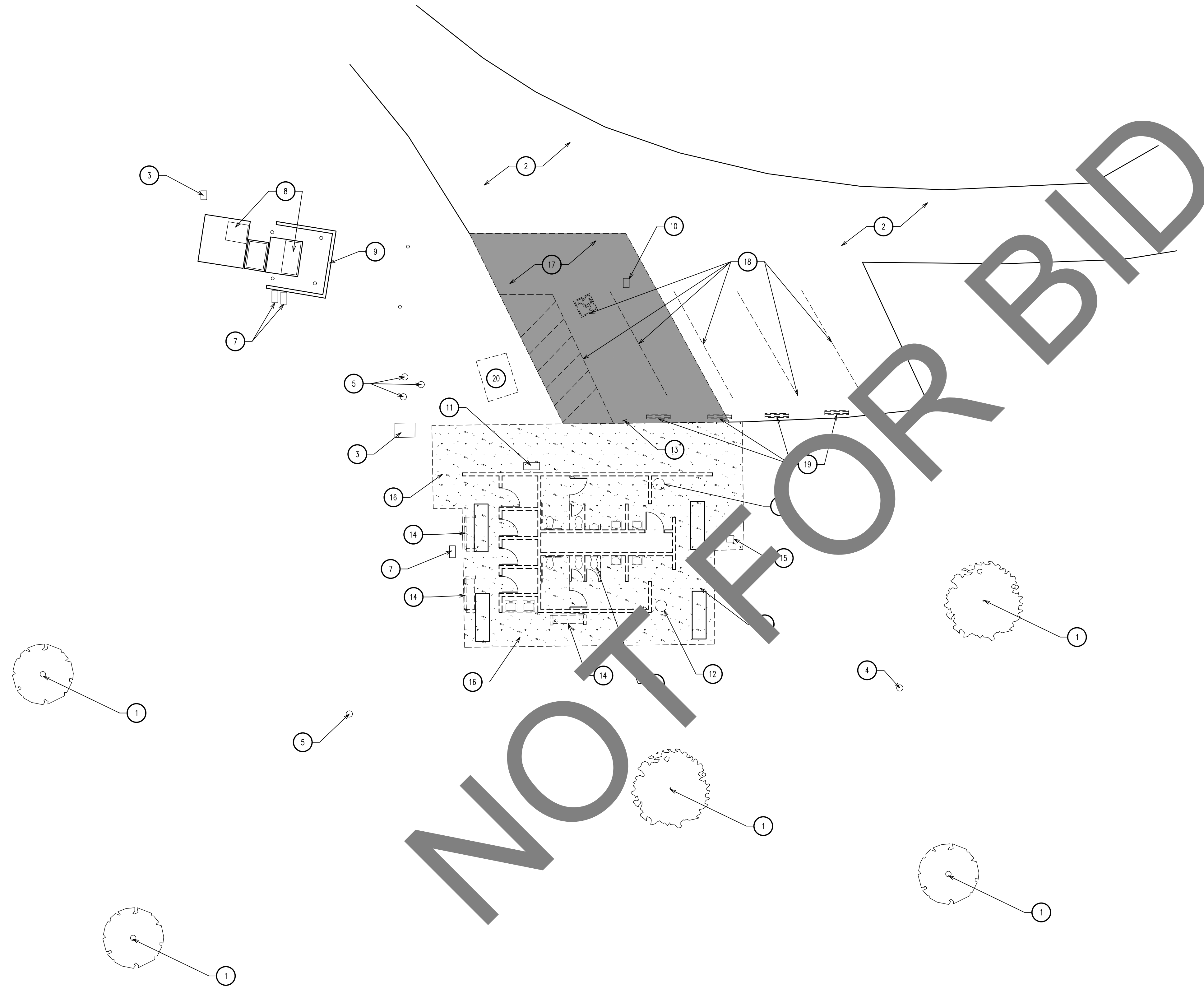
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SITE PLAN

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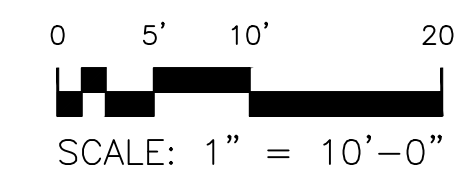
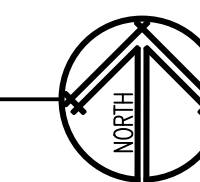
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ENLARGED DEMOLITION SITE PLAN  
SCALE: 1" = 10'-0"



**GENERAL NOTES:**

1. PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE OR EQUIPMENT SHALL BE REPAIRED OR REPLACED.
2. ALL EXISTING AREAS TO REMAIN THAT ARE DAMAGED BY DEMOLITION OR NEW CONSTRUCTION WORK SHALL BE PATCHED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR.
3. EXCESS DOORS, HARDWARE, LIGHTING FIXTURES, ELECTRICAL FITTINGS, CARPETS AND OTHER SALVAGEABLE MATERIAL TO BE STORED OR DISPOSED OF AS DIRECTED BY THE BUILDING OWNER.
4. ANY PROJECTING OR SURFACE MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES UNLESS OTHERWISE NOTED.
5. UPON COMPLETION OF THE DEMOLITION WORK, ENSURE ALL AREAS ARE LEFT IN BROOM CLEAN CONDITION.
6. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES.

**KEY NOTES:** (X)

1. (E) TREE TO REMAIN. PROTECT IN PLACE
2. (E) ASPHALT PAVING
3. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
4. (E) IRRIGATION VALVE TO REMAIN. PROTECT IN PLACE
5. (E) WATER VALVE TO REMAIN. PROTECT IN PLACE
6. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
7. (E) WATER METER TO REMAIN. PROTECT IN PLACE
8. (E) TRANSFORMER TO REMAIN. PROTECT IN PLACE
9. (E) BLOCK WALL TO REMAIN. PROTECT IN PLACE
10. (E) ELECTRICAL PULL BOX TO REMAIN. PROTECT IN PLACE
11. REMOVE IRRIGATION CONTROLLER AND FEDESTALL
12. REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE
13. REMOVE AND SALVAGE EXISTING SIGN
14. REMOVE AND SALVAGE EXISTING BENCH
15. REMOVE DRINKING FOUNTAIN AND CAP ALL LINES.
16. REMOVE CONCRETE. SEE CIVIL PLANS FOR BALANCE OF INFORMATION.
17. REMOVE ASPHALT PAVING AND BASE. SEE CIVIL PLANS FOR BALANCE OF INFORMATION.
18. REMOVE PAVEMENT MARKING
19. REMOVE WHEEL STOP
20. (E) TRASH BIN TO REMAIN. PROTECT IN PLACE
21. REMOVE CMU BLOCK RESTROOM BUILDING WITH METAL ROOFING. DEMOLITION TO INCLUDE REMOVAL OF ALL WALLS, SLAB, FOOTINGS, PLUMBING AND ELECTRICAL. CAP ALL UTILITY LINES.

**LEGEND:**

- == = WALL TO BE REMOVED
- REMOVE ALL PLUMBING FIXTURES
- REMOVE CONCRETE SLAB AND FOOTINGS
- REMOVE ASPHALT



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**revisions/addenda**

mark	date	comment
△	00/00/00	--

**SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL**  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

**SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT**  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 2300050.RA  
DWG FILE: AS-104.DWG  
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CHECKED BY: GWM  
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DATE: 2/28/2024

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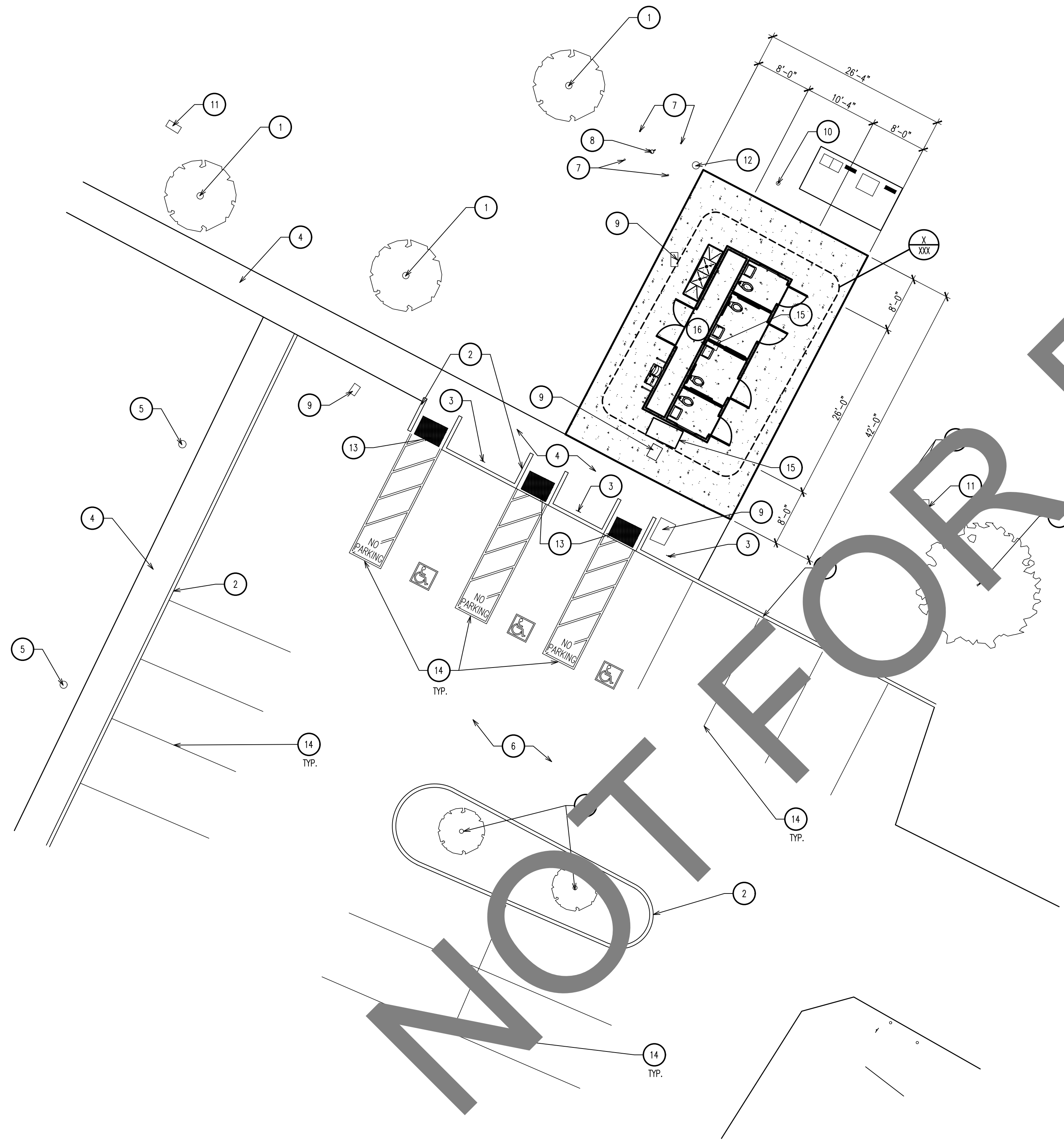
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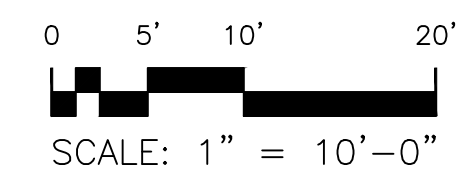
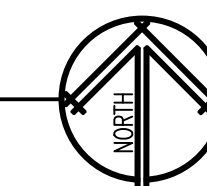
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SCALE: 1" = 10'-0"



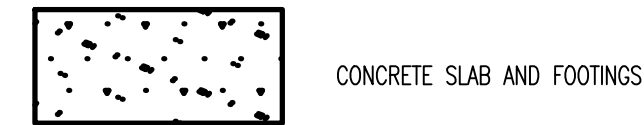
**GENERAL NOTES:**

1. VERIFY EXISTING CONSTRUCTION WITHIN SCOPE OF WORK TO ENSURE CONFORMANCE WITH NOTED RATINGS AND LOCAL CODES. RETROFIT NONCONFORMING CONSTRUCTION AS REQUIRED.
2. ALL NEW WORK SHALL CONFORM TO BUILDING STANDARD, UNLESS NOTED OTHERWISE.
3. PREPARE ALL SURFACES AS REQUIRED TO RECEIVE NEW FINISH.
4. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES. CONTRACTOR IS RESPONSIBLE TO MODIFY IRRIGATION SYSTEM TO ACCOMMODATE NEW CONSTRUCTION AND RESEED LANDSCAPE AREAS OF IMPROVEMENTS.

**KEY NOTES:** (X)

1. (E) TREE TO REMAIN. PROTECT IN PLACE
2. (E) CURB TO REMAIN. PROTECT IN PLACE
3. (E) SIGN TO REMAIN. PROTECT IN PLACE
4. (E) CONCRETE WALK TO REMAIN. PROTECT IN PLACE
5. (E) IRRIGATION VALVE TO REMAIN. PROTECT IN PLACE
6. (E) ASPHALT PAVING
7. (E) BOLLARD TO REMAIN. PROTECT IN PLACE
8. (E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE
9. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
10. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
11. (E) WATER METER TO REMAIN. PROTECT IN PLACE
12. (E) WATER VALVE TO REMAIN. PROTECT IN PLACE
13. (E) TRUNCATED DOMES TO REMAIN. PROTECT IN PLACE
14. (E) STRIPPING TO REMAIN. PROTECT IN PLACE
15. TRASH RECEPTACLE - BEARSAVER-CE SERIES DOUBLE BIN, ADA COMPLIANT - CE240-CH
16. INSTALL PRE-MANUFACTURED BUILDING PER MANUFACTURERS RECOMMENDATIONS ON 5" THICK CONCRETE SLAB OVER 6" ROAD BASE COMPACTED TO 95% OPTIMUM DENSITY OVER 95% COMPACTED NATIVE.

**LEGEND:**



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Fax: (909) 335-7299  
info@miller-aip.com



**owner approval**

initials	date	phase
	00/00/00	--

**revisions/addenda**

mark	date	comment
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**SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL**  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

**SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT**  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

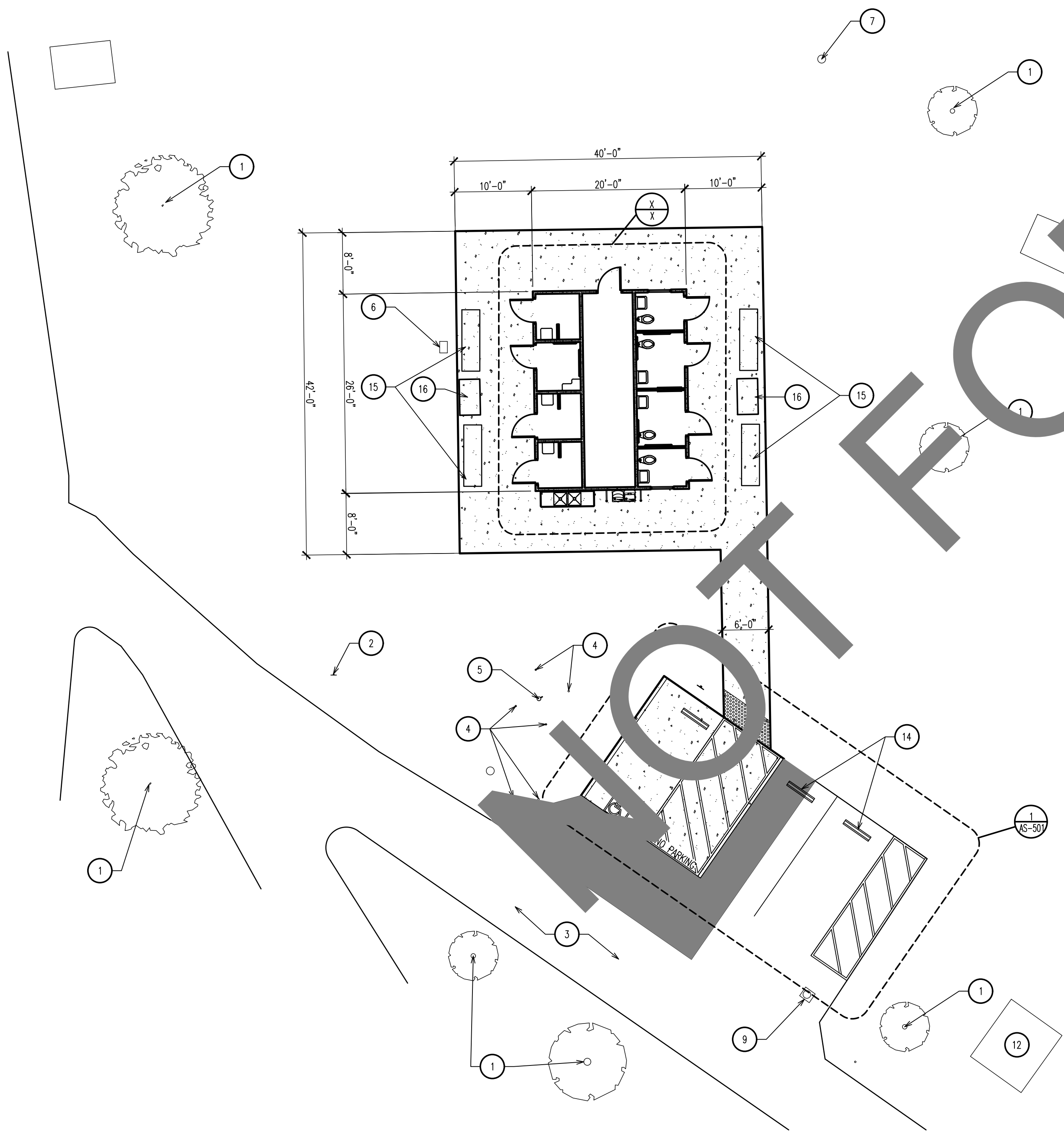
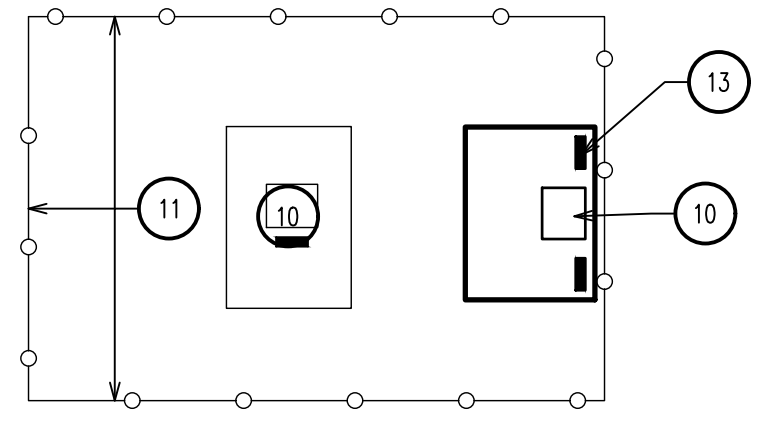
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**ENLARGED SITE PLAN**

**sheet number**

**AS-105**



ENLARGED SITE PLAN  
SCALE: 1" = 10'-0"

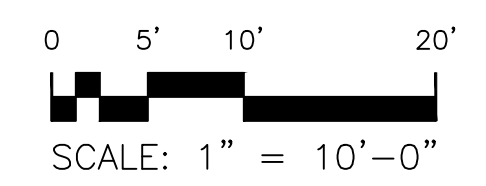
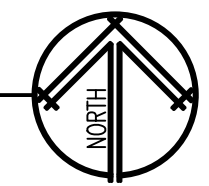
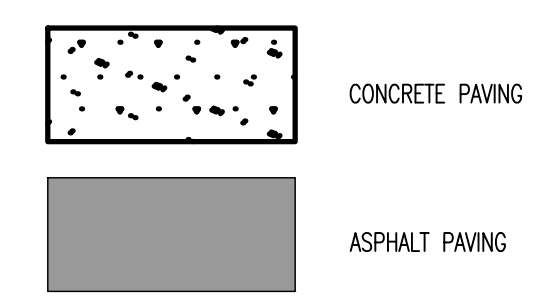
**GENERAL NOTES:**

1. VERIFY EXISTING CONSTRUCTION WITHIN SCOPE OF WORK TO ENSURE CONFORMANCE WITH NOTED RATINGS AND LOCAL CODES. RETROFIT NONCONFORMING CONSTRUCTION AS REQUIRED.
2. ALL NEW WORK SHALL CONFORM TO BUILDING STANDARD, UNLESS NOTED OTHERWISE.
3. PREPARE ALL SURFACES AS REQUIRED TO RECEIVE NEW FINISH.
4. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES. CONTRACTOR IS RESPONSIBLE TO MODIFY IRRIGATION SYSTEM TO ACCOMMODATE NEW CONSTRUCTION AND RESEED LANDSCAPE AREAS OF IMPROVEMENTS.

**KEY NOTES:** (X)

1. (C) TREE TO REMAIN. PROTECT IN PLACE
2. (C) SIGN TO REMAIN. PROTECT IN PLACE
3. (E) ASPHALT PAVING
4. (E) BOLLARD TO REMAIN. PROTECT IN PLACE
5. (E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE
6. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
7. (E) IRRIGATION VALVE TO REMAIN. PROTECT IN PLACE
8. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
9. (E) WATER METER TO REMAIN. PROTECT IN PLACE
10. (E) TRANSFORMER TO REMAIN. PROTECT IN PLACE
11. (E) CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE
12. (E) TRASH BIN TO REMAIN. PROTECT IN PLACE
13. (E) IRRIGATION CONTROLLER PEDESTAL. PROTECT IN PLACE
14. WHEEL STOP. SEE DETAIL 6/AS-501
15. 8'-0" BELSON OUTDOOR BENCH MODEL BSM880-ES
16. TRASH RECEPTACLE: BEARSAWER- CE SERIES DOUBLE BIN, ADA COMPLIANT - CE240-CH

**LEGEND:**



1177 Idaho Street, Suite 200  
Redlands, CA 92374  
Phone: (909) 335-7400  
Fax: (909) 335-7299  
info@miller-aip.com



**owner approval**

initials	date	phase
	00/00/00	--

**revisions/addenda**

mark	date	comment
△	00/00/00	--
△		
△		
△		

SAN BERNARDINO COUNTY PRADO RV CAMP  
RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 2300050.RA  
DWG FILE: AS-106.DWG  
DRAWN BY: PK  
CHECKED BY: GWM  
DRAWING SCALE: 1" = 10'-0"  
DATE: 2/28/2024

**sheet name**

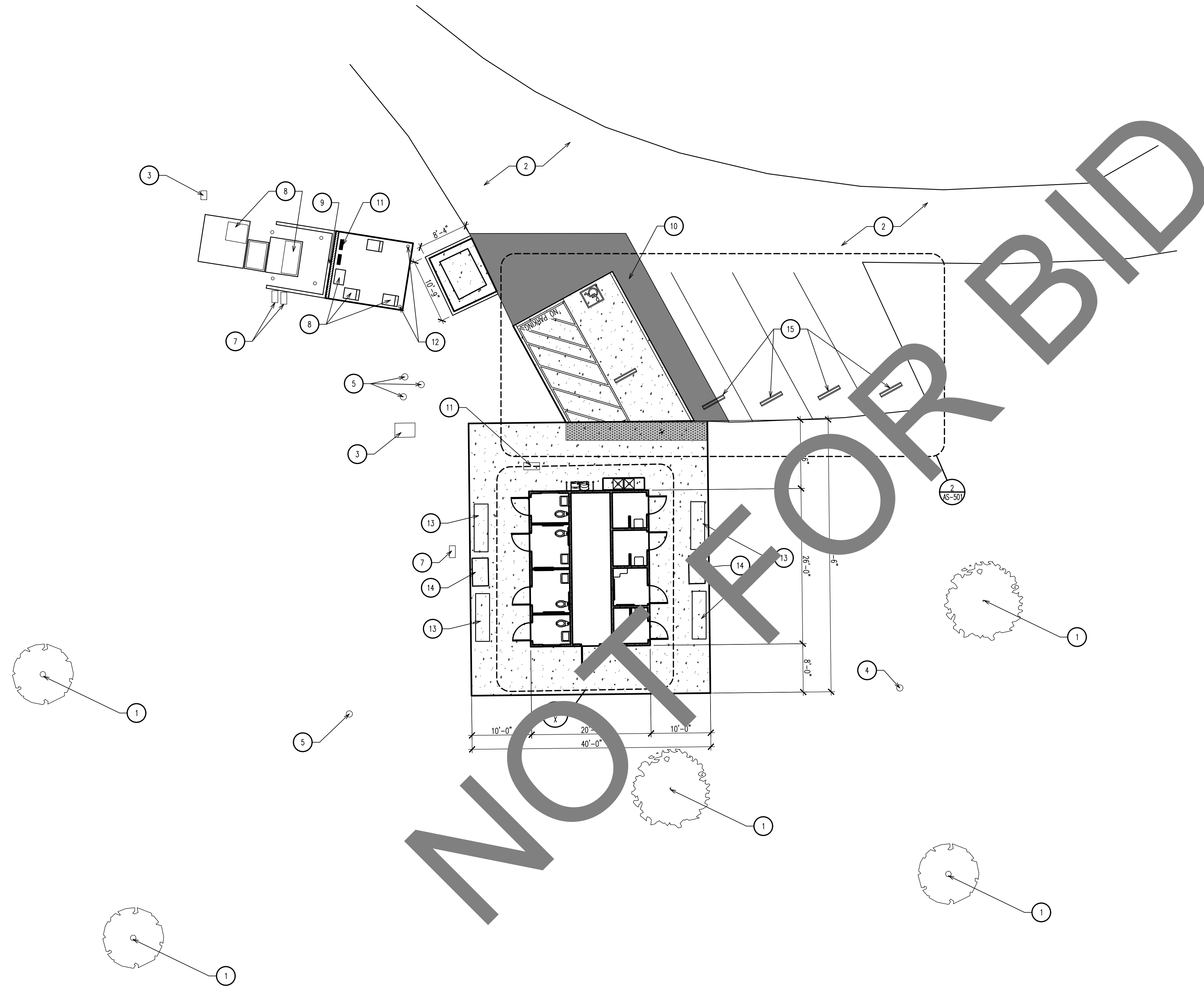
ENLARGED  
SITE PLAN

**sheet number**

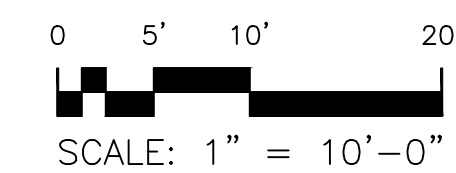
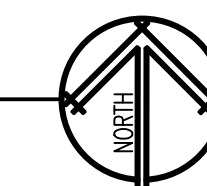
AS-106

DRAWING NAME: Z:\PROJECTS\2023\PROJECTS\SB CO. PRADO RV CAMP RESTROOM REMODEL\_2300050.RA\DRAWINGS\CONSTRUCTION DOCUMENTS\AS-106.DWG | PLOT DATE: 3/29/2024 4:56 PM | PLOTTED BY: PAWEŁ KRYSZEWSKI | COPYRIGHT 2016 MILLER ARCHITECTURAL CORPORATION. ALL RIGHTS RESERVED.

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ENLARGED SITE PLAN  
SCALE: 1" = 10'-0"



**GENERAL NOTES:**

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4. PROTECT ALL EXISTING LANDSCAPING AND IRRIGATION LINES. CONTRACTOR IS RESPONSIBLE TO MODIFY IRRIGATION SYSTEM TO ACCOMMODATE NEW CONSTRUCTION AND RESEED LANDSCAPE AREAS OF IMPROVEMENTS.

**KEY NOTES:** (X)

1. (E) TREE TO REMAIN. PROTECT IN PLACE
2. (E) ASPHALT PAVING
3. (E) UTILITY BOX TO REMAIN. PROTECT IN PLACE
4. (E) IRRIGATION VALVE TO REMAIN. PROTECT IN PLACE
5. (E) WATER VALVE TO REMAIN. PROTECT IN PLACE
6. (E) SEWER CLEAN OUT TO REMAIN. PROTECT IN PLACE
7. (E) WATER METER TO REMAIN. PROTECT IN PLACE
8. (E) TRANSFORMER TO REMAIN. PROTECT IN PLACE
9. (E) BLOCK WALL TO REMAIN. PROTECT IN PLACE
10. (E) ELECTRICAL PULL BOX TO REMAIN. PROTECT IN PLACE
11. (E) IRRIGATION CONTROLLER
12. (E) BOLLARDS
13. 8'-0" BELSON OUTDOOR BENCH MODEL BSWB8G-ES
14. TRASH RECEPTACLE, BEARSAWER- CE SERIES DOUBLE BIN, ADA COMPLIANT - CE240-CH
15. WHEEL STOP. SEE DETAIL 6/AS-501

**LEGEND:**

- CONCRETE PAVING
- ASPHALT PAVING



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Redlands, CA 92374  
Phone: (909) 335-7400  
Fax: (909) 335-7299  
info@miller-aip.com



**owner approval**

initials	date	phase
	00/00/00	--

**revisions/addenda**

mark	date	comment
△	00/00/00	--
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△		
△		

SAN BERNARDINO COUNTY PRADO RV CAMP  
RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 2300050.RA  
DWG FILE: AS-107.DWG  
DRAWN BY: PK  
CHECKED BY: GWM  
DRAWING SCALE: 1" = 10'-0"  
DATE: 2/28/2024

**sheet name**

ENLARGED  
SITE PLAN

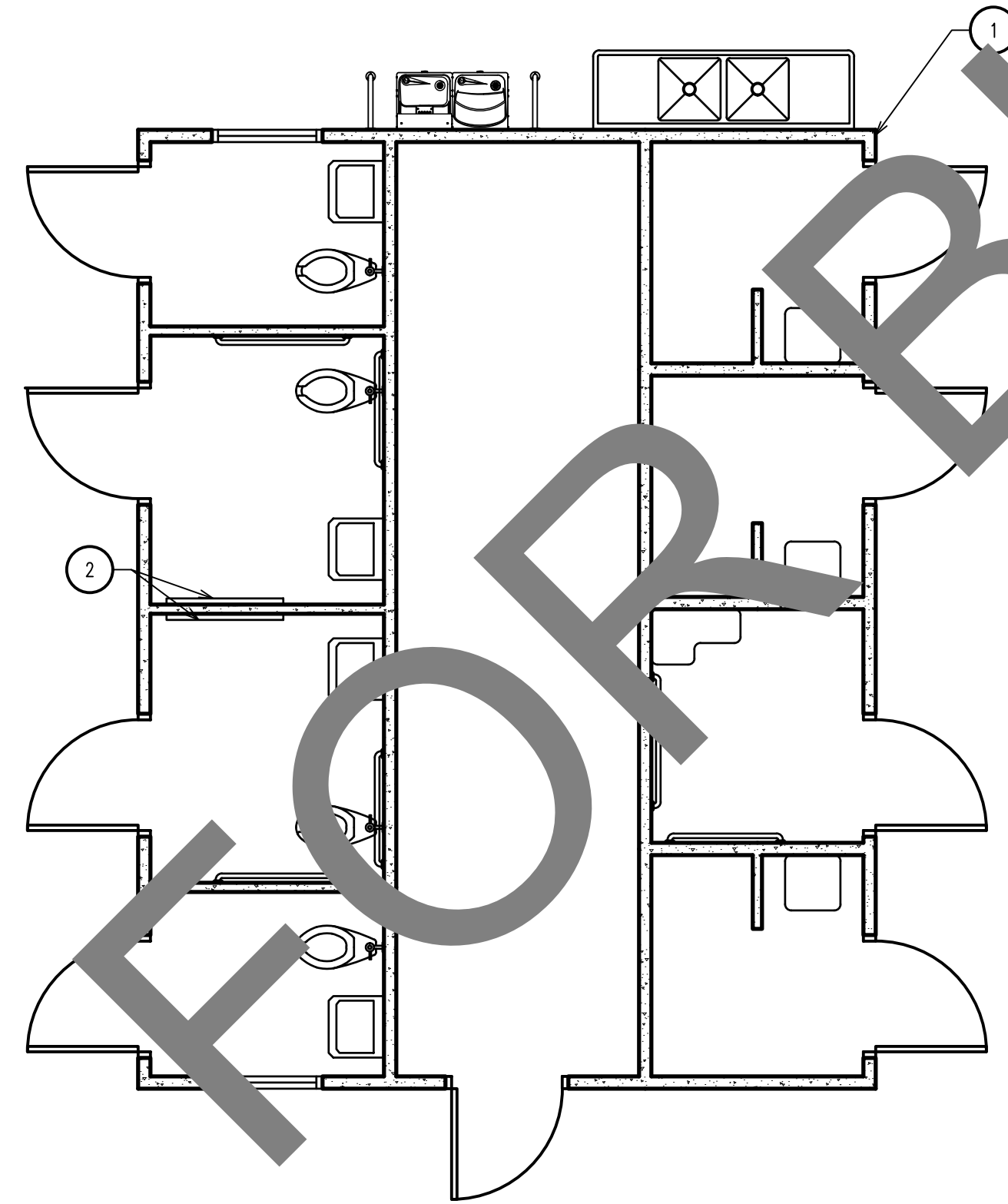
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AS-107

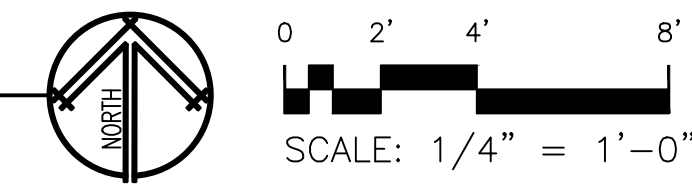


DRAWING NAME: Z:\PROJECTS\2023 PROJECTS\SB CO. PRADO RV CAMP RESTROOM REMODEL 2300050.RA\DRAWINGS\CONSTRUCTION DOCUMENTS\A-101.DWG | PLOT DATE: 3/29/2024 4:55 PM | PLOTTED BY: PAWEŁ KRYSZEWSKI | COPYRIGHT 2016 MILLER ARCHITECTURAL CORPORATION. ALL RIGHTS RESERVED.

NOT FOR BID



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



**GENERAL NOTES:**

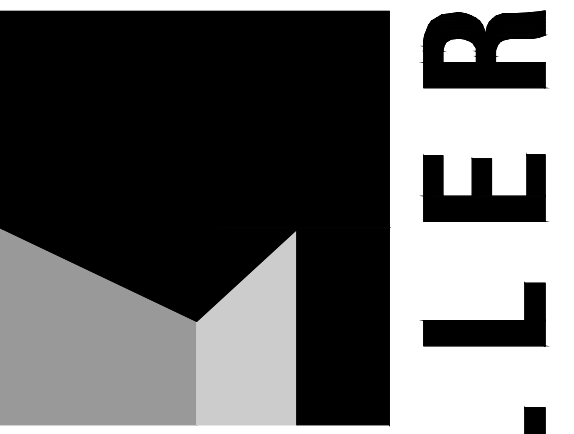
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**KEY NOTES:** (X)

1. PRE-MANUFACTURED BUILDING PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR
2. HORIZONTAL BABY CHANGING STATION BY FOUNDATIONS PROVIDED AND INSTALLED BY CONTRACTOR SURFACE MOUNTED - STAINLESS STEEL, 250 LB CAPACITY-100SSC-SM. SEE DETAIL 1/A-102

**LEGEND:**

CONCRETE TILT-UP PANEL



architecture  
interiors  
planning

MILLER

1177 Idaho Street, Suite 200  
Redlands, CA 92374  
Phone: (909) 335-7400  
Fax: (909) 335-7299  
info@miller-aip.com



**owner approval**

initials	date	phase
	00/00/00	--

**revisions/addenda**

mark	date	comment
△	00/00/00	--
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SAN BERNARDINO COUNTY PRADO RV CAMP  
RV PEDESTAL TRANSFORMER RELOCATION  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE, THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 2300050.RA  
DWG FILE: A-101.DWG  
DRAWN BY: P.K.  
CHECKED BY: GWM  
DRAWING SCALE: 1/4" = 1'-0"  
DATE: 3/28/2024

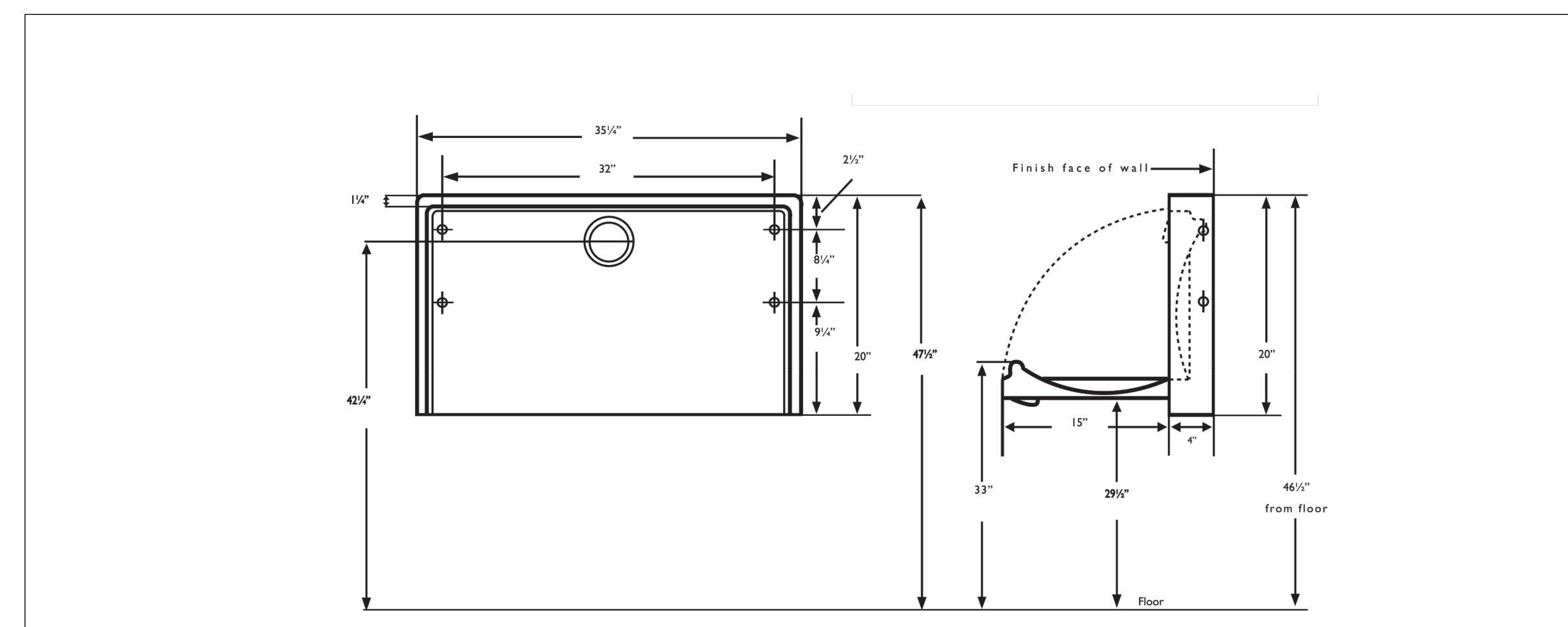
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FLOOR PLAN

**sheet number**

A-101

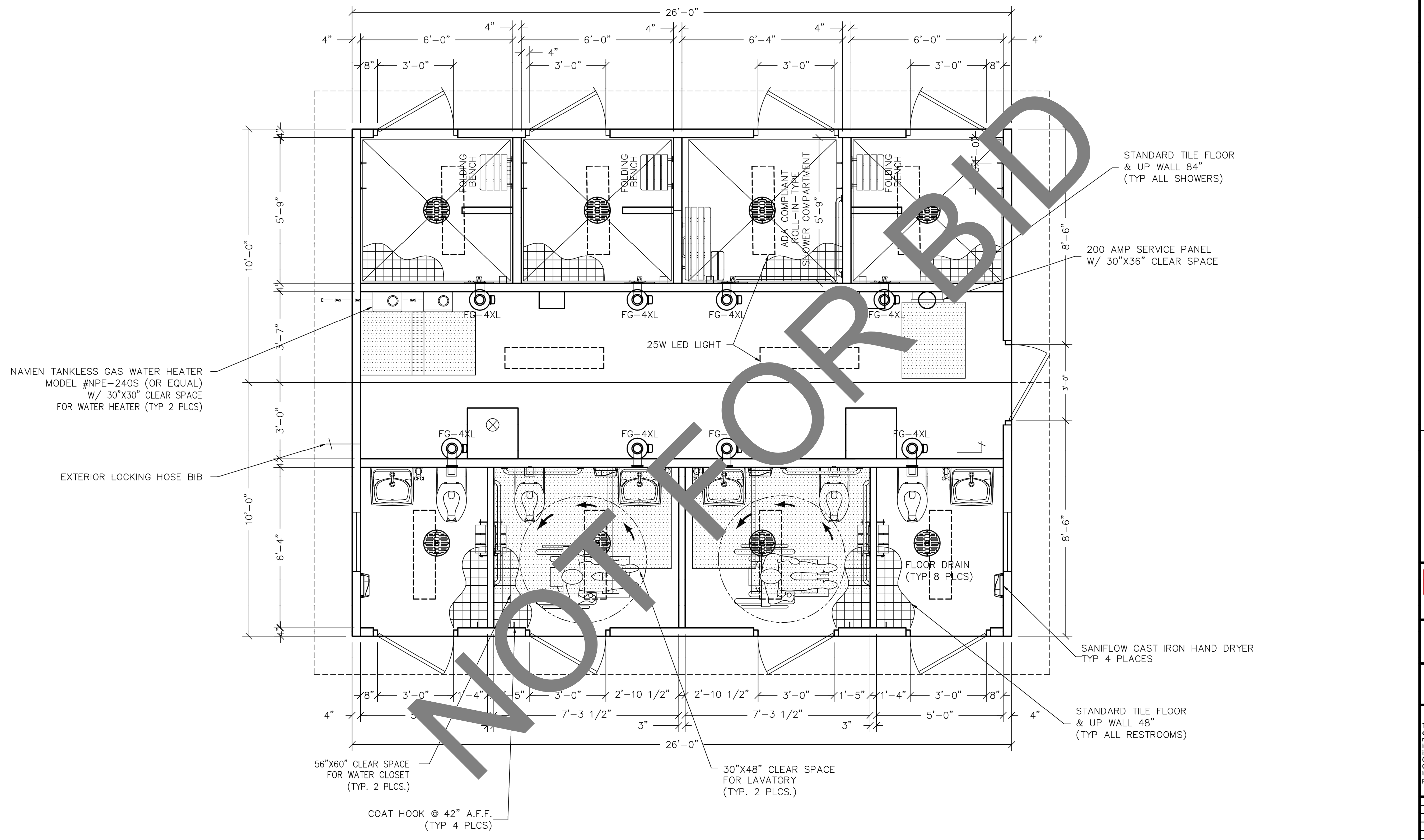
SHEET OF XX SHEETS



SHEET: A-101

SCALE: NTS 1

MARINE PACKAGE  
SHOWER SECTION



NAVIEN TANKLESS GAS WATER HEATER  
MODEL #NPE-240S (OR EQUAL)  
W/ 30\"X30\" CLEAR SPACE  
FOR WATER HEATER (TYP 2 PLCS)

EXTERIOR LOCKING HOSE BIB

STANDARD TILE FLOOR  
& UP WALL 84\"  
(TYP ALL SHOWERS)

200 AMP SERVICE PANEL  
W/ 30\"X36\" CLEAR SPACE

25W LED LIGHT

SANIFLOW CAST IRON HAND DRYER  
TYP 4 PLACES

STANDARD TILE FLOOR  
& UP WALL 48\"  
(TYP ALL RESTROOMS)

56\"X60\" CLEAR SPACE  
FOR WATER CLOSET  
(TYP. 2 PLCS.)

30\"X48\" CLEAR SPACE  
FOR LAVATORY  
(TYP. 2 PLCS.)

COAT HOOK @ 42\" A.F.F.  
(TYP 4 PLCS)



6707 E. Flamingo Ave. Bldg 300, Nampa, ID 83687  
901 N. Highway 77 Hillsboro, TX 76645  
362 Waverly Road Williamstown, WV 26187

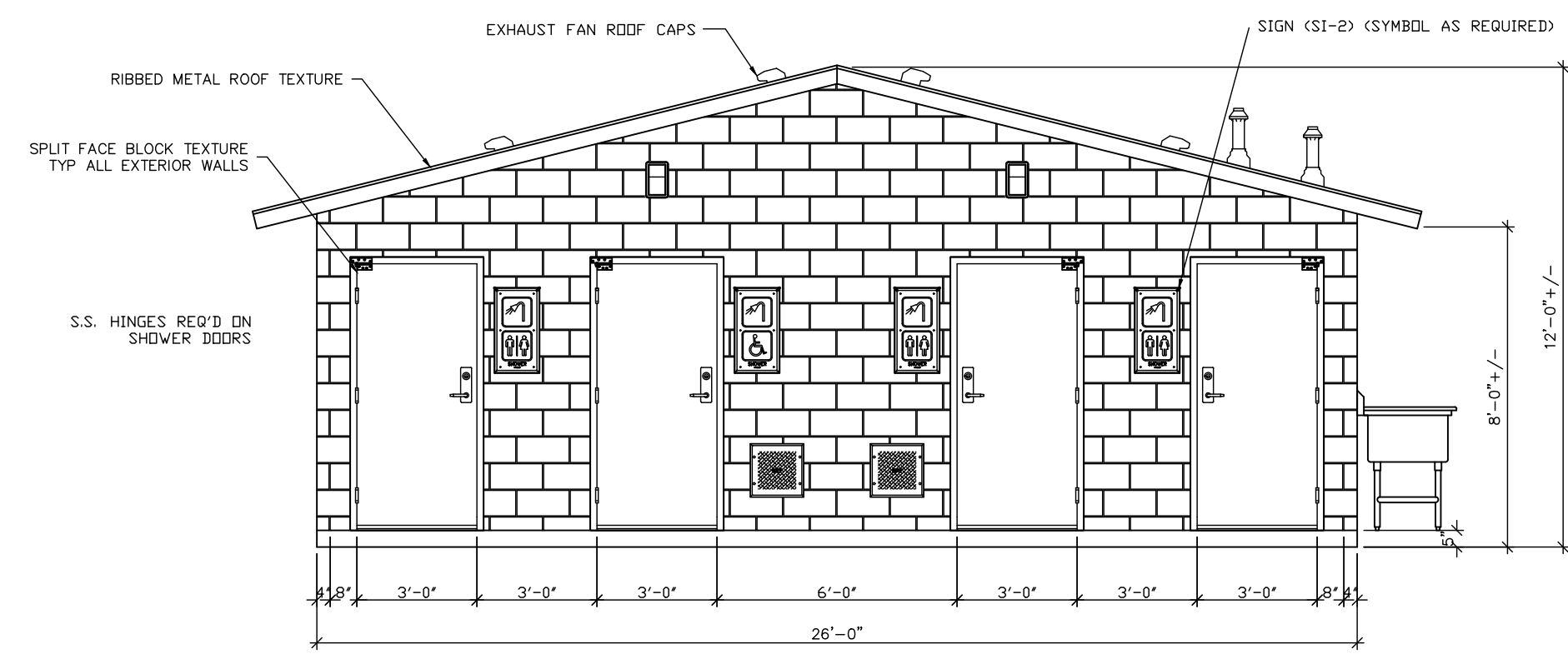
PROJECT TITLE  
**SANTIAGO**  
BUILDING NUMBER S-404

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CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4\"=1'-0\"	DATE	9-28-22
DRAWN	MATT BRANCO	FILE NO.	S-404
CHECKED	BHA	PLOT	48

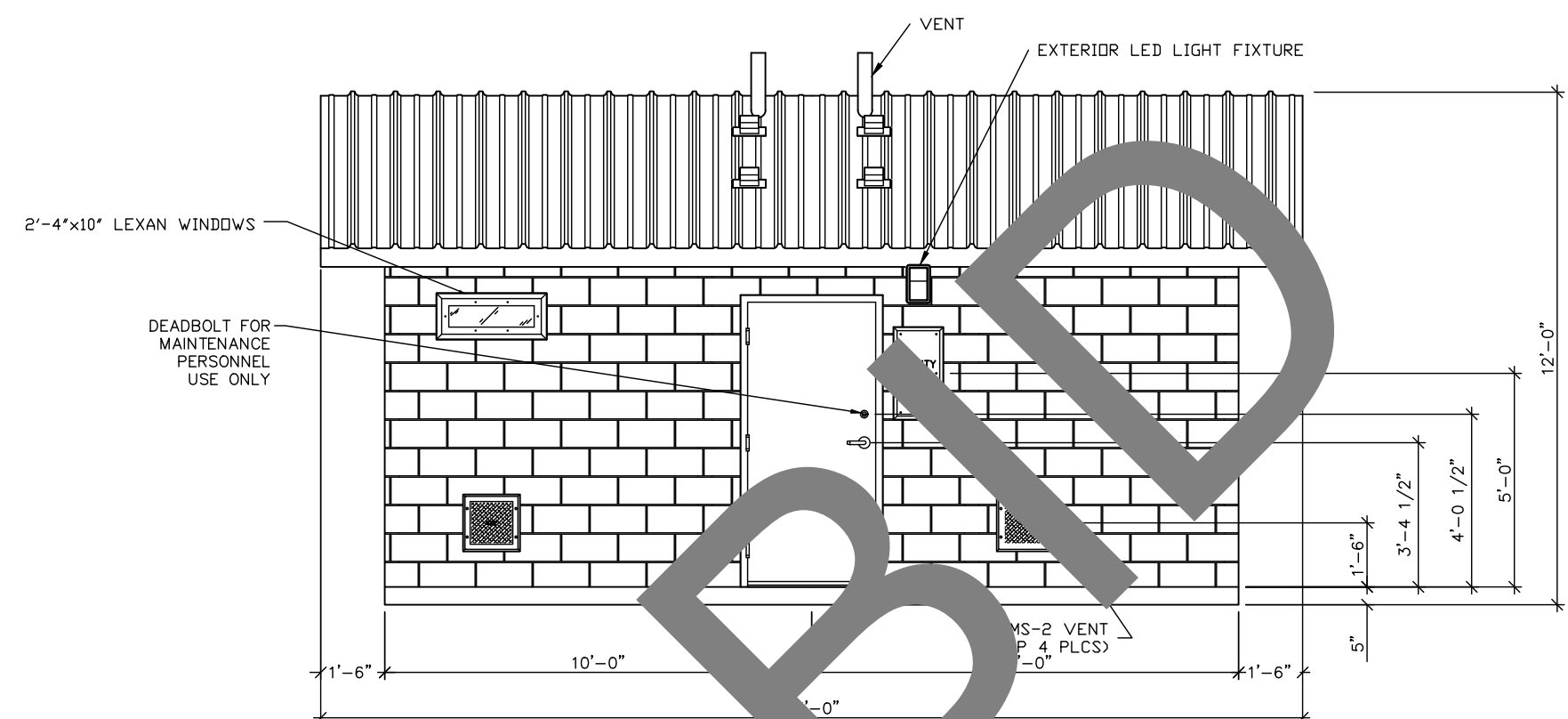
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DWG NO.	SHEET	REV.
S-03	3	0
	34	



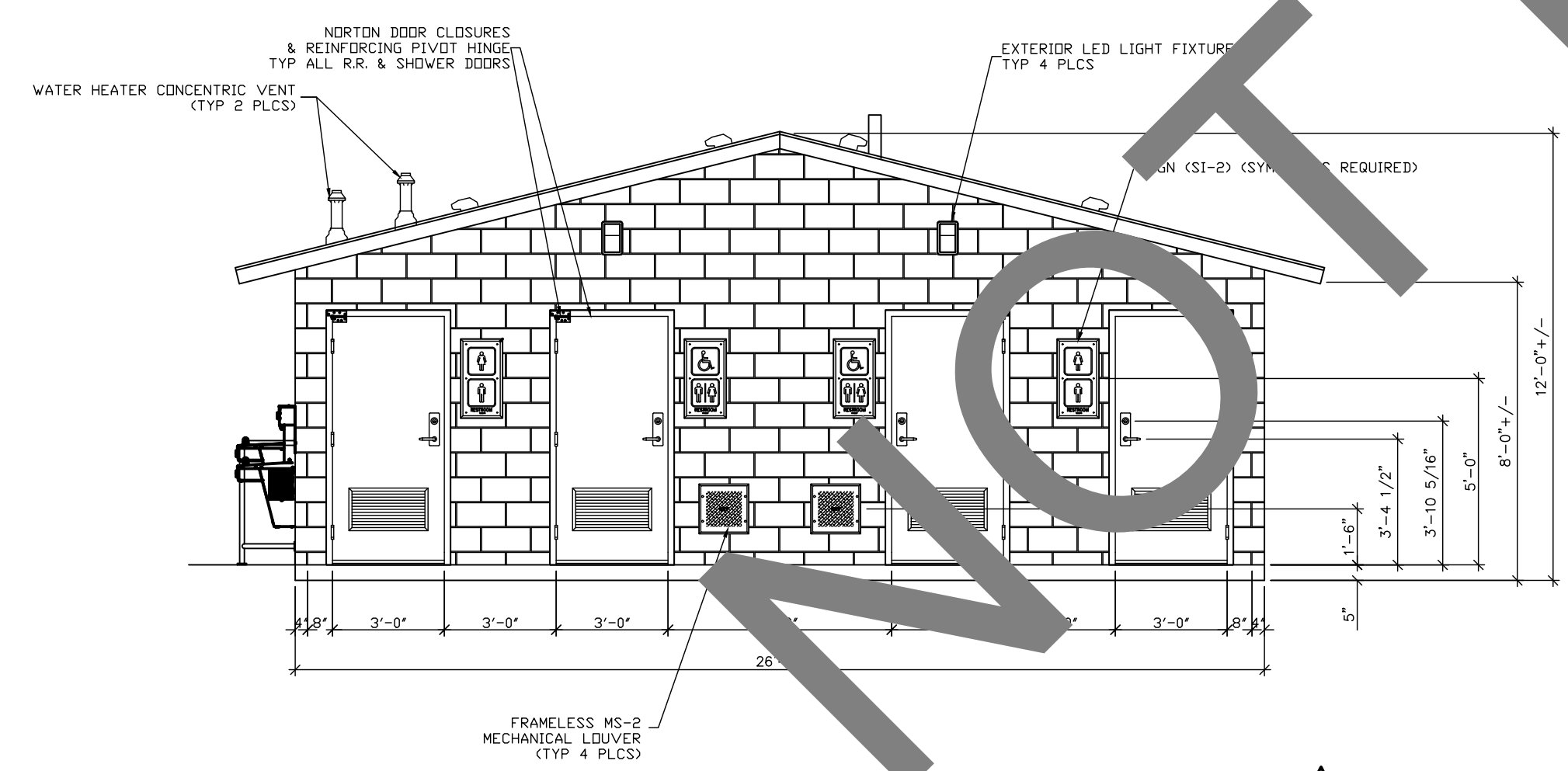
EAST ELEVATION  
SCALE: 1/4" = 1'-0"

2



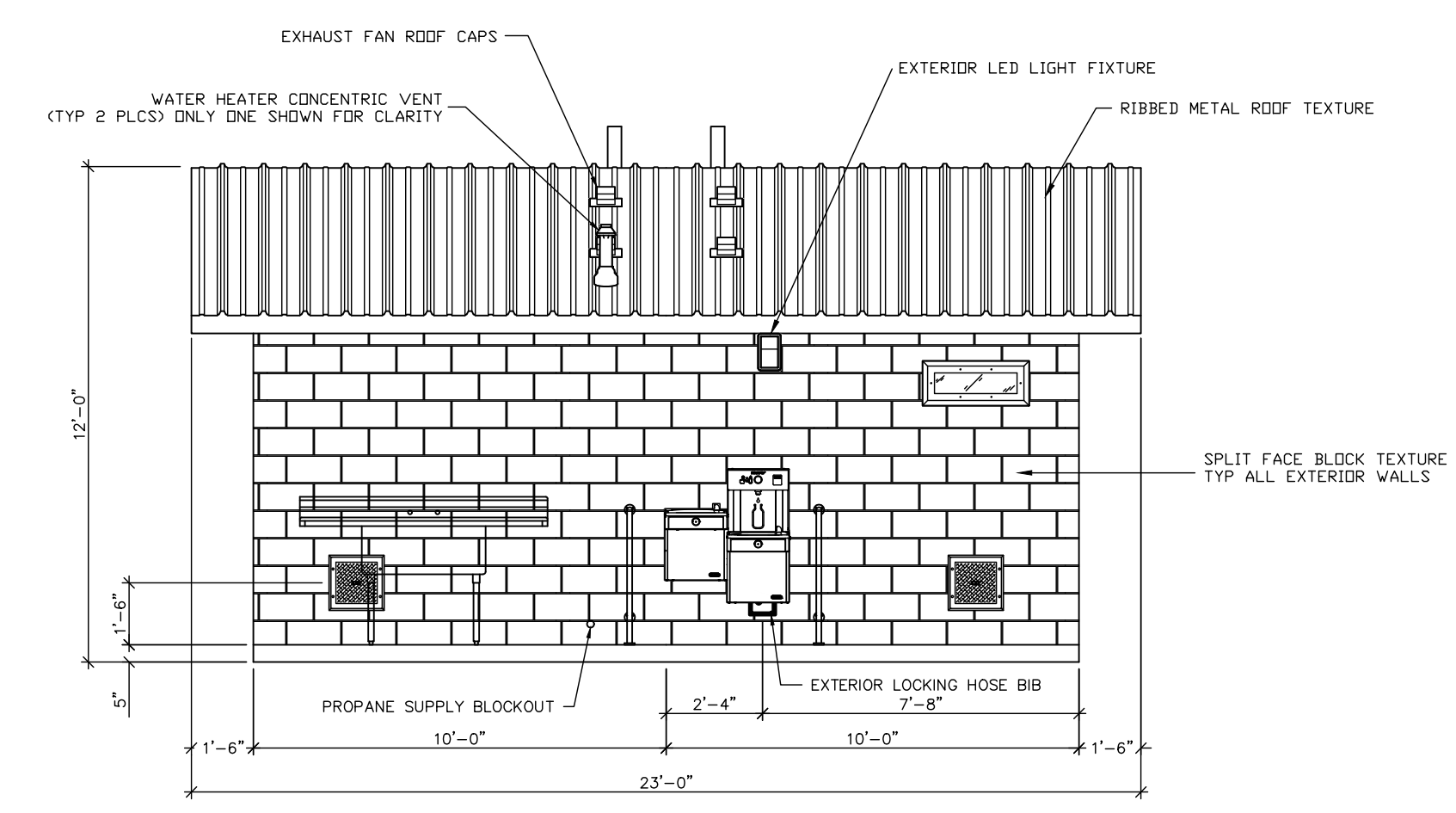
SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"

1



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

2



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

1

**LB Foster**  
CXT® Products

6707 E. Flamingo Ave. Bldg 300, Nampa, ID 83687  
901 N. Highway 77 Hillsboro, TX 76645  
362 Waverly Road Williamstown, WV 26187

PROJECT TITLE  
**SANTIAGO**  
BUILDING NUMBER S-404

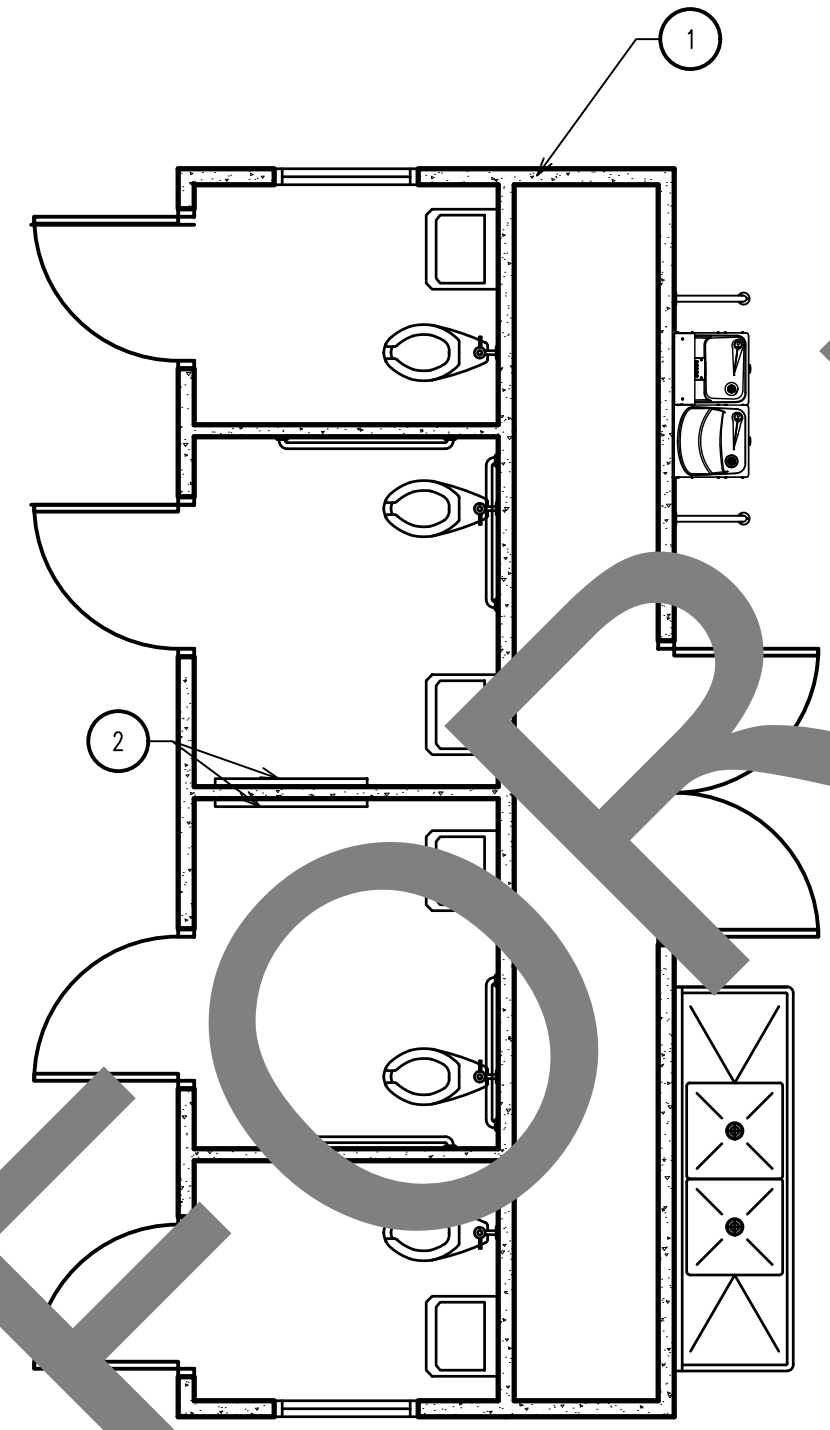
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CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4"=1'-0"	DATE	9-28-22
DRAWN	MATT BRANCO	FILE NO.	S-404
CHECKED	BHA	PLOT	48

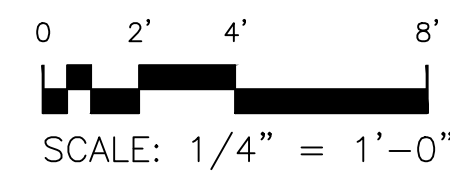
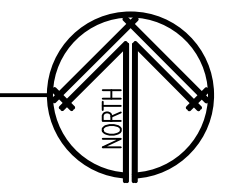


DRAWING NAME: Z:\PROJECTS\2023 PROJECTS\SB CO. PRADO RV CAMP RESTROOM REMODEL 2300050.RA\DRAWINGS\CONSTRUCTION DOCUMENTS\A-102.DWG | PLOT DATE: 3/29/2024 4:55 PM | PLOTTED BY: PAWEŁ KRYSZEWSKI | COPYRIGHT 2016 MILLER ARCHITECTURAL CORPORATION. ALL RIGHTS RESERVED.

NOT FOR BID



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



**GENERAL NOTES:**

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**KEY NOTES:** (X)

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2. HORIZONTAL BABY CHANGING STATION BY FOUNDATIONS PROVIDED AND INSTALLED BY CONTRACTOR SURFACE MOUNTED - STAINLESS STEEL, 250 LB CAPACITY-100SSC-SM. SEE DETAIL 1/A-102

**LEGEND:**

  CONCRETE TILT-UP PANEL



1177 Idaho Street, Suite 200  
Redlands, CA 92374  
Phone: (909) 335-7400  
Fax: (909) 335-7299  
info@miller-aip.com



**owner approval**

initials	date	phase
	00/00/00	--

**revisions/addenda**

mark	date	comment
△	00/00/00	--
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SAN BERNARDINO COUNTY PRADO RV CAMP  
RESTROOM REMODEL  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 2300050.RA  
DWG FILE: A-102.DWG  
DRAWN BY: P.K.  
CHECKED BY: GWM  
DRAWING SCALE: 1/4" = 1'-0"  
DATE: 2/28/2024

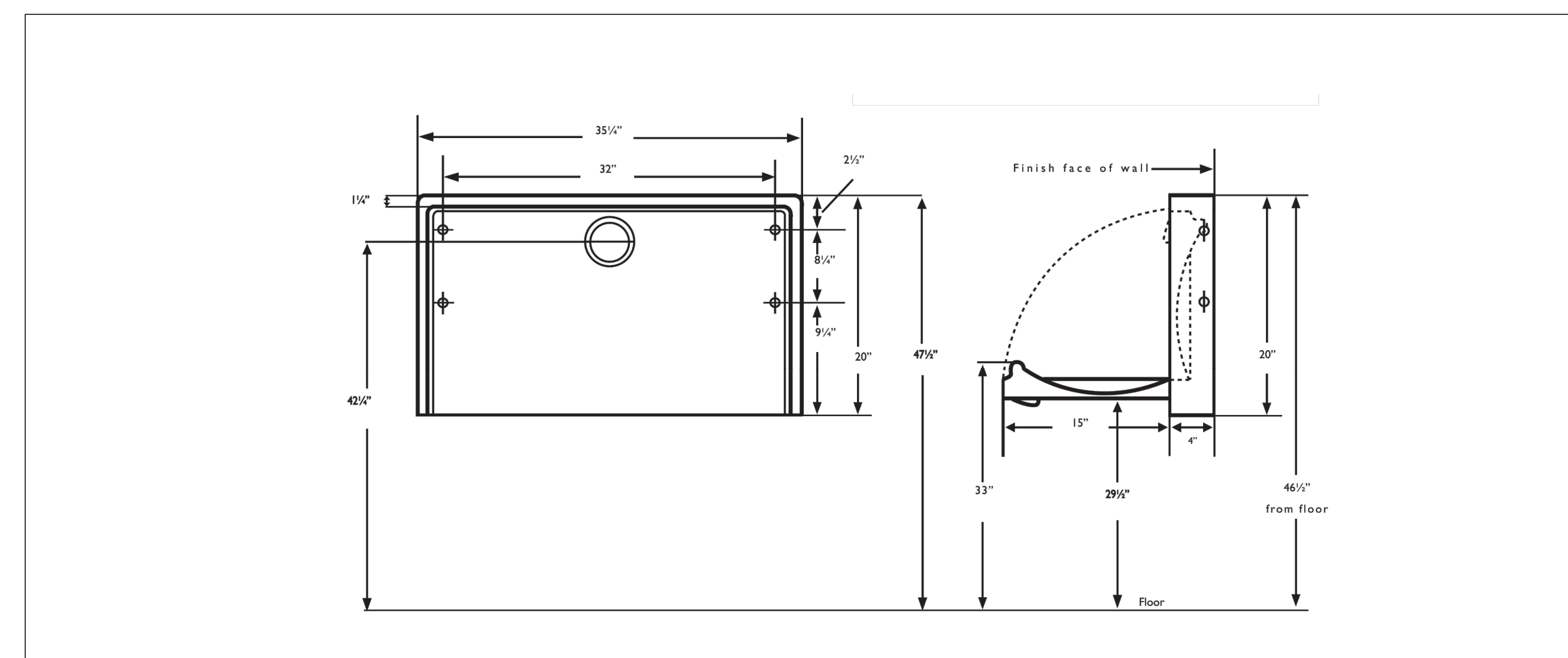
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FLOOR PLAN

**sheet number**

A-102

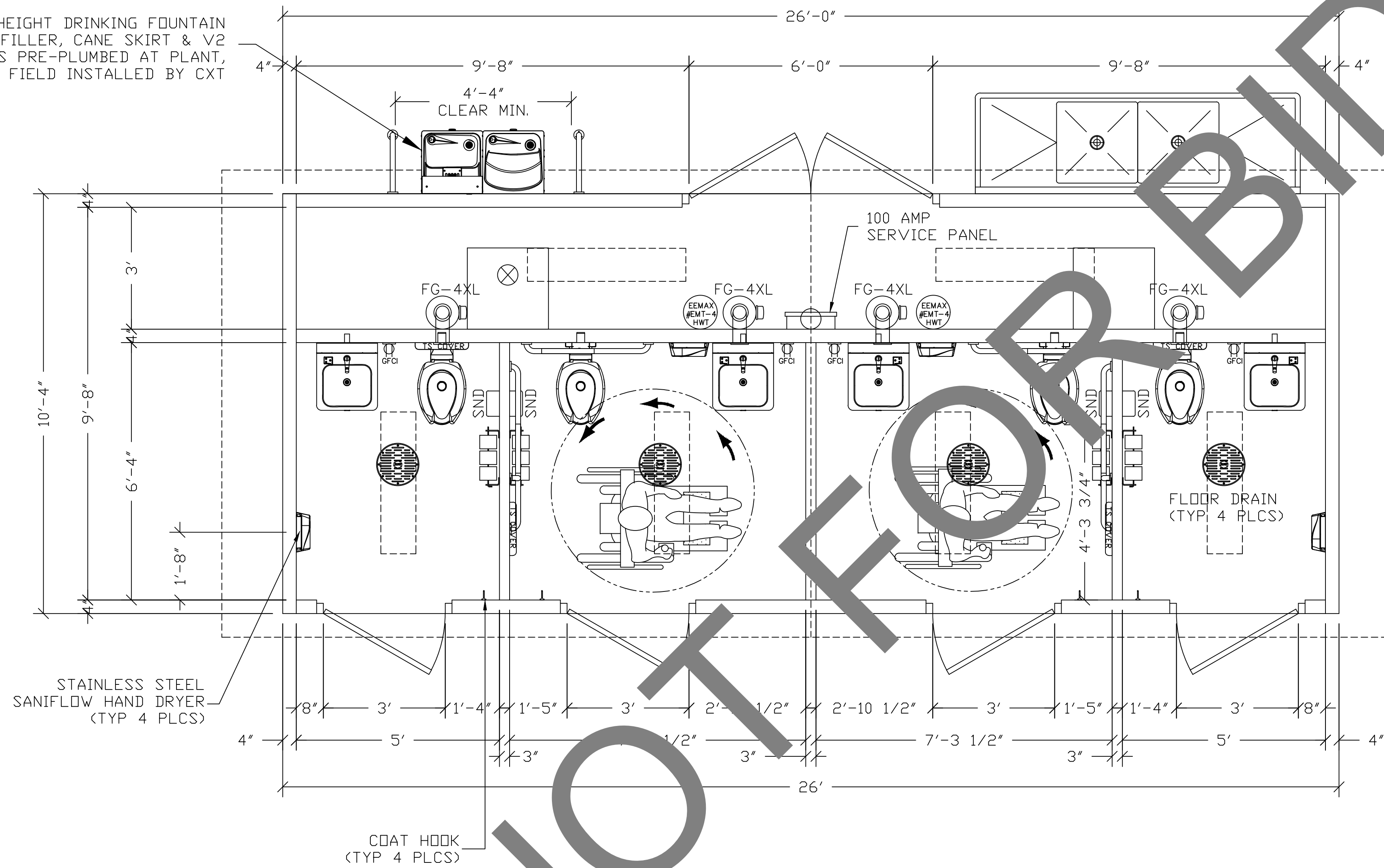
SHEET OF XX SHEETS



SHEET: A-101

SCALE: NTS 1

ELKAY ADA DUAL HEIGHT DRINKING FOUNTAIN  
W/ BOTTLE FILLER, CANE SKIRT & V2  
BARRIER BARS PRE-PLUMBED AT PLANT,  
SHIPPED LOOSE & FIELD INSTALLED BY CXT



NOT FOR BID



**CXT**  
**Precast Products**

6701 E Flamingo Ave Bldg 300 Nampa, ID 83687  
901 N. Highway 77 Hillsboro, TX 76645  
362 Waverly Road Williamstown, WV 26187

PROJECT TITLE  
**SANTIAGO**  
BUILDING NUMBER S-349

NOTICE

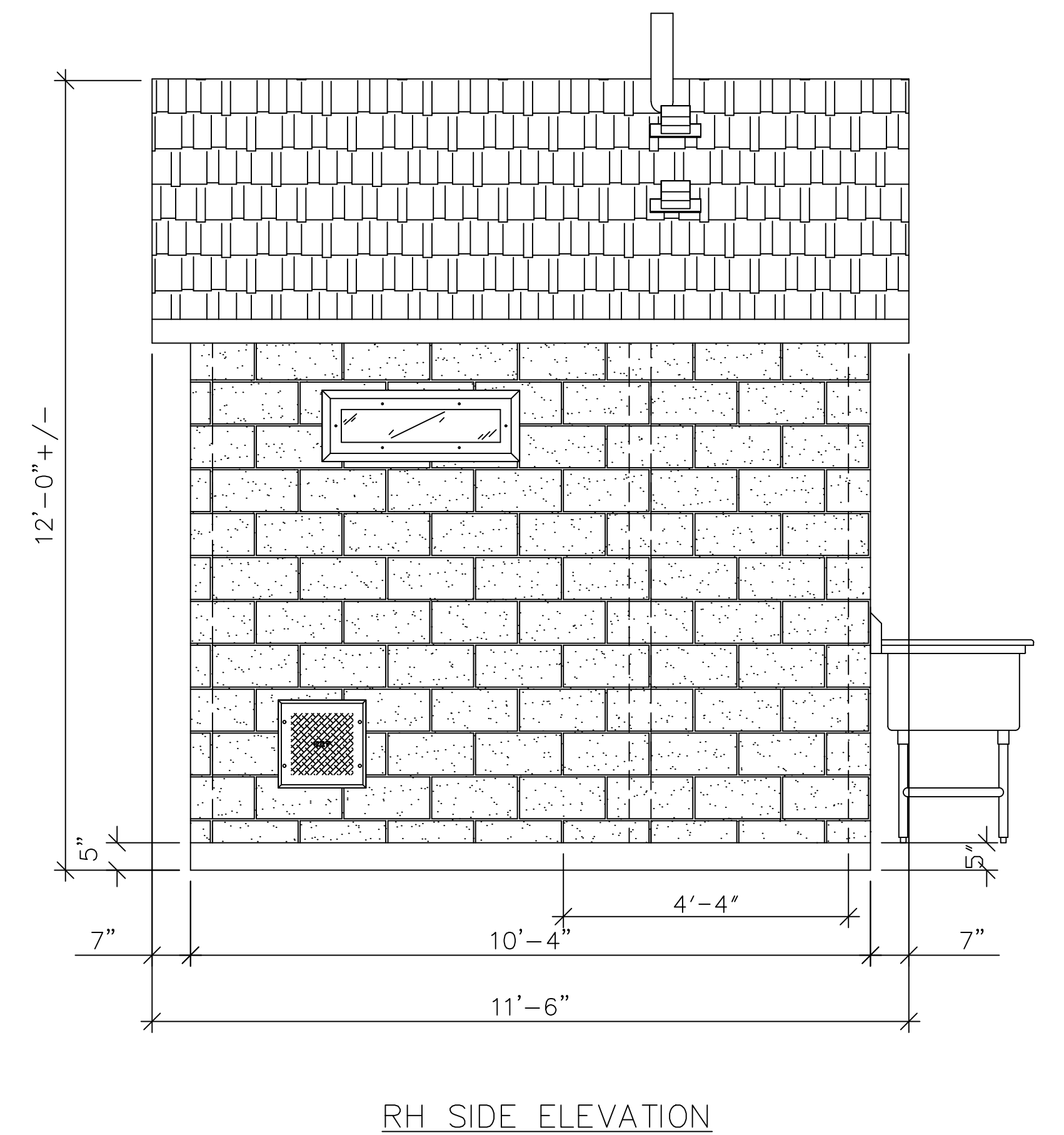
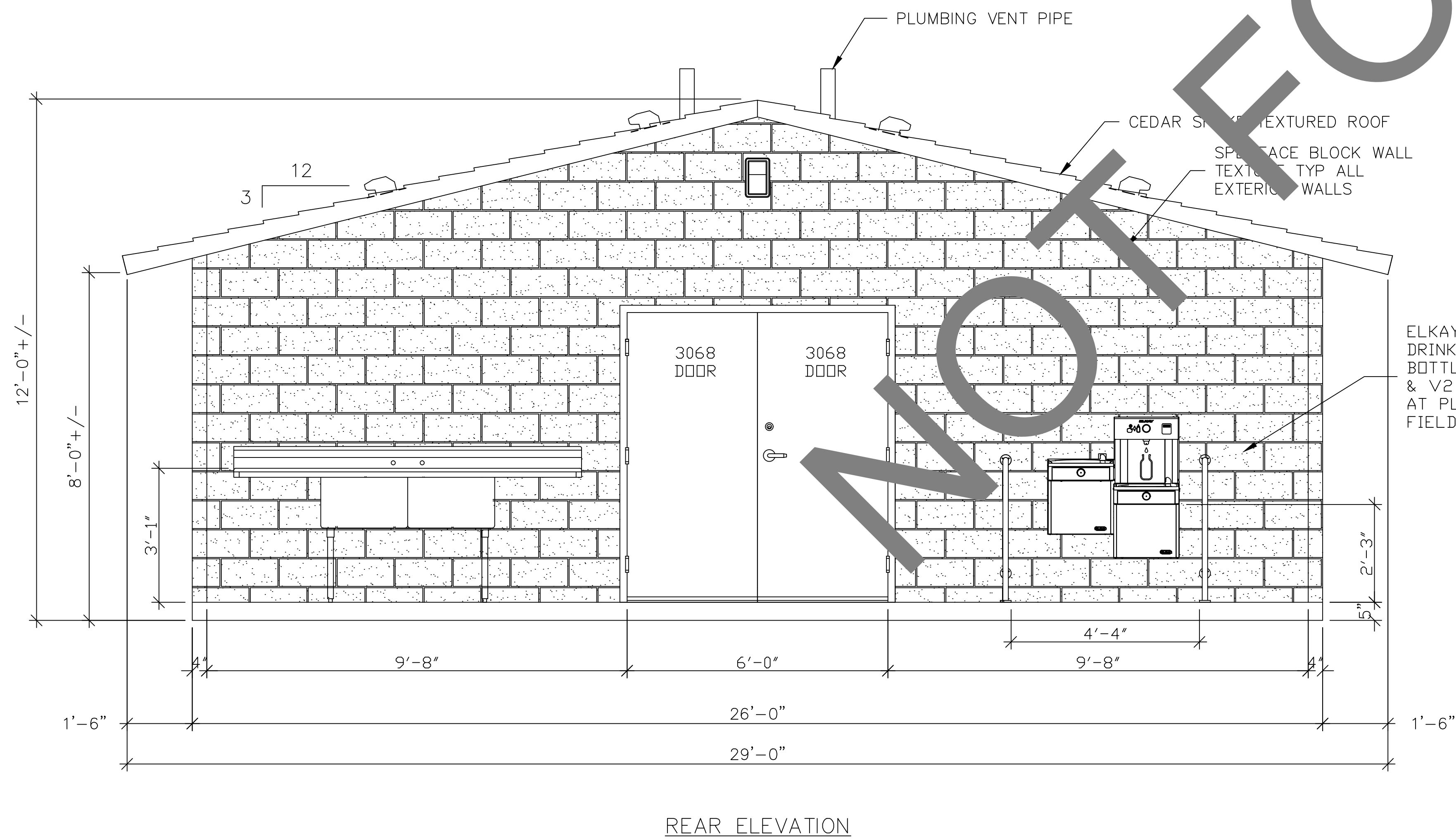
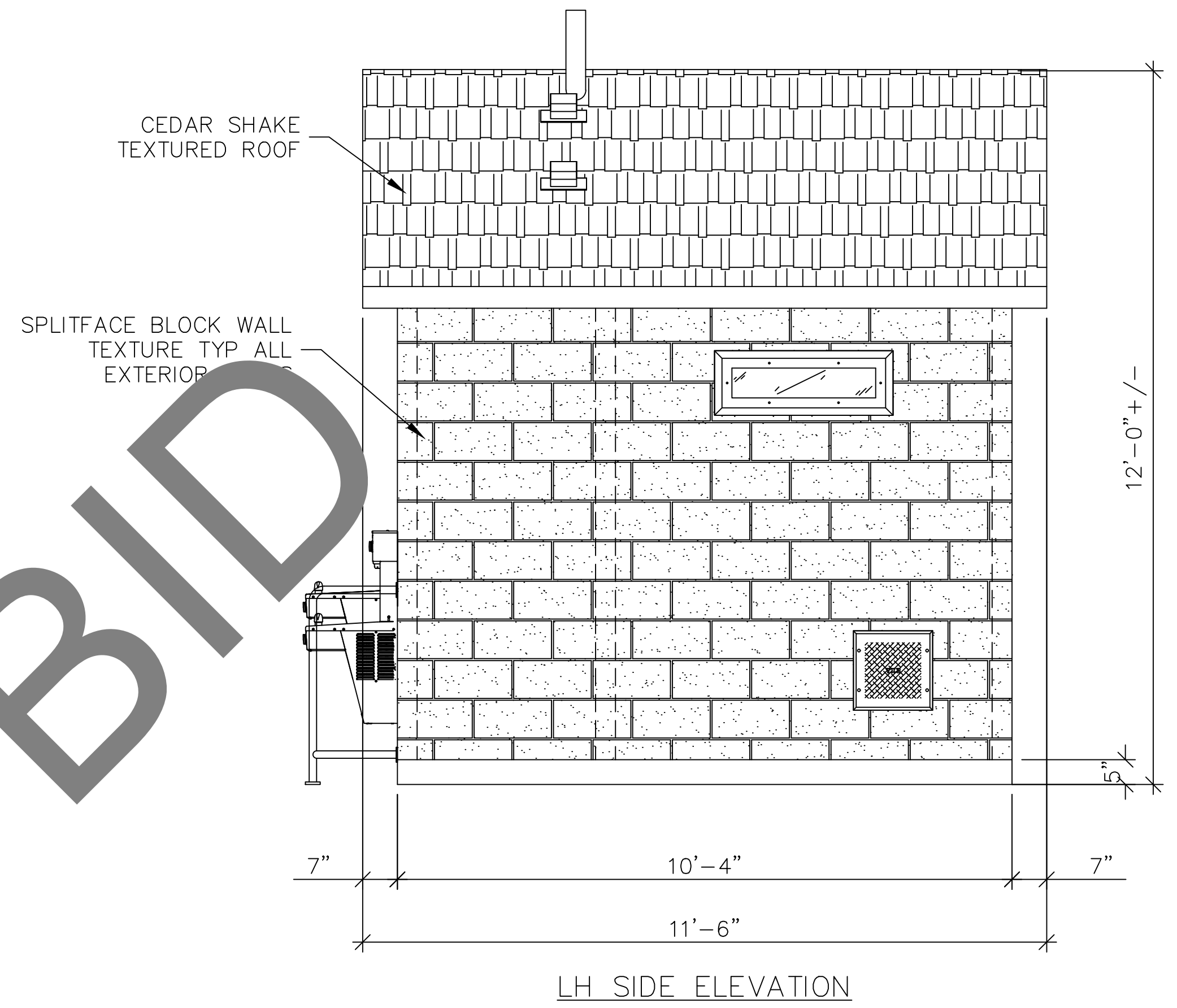
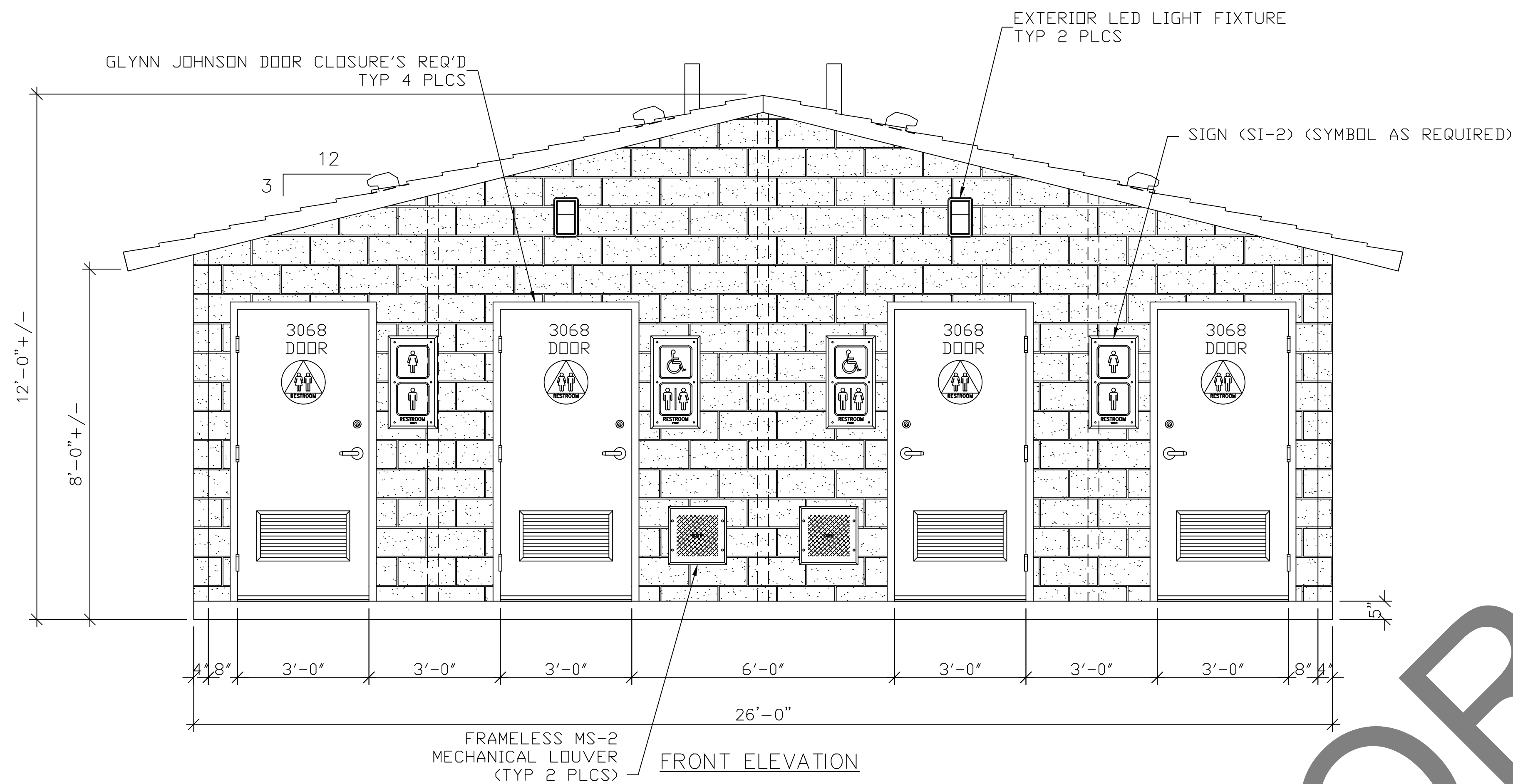
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1	DF MODEL CHANGE, ADD PRIMER	MSB	1-10-22
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4"=1'-0"	DATE	10-18-21
DRAWN	MATT BRANCO	FILE NO.	S-349
CHECKED	BSA	PLOT	48

FLOOR PLAN

DWG NO.	S-03	SHEET	3	REV.	1
			24		



**Precast Products**

6701 E Flamingo Ave Bldg 300 Nampa, ID 83687  
 901 N. Highway 77 Hillsboro, TX 76645  
 362 Waverly Road Williamstown, WV 26187

PROJECT TITLE  
**SANTIAGO**  
 BUILDING NUMBER S-349

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REV.	DESCRIPTION	APPROVAL	DATE
1	DF MODEL CHANGE, ADD PRIMER	MSB	1-10-22
SCALE	1/4"=1'-0"	DATE	10-18-21
DRAWN	MATT BRANCO	FILE NO.	S-349
CHECKED	BSA	PLOT	48

**BUILDING ELEVATIONS**

DWG NO.	SHEET	REV.
S-04	4	1
	24	

**GENERAL GRADING NOTES**

- A GRADING PERMIT FROM THE BUILDING DEPARTMENT IS REQUIRED. ALL GRADING SHALL COMPLY WITH THE REQUIREMENTS OF THE SAN BERNARDINO COUNTY GRADING ORDINANCE NO.457, THE LATEST EDITION OF THE UNIFORM BUILDING CODE, APPENDIX CHAPTER 33, THESE PLANS & SPECIAL INSTRUCTIONS OF THE PERMIT.
- A PRE-GRADING MEETING AT THE SITE IS REQUIRED AMONG THE CIVIL ENGINEER OF RECORD AND THE GRADING CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK.
- THE UNDERSIGNED CIVIL ENGINEER ACCEPTS THE RESPONSIBILITY FOR PROFESSIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 3317 OF THE UNIFORM BUILDING CODE (U.B.C.). THE CIVIL ENGINEER ALSO SHALL BE RESPONSIBLE FOR THE PREPARATION OF REVISED PLANS AND THE SUBMISSION OF AS-GRADED GRADING PLAN BATHROOM #1S UPON COMPLETION OF THE WORK.
- THE GRADING CONTRACTOR SHALL SUBMIT A STATEMENT OF COMPLIANCE TO THE AS-BUILT PLAN.
- PROPOSED STARTING DATE OF GRADING APRIL 1, 2024; COMPLETION AUG 1, 2024. ANY GRADING OPERATIONS BETWEEN OCTOBER 1 AND APRIL 15 WILL REQUIRE SUBMITTAL OF TEMPORARY DRAINAGE AND EROSION CONTROL PLANS FOR REVIEW AND APPROVAL. THE CONTROL DEVICES SHOWN ON SAID PLANS MUST BE INSTALLED NOT LATER THAN NOVEMBER 1 AND BE MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15.
- ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSPECTIONS BEFORE POURING.
- NO FILL TO BE PLACED UNTIL PREPARATION OF THE ORIGINAL GROUND IS APPROVED.
- NO ROCKS GREATER THAN 4 INCHES IN DIAMETER MAY BE PLACED IN FILL.
- ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER ASTM D 1557.
- FILL MAY NOT BE PLACED ON EXISTING TERRAIN WHICH SLOPES GREATER THAN 2:1.
- HOLD (TOP) (TOE) OF SLOPE 5' MIN., FEET FROM (PROPERTY LINE) (BUILDING LOCATION).
- SLOPE OF PROPOSED FILL BANKS TO BE NO STEEPER THAN 2' HORIZONTAL TO 1' VERTICAL.
- SLOPE OF PROPOSED CUT BANKS TO BE NO STEEPER THAN 1.5:1.
- WALLS REQUIRE A SEPARATE PERMIT, SUBMITTED AND APPROVED WITH THE GRADING PLAN BATHROOM #1.
- TRANSPORTATION DEPARTMENT PERMIT IS REQUIRED FOR ANY CONSTRUCTION, TEMPORARY OR PERMANENT, ON COUNTY RIGHT-OF-WAY OR FOR USE OF COUNTY MAINTAINED ROADS BY OVERLOAD EQUIPMENT.
- THE COUNTY INSPECTOR IS TO BE CONTACTED TO SCHEDULE A SITE PRE-GRADING MEETING 48 HOURS PRIOR TO START OF GRADING.
- IN THE ABSENCE OF A SOILS REPORT WHERE A DAYLIGHT LINE (THE TRANSITION FROM CUT TO FILL) PASSES THROUGH A BUILDING PAD OR POOL, THE CUT PORTION SHALL BE EXCAVATED BY AT LEAST 18" BELOW THE BOTTOM OF THE FOOTING. THE FILL SHALL BE REBUILT AS COMPACTED METHODS UNDER THE ENTIRE BUILDING PAD.

**SIDEWALK CONSTRUCTION NOTES**

- ALL WORK SHALL COMPLY WITH AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS AND PRACTICES.
- SIDEWALK AND RAMPS SHALL BE 4 INCHES THICK CLASS B P.C.C. AND ATTAIN 3,000 PSI COMPRESSIVE STRENGTH AFTER 28 DAY CURING. SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO 90% MAX. DRY DENSITY PER ASTM 1557 WITH OPTIMAL MOISTURE.
- THE MAXIMUM JOINT SPACING IN FEET SHOULD NOT EXCEED 2.5 TIMES THE THICKNESS IN INCHES.
- THE DISTANCE BETWEEN JOINTS SHALL NOT EXCEED 1.5 TIMES THE WIDTH.
- PROVIDE STRAIGHT JOINTS PARALLEL WITH OR AT RIGHT ANGLES TO THE WALK CENTERLINE. JOINTS SHALL BE ALIGNED WITH JOINTS IN ADJOINING WORK UNLESS ISOLATED BY 1/2-INCH PREFORMED ISOLATION MATERIAL.
- JOINT GROOVE SHALL HAVE A DEPTH OF 1/4 THE THICKNESS OF THE SLAB, BUT NOT LESS THAN ONE INCH. TOOLED JOINTS MUST BE RUN EARLY IN THE FINISHING PROCESS AND RERUN LATER TO ASSURE GROOVE BOND HAS NOT OCCURRED. CONTROL JOINTS CAN BE TOOLED DURING FINISHING OR SAWED WITH A CARBORUNDUM BLADE WITHIN 24 HOURS OF PLACEMENT.
- CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE TO AVOID PONDING. ALL EXTERIOR CONCRETE FLAT WORK SHALL HAVE A MINIMUM 0.5% SLOPE IN AT LEAST ONE DIRECTION.
- CONCRETE PAVEMENT SMOOTHNESS: ALL CONCRETE PAVEMENT BID ITEMS ARE GOVERNED BY THE STRAIGHTEDGE EVALUATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIVE WORK THAT IS NOT IN COMPLIANCE WITH THE FOLLOWING:
  - STRAIGHTEDGE EVALUATION: THE ENGINEER WILL ALLOW VARIATIONS LESS THAN OR EQUAL TO 1/4 INCH WITHIN THE SPAN OF A 10-FOOT STRAIGHTEDGE IN THE LONGITUDINAL OR TRANSVERSE DIRECTION TO REMAIN IN PLACE WITHOUT CORRECTION OR PENALTY. THE ENGINEER WILL REQUIRE CORRECTIVE WORK ON SURFACE DEVIATIONS GREATER THAN 1/4 INCH WITHIN THE SPAN OF THE 10-FOOT STRAIGHTEDGE IN ANY DIRECTION. FOR CORRECTED VARIATIONS, THE ENGINEER WILL ACCEPT DEVIATIONS LESS THAN OR EQUAL TO 1/4 INCH WITHIN THE SPAN OF 10-FOOT STRAIGHTEDGE IN ANY DIRECTION.
  - REGARDLESS OF SMOOTHNESS THE MAXIMUM CROSS SHALL NOT EXCEED 2% (1:50).
  - REGARDLESS OF SMOOTHNESS THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (1:20). EXCEPT WHERE RAMPS WITH HANDRAILS ARE SHOWN ON THE PLANS. IN WHICH CASE, REGARDLESS OF SMOOTHNESS, THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 8.33% (1:12).
- ALL SIDEWALKS SHALL PROVIDE A 48" MINIMUM UNOBSTRUCTED WIDTH.
- DOORS THAT ENCRoACH INTO WALKWAYS SHALL HAVE A MINIMUM 60" X 60" LEVEL LANDING WITH MAXIMUM SLOPE OF 2.0% (1:50) IN ANY DIRECTION. LANDING SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR.
- DOORS THAT SWING AWAY FROM WALKWAYS SHALL HAVE A MINIMUM 48" WIDE X 44" DEEP LEVEL LANDING WITH A MAXIMUM SLOPE OF 2.0% (1:50) IN ANY DIRECTION. LANDING SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR.
- ALL SIDEWALKS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDING.
- ABRUPT CHANGES IN LEVELS SHALL BE AVOIDED WHERE POSSIBLE AND SHALL NOT EXCEED 1/4".
- EXISTING LEVEL CHANGES BETWEEN 1/4" - 1/2" SHALL BE BEVELED WITH A MINIMUM GRADIENT OF 50% (1:2).
- ABRUPT CHANGES IN LEVEL ADJACENT TO WALKWAY/SIDEWALK SHALL NOT EXCEED 4" WITHOUT PROVIDING WARNING CURB, EXCEPT WHEN WALKWAY/SIDEWALK IS ADJACENT TO STREET OR DRIVEWAY.
- ABRUPT CHANGES IN LEVELS ADJACENT TO WALKWAY/SIDEWALK EXCEEDING 4" IN VERTICAL DIMENSION SHALL BE IDENTIFIED BY CURB PROJECTING AT LEAST 6" IN HEIGHT ABOVE SIDEWALK.
- IF LEVEL CHANGES BETWEEN WALKWAY/SIDEWALK AND ADJACENT GRADE EXCEEDS 30" IN HEIGHT HANDRAILS SHALL BE PROVIDED.
- CONTRACTOR SHALL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING IF ANY SURFACES DO NOT COMPLY WITH THE ABOVE STANDARDS OR IF ANY DISCREPANCIES APPEARS ON THESE PLANS.
- FINISH SURFACE WITH A FINE CONCRETE FINISHING BROOM.
- THESE STANDARDS DO NOT SUPERSEDE ANY STANDARDS, DRAWINGS OR REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC), LATEST EDITION, OR AS REQUIRED BY ADA/CALDAG.

# SAN BERNARDINO COUNTY GRADING PLAN BATHROOMS

## PRADO REGIONAL PARK

16700 S. EUCLID AVE  
CHINO, CA. 91709

APN:1057-201-10

**PROPERTY OWNER**

UNITED STATES OF AMERICA  
SAN BERNARDINO COUNTY  
777 E RIALTO AVENUE  
SAN BERNARDINO CA 92415

**PROPERTY ADDRESS:**

16700 S. EUCLID AVENUE  
CHINO, CA 91709

**SOURCE OF TOPOGRAPHY**

GROUND SURVEY BY:  
JOSEPH E. BONADIMAN & ASSOCIATES, INC.  
234 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92408  
(909) 885-3806

DATED: AUGUST 8, 2023

**UTILITY INFORMATION**

WATER: THE CITY OF CHINO  
13220 CENTRAL AVE.  
CHINO, CA 91710  
909-334-3464

WATER: THE CITY OF CHINO  
13220 CENTRAL AVE.  
CHINO, CA 91710  
909-334-34641

GAS: THE GAS COMPANY  
13521 12TH STREET (EAST), CHINO, CA 91710  
800-427-4777

ELECTRICITY: SOUTHERN CALIFORNIA Edison  
1500 7TH STREET, CHINO, CA 91710  
800-427-4555

TELEPHONE: SPECTRUM  
(855) 860-9068

CELL: SPECTRUM  
(855) 860-9068

**DEMOLITION NOTES:**

QTY	DESCRIPTION
3 EA.	REMOVE EXISTING BUILDING.
2	REMOVE EXISTING MASONRY WALL.
3	REMOVE EXISTING CONCRETE.
4 EA.	REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE.
6 EA.	REMOVE AND SALVAGE EXISTING BENCH.
1 EA.	REMOVE AND SALVAGE EXISTING SIGN.
540 SF.	REMOVE EXISTING ASPHALT PAVING.
1 EA.	REMOVE AND SALVAGE EXISTING MONUMENT SIGN.
3 EA.	REMOVE EXISTING TREE.
36 SF.	REMOVED EXISTING TRASH PAD.
~	REMOVE EXISTING PAVEMENT MARKING.
~	PROTECT IN PLACE (PIP).

**CONSTRUCTION NOTES:**

QTY	DESCRIPTION
3 EA.	INSTALL PRE-CAST CONCRETE BUILDING PER MANUFACTURER'S RECOMMENDATIONS.
~	OVEREXCAVATE BEYOND THE DIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
889 SF.	CONSTRUCT 6" THICK CONCRETE (5000-C-3250) OVER 18" OF 95% COMPACTED NATIVE PER ASTM D 1557.
3,763 SF.	CONSTRUCT 4" THICK CONCRETE SIDEWALK (5600-C-3250, MEDIUM BROOM FINISH) OVER 12" OF 95% COMPACTED NATIVE PER ASTM D 1557.
26 LF.	CONSTRUCT 6" CURB ONLY PER SPPWC 121-3, SEE SHEET B.
758 SF.	CONSTRUCT 4" DEPTH AC PATCH OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
~	NOT USED.
85 SF.	INSTALL DETECTABLE WARNING PER CALTRANS DETAIL A88A, SEE SHEET B.
2 EA.	INSTALL ADA PARKING SIGN PER CALTRANS STD. A90A, SEE SHEET B.
2 EA.	INSTALL WHEEL STOP PER CALTRANS STD. A90A, SEE SHEET B.
~	INSTALL HANDICAP PARKING STRIPING/SYMBOL PER CALTRANS STD. A90A, SEE SHEET B.
~	INSTALL 4" WHITE STRIPE PER PLAN.
~	REPAIR ALL DAMAGED IRRIGATION AND LANDSCAPING/GRASS WITHIN WORK AREA.
~	ADJUST TO GRADE.
16 LF.	CONSTRUCT SLOUGH WALL PER SPPWC STD. 622-4, SEE SHEET B.

**SHEET INDEX**

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GRADING PLAN-BATHROOM #1	5
GRADING PLAN-BATHROOM #2	6
GRADING PLAN-BATHROOM #3	7
DETAILS	8
EROSION CONTROL PLAN	9-10

**LEGEND**

ASPH	ASPHALTIC CONCRETE SURFACE		EXISTING CONCRETE SURFACE
BT	BOTTOM OF TRENCH		PROPOSED PULVERIZED ASPHALT
CB	CATCH BASIN		PROPOSED CRACK SEAL & SLURRY
C&G	CURB AND GUTTER		EXISTING ASPHALT TO BE REMOVED
CL	CENTER LINE		PROPOSED CONCRETE
DDC	DOUBLE DETECTOR CHECK DRIVEWAY		
DWY	EXISTING DRIVEWAY		
(E)	EXISTING		
FF	FINISH FLOOR		
FG	FINISH GRADE		
FL	FLOWLINE		
FS	FINISHED SURFACE		
GB	GRADE BREAK		
GW	GUY WIRE		
INV	INVERT OF PIPE		
MH	MANHOLE		
N.T.S.	NOT TO SCALE		
PP	POWER POLE		
ST	STREET		
TC	TOP OF CURB		
TF	TOP OF FOOTING		
TW	TOP OF WALL		
TYP	TYPICAL		
WI	WROUGHT IRON		
WM	WATER METER		
	RIGHT OF WAY		
	PROPERTY LINE		
	EXISTING BLOCK OR STONE WALL		
	FLOWLINE		
	GRADE BREAK		
	FILL SLOPE		
	INDICATES DIRECTION OF FLOW		
	CONTOUR ELEVATION (FEET)		
	ADA PATH OF TRAVEL		

**ENGINEER'S NOTE TO ARCHITECT:**

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

**ENGINEER'S NOTE TO CONTRACTOR:**

- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, ELEVATIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGN ENGINEER PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR INSURING ADEQUATE DRAINAGE OF ALL AREAS WITHIN WORK LIMITS. MINIMUM SLOPE GRADIENT SHALL BE 1% FOR ASPHALT AND 0.5% FOR CONCRETE. MAXIMUM SLOPE GRADIENT IN AND ADJACENT TO HANDICAP PARKING AREAS SHALL BE 2%. MAXIMUM SLOPE FOR ALL HANDICAP PATHWAYS SHALL BE 5.0% IN THE DIRECTION OF TRAVEL WITH A MAXIMUM CROSS SLOPE OF 2%.
- CONTRACTOR SHALL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING IF ANY SURFACES DO NOT COMPLY WITH THE ABOVE STANDARDS OR IF ANY DISCREPANCIES APPEARS ON THESE PLANS.
- THESE STANDARDS DO NOT SUPERSEDE ANY STANDARDS, DRAWINGS OR REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC), LATEST EDITION, OR AS REQUIRED BY ADA/CALDAG.

**ENGINEER'S STATEMENT**

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

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENTS CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PREVENT DAMAGE TO ANY UTILITY LINES SHOWN, AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

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; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. 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.

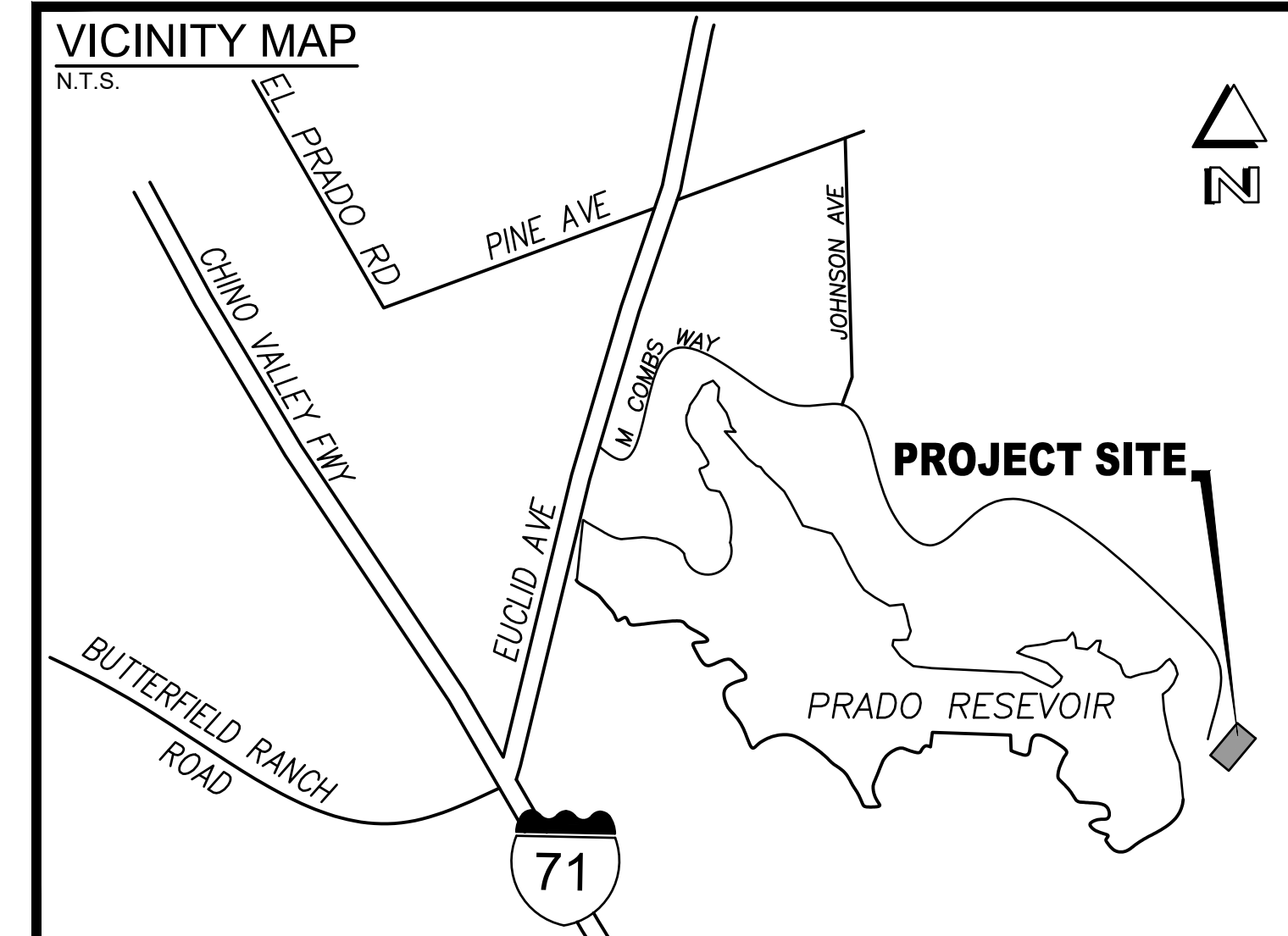
**UNAUTHORIZED CHANGES & USES**

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

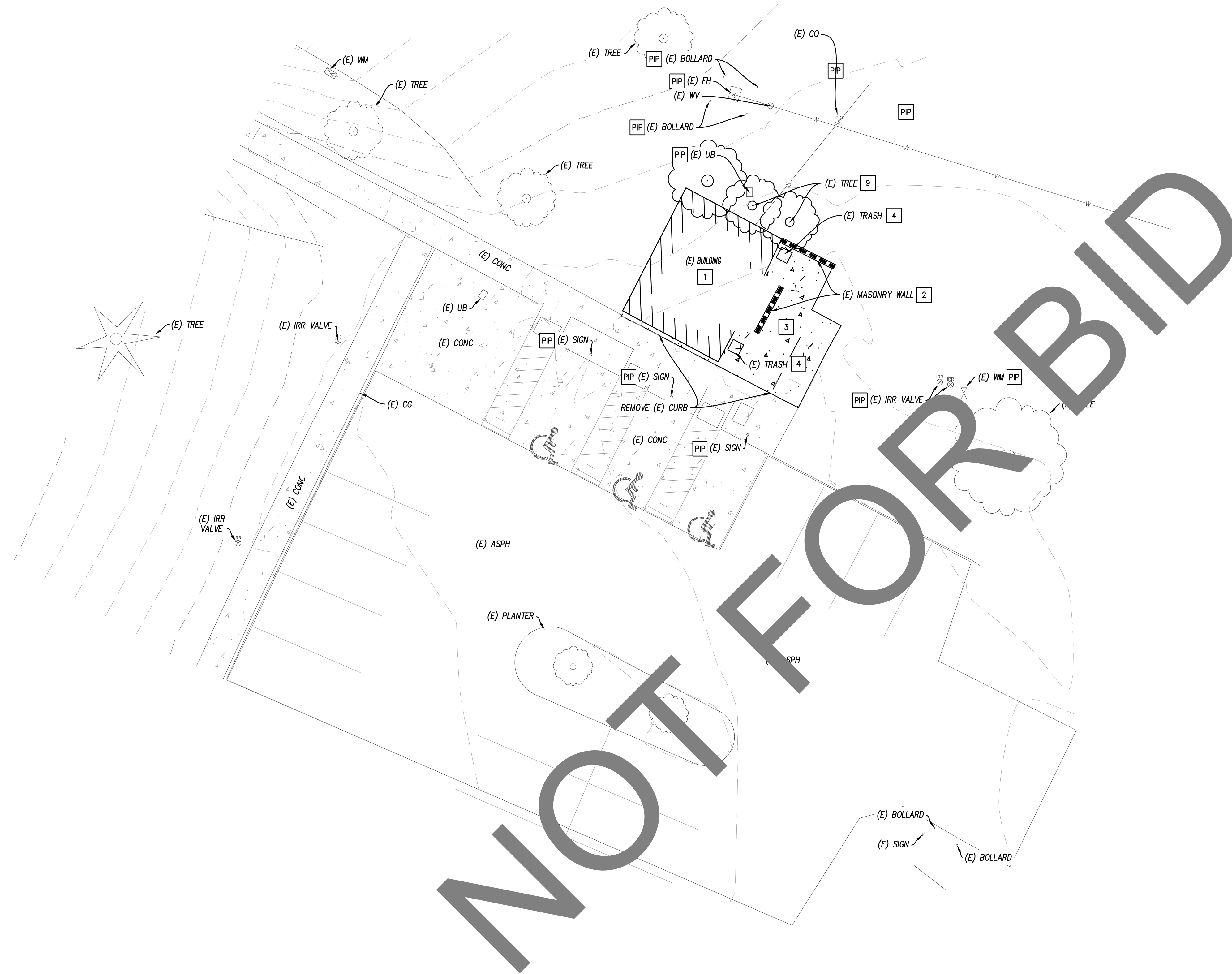
**PRIVATE ENGINEER'S NOTE TO CONTRACTOR**

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE DRAWINGS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE SAN BERNARDINO COUNTY, THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

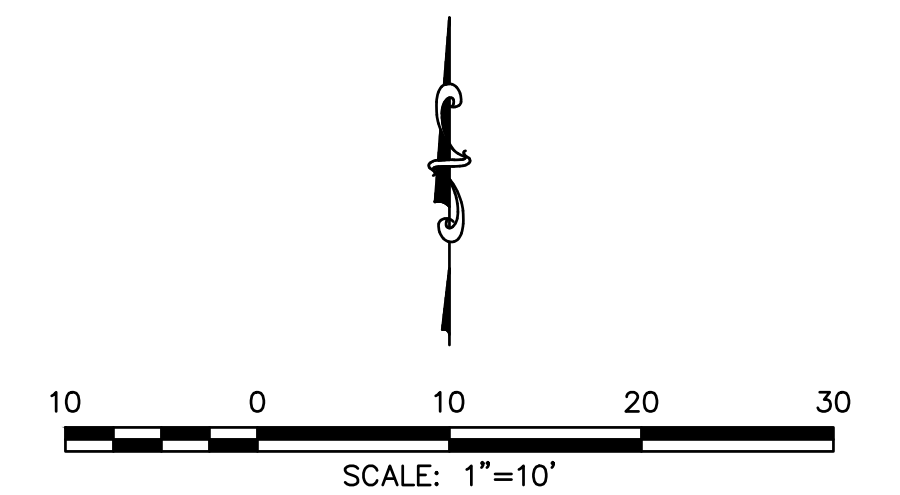
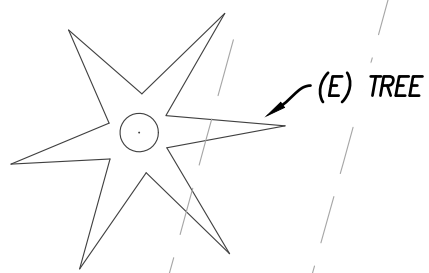


<p>Underground Service Alert Call: TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG</p>	<p>BENCHMARK:</p>	<p>PREPARED BY:</p> <p>TEL: (909) 885-3806 234 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92408 No. C-70944 Exp. 6-30-25 CIVIL ENGINEER STATE OF CALIFORNIA</p>	<p>SEAL</p>	<p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p>		<p>GRADING PLAN</p>		<p>ROAD NO.</p>
				<p>SCALE: NONE DATE: 03-29-24</p>	<p>DATE BY MARK</p> <p>ENGINEER REVISIONS APPR. DATE</p> <p>DESIGNED BY: J.T.S. DRAWN BY: AC CHECKED BY: J.T.S.</p>	<p>MOHAMMAD SIDDIQUI ENGINEER, TRAFFIC DIVISION</p> <p>DATE</p>	<p>RECOMMENDED BY:</p> <p>APPROVED BY:</p>	<p>TITLE SHEET A.P.N.# 1057-201-10</p>



**DEMOLITION NOTES:**

- 1 REMOVE EXISTING BUILDING.
- 2 REMOVE EXISTING MASONRY WALL.
- 3 REMOVE EXISTING CONCRETE.
- 4 REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE.
- 9 REMOVE EXISTING TREE.



Underground Service Alert  
 Call: TOLL FREE  
 1-800-227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 JOSEPH E. BENADIMAN & ASSOCIATES, INC.  
 ENGINEERS - S.T.E. - SURVEYING - PLANNING  
 TEL. (909) 885-3806  
 FAX (909) 391-1751  
 www.benadiman.com

SCALE: NONE  
 DATE: 03-29-24



DATE	BY	MARK	REVISIONS	APPR.	DATE

DESIGNED BY: J.T.S.    DRAWN BY: AC    CHECKED BY: J.T.S.

SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

MOHAMMAD SIDDIQUI  
 ENGINEER, TRAFFIC DIVISION

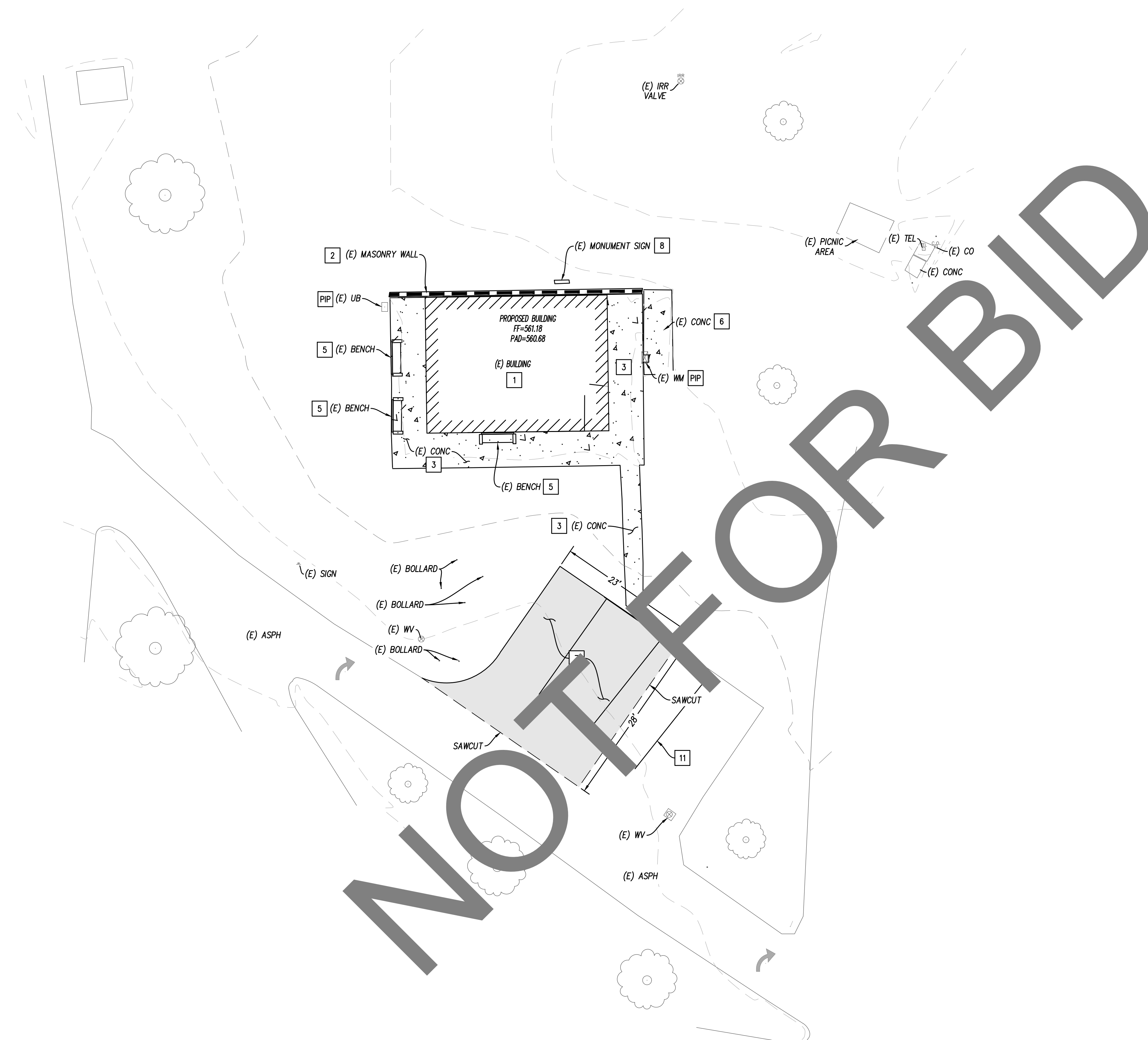
MOHAMMAD QURESHI  
 TRAFFIC DIVISION CHIEF

RECOMMENDED BY:  
 APPROVED BY:  
 SAMEH BASTA  
 ENGINEER, LAND DEVELOPMENT DIVISION

GRADING PLAN  
 BATHROOM #1

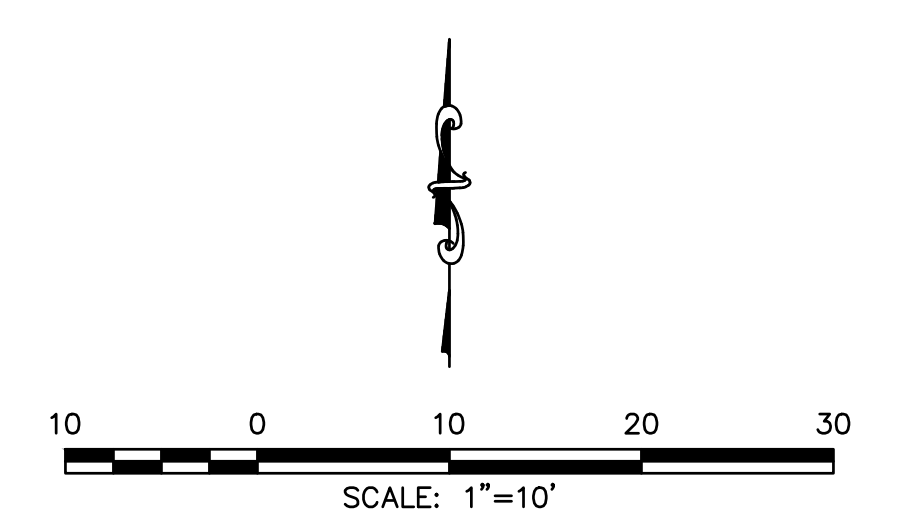
**DEMOLITION PLAN**  
 A.P.N. 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 2 OF 10



**DEMOLITION NOTES:**

- 1 REMOVE EXISTING BUILDING.
- 2 REMOVE EXISTING MASONRY WALL.
- 3 REMOVE EXISTING CONCRETE.
- 5 REMOVE AND SALVAGE EXISTING BENCH.
- 7 REMOVE EXISTING ASPHALT PAVING.
- 8 REMOVE AND SALVAGE EXISTING MONUMENT SIGN.
- 11 REMOVE EXISTING PAVEMENT MARKING.
- PIP PROTECT IN PLACE (PIP).



Underground Service Alert  
 Call: TOLL FREE  
 1-800-227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 JESSIE B. BENADIMAN & ASSOCIATES, INC.  
 ENGINEERS, PLANNERS, ARCHITECTS  
 241 NORTH AVENUE, SUITE 200  
 PALMDALE, CA 91368  
 TEL: (909) 885-3806  
 FAX: (909) 885-3807  
 No. C-70944  
 Exp. 6-30-25

SCALE: NONE  
 DATE: 03-29-24



DATE	BY	MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	J.T.S.				
DRAWN BY:	AC				
CHECKED BY:	J.T.S.				

SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI  
 ENGINEER, TRAFFIC DIVISION  
 DATE

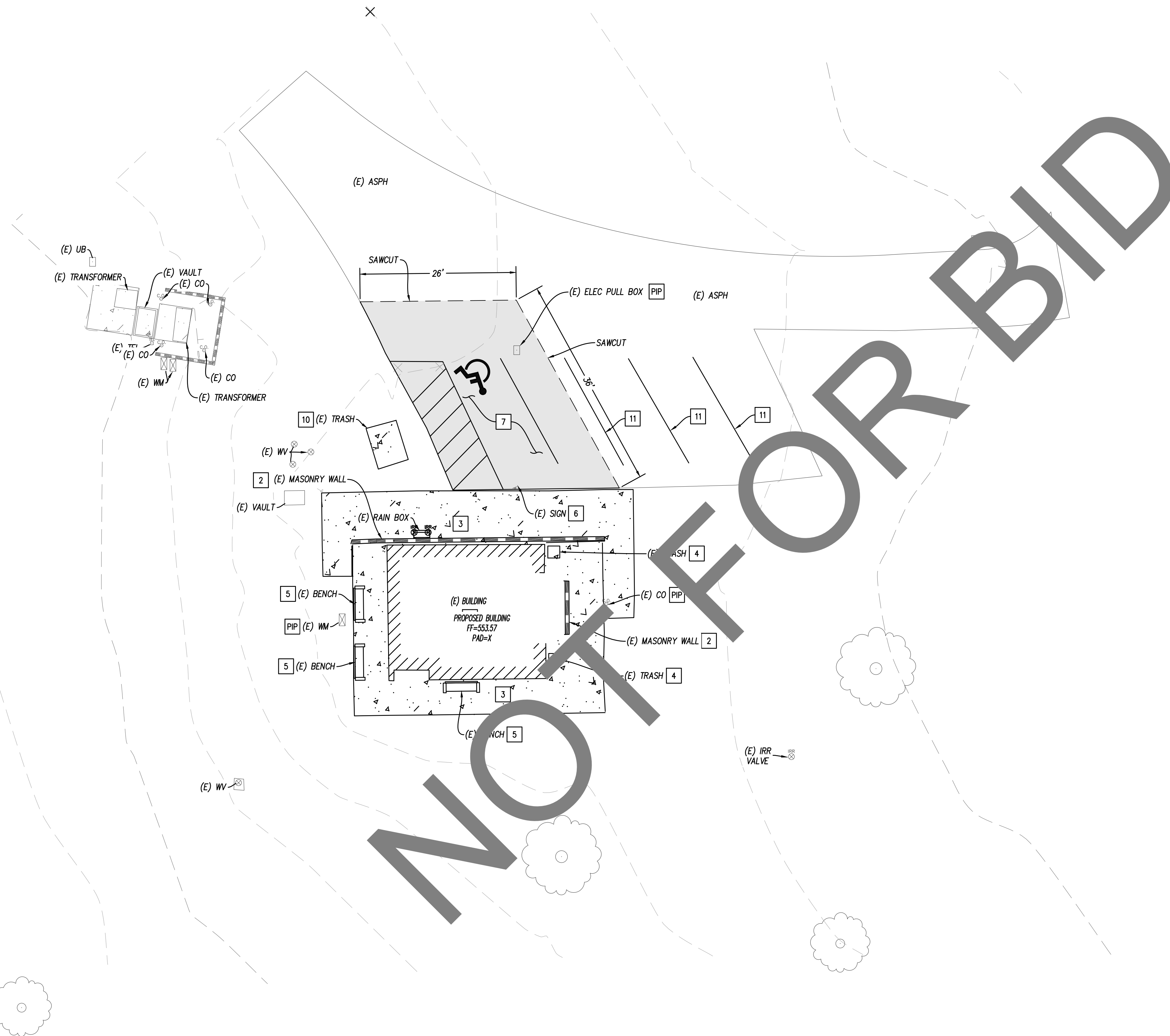
APPROVED BY:  
 SAMEH BASTA  
 ENGINEER, LAND DEVELOPMENT DIVISION  
 DATE

GRADING PLAN  
 BATHROOM #2  
 DEMOLITION PLAN  
 A.P.N. 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 3 OF 10

**DEMOLITION NOTES:**

- 1 REMOVE EXISTING BUILDING.
- 2 REMOVE EXISTING MASONRY WALL.
- 3 REMOVE EXISTING CONCRETE.
- 4 REMOVE AND SALVAGE EXISTING TRASH RECEPTACLE.
- 5 REMOVE AND SALVAGE EXISTING BENCH.
- 6 REMOVE AND SALVAGE EXISTING SIGN.
- 7 REMOVE EXISTING ASPHALT PAVING.
- 10 REMOVED EXISTING TRASH PAD.
- 11 REMOVE EXISTING PAVEMENT MARKING.
- PIP PROTECT IN PLACE (PIP).



Underground Service Alert  
 Call: TOLL FREE  
 1-800-227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 ENGINEERS, ARCHITECTS & ASSOCIATES, INC.  
 241 NORTH ARROYO AVENUE  
 PUEBLO, CALIFORNIA 92374  
 TEL: (909) 885-3806  
 FAX: (909) 885-3701

SCALE: NONE  
 DATE: 03-29-24

SEAL  
 REGISTERED PROFESSIONAL ENGINEER  
 JAMES T. STANFORD  
 No. C-70944  
 Exp. 6-30-25  
 CIVIL  
 STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE

DESIGNED BY: J.T.S.    DRAWN BY: AC    CHECKED BY: J.T.S.

SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

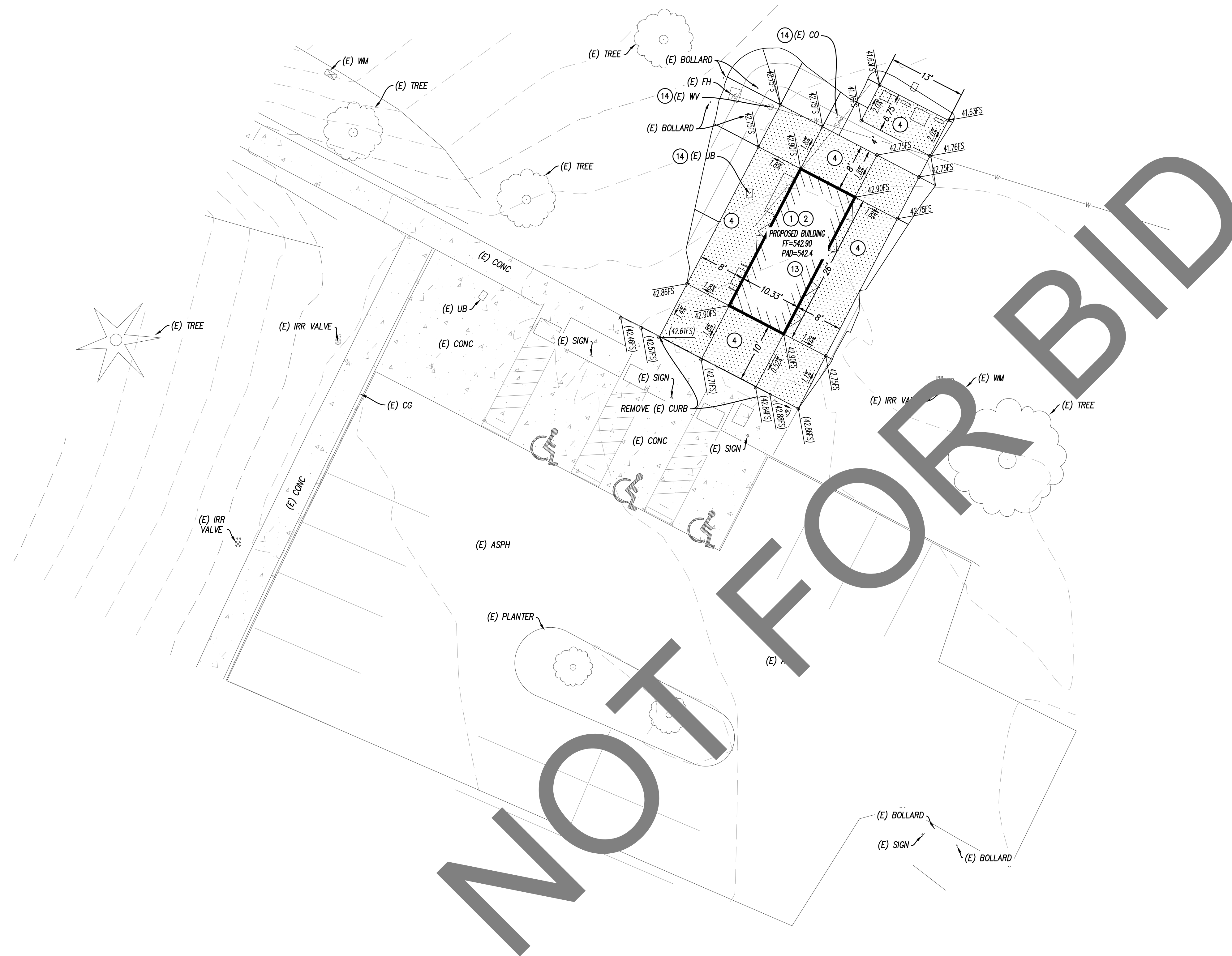
RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI  
 ENGINEER, TRAFFIC DIVISION    DATE:   

APPROVED BY:  
 SAMEH BASTA  
 ENGINEER, LAND DEVELOPMENT DIVISION    DATE:   

GRADING PLAN  
 BATHROOM #3

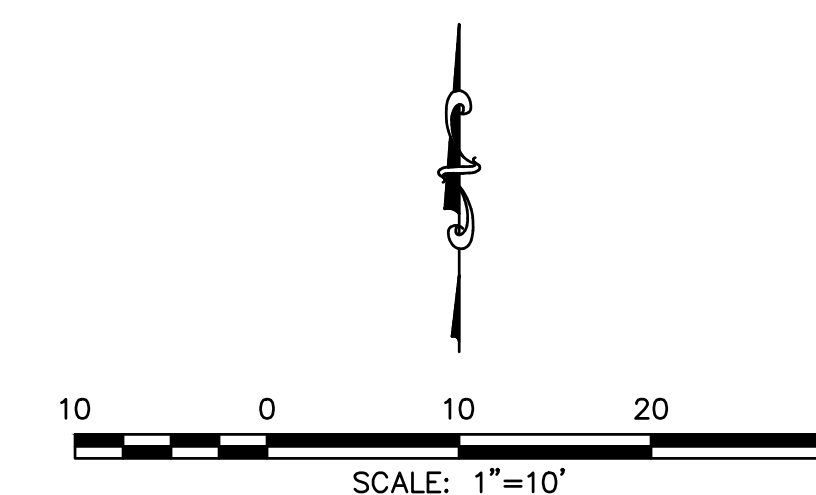
DEMOLITION PLAN  
 A.P.N.# 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 4 OF 10



**CONSTRUCTION NOTES:**

- ① INSTALL PRE-MANUFACTURED BUILDING PER MANUFACTURERS RECOMMENDATIONS.
- ② OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
- ④ CONSTRUCT 4" THICK CONCRETE SIDEWALK (560-C-3250, MEDIUM BROOM FINISH) OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
- ⑬ REPAIR ALL DAMAGED IRRIGATION AND LANDSCAPING/GRASS WITHIN WORK AREA.
- ⑭ ADJUST TO GRADE.



Underground Service Alert  
 Call: TOLL FREE  
 1-800-227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 ENGINEERS, ARCHITECTS & ASSOCIATES, INC.  
 241 NORTH ARROYO AVENUE  
 P.O. BOX 301070  
 PASADENA, CALIFORNIA 91131-0170  
 TEL. (909) 885-3806  
 FAX (909) 885-3807  
 No. C-70944  
 Exp. 6-30-25

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SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

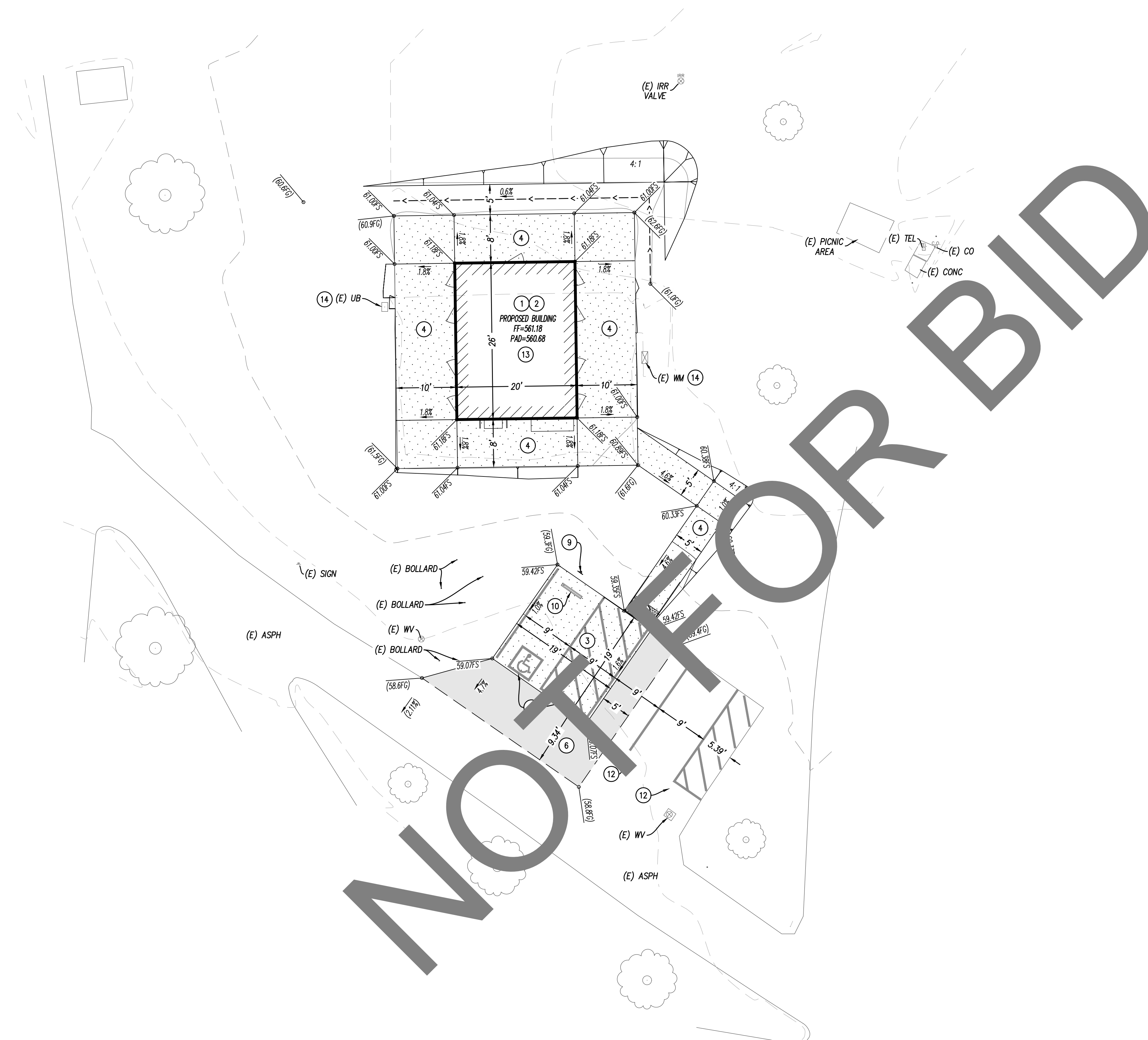
RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI, ENGINEER, TRAFFIC DIVISION, DATE:   

APPROVED BY:  
 SAMEH BASTA, ENGINEER, LAND DEVELOPMENT DIVISION, DATE:   

GRADING PLAN  
 BATHROOM #1

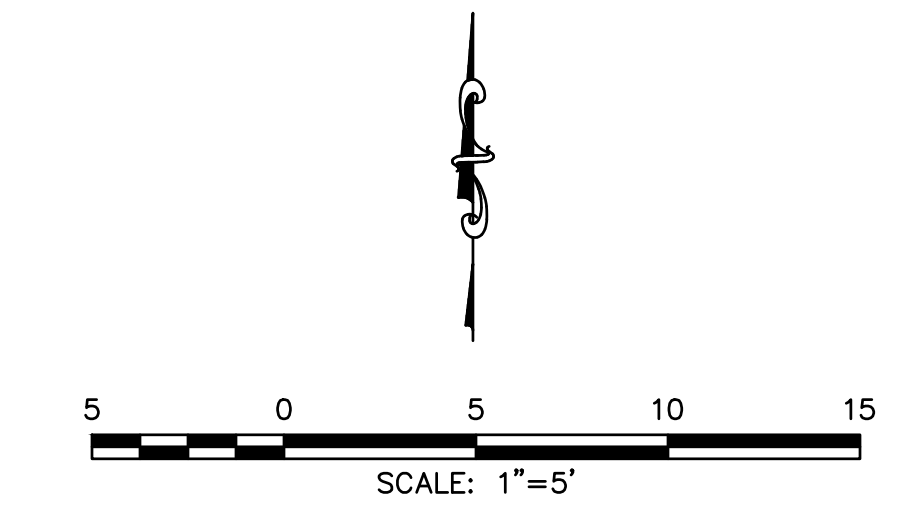
GRADING PLAN  
 A.P.N. 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 5 OF 10



**CONSTRUCTION NOTES:**

- 1 INSTALL PRE-MANUFACTURED BUILDING PER MANUFACTURES RECOMMENDATIONS.
- 2 OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
- 3 CONSTRUCT 6" THICK CONCRETE (560-C-3250) OVER 18" OF 95% COMPACTED NATIVE PER ASTM D 1557.
- 4 CONSTRUCT 4" THICK CONCRETE SIDEWALK (560-C-3250, MEDIUM BROOM FINISH) OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
- 6 CONSTRUCT FULL DEPTH AC PATCH OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
- 8 INSTALL DETECTABLE WARNING PER CALTRANS DETAIL AB8A, SEE SHEET B.
- 9 INSTALL ADA PARKING SIGN PER CALTRANS STD. A90A, SEE SHEET B.
- 10 INSTALL WHEEL STOP PER CALTRANS STD. A90A, SEE SHEET B.
- 11 INSTALL HANDICAP PARKING STRIPING/SYMBOL PER CALTRANS STD. A90A, SEE SHEET B.
- 12 INSTALL 4" WHITE STRIPE PER PLAN.
- 13 REPAIR ALL DAMAGED IRRIGATION AND LANDSCAPING/GRASS WITHIN WORK AREA.
- 14 ADJUST TO GRADE.



Underground Service Alert  
 Call: TOLL FREE  
 1-800-227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 ENGINEERS, ARCHITECTS & ASSOCIATES, INC.  
 244 NORTH ARROYO AVENUE  
 PASADENA, CA 91101  
 TEL: (909) 885-3806  
 FAX: (909) 885-3807  
 Exp. 6-30-25

SCALE: NONE  
 DATE: 03-29-24



DATE	BY	MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	J.T.S.				
DRAWN BY:	AC				
CHECKED BY:	J.T.S.				

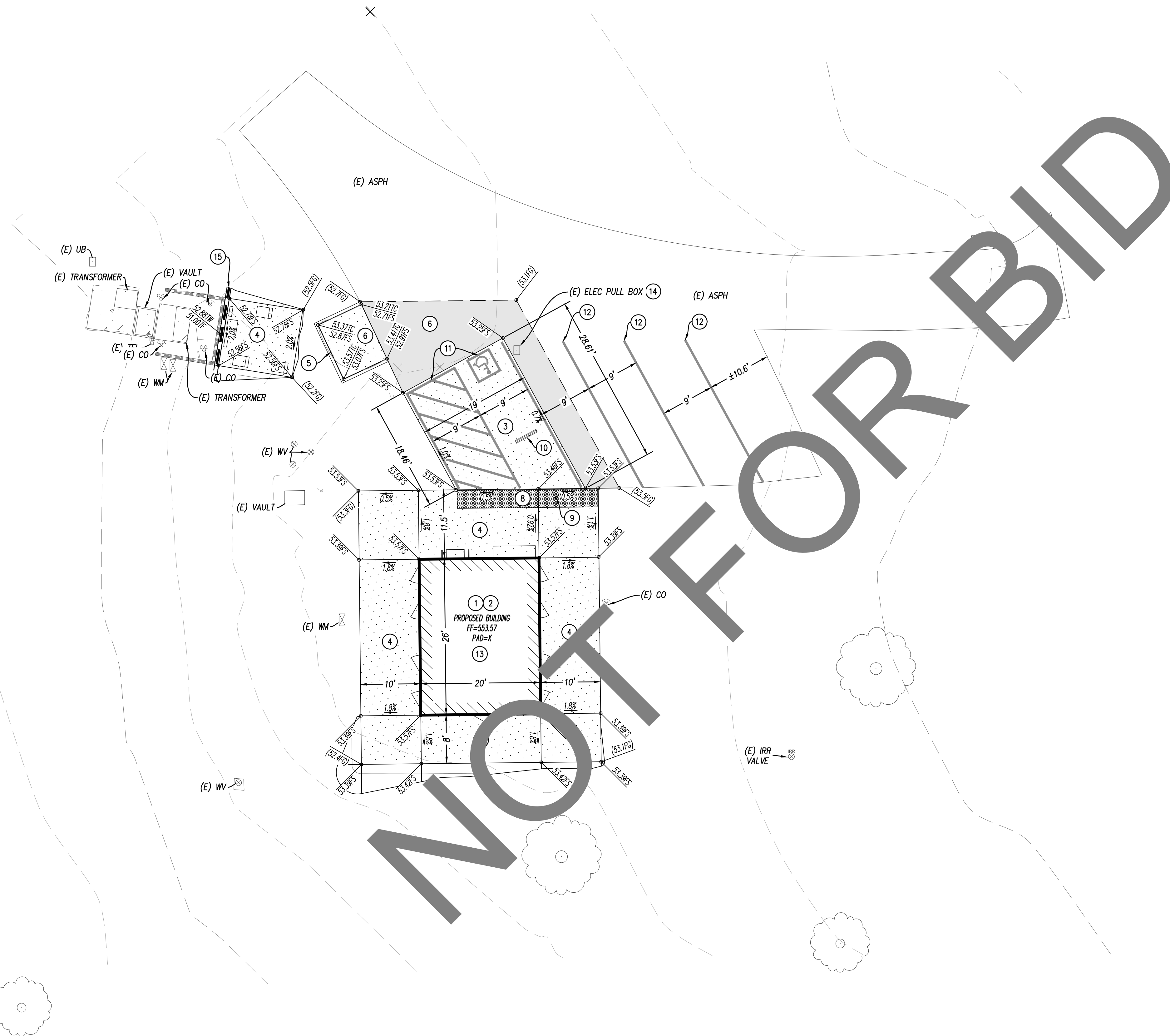
SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI  
 ENGINEER, TRAFFIC DIVISION  
 DATE

APPROVED BY:  
 SAMEH BASTA  
 ENGINEER, LAND DEVELOPMENT DIVISION  
 DATE

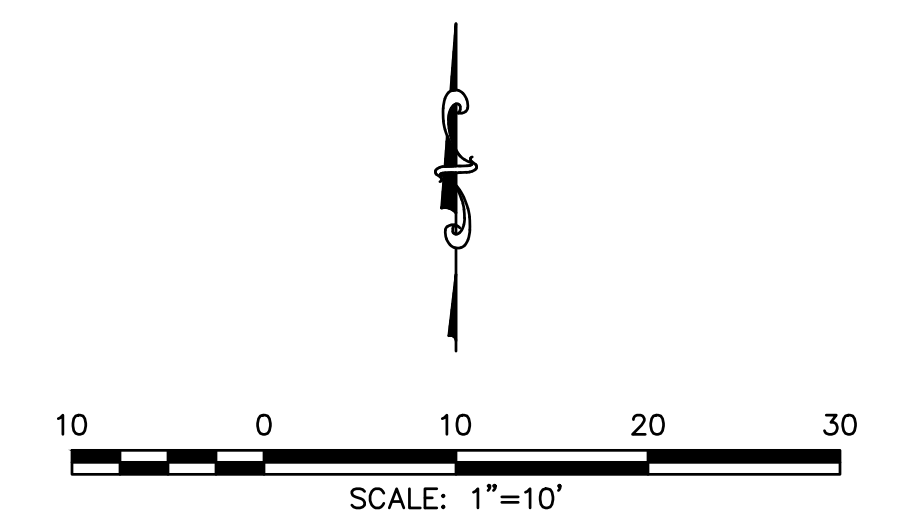
GRADING PLAN  
 BATHROOM #2  
 GRADING PLAN  
 A.P.N. 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 6 OF 10



**CONSTRUCTION NOTES:**

- 1 INSTALL PRE-MANUFACTURED BUILDING PER MANUFACTURERS RECOMMENDATIONS.
- 2 OVEREXCAVATE BEYOND THE PERIMETER OF PROPOSED STRUCTURES IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS.
- 3 CONSTRUCT 6" THICK CONCRETE (560-C-3250) OVER 18" OF 95% COMPACTED NATIVE PER ASTM D 1557.
- 4 CONSTRUCT 4" THICK CONCRETE SIDEWALK (560-C-3250, MEDIUM BROOM FINISH) OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
- 5 CONSTRUCT 6" CURB ONLY PER SPPWC 121-3, SEE SHEET 3.
- 6 CONSTRUCT FULL DEPTH AC PATCH OVER 12" OF 90% COMPACTED NATIVE PER ASTM D 1557.
- 8 INSTALL DETECTABLE WARNING PER CALTRANS DETAIL AB8A, SEE SHEET 3.
- 9 INSTALL ADA PARKING SIGN PER CALTRANS STD. A90A, SEE SHEET 3.
- 10 INSTALL WHEEL STOP PER CALTRANS STD. A90A, SEE SHEET 3.
- 11 INSTALL HANDICAP PARKING STRIPING/SYMBOL PER CALTRANS STD. A90A, SEE SHEET 4.
- 12 INSTALL 4" WHITE STRIPE PER PLAN.
- 13 REPAIR ALL DAMAGED IRRIGATION AND LANDSCAPING/GRASS WITHIN WORK AREA.
- 14 ADJUST TO GRADE.
- 15 CONSTRUCT SLOUGH WALL PER SPPWC STD. 622-4, SEE SHEET 8.



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BENCHMARK:

PREPARED BY:  
**BENADIMAN**  
 ENGINEERS, ARCHITECTS & PLANNERS  
 TEL: (909) 885-3806  
 844 NORTH ARROYO AVE.  
 FULLERTON, CA 92631

SCALE: NONE  
 DATE: 03-29-24

SEAL  
 REGISTERED PROFESSIONAL ENGINEER  
 JAMES T. STANFORD  
 No. C-70944  
 Exp. 6-30-25  
 CIVIL  
 STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	J.T.S.	DRAWN BY:	AC	CHECKED BY:	J.T.S.

SAN BERNARDINO COUNTY  
 DEPARTMENT OF PUBLIC WORKS

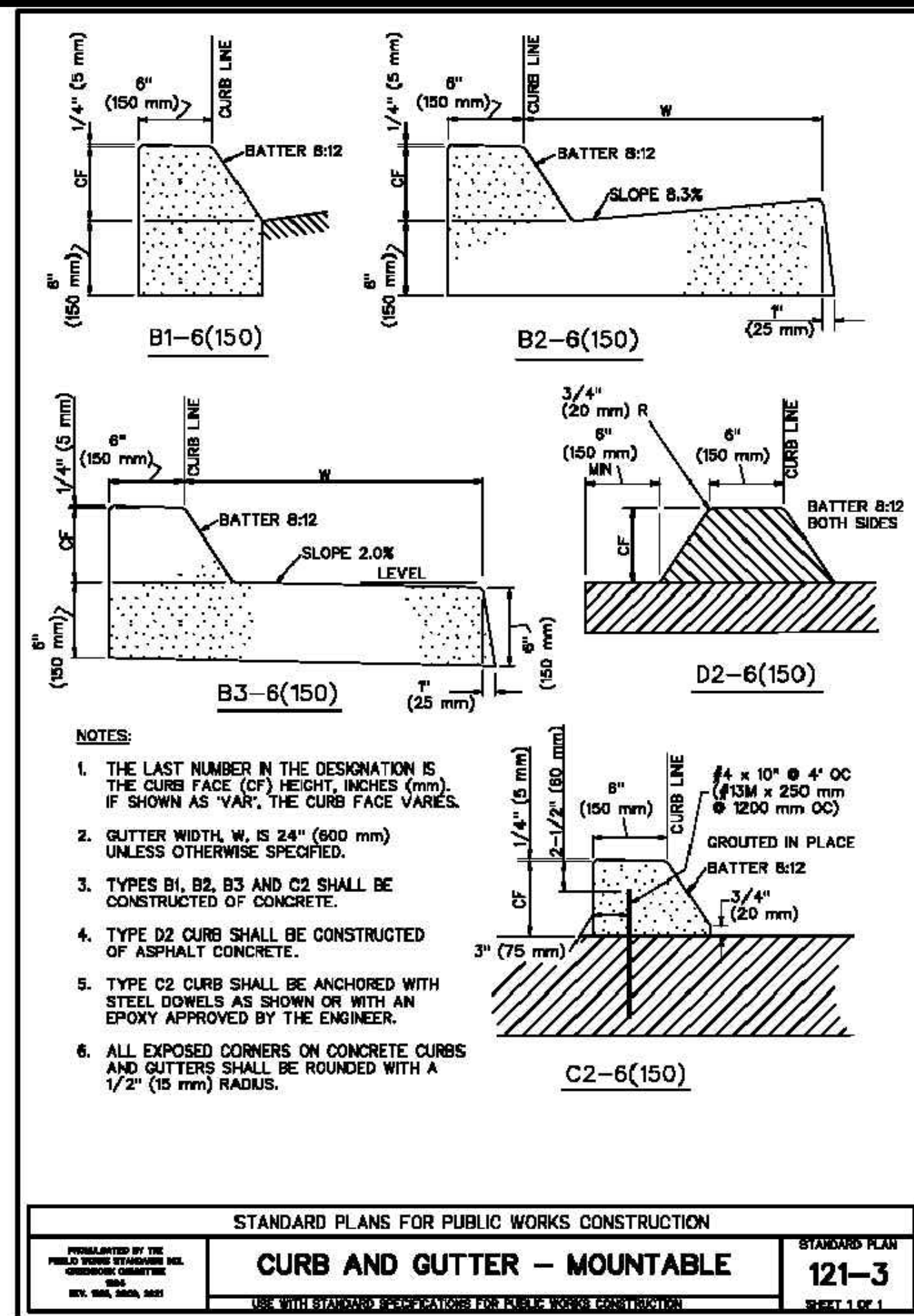
RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI  
 ENGINEER, TRAFFIC DIVISION  
 DATE:  

APPROVED BY:  
 SAMEH BASTA  
 ENGINEER, LAND DEVELOPMENT DIVISION  
 DATE:  

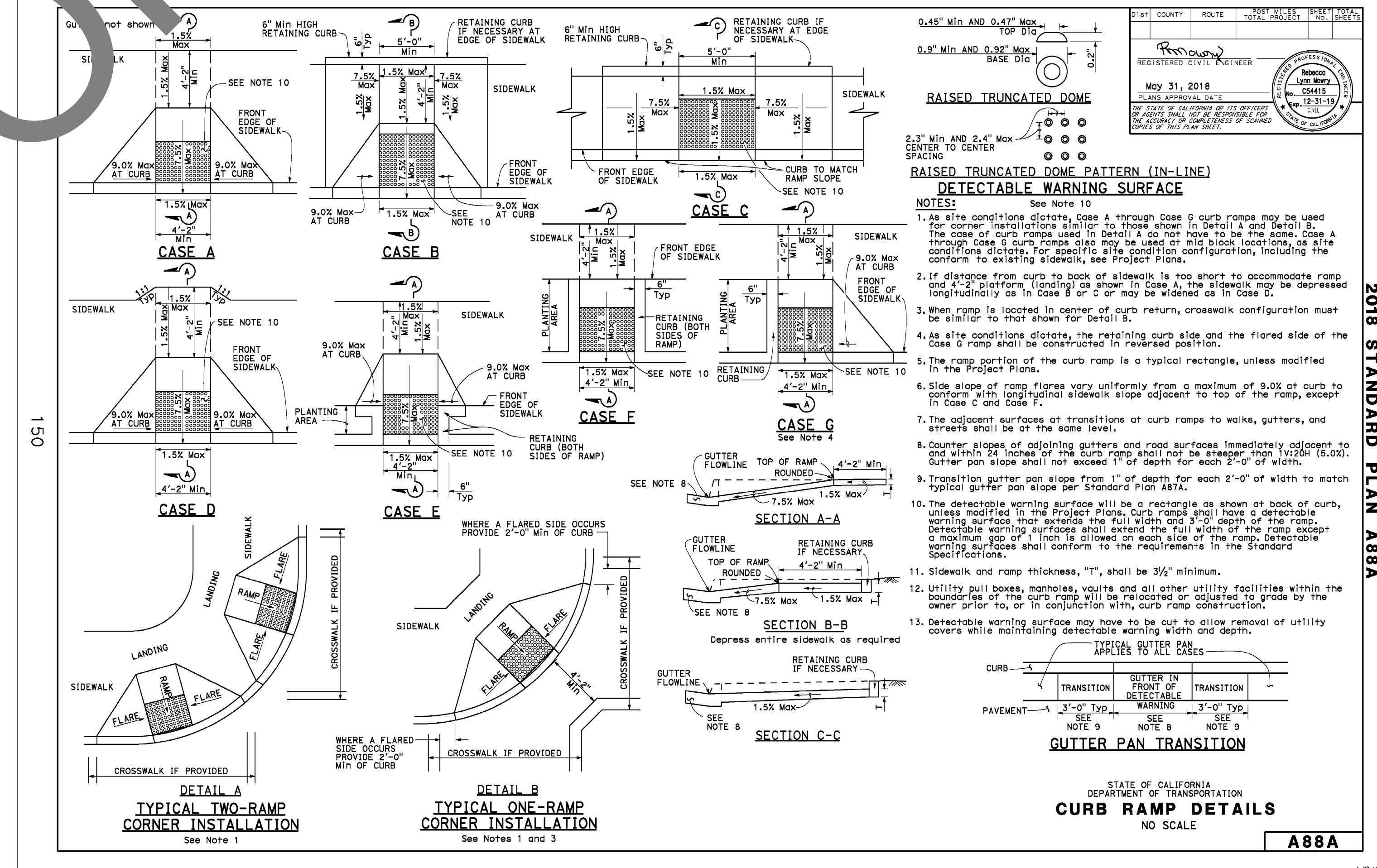
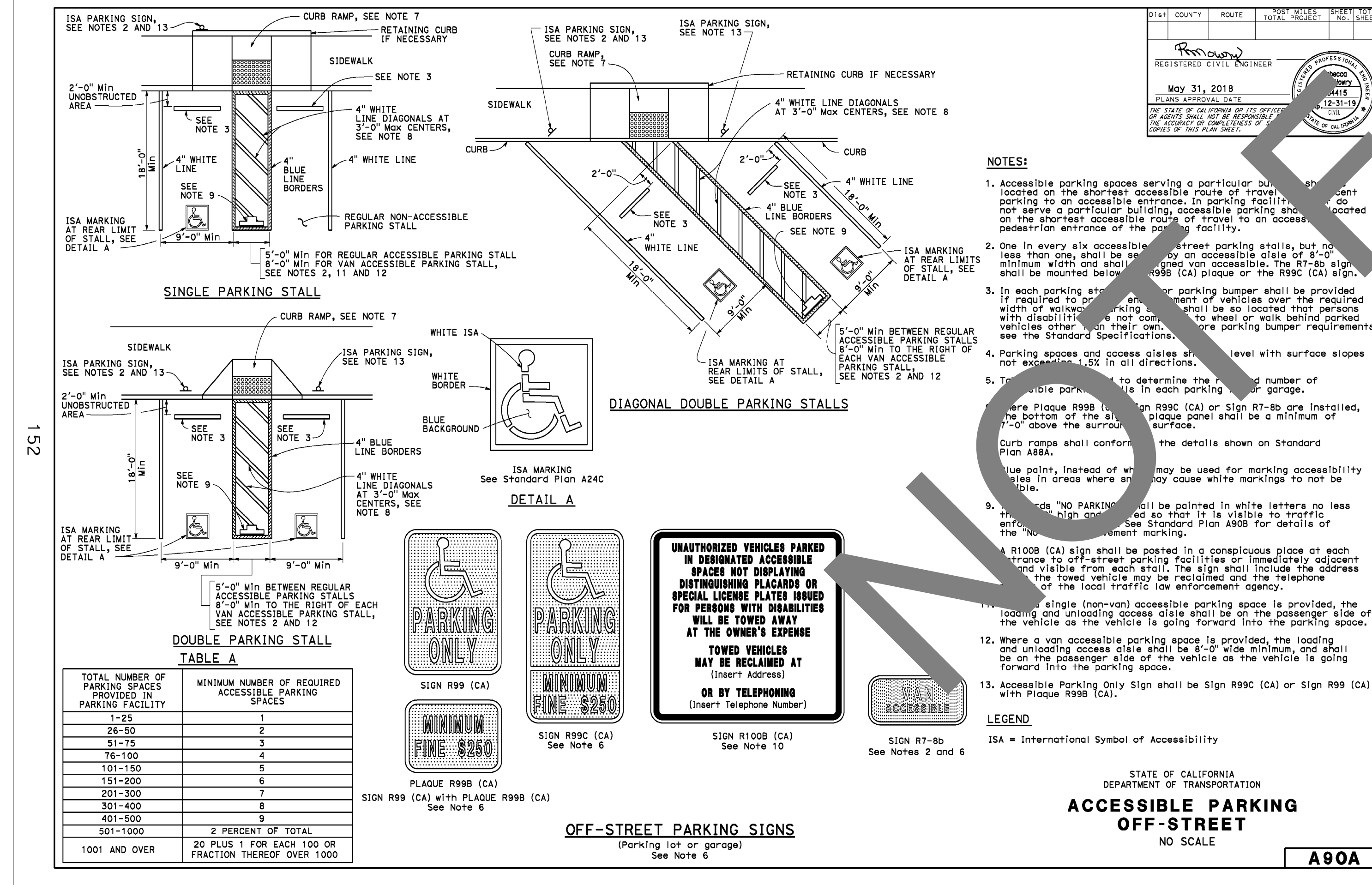
GRADING PLAN  
 BATHROOM #3

GRADING PLAN  
 A.P.N.# 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 7 OF 10



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**BENCHMARK:**

**PREPARED BY:**  
**BONADIMAN**  
 ENGINEERS, ARCHITECTS, PLANNERS  
 TEL: (909) 885-3806  
 244 WEST GARDEN AVENUE  
 FULLERTON, CA 92631

SCALE: NONE  
 DATE: 03-29-24

**SEAL**  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. C-70944  
 Exp. 6-30-25

DATE BY MARK  
 ENGINEER REVISIONS APPR. DATE  
 DESIGNED BY: J.T.S. DRAWN BY: AC CHECKED BY: J.T.S.

**SAN BERNARDINO COUNTY**  
 DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:  
 MOHAMMAD SIDDIQUI, ENGINEER, TRAFFIC DIVISION  
 DATE

APPROVED BY:  
 SAMEN BASTA, ENGINEER, LAND DEVELOPMENT DIVISION  
 DATE

**GRADING PLAN**  
 BATHROOM #1

**DETAILS**  
 A.P.N.# 1057-201-10

ROAD NO.  
 FILE NO.  
 SHEET 8 OF 10

**Underground Service Alert**  
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 TWO WORKING DAYS BEFORE YOU DIG

# SAN BERNARDINO COUNTY EROSION CONTROL PLAN

## PRADO REGIONAL PARK

16700 EUCLID AVE  
CHINO, CA. 91708

APN:1057-201-10



### EROSION CONTROL NOTES:

- IN CASE OF EMERGENCY, CALL GREG DARLING AT (562) 595-4687.
- POLLUTION AND EROSION PREVENTION MEASURES, ALSO KNOWN AS BEST MANAGEMENT PRACTICES (BMPs), MUST BE INSTALLED PRIOR TO GRADING. THESE MEASURES, INCLUDING THE PREVENTION OF SEDIMENTATION OR FLOOD DAMAGE, TO OFFSITE PROPERTY SHALL BE ADEQUATE WHETHER OR NOT AN EROSION CONTROL PERMIT IS REQUIRED.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- EROSION CONTROL DEVICES SHALL BE FUNCTIONING AT ALL TIMES. IN CASE OF FAILURE, RAPID CONSTRUCTION OF EMERGENCY DEVICES SHALL BE IMPLEMENTED.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MUST BE CONTAINED ONSITE. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ONSITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO ENSURE ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY PER PLAN. PROPER PRECAUTION SHALL BE CONSIDERED WHEN 50% OR GREATER PROBABILITY OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- ALL STORM WATER CAPTURE DEVICES SHALL BE PROTECTED AT ALL TIMES.

### SPECIAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A "QUALIFIED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRACTITIONER" (QSP) FOR ALL RECORDS, INSPECTIONS AND DOCUMENTATION REQUIRED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN.
- THE "QUALIFIED SWPPP PRACTITIONER" (QSP) SHALL UPDATE THE SWPPP AND EROSION CONTROL PLAN PER FIELD CONDITION AS OUTLINE IN TABLE 1.1 OF THE SWPPP.
- THE QSP SHALL DOCUMENT ALL CHANGES TO THE SWPPP AND EROSION CONTROL PLAN FOR THE DURATION OF THE PROJECT.
- THE QSP SHALL KEEP ALL RECORD, INSPECTION REPORTS, ETC. AND PROVIDED COPIES AS PART OF THE ANNUAL REPORT.

### EQUIPMENT TRACKING CONTROL:

- TC1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
- TC2 - STABILIZED CONSTRUCTION ROADWAY
- TC3 - ENTRANCE/OUTLET TIRE WASH

### WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL:

- WM1 - MATERIAL DELIVERY AND STORAGE
- WM2 - MATERIAL USE
- WM3 - STOCKPILE MANAGEMENT
- WM4 - SPILL PREVENTION AND CONTROL
- WM5 - SOLID WASTE MANAGEMENT
- WM6 - HAZARDOUS WASTE MANAGEMENT
- WM7 - CONTAMINATION SOIL MANAGEMENT
- WM8 - CONCRETE WASTE MANAGEMENT
- WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
- WM10 - LIQUID WASTE MANAGEMENT

### NON-STORMWATER MANAGEMENT:

- NS1 - WATER CONSERVATION PRACTICES
- NS2 - DEWATERING OPERATIONS
- NS3 - PAVING AND GRINDING OPERATIONS
- NS4 - TEMPORARY STREAM CROSSING
- NS5 - CLEAR WATER DIVERSION
- NS6 - ILLICIT CONNECTION/DISCHARGE
- NS7 - POTABLE WATER/IRRIGATION
- NS8 - VEHICLE AND EQUIPMENT CLEANING
- NS9 - VEHICLE AND EQUIPMENT FUELING
- NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
- NS11 - PILE DRIVING OPERATIONS
- NS12 - CONCRETE CURING
- NS13 - CONCRETE FINISHING
- NS14 - MATERIAL AND EQUIPMENT USE
- NS15 - DEMOLITION ADJACENT TO WATER
- NS16 - TEMPORARY BATCH PLANTS

### EROSION CONTROL:

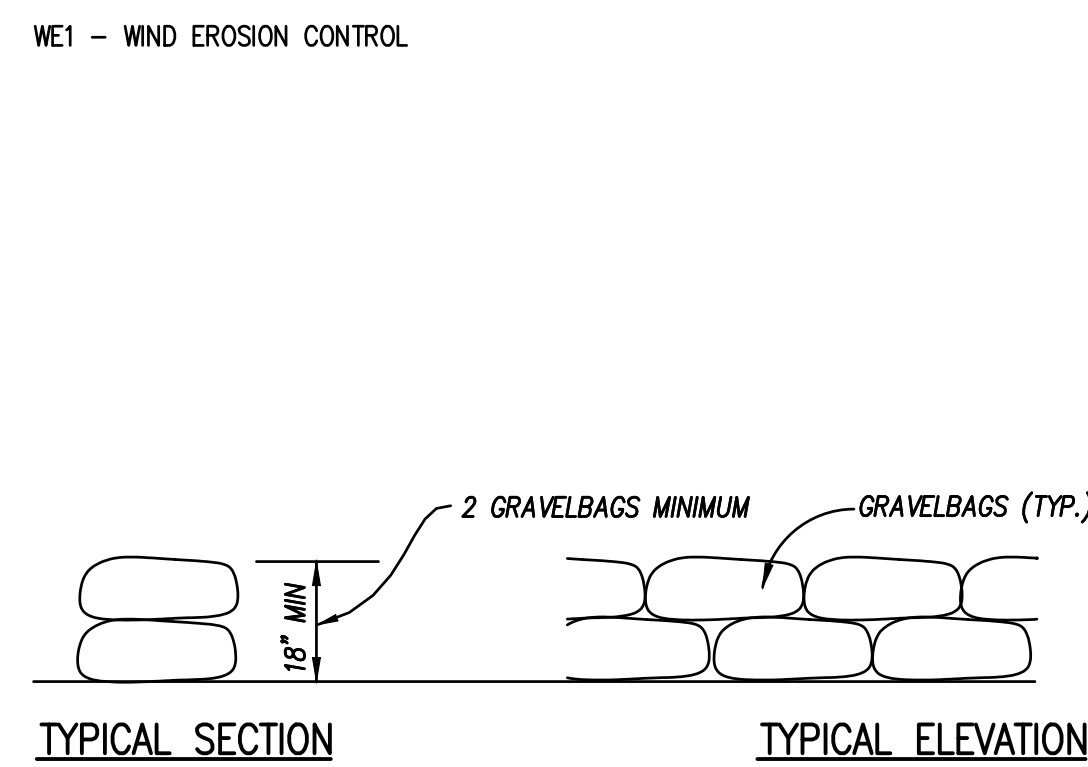
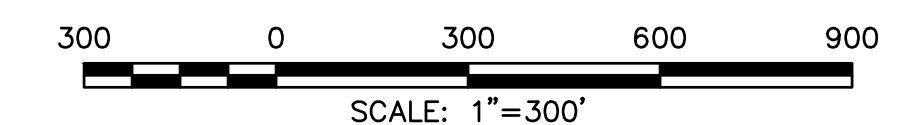
- EC1 - SCHEDULING
- EC2 - PRESERVATION OF EXISTING VEGETATION
- EC3 - HYDRAULIC MULCH
- EC4 - HYDROSEEDING
- EC5 - SOIL BINDERS
- EC6 - STRAW MULCH
- EC7 - GEOTEXTILES & MATS
- EC8 - WOOD MULCHING
- EC9 - EARTH DIKES AND DRAINAGE SWALES
- EC10 - VELOCITY DISSIPATION DEVICES
- EC11 - SLOPE DRAINS
- EC12 - STREAMBANK STABILIZATION
- EC13 - POLYACRYLAMIDE

### TEMPORARY SEDIMENT CONTROL:

- SE1 - SILT FENCE
- SE2 - SEDIMENT BASIN
- SE3 - SEDIMENT TRAP
- SE4 - CHECK DAM
- SE5 - FIBER ROLLS
- SE6 - GRAVEL BAG BERM
- SE7 - STREET SWEEPING & VACUUMING
- SE8 - GRAVELBAG BARRIER
- SE9 - STRAW BALE BARRIER
- SE10 - STORM DRAIN INLET PROTECTION

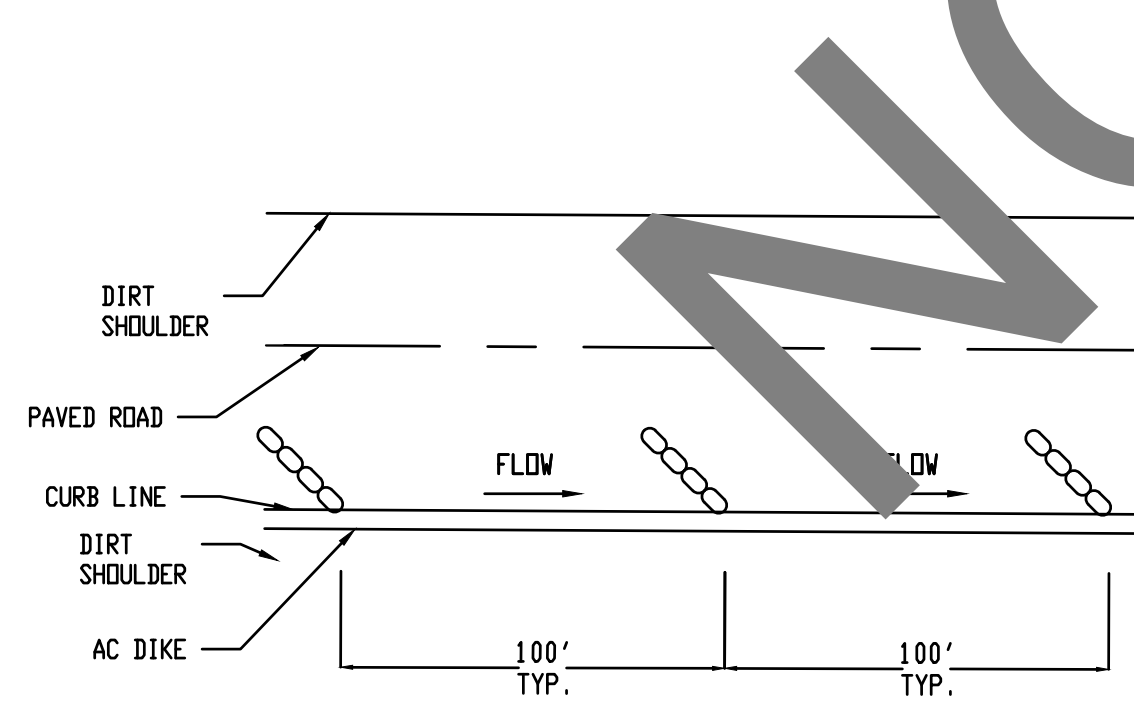
### WIND EROSION CONTROL:

- WE1 - WIND EROSION CONTROL

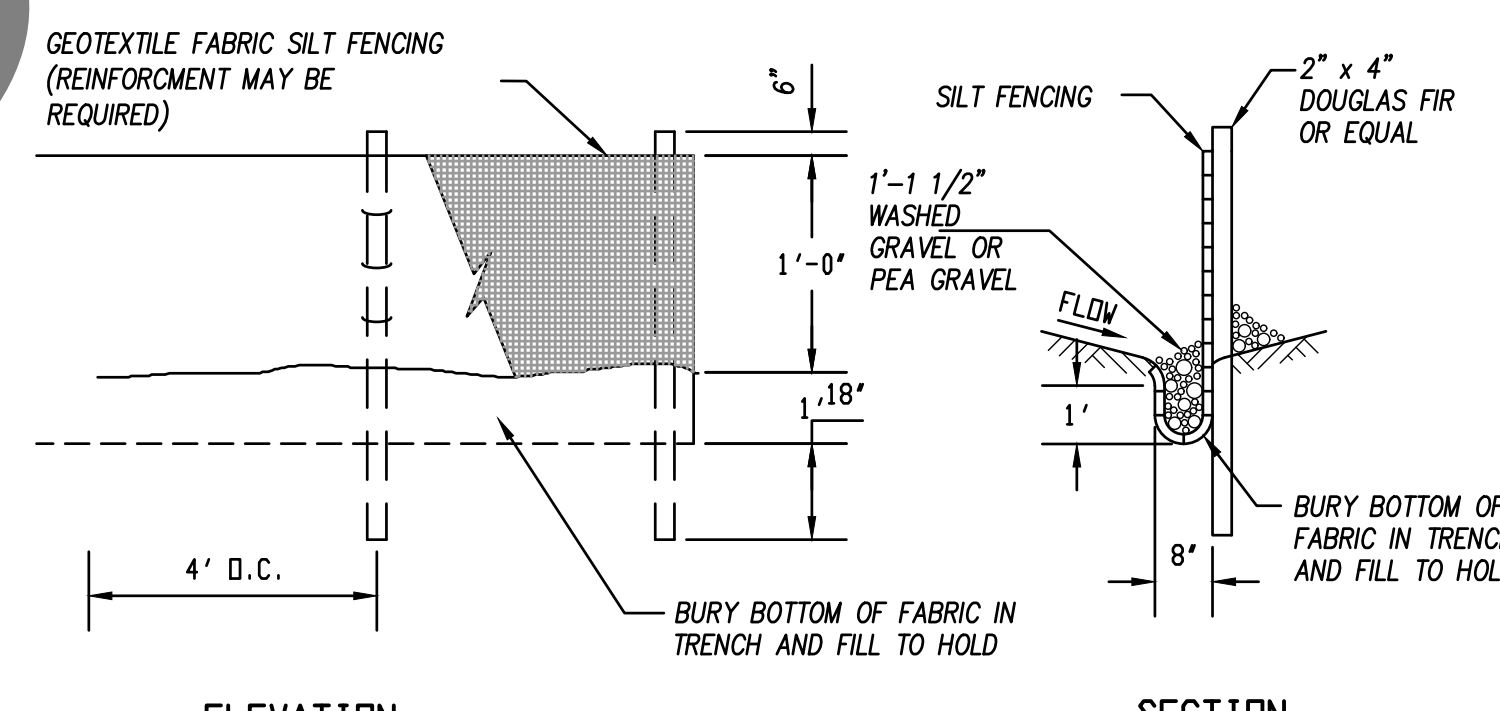


NOTES: ALL CONSTRUCTED INLETS AND TEMPORARY INLETS SHALL BE GRAVELBAGGED PRIOR TO ANY ANTICIPATED RAINFALL.

GRAVEL BAG BARRIER DETAILS  
NOT TO SCALE



GRAVEL BAG-CHECK DAM DETAIL  
NOT TO SCALE

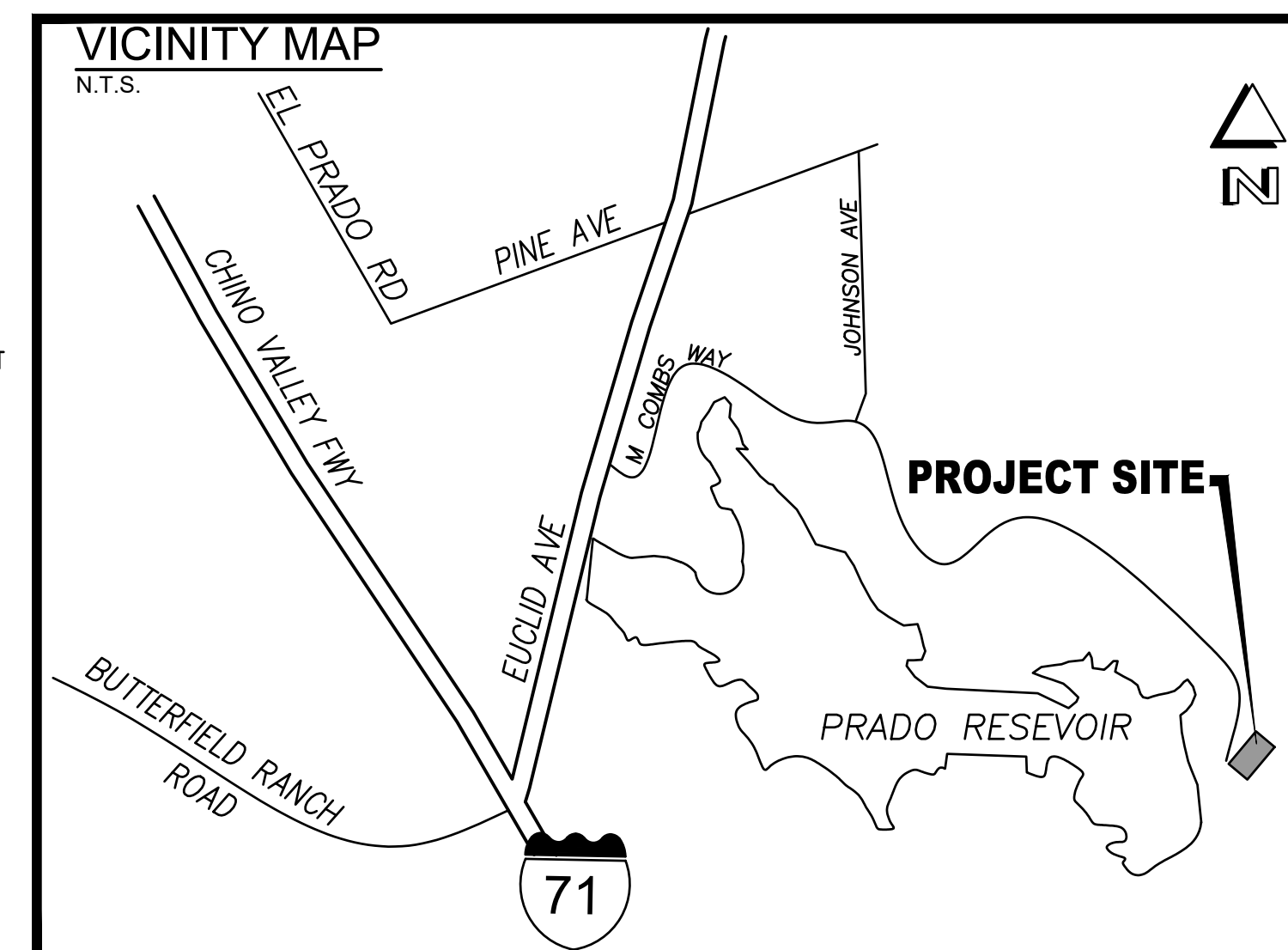


SILT FENCE DETAILS  
NOT TO SCALE

- LEGEND:
- Gravel bags to be placed per plan
  - Silt fence to be placed per plan
  - Stabilized construction entrance/exit

### 24 HR CONTACT PERSON

NAME: X  
PHONE: (XXX) XXX-XXXX



Underground Service Alert  
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1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:  
PREPARED BY:  
**BENADIMAN**  
TEL: (909) 885-3806  
341 NORTH ARROYO AVE  
POMONA, CA 91768

SCALE: NONE  
DATE: 03-29-24

SEAL  
REGISTERED PROFESSIONAL ENGINEER  
JAMES T. STANLEY  
No. C-70944  
Exp. 6-30-25  
CIVIL  
STATE OF CALIFORNIA

DATE	BY	MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	J.T.S.				
DRAWN BY:	AC				
CHECKED BY:	J.T.S.				

SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY:  
APPROVED BY:

MOHAMMAD SIDDIQUI  
ENGINEER, TRAFFIC DIVISION  
DATE

MOHAMMAD QURESHI  
TRAFFIC DIVISION CHIEF  
DATE

GRADING PLAN  
BATHROOM #1  
EROSION CONTROL PLAN  
A.P.N.# 1057-201-10

ROAD NO.  
FILE NO.  
SHEET 9 OF 10



## GENERAL NOTES

- THE CONTRACTOR SHALL SECURE ALL PERMITS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.
- ALL EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANELS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT ARE A PART OF THIS CONTRACT.
- EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
- ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
- PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
- ALL NEW WIRING / CONDUCTORS SHALL BE COPPER.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTORS.
- EQUIPMENT ANCHORAGE  
THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7-05 CHAPTER 13 AS MODIFIED BY 2022 CBC SECTION 1613A/1614A. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLAN.
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- WHERE EXPOSED CONDUIT IS PERMITTED BY THE ARCHITECT, SUCH CONDUIT SHALL BE PAINTED TO MATCH FINISH OF SURFACE TO WHICH IT IS ATTACHED/SUPPORTED TO.
- INSTALL RACEWAY SYSTEMS AS FOLLOWS:
  - RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
  - IMC OR EMT IN ALL INDOOR AREAS.
  - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.
  - PVC CONDUIT FOR UNDERGROUND RUNS, USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.
  - USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
  - USE RIGID CONDUIT FOR ALL EMERGENCY CIRCUITS.
- CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
- THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
- ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #2 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).
- IDENTIFICATION NAME PLATES FOR BRANCH CIRCUIT PANELS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- DUCTS, PIPES AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHFD ANCHORAGE AND PRE-APPROVAL OFM-0043-13 MASON INDUSTRIES INC. SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OFM-0092-13 B-LINE / TOLCO SEISMIC BRACING AND SUPPORT SYSTEMS. THE CONTRACTOR TO PROVIDE SHOP DRAWINGS OF SUPPORT AND BRACING SYSTEMS TO BE INSTALLED PER THESE PRE-APPROVAL. SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH ALL CODE REQUIREMENTS. THE STRUCTURAL ENGINEER SHALL VERIFY THAT THE BUILDING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE SUPPORTS AND BRACES INSTALLED PER THESE PRE-APPROVAL IN ADDITION TO OTHER LOADS. THE SHOP DRAWINGS WITH AN INDICATION THAT THE PLANS HAVE BEEN REVIEWED BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE JOB SITE. DUCTS, PIPES, CONDUITS AND LAYOUT OF ALL APPLICABLE ANCHORAGE DETAILS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
- ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N.
- COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N.
- ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

## DEMOLITION NOTES

- ALL ELECTRICAL EQUIPMENT THAT IS MARKED FOR DELETION, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE POINT OF INTERCEPTION INDICATED ON PLAN.
- WHERE EXISTING EQUIPMENT TO REMAIN IS FED BY EQUIPMENT BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT EQUIPMENT IN OPERATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
- ALL EXISTING CONDUITS WITHIN PROJECT AREA WHETHER SHOWN ON PLAN OR NOT, SHALL BE A PART OF THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
- EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
- ALL CIRCUITS SERVING OUTLETS/DEVICES TO BE REMOVED AS PART OF THE SCOPE OF WORK SHALL BE TRACED BACK TO THE SERVING PANEL PRIOR TO DISCONNECTING. IN THE EVENT THAT THE EXISTING CIRCUITS TO BE REMOVED SERVE AN OUTLET/DEVICE REMAINING IN OPERATION THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND OBTAIN DIRECTION PRIOR TO PROCEEDING WITH THE WORK.

## ELECTRICAL SYMBOL LIST

	CONDUIT RUN, CONCEALED IN CEILINGS, WALLS OR UNDER FLOOR 3/4" MIN. UNLESS OTHERWISE NOTED.
	CONDUIT RUN, UNDERGROUND, 1" MIN. UNLESS OTHERWISE NOTED.
	CONDUIT STUBBED OUT AND CAPPED, FULL LINE IN PLACE.
	FLEXIBLE CONDUIT. SEALTITE WHERE EXPOSED TO WEATHER. REFER TO SPECIFICATIONS FOR USE.
	CONDUIT TURNED DOWN.
	CONDUIT TURNED UP.
	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. TWO #12 ARE TO BE PROVIDED WHEN CROSS LINES ARE NOT SHOWN. CONDUITS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUIT IN LIEU OF #12. PROVIDE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE THE WIRE SIZE TO BE CONTAINED THEREIN.
	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
	EXISTING CONDUIT AND CONDUCTORS TO REMAIN IN PLACE.
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	EXISTING EQUIPMENT TO REMAIN.
	EXISTING EQUIPMENT TO DISCONNECTED AND REMOVED.
	EXISTING EQUIPMENT TO DISCONNECTED AND REMOVED.
	DETAIL CALLOUT
	ELECTRICAL NOTE CALLOUT IDENTIFICATION SYMBOL.

## REFERENCES & ABBREVIATIONS

	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
CU.	COPPER	GND	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNT
EM.	EMERGENCY	N.L.	NIGHT LIGHT

## APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, INCLUSIVE OF:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

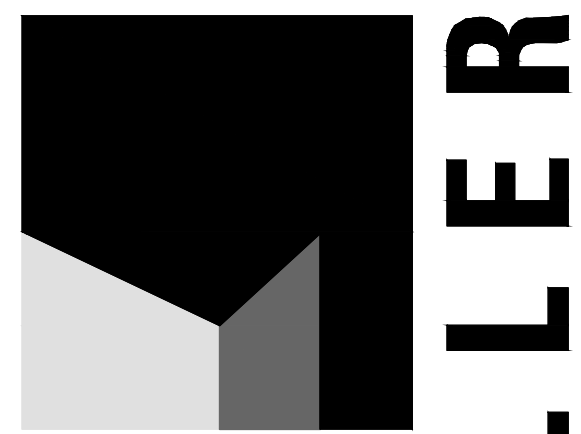
2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN), PART 11, TITLE 24 CCR

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

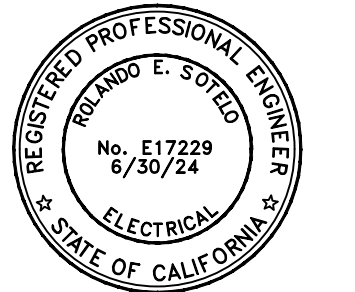
### APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 20.



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### revisions/addenda

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SAN BERNARDINO COUNTY PRADO TENT CAMP  
RESTROOM ADDITION

CHINO, CA 91708  
APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
365 NORTH ARROWHEAD AVE, THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

### project information

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DWG FILE:	
DRAWN BY:	MS
CHECKED BY:	RES
DRAWING SCALE:	AS NOTED
DATE:	2/12/2024

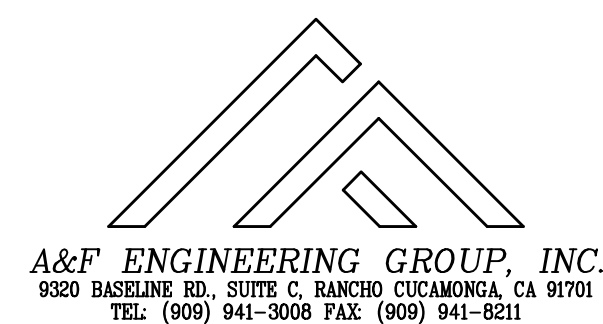
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## GENERAL NOTES & SYMBOL LIST

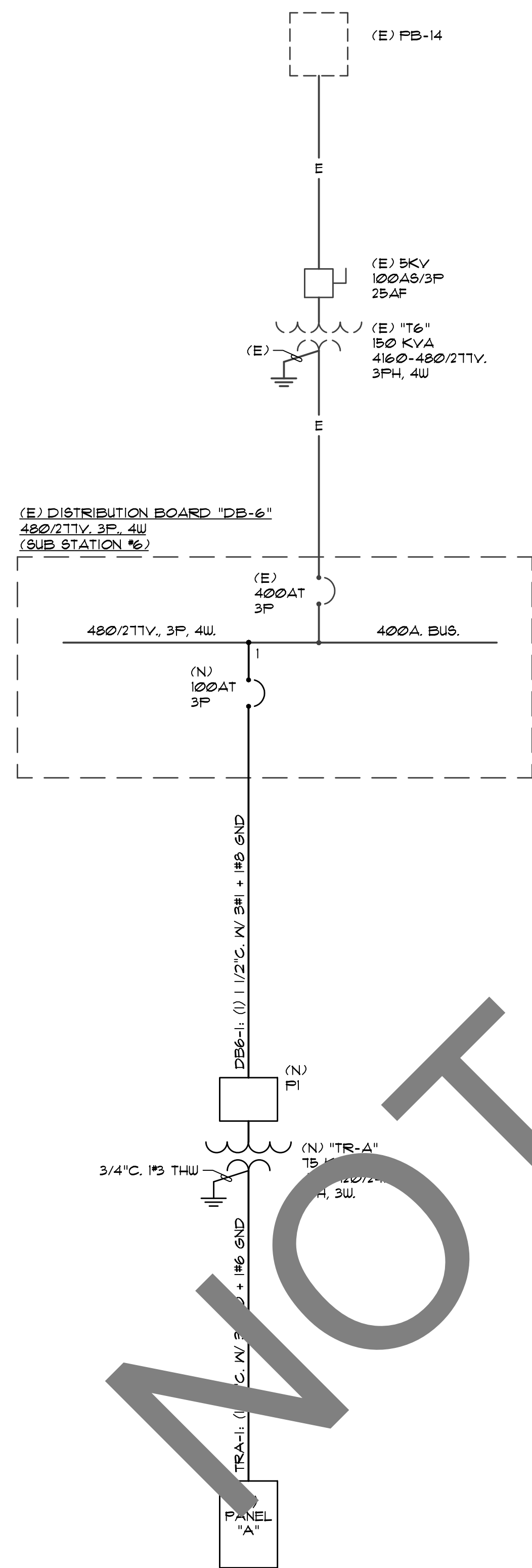
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E-001

SHEET OF XX SHEETS



A&F ENGINEERING GROUP, INC.  
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701  
TEL: (909) 941-3008 FAX: (909) 941-8211



**SINGLE LINE DIAGRAM**

SCALE: N.T.S.

**SINGLE LINE NOTES:**

- ① REFER TO GENERAL NOTES, DRAWING E-001, FOR ADDITIONAL REQUIREMENTS.
- ② CONTRACTOR TO PROVIDE UPDATED NAME PLATES TO IDENTIFY THE NEW CIRCUIT BREAKERS WITHIN DISTRIBUTION BOARD DB-6.
- ③ CONTRACTOR TO EXPAND NEW BUSSING WITHIN EXISTING MAIN SWITCHGEAR AND/OR ALL DISTRIBUTION BOARDS AS REQUIRED FOR INSTALLATION OF NEW CIRCUIT BREAKERS.
- ④ CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE REQUIRED FOR FULLY OPERABLE CIRCUIT BREAKERS.



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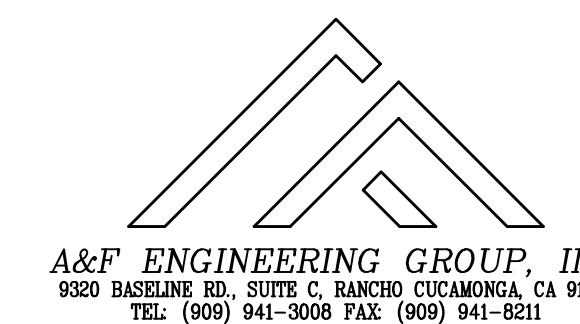
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SINGLE LINE  
DIAGRAM

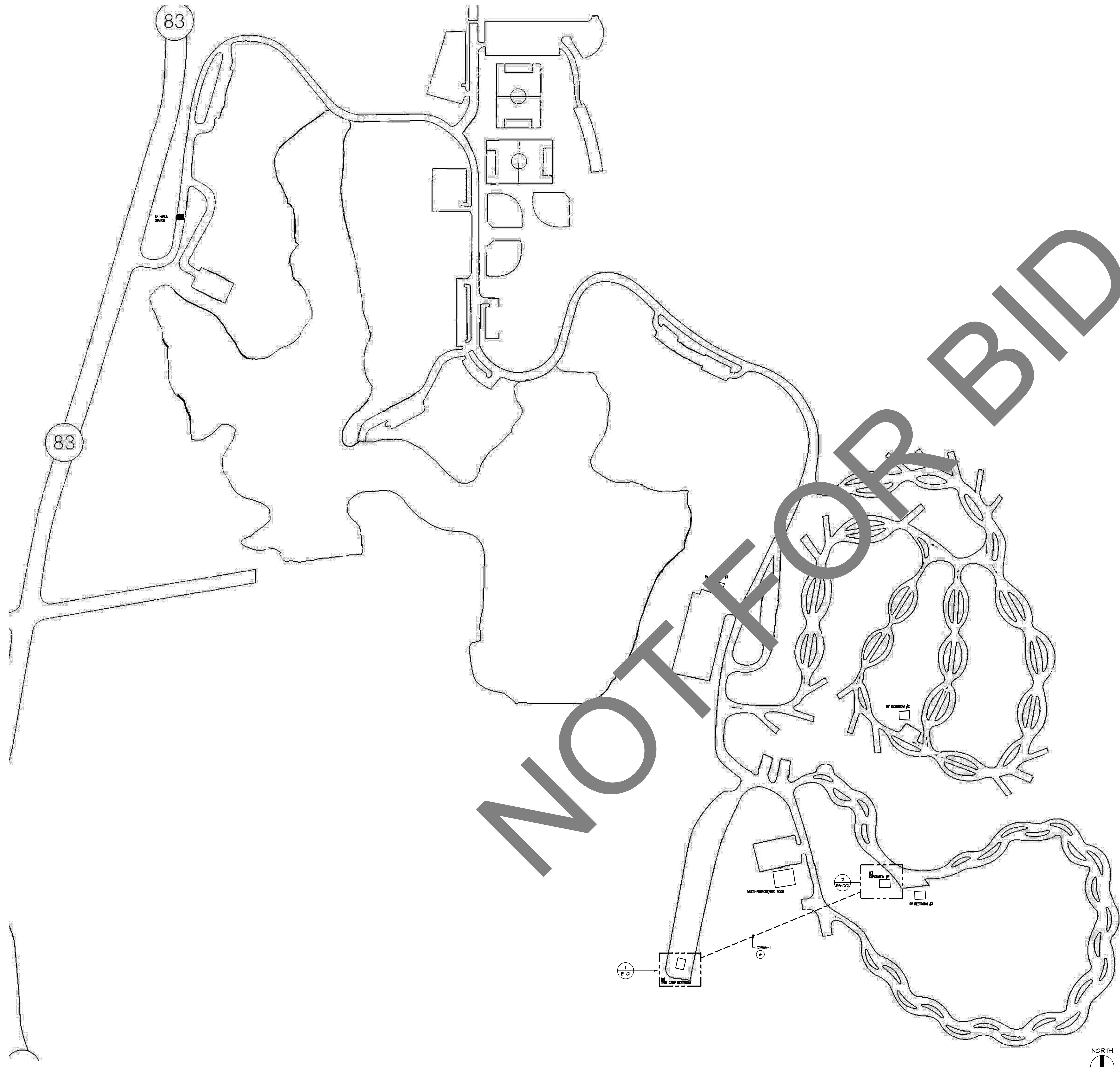
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E-002

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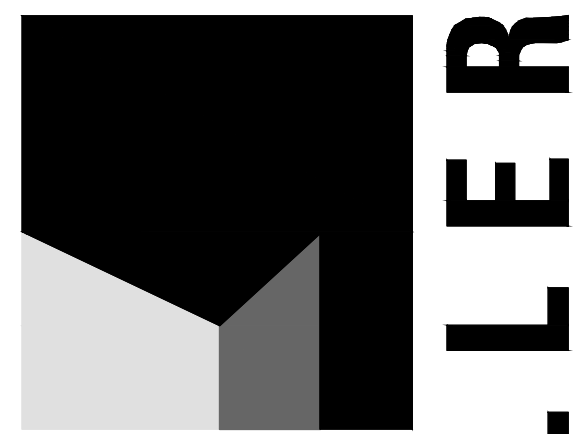


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TEL: (909) 941-3008 FAX: (909) 941-8211



**PLAN NOTES**

- ① REFER TO GENERAL NOTES, SHEET E-001 FOR ADDITIONAL REQUIREMENTS.
- ② THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. COORDINATION TO OCCUR WITH THE ARCHITECT PRIOR TO START OF WORK.
- ③ REFER TO THE SINGLE LINE DIAGRAM, SHEET E-002, FOR FEEDER CONDUIT SIZE AND CONDUCTOR SIZE AND QUANTITIES REQUIRED FOR ELECTRICAL EQUIPMENT INDICATED ON THE SINGLE LINE DIAGRAM.
- ④ CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- ⑤ IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
- ⑥ APPROXIMATE DISTANCE BETWEEN NEW RESTROOM BUILDING UNDERGROUND PULL BOX #1 AND DISTRIBUTION BOARD "DB-6" IS 600 FEET.



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CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

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DWG FILE:  
DRAWN BY: MS  
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DRAWING SCALE: NTS  
DATE: 2/12/2024

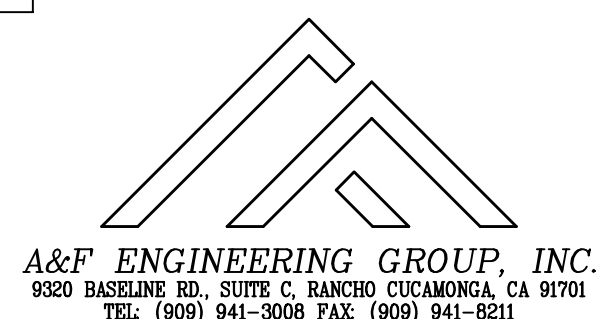
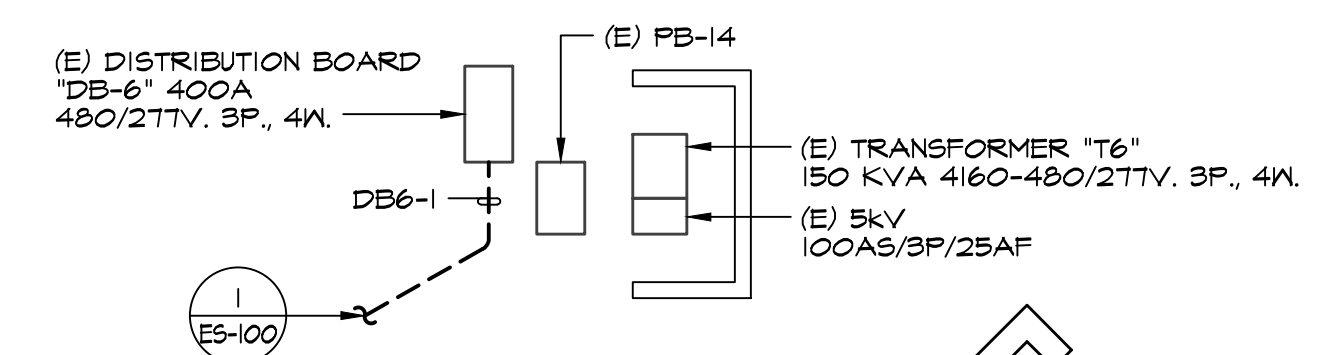
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**OVERALL  
SITE PLAN**

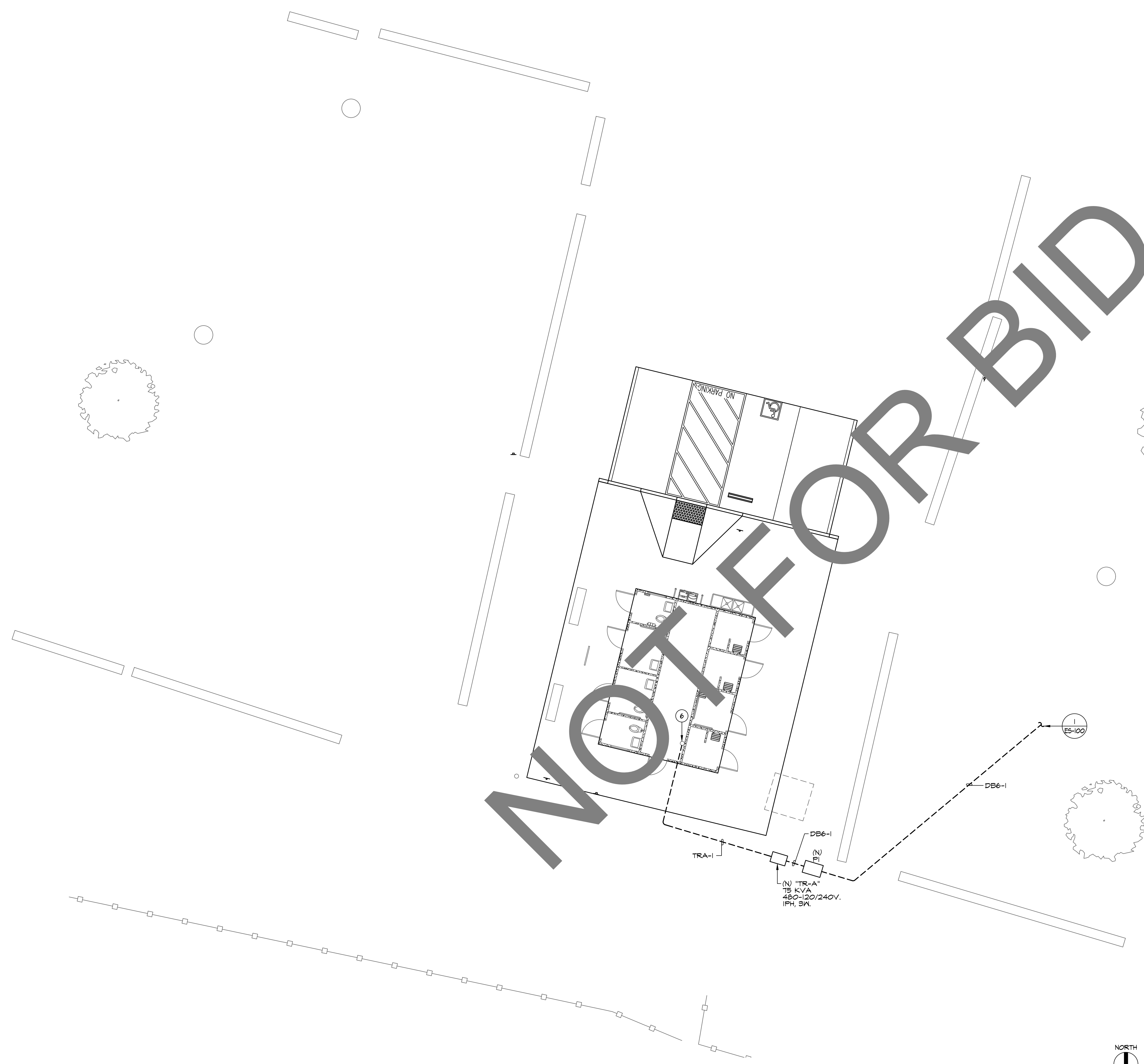
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**ES-100**

SHEET OF XX SHEETS



NOT FOR BID



**PLAN NOTES**

- ① REFER TO GENERAL NOTES, SHEET E-101 FOR ADDITIONAL REQUIREMENTS.
- ② THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. COORDINATION TO OCCUR WITH THE ARCHITECT PRIOR TO START OF WORK.
- ③ REFER TO THE SINGLE LINE DIAGRAM, SHEET E-102, FOR FEEDER CONDUIT SIZE AND CONDUCTOR SIZE AND QUANTITIES REQUIRED FOR ELECTRICAL EQUIPMENT INDICATED ON THE SINGLE LINE DIAGRAM.
- ④ CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- ⑤ IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
- ⑥ FEEDER DB6-1 STUB UP. CONTRACTOR TO PROVIDE 8" DIAMETER BLOCKOUT FOR FEEDER DB6-1. CONTRACTOR TO COORDINATE WITH MODULAR MANUFACTURER DRAWINGS FOR EXACT STUB UP LOCATION AND FEEDER BLOCK OUT REQUIREMENTS PRIOR TO START OF WORK.



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SAN BERNARDINO COUNTY PRADO TENT CAMP  
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 APN: 1057-201-10-0000

SAN BERNARDINO COUNTY  
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 365 NORTH ARROWHEAD AVE, THIRD FLOOR  
 SAN BERNARDINO, CA 92415-0184  
 CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

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 DRAWING SCALE: AS NOTED  
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TENT RESTROOM  
 BUILDING

**sheet number**

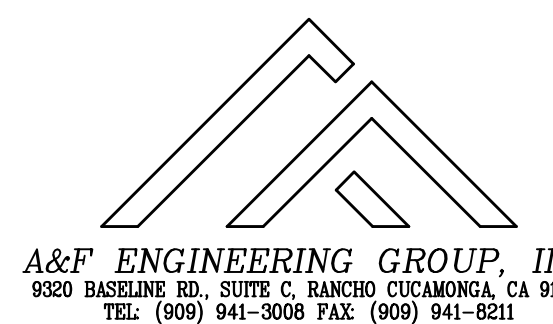
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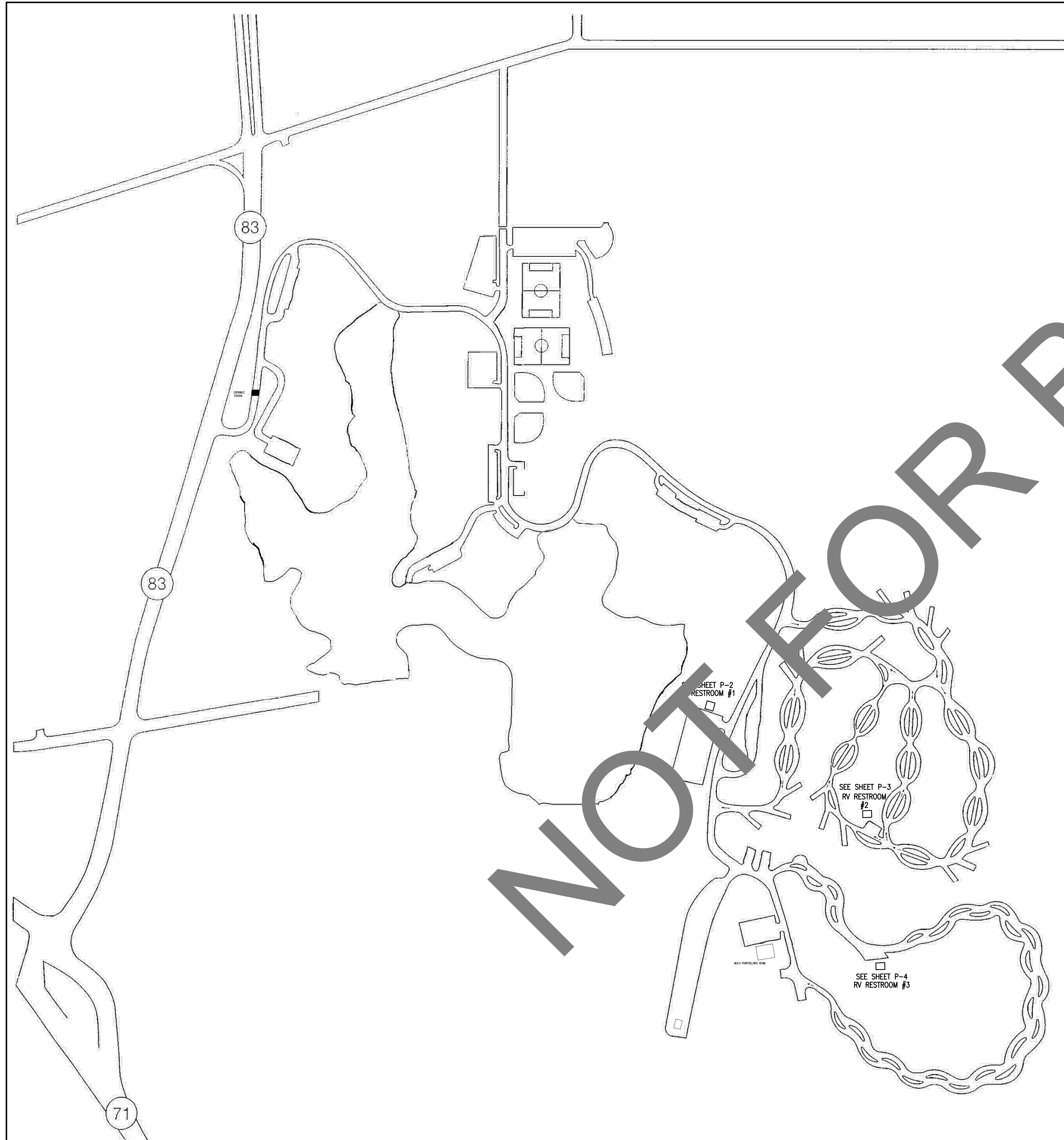
SHEET OF XX SHEETS

**UNDERGROUND PULLBOX SCHEDULE**

I.D.	SIZE	COVER	COVER I.D.	NOTES
P1	2' x 3'	STEEL TRAFFIC COVER	POWER	1

SCHEDULE NOTES:  
 1. 2' x 3' UNDERGROUND PULLBOXES SHALL BE JENSEN PRECAST #C2436-DP36-31T, OR APPROVED EQUAL. PROVIDE WITH BOLT-DOWN TRAFFIC COVERS.





**SITE PLAN**  
N.T.S. FOR REFERENCE ONLY

**GENERAL NOTES**

1. All soil piping to be cast iron or ABS where local codes permit. Vent piping may be galvanized steel, cast iron, copper or ABS as local codes permit (verify). Soil and vent piping to slope a minimum of 1/4" per foot unless noted otherwise. ABS not allowed in fire rated construction. Waste risers above slab serving floor(s) above to be cast iron.
2. Domestic site water piping to be schedule 80 PVC below ground, water and condensate piping above grade to be type 'L' hard copper wrought copper fittings. Solder and flux shall contain no lead. Solder and flux with containing lead shall not be used in potable water systems per Sec. 316.1.3, 2022 CPC.
3. All materials and equipment shall be new and unused unless specified on plans. Contractor to use only qualified labor and supervision for the installation of materials and equipment.
4. All work shall conform with the 2022 CPC and all local codes. No work shall be covered until it has been inspected, tested and approved by inspector.
5. Contractor shall make utility connections and provide permits per contract. Any additional fees and permits will be at extra cost.
6. Contractor shall verify size, depth, location and adequacy of all utilities including meter location and sewer inverts prior to start of work.
7. Contractor shall install cleanouts where indicated on plans and as required by local codes and authorities. Clean out to grade shall be in Brooks box or equal.
8. Coordinate work with all trades to avoid conflict and interferences.
9. Verify all rough-in heights and locations with general contractor and/or architect.
10. All pipes below ground shall be located away from bearing footings or as indicated on structural plans.
11. Install reduced pressure backflow preventer as indicated on plans or as required by local codes. Where street pressure exceeds 80 P.S.I. install approved pressure regulating valve with relief valve and strainer per code.
12. Contractor shall verify that equipment and fixtures will physically fit in the locations indicated.
13. All penetrations of fire rated assemblies shall be made with non-combustible material of an equal fire rating and shall be completely stopped. Refer to architectural plans to identify fire rated assemblies.
14. Contractor shall include (but not limited to) all piping, valves, fittings and fixture supports associated with each new fixture.
16. Each fixture shall have its own shut off valve(s). Valves to be located below or adjacent to the fixture it serves. General contractor to provide access panel when valves are within a wall or above the ceiling. All stub out heights and locations to be verified.
17. All gas piping to be schedule 40 black steel with threaded malleable fittings. Final connection to each gas appliance shall be with an approved flexible connection and shut off valve. When the gas connection to the appliance is within the appliance cabinet the connection shall have a rigid threaded nipple, length as required, extending from the connection through the cabinet. Flexible connection shall not enter the cabinet.
18. All valves, unions, etc., shall be the same size as the piping unless otherwise specified. Unions shall be installed after each screw type valve and prior to equipment connections. Install isolation unions at all connections between dissimilar metals.
19. All plumbing vents shall terminate not less than ten feet away from or at least 3 feet above any window of door opening, fresh air intake nor less than 1 foot from a verticle surface.
20. Insulate all exposed drain piping below lavatories and sinks with "Armaflex".
21. Compressed air piping may be copper or galv. steel. Verify with general contractor or owner.
22. All pipes discharging to floor sinks shall have the minimum air gap as required by the 2022 CPC and local codes.
23. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.
24. Contractor shall be responsible for the entire scope of work as outlined per the contract. Final testing procedures and connections are to conform to the current codes.
25. Contractor shall provide owner with all required manuals for the proper maintenance and operation of equipment.
26. These plans are of schematic form and are drawn for maximum clarity. Changes may be necessary for convience, obstructions, economics and efficiency.



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**SAN BERNARDINO COUNTY PRADO RV CAMP RESTROOM REMODEL**  
16700 EUCLID AVENUE  
CHINO, CA 91708  
APN: 1057-201-10-0000

**SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT**  
385 NORTH ARROWHEAD AVE. THIRD FLOOR  
SAN BERNARDINO, CA 92415-0184  
CONTACT: SARETTA REED PHONE: 909-552-0427

**project information**

PROJECT NO: 12415  
DWG FILE:  
DRAWN BY:  
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DRAWING SCALE:  
DATE: 2-12-24

**sheet name**

SITE PLAN

**sheet number**

P-1

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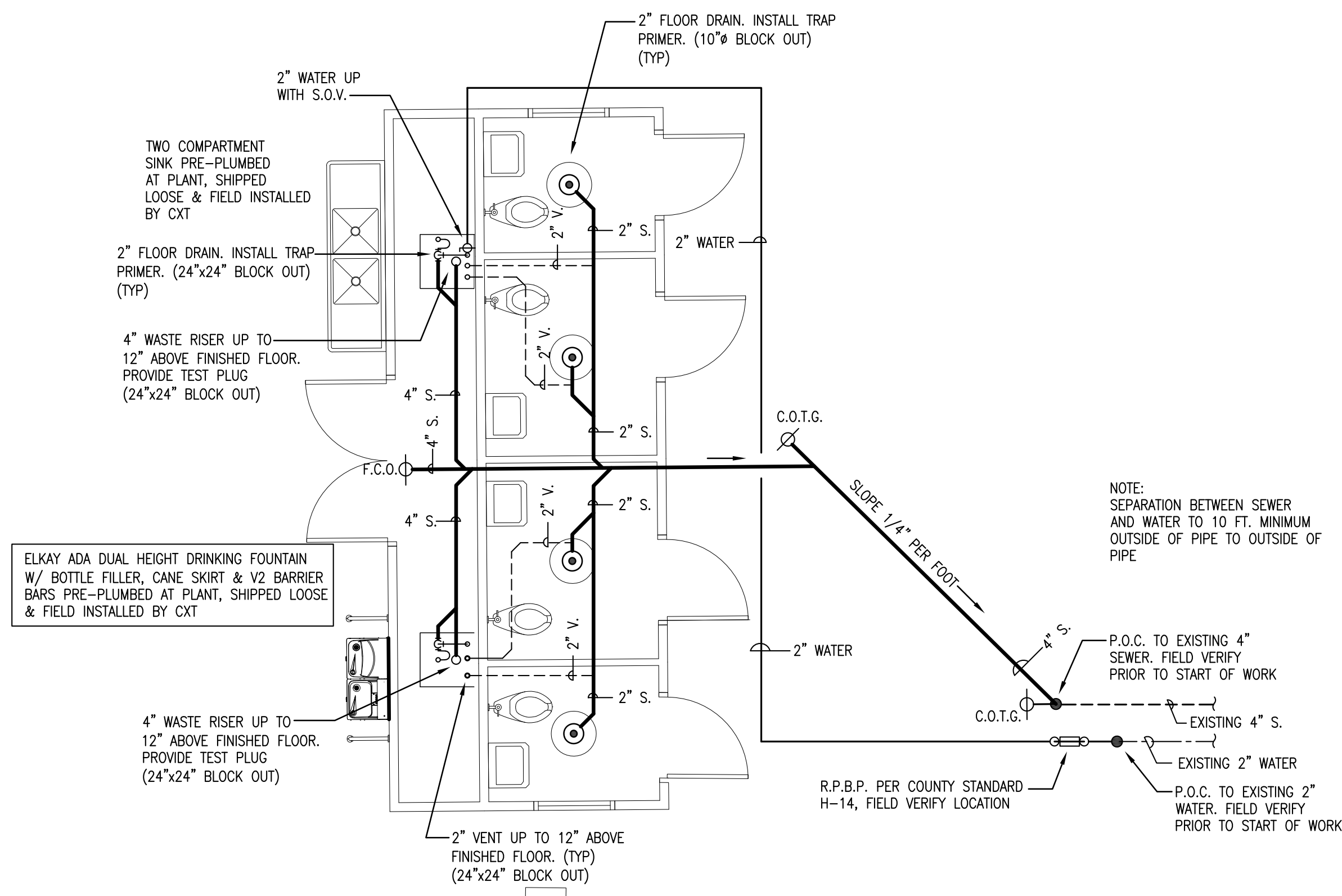
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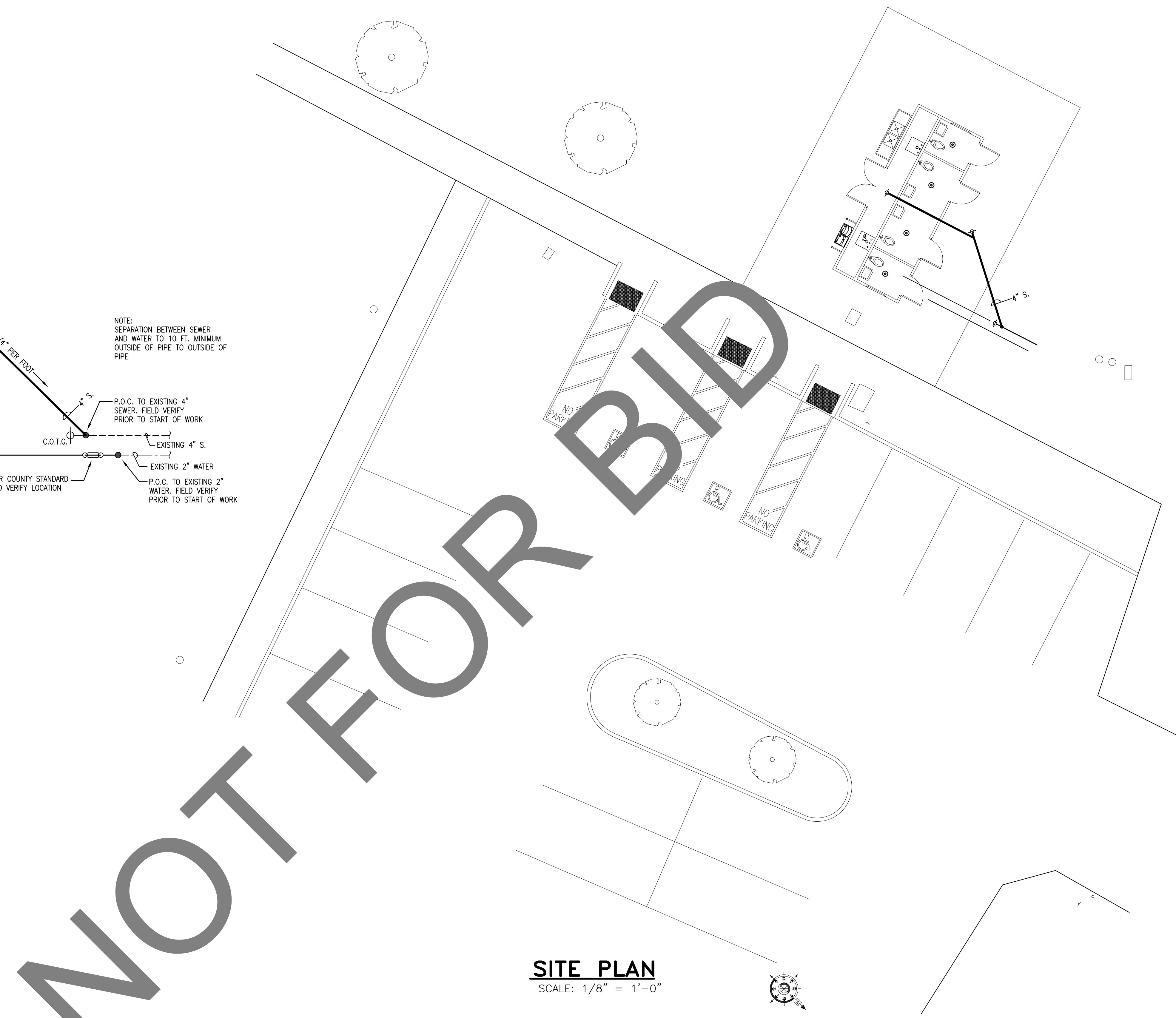
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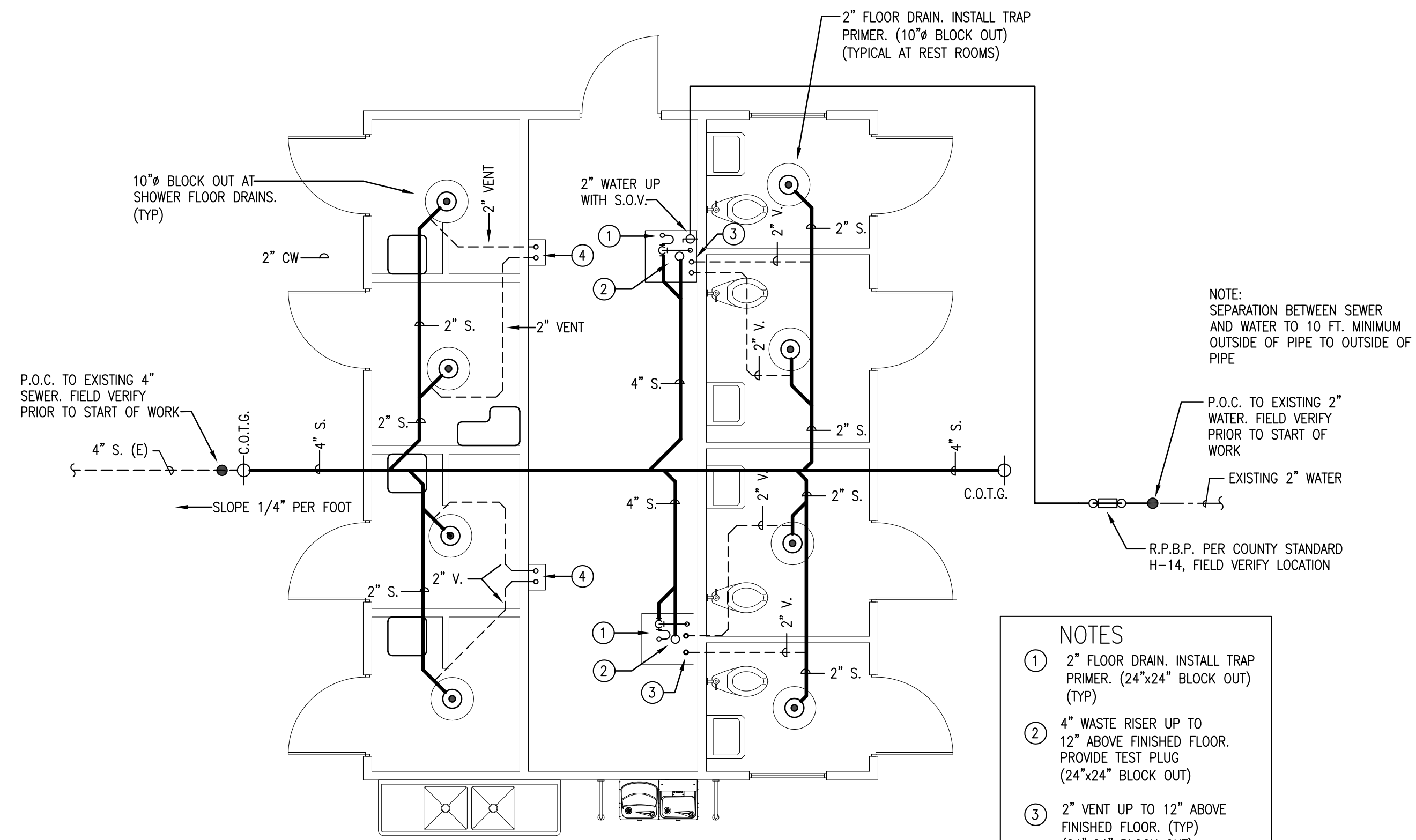
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**RV REST ROOM #1**

sheet number  
**P-2**



**PLUMBING PLAN**  
SCALE: 1/4" = 1'-0"





**PLUMBING PLAN**

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

- NOTES**
- 2" FLOOR DRAIN. INSTALL TRAP PRIMER. (24"x24" BLOCK OUT) (TYP)
  - 4" WASTE RISER UP TO 12" ABOVE FINISHED FLOOR. PROVIDE TEST PLUG (24"x24" BLOCK OUT)
  - 2" VENT UP TO 12" ABOVE FINISHED FLOOR. (TYP) (24"x24" BLOCK OUT)
  - 2" VENT UP TO 12" ABOVE FINISHED FLOOR. (TYP) (8"x12" BLOCK OUT)

??? TWO COMPARTMENT SINK PRE-PLUMBED AT PLANT, SHIPPED LOOSE & FIELD INSTALLED BY CXT

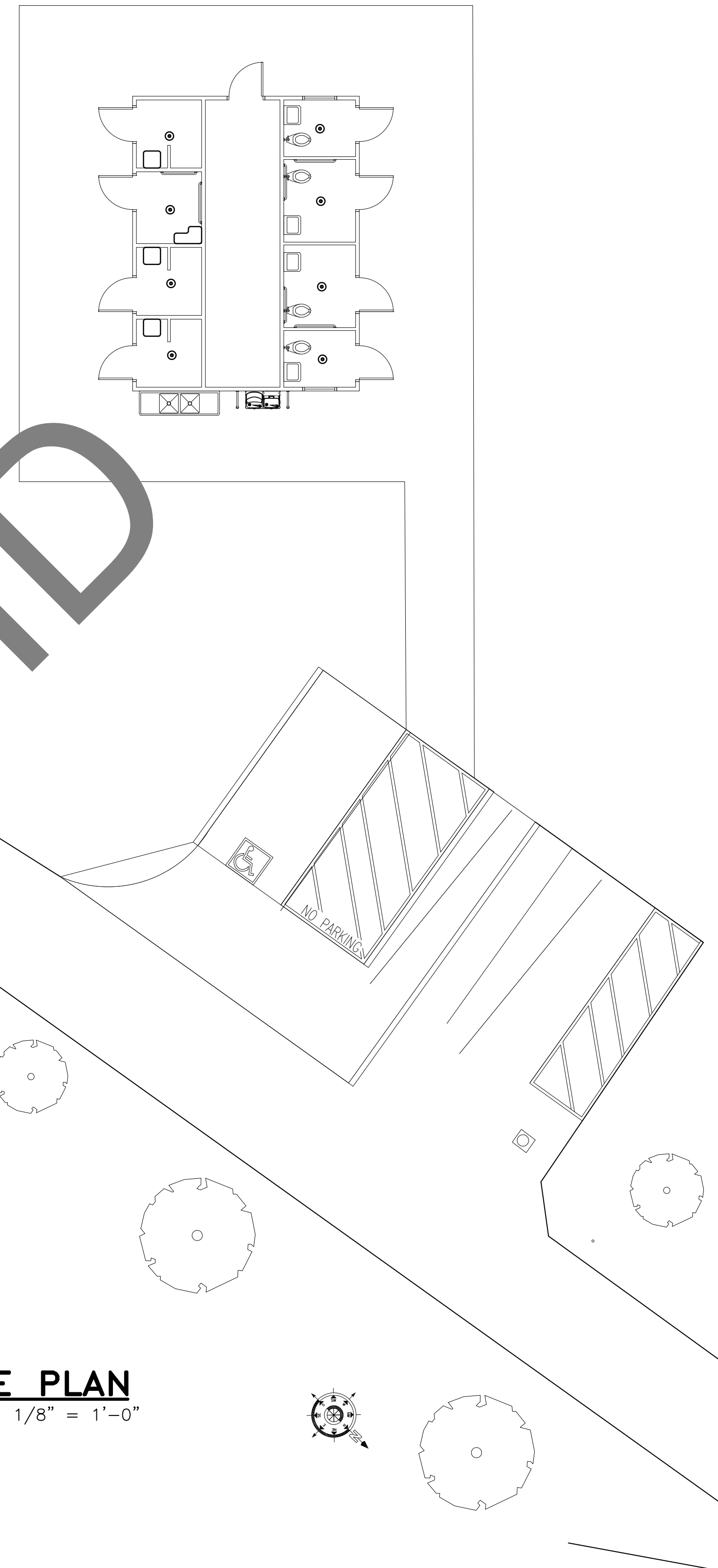
ELKAY ADA DUAL HEIGHT DRINKING FOUNTAIN W/ BOTTLE FILLER, CANE SKIRT & V2 BARRIER BARS PRE-PLUMBED AT PLANT, SHIPPED LOOSE & FIELD INSTALLED BY CXT

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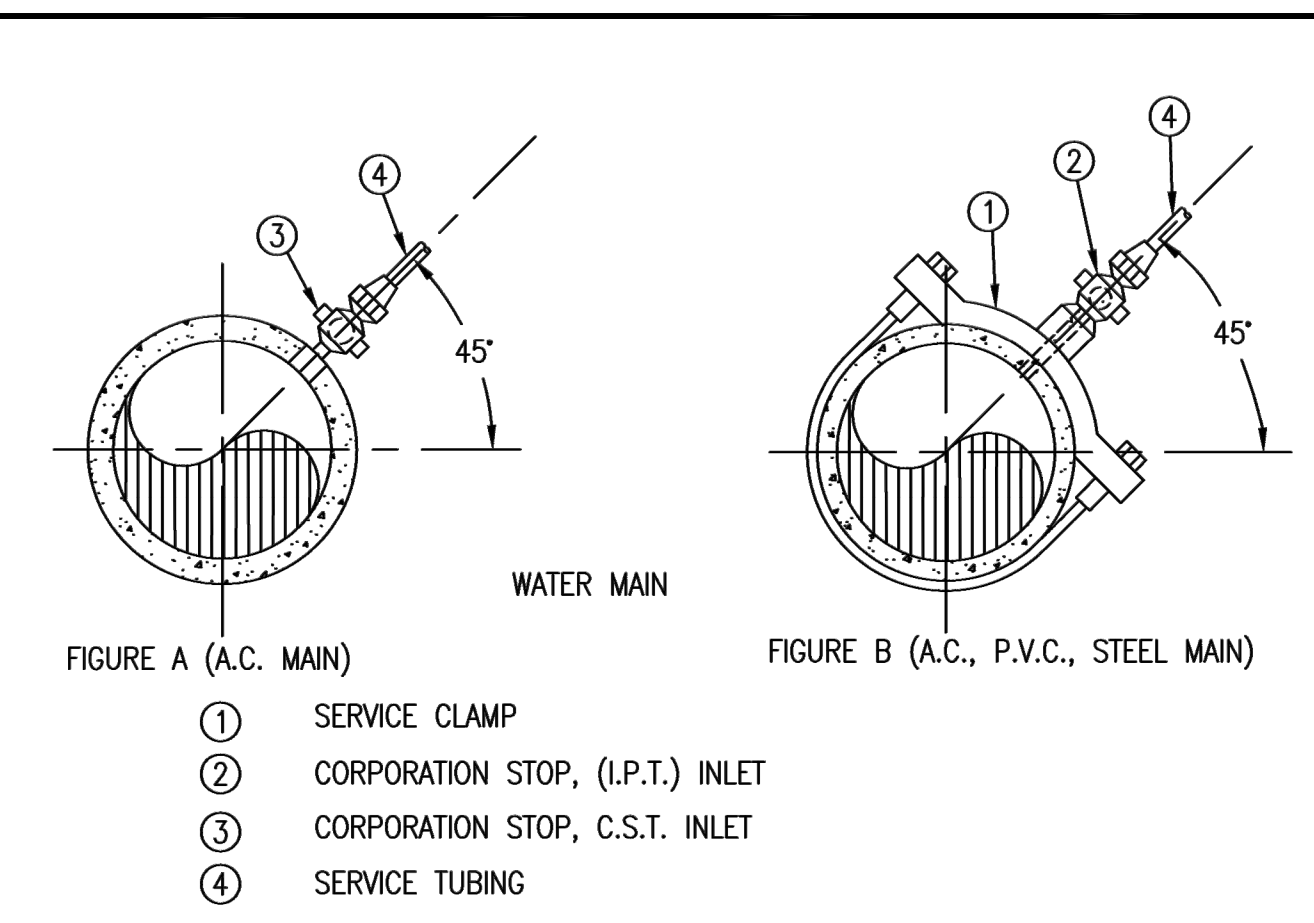
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**SITE PLAN**

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

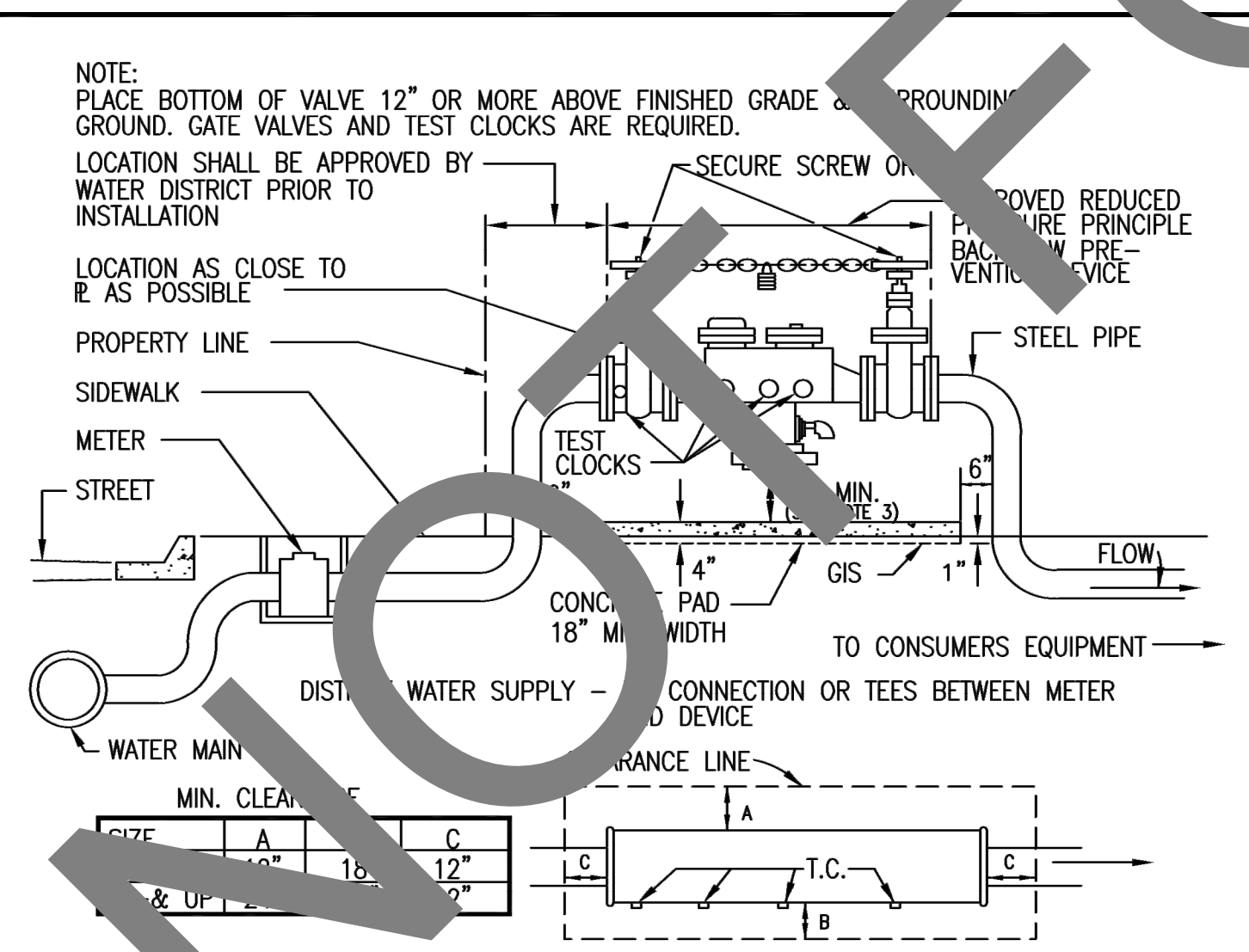


**CONNECTION REQUIREMENTS**

SERVICE OUTLET	SIZE OF A.C. MAIN			
	4"	6"	8"	10" & OVER
1"	FIG. B	FIG. B	FIG. B	FIG. A
1 1/4"	NOT PERMITTED	FIG. B	FIG. B	FIG. B
1 1/2"	NOT PERMITTED	FIG. B	FIG. B	FIG. B
2"	NOT PERMITTED	NOT PERMITTED	FIG. B	FIG. B

- NOTES:**
- IF TWO TAPS ARE MADE, ONE ON EACH SIDE OF THE MAIN, THEY SHALL BE SEPARATED BY A MINIMUM OF TWO (2) FEET (MEASURED ALONG THE PIPE LENGTH). MAKE TAP A MINIMUM OF TWO (2) FEET FROM THE END OF THE PIPE.
  - PIPE THREADS SHALL BE CLEAN AND SHARP AND SEALED WITH AN APPROVED JOINT COMPOUND.

OFFICE OF SPECIAL DISTRICTS COUNTY OF SAN BERNARDINO	
<b>SERVICE CONNECTIONS TO WATER MAINS</b>	
APPROVAL GARY MARTIN DISTRICT ENGINEER	DATE 3-6-2012
REVISIONS	DRAWING NUMBER H-9



- NOTES:**
- THE "APPROVED" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE SHALL BE LOCATED AND INSTALLED SUBJECT TO THE APPROVAL OF THE DISTRICT ENGINEER.
  - THE DEVICE MUST BE INSPECTED & TESTED IMMEDIATELY AFTER INSTALLATION.
  - BOTTOM OF DEVICE SHALL BE INSTALLED A MINIMUM OF 1" ABOVE TOP OF PLANTER WALLS IF INSTALLED WITHIN A RAISED PLANTER.

OFFICE OF SPECIAL DISTRICTS COUNTY OF SAN BERNARDINO	
<b>REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE</b>	
APPROVAL GARY MARTIN DISTRICT ENGINEER	DATE 3-6-2012
REVISIONS	DRAWING NUMBER H-14

SAN BERNARDINO COUNTY PRADO RV CAMP  
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 PROJECT & FACILITIES MANAGEMENT DEPARTMENT  
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**project information**

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