ARCHITECT OF RECORD

STRUCTURAL ENGINEER OF RECORD

LANDSCAPE ARCHITECT OF RECORD

CIVIL ENGINEER OF RECORD

MECHANICAL ENGINEER OF RECORD

EXPIRES: 06/30/26
THOMA #20-8170
ELECTRICAL ENGINEER OF RECORD

index to plans

Reference Documents:
City Standard Specifications - August 2020 Edition
City Engineering Standards - August 2020 Edition

SCOPE OF WORK

PROJECT GENERALLY INCLUDES, BUT IS NOT LIMITED TO:

- DEMOLITION OF EXISTING SITE IMPROVEMENTS, INCLUDING RESTROOM BUILDING, TRELLIS STRUCTURE, STONE WALLS, CURBS, GUTTERS, SIDEWALKS, EXISTING UTILITIES, AND SELECT TREES AND LANDSCAPING.
- CONSTRUCTION OF 504 SF SITE BUILT RESTROOM BUILDING AND 165 SF SITE BUILT KIOSK AND ASSOCIATED FOUNDATIONS AND UTILITIES.
- CONSTRUCTION OF SURROUNDING PLAZA AND PATIO SPACE, INCLUDING BRICK PAVEMENT, SEATWALLS, STAIRS, GRANITECRETE PATIO, METAL RAILINGS, BAR SEATING AREA AND DIGITAL ART KIOSK.
- SITE UTILITES, INCLUDING NEW DOMESTIC WATER SERVICE, SEWER, AND ELECTRICAL.
- SITE FURNISHINGS, INCLUDING BENCHES, TABLES, PLANTER POTS, DRINKING FOUNTAIN, LIGHT POLES, AND STRING LIGHTS.
- NEW IRRIGATION TO TIE INTO EXISTING SYSTEM.
- NEW LANDSCAPE BOULDERS AND TREE, SHRUB, AND TURF-GRASS PLANTING, INCLUDING LARGE BOX SPECIMEN OLIVE TREES AT GRANTECRETE PATIO.

PROJECT DIRECTORY

OWNER
City of San Luis Obispo Public Works
990 Palm Street — Phone: 805-783-7735
San Luis Obispo, CA 93401 — Fax:
Shelsie Moore, Supervising Civil Engineer

ARCHITECT / LANDSCAPE ARCHITECT / CIVIL / STRUCTURAL
RRM Design Group
3765 S. Higuera St. Ste 102 — Phone: (805) 543-1794
San Luis Obispo, CA 93401 — Fax: (805) 543-4609
Kathryn Hicks, Project Manager

ELECTRICAL ENGINEER
Thoma Electric
3562 Empleo St., Ste. C — Phone: (805) 543-3850
San Luis Obispo, CA 93401 — Fax:
Christopher Jose

TOPOGRAPHIC SURVEY

PREPARED BY: WALLACE GROUP

DATE: JANUARY, 2016

PROJECT No.: 0061-0084

DATUM:

CORDINATES SHOWN ARE BASED ON HORIZONTAL CONTROL POINTS 8044 & 8046 AS PUBLISHED IN THE CITY OF SAN LUIS OBISPO 2007 HORIZONTAL CONTROL NETWORK (NORTH AMERICAN DATUM OF 1983 (NAD83) EPOCH DATE 1991.35, ZONE 5 CALIFORNIA). THE BEARING BETWEEN CONTROL POINTS BEARS NORTH 88°16'09.74" EAST 1240.47'

ELEVATIONS SHOWN ARE BASED ON THE CITY OF SAN LUIS OBISPO BENCHMARK SYSTEM 2007 REFERENCED TO BENCHMARK NO. 373 WITH AN ELEVATION OF 193.02'. CITY BENCHMARK SYSTEM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NOTE: THE CITY OF SAN LUIS OBISPO BENCHMARK SYSTEM 2020 REFERENCES BENCHMARK NO. 373 WITH AN ELEVATION OF 192.86' (NAVD88).

SURVEY NOTES

1. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GROUND DISTANCES.
2. THE CONTOUR INTERVAL IS 1 FOOT.
3. THIS SURVEY WAS DONE FOR THE PURPOSE OF MASTER PLAN DESIGN FOR THE MISSION PLAZA AND SURROUNDING STREETS.
4. UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR MORE INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
5. UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
6. EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.

811 Know what's below. Call 811 before you dig.

CITY OF SAN LUIS OBISPO

SAN LUIS OBISPO COUNTY, CALIFORNIA

MISSION PLAZA ENHANCEMENTS

REGISTERED PROFESSIONAL ENGINEER — BRIAN A. NELSON — No. C 79870 — CIVIL — STATE OF CALIFORNIA

APPROVED BY

Brian A. Nelson, City Engineer *R.C.E. C79870* *Approved Date*

SPECIFICATION NO.	DATE	SHEET
91439-01	05.14.2024	G001
	FILE NO./LOCATION 0256-03-CU20	

PROJECT SOILS REPORT

PREPARED BY: EARTH SYSTEMS PACIFIC
4378 OLD SANTA FE ROAD
SAN LUIS OBISPO, CA 93401

DATE: OCTOBER 21, 2022

UPDATED: N/A

REPORT NAME: GEOTECHNICAL ENGINEERING REPORT
MISSION PLAZA RESTROOM AND CAFE
SAN LUIS OBISPO, CALIFORNIA

PREPARER: Robert Down, PE

LICENSE: PE 70206

EARTHWORK QUANTITIES

AREA OF DISTURBANCE: 6,700 SQUARE FEET

MAXIMUM CUT HEIGHT: 1 FOOT

MAXIMUM FILL HEIGHT: 2 FEET

RAW CUT: 80 CUBIC YARDS

RAW FILL: 70 CUBIC YARDS

ADJUSTED FILL: (ASSUME 0% SHRINK/SWELL) 70 CUBIC YARDS

NET QUANTITY: 10 CUBIC YARDS EXPORT

THE APPROXIMATE RAW EARTHWORK QUANTITIES SHOWN HEREON REPRESENT THE ESTIMATED VOLUMETRIC DIFFERENCE CALCULATED BETWEEN THE PROPOSED SUBGRADE AND ESTIMATED EXISTING SUBGRADE SURFACE, AND ARE SUBJECT TO CHANGE. THESE ESTIMATES DO NOT INCLUDE CONSIDERATIONS FOR LOSSES OR BULKING DUE TO: SOIL AMENDMENTS, STABILIZATION, CONSTRUCTION TECHNIQUE, FOOTING & TRENCHING SPOILS, ETC. THESE CONSIDERATIONS, IN ADDITION TO ACTUAL FIELD CONDITIONS AND THE FINAL RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, MAY SIGNIFICANTLY EFFECT THE FINAL IMPORT/EXPORT QUANTITIES. APPROXIMATE QUANTITIES SHOWN ON THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE ACTUAL QUANTITIES FOR THE PURPOSE OF CONSTRUCTION AND COST ESTIMATES. CONTRACTOR IS ALSO RESPONSIBLE FOR ADJUSTMENTS TO SLOPE HINGE POINTS IN ORDER TO PROVIDE GRADED PAD AREA ADJACENT TO PATHS, WALKWAYS, AND ROADS FOR UTILITY BOXES, TRANSFORMERS, AND ABOVE GROUND UTILITY INFRASTRUCTURE.

APPROXIMATE RAW EARTHWORK QUANTITIES SHOWN ABOVE FOR BIKE PATH AREA BETWEEN FOOTHILL BLVD AND RAMONA DRIVE ONLY. APPROXIMATE RAW EARTHWORK QUANTITIES FOR REMAINING PROJECT AREAS ARE NOT PROVIDED. CONTRACTOR IS RESPONSIBLE FOR ANY/ALL MATERIALS QUANTITIES, EARTHWORK QUANTITIES ASSOCIATED WITH WORK SHOWN HEREIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE ACTUAL QUANTITIES FOR THE PURPOSE OF BIDDING, COST ESTIMATES AND CONSTRUCTION.

LEGEND

PROPERTY/RIGHT-OF-WAY LINE (ROW)
CENTER LINE
SAWCUT AND CONFORM LINE
LIMIT OF WORK (LIMIT OF WORK)
FENCE LINE
FLOW LINE
GRADE BREAK (GB)
TREE PROTECTION ZONE
STRIPING
TYPE II SLURRY SEAL
EXISTING POLE LIGHT
PROPOSED POLE LIGHT
PROPOSED DRINKING FOUNTAIN/BOTTLE FILLER
STORM DRAIN LINE (SD)
WATER LINE (W)
SEWER LINE (SS)
EXISTING MANHOLE (S)
EXISTING SIGN
EXISTING WATER VALVE
EXISTING CLEANOUT (CO)
EXISTING WATER (W)
EXISTING SEWER (SS)
EXISTING STORM DRAIN (SD)
EXISTING OVERHEAD LINES (OH)
EXISTING MAJOR CONTOUR (315)
EXISTING MINOR CONTOUR (315)
PROPOSED MAJOR CONTOUR (315)
PROPOSED MINOR CONTOUR (315)

FLOODPLAIN AND DRAINAGE COMPLIANCE

THE PROJECT PROPERTY IS LOCATED WITHIN A FLOOD ZONE AS MAPPED BY FEMA MAP NUMBER 06079C1068G DATED NOVEMBER 16, 2012. THE LIMITS OF FLOOD ZONE AE ARE DEPICTED ON THE GRADING AND DRAINAGE PLAN SHEET. ALL PROPOSED STRUCTURES AND UTILITIES SHOWN ON THESE PLANS COMPLY WITH THE CITY OF SAN LUIS OBISPO DRAINAGE DESIGN MANUAL AND FLOODPLAIN MANAGEMENT REGULATIONS.

STORMWATER COMPLIANCE

THE PROJECT CONSISTS OF:

- SIDEWALK AND PLAZA RECONSTRUCTION
- BUILDING DEMOLITION
- BUILDING CONSTRUCTION
- LANDSCAPING & IRRIGATION
- NET IMPERVIOUS AREA OF LESS THAN 5,000 SQUARE FEET

THE PROJECT IS A REGULATED PROJECT SUBJECT TO CENTRAL COAST POST-CONSTRUCTION STORMWATER REQUIREMENT 1 PER RESOLUTION R3-2013-0032. REFER TO PROJECT STORMWATER CONTROL PLAN APPLICATION FOR FURTHER DETAILS.

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AP	ANGLE POINT
ARV	AIR RELEASE VALVE
BCR	BEGIN CURVE
BW	BACK OF WALK
CB	CATCH BASIN
CL/CL.	CENTERLINE/CLASS
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
DBH [OF A TREE]	DIAMETER AT BREAST HEIGHT
DI	DRAIN INLET
DIP	DUCTILE IRON PIPE
EG	EXISTING GRADE
EX.	EXISTING
ELEV	ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FL	FLOWLINE
FS	FINISHED SURFACE
FFE	FINISHED FLOOR ELEVATION
FW	FIRE WATER
HP	HIGH POINT
IPS	IRON PIPE SIZE
JT	JOINT TRENCH
LP	LOW POINT
MAX.	MAXIMUM
EL.	MINIMUM
NTS	NOT TO SCALE
PL	PROPERTY LINE
PCL	PARCEL
PCC	PORTLAND CEMENT CONCRETE
POC	POINT OF CURVE/POINT OF CONNECTION
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
ROW	RIGHT OF WAY
RET. WALL	RETAINING WALL
RP	REDUCED PRESSURE
RW	RECYCLED WATER
SD	STORM DRAIN
SFM	SEWER FORCE MAIN
SL	STREET LIGHT/SERVICE LATERAL
SS	SANITARY SEWER
STA	STATION
STD.	STANDARD
TBD	TO BE DETERMINED
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TF	TOP OF FOOTING
TP	TOP OF PAVEMENT
TG	TOP OF GRATE
TYP.	TYPICAL
TW	TOP OF WALL
UON	UNLESS OTHERWISE NOTED
W	WATER
WSE	WATER SURFACE ELEVATION

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THESE PLANS, SPECIAL PROVISIONS PREPARED FOR THIS PROJECT AND THE 2020 CITY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS AND ENGINEERING STANDARDS, IN CONJUNCTION WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS, 2015 EDITION (UNREVISED), AND LATEST EDITION OF CALIFORNIA MUTCD.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT OF NORTHERN/CENTRAL CALIFORNIA" BY PHONE AT 8-1-1 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITTEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.
3. THESE PLANS DO NOT INDICATE ALL EXISTING FACILITIES IN THE VICINITY OF THE PROPOSED WORK SUCH AS EXISTING IRRIGATION HEADS AND LINES, SHRUBBERY AND VEGETATION, ETC. THE CONTRACTOR MUST USE CARE TO AVOID DAMAGE TO ANY EXISTING IMPROVEMENTS OR VEGETATION IN THE VICINITY OF THE WORK, AND MUST REPAIR ANY FACILITIES DAMAGE DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
4. WHERE TRIMMING OF EXISTING VEGETATION IS REQUIRED DURING CONSTRUCTION IT MUST BE DONE IN A MANNER TO REMOVE THE MINIMUM POSSIBLE AMOUNT OF VEGETATION AND LEAVE THE REMAINING IN AN ATTRACTIVE CONDITION. CONTRACTOR MUST COORDINATE WITH CITY ARBORIST PRIOR TO TRIMMING OF ANY VEGETATION.
5. PROTECT TREE BRANCHES, TRUNK, ROOTS AND FOLIAGE THROUGH PROPER TRIMMING AND CONSTRUCTION TECHNIQUES WHENEVER POSSIBLE PER CITY STD SECTION 20.
6. CONSULT WITH WITH THE CITY'S ARBORIST PRIOR TO PRUNING OR WORKING WITHIN THE DRIPLINE OF ANY TREE. ALL PRUNING OF TREES SHALL BE KEPT TO A MINIMUM AND MUST FOLLOW CITY OF SAN LUIS OBISPO STANDARDS.
7. NO TREES, OTHER THAN THOSE INDICATED ON THE DRAWINGS, SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE CITY.
8. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE DRIPLINE OF ANY TREE.
9. THESE PLANS DO NOT INDICATE ALL OVERHEAD LINES. CONTRACTOR SHALL TAKE CARE DURING CONSTRUCTION TO AVOID CONTACT WITH OR DAMAGE TO EXISTING OVERHEAD LINES.
10. ANY EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.
11. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WITH SERVICES IN THE AREA PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES AND COORDINATE WITH THE UTILITY COMPANIES AFFECTED BY CONSTRUCTION.
12. PROTECT SURVEY MONUMENTS IN PLACE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPLACEMENT OF DAMAGED OR DISPLACED SURVEY MONUMENTS AND SHALL NOTIFY THE CITY FIVE (5) WORKING DAYS PRIOR TO RESTORING MONUMENTS. MONUMENTS SHALL BE RESET BY A CALIFORNIA LICENSED LAND SURVEYOR AND SHALL INCLUDE PREPARING AND FILING A CORNER RECORD WITH SAN LUIS OBISPO COUNTY.
13. ALL STRIPING AND MARKINGS SHALL BE PER CALTRANS REVISED STANDARD PLANS 2015 -A20A, A20B, A20C, A20D, A24A, A24B, A24C, A24D, AND A24E. ANY STRIPING NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN PLACE. SEE SPECIAL PROVISIONS SECTION 84.
14. ALL CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SHALL BE COMPLETED PRIOR TO THE START OF PAVING WORK.
15. CONCRETE SIDEWALKS MUST CONFORM TO ENGINEERING STANDARDS 4110 & 4220.
16. REMOVAL AND REPLACEMENT OF EXISTING CONCRETE SHALL CONFORM TO ENGINEERING STANDARD 4910.
17. ALL EQUIPMENT SUBMITTALS, INCLUDING PATH/STREET LIGHTING, SIGNS, ETC. SHALL BE APPROVED BY CITY PRIOR TO INSTALLATION.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UTILITY COVERS IN FIELD.
19. PROTECT UTILITY COVERS IN PLACE. ENSURE EXCESSIVE LIP BETWEEN COVER AND SLURRY DOES NOT FORM. THERMOPLASTIC STRIPING PLACED ON CONCRETE REQUIRES A PRIMER COAT PRIOR TO APPLICATION.
20. CONTRACTOR SHALL USE PRECAUTION TO PREVENT DISRUPTION OF PROJECT SITE IN AREAS OUTSIDE CONSTRUCTION ZONE. DAMAGES SHALL BE REPLACED OR REPAIRED BY CONTRACTOR. CONTRACTOR SHALL SUBMIT VIDEO LOG OF CONSTRUCTION SITE THROUGHOUT DURATION OF PROJECT.
21. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS BEFORE COMMENCING WORK.
22. PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE CITY INSPECTOR.
23. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT THEIR OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED OR NATIVE VEGETATION, AND DOMESTIC AND NON-DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM THEIR OPERATIONS.
24. CONSTRUCTION LINE AND GRADE STAKES SHALL BE SET BY A CIVIL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
25. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.
26. ALL PROTECTIVE DEVICES TO BE INSTALLED BY THE CONTRACTOR, SHALL BE IN PLACE AT THE END OF EACH WORK DAY. A SAFE PEDESTRIAN PATH OF TRAVEL SHALL BE PROVIDED AT ALL TIMES TO AND FROM BUILDING ENTRANCES TO PARKING FACILITIES. COORDINATE PEDESTRIAN WALK CLOSURES WITH OWNER PRIOR TO CONSTRUCTION.
27. CONTRACTOR SHALL REFER TO MATERIALS SPECIFICATIONS THROUGHOUT THE APPROVED PLAN SET AND SPECIFICATIONS. ANY SUBSTITUTIONS OF THE MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE CITY.
28. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE CITY OF SAN LUIS OBISPO FOR TESTING AND INSPECTION 48 HOURS IN ADVANCE. WORK NOT PROPERLY TESTED AND INSPECTED WILL BE SUBJECT TO REJECTION.
29. WORK IN AND ALONG PUBLIC STREETS AND PARKING LOTS, ONCE BEGUN, SHALL PROCEED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO THE PUBLIC.
30. SUBSURFACE UTILITY DATA IS DEPICTED TO LEVEL C OF CI/ASCE 38-02 AS DEFINED IN THE GUIDANCE OF THE EXISTING UTILITY DATA. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ALL UTILITIES SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE CITY.
31. ENTRANCE TO THE SITE AND LAY DOWN AREA DURING CONSTRUCTION SHALL BE SPECIFIED BY THE CITY.
32. CONTRACTOR SHALL PROVIDE A LEGIBLE AND COMPLETE SET OF PLANS IDENTIFYING ALL MODIFICATIONS MADE DURING CONSTRUCTION TO THE CITY FOR THE PREPARATION OF RECORD DRAWINGS.
33. ALL CONSTRUCTION SHALL CONFORM TO LATEST EDITION OF CALIFORNIA BUILDING CODE TITLE 24.
34. CONTRACTOR SHALL NOTIFY BUSINESSES OF WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE NOTIFICATION EFFORTS WITH CITY OF SAN LUIS OBISPO.
35. THIS PROJECT SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBS), AND THE CALIFORNIA ENERGY CODE (CENC), ALL AMENDMENTS TO THE CA CODES ADOPTED BY THE CITY OF SAN LUIS OBISPO, AND ALL OTHER CODES, REGULATIONS, AND APPROVALS ESTABLISHED BY THE CITY OF SAN LUIS OBISPO.

ADDITIONAL NOTES

1. ALL WORK LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN THE JURISDICTION OF THE UTILITIES AND PUBLIC WORKS DEPARTMENTS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE ENGINEERING STANDARDS AND SPECIFICATIONS.
2. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, WITHIN CITY EASEMENTS, OR FOR CONNECTIONS FOR PUBLIC UTILITIES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO DEMOLITIONS, UTILITIES, WATER, SEWER, AND FIRE SERVICE LATERALS, CURB, STREET TREE PLANTING OR PRUNING, CURB RAMPS, STREET PAVING, AND PEDESTRIAN PROTECTION OR CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
3. CURB, GUTTER, SIDEWALK, OR DRIVEWAY APPROACH DAMAGED BY THE CONTRACTOR IN THE COURSE OF THEIR WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE PUBLIC WORKS ENGINEER.
4. THE ADJOINING STREET SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD AND CONSTRUCTION DEBRIS AT THE END OF EACH DAY.
5. A TRAFFIC AND PEDESTRIAN CONTROL PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO ENCROACHMENT PERMIT ISSUANCE.
6. ANY EXISTING SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE OR SHALL BE TIED OUT BY A LICENSED LAND SURVEYOR PRIOR TO DISTURBANCE AND THEN REPLACED PRIOR TO OCCUPANCY IN ACCORDANCE WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS ENGINEER DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

GENERAL NOTES

PROJECT TITLE:

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

ENGINEER OF RECORD:

REGISTERED PROFESSIONAL ENGINEER ROBERT A. CALCAGNO No. 76567 CIVIL STATE OF CALIFORNIA

DATE:

DESIGNED BY:	NLS
DRAWN BY:	NLS
CHECKED BY:	RC
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	G002

FINDINGS

1. As conditioned, the project is consistent with the goals and policies of the City's General Plan for development in the Downtown Area and for Public and Cultural Facilities (Land Use Element (LUE) §§ 4 & 5) and with policies and programs for the treatment of Cultural Resources (Conservation and Open Space Element (COSE) § 3). The project improves and enhances Mission Plaza's function as a space to accommodate public socialization in a setting which is festive and comfortable for public gatherings, walking, and sitting (LUE §§ 4.4 & 4.5). The reconstructed restroom facilities are sited and designed such that the space is observable from the Plaza walkway and adjacent streets, and the multi-use kiosk building "activates" the space, to enhance public safety (LUE §§ 4.8 & 4.9). The style and character of the new buildings have been carefully considered for compatibility with architecturally and historically significant buildings adjacent to the Plaza and in the Downtown Historic District, and the project involves no changes to the historic Murray Adobe (COSE §§ 3.3.1, 3.3.5, & 3.6.3). Condition of approval #3 requires an archeological monitoring plan to be prepared and implemented, for the protection of, and avoidance of adverse effects on, potential archaeological resources, consistent with the City's Archaeological Resource Preservation Program Guidelines (COSE §§ 3.5.1 & 3.5.4).

2. The project conforms to the standards set forth in the City's Zoning Regulations. The proposed replacement restrooms, new kiosk, and new outdoor seating area will provide amenities for continued public use of the property within a Public Facility (PF) Zone and are designed and sited in a manner consistent with applicable Property Development Standards (Zoning Regulations § 17.10.020 & Ch. 17.48).

3. On April 25, 2022, the Cultural Heritage Committee found the project, as conditioned, to be consistent with the City's Historic Preservation Ordinance (SLOMC Ch. 14.01) and with the supporting Historical Preservation Program Guidelines (HPPG). The property is located within the Downtown Historic District. Consistent with guidelines for construction in historic districts (HPPG §§ 3.1 & 3.2), proposed new buildings are of limited size and scale, their materials, colors, and detailing have been carefully considered for architectural compatibility with the style and details exhibited by important historic buildings in the Downtown Historic District, without seeking to directly copy or mimic these buildings, and they have been sited in a manner that enhances views through to the Murray Adobe from the street (HPPG §§ 3.2.1 & 3.2.2). Condition of approval #2 requires implementation of monitoring during construction activities to provide protection guidance for work adjacent to the Murray Adobe, and attention to appropriate surface treatment adjacent to the building to protect it from further moisture damage.

4. The project is consistent with Community Design Guidelines, including Downtown Design Guidelines (CDG Ch. 4). The proposed buildings are designed with consideration of the site context, incorporating local themes inspired by nearby historic buildings within the Downtown Historic District, and employ authentic building styles, design elements, and materials (§§ 1.4 (A), 2.1, & 4.2 (D)).

5. The work proposed under the project is categorically exempt from further environmental review, described in the Guidelines for Implementation of the California Environmental Quality Act (CEQA Guidelines). It involves: replacement of the restroom building on the same site, for the same purpose and capacity, an existing structure as described in Guidelines § 15302 (Replacement or Reconstruction); construction of a small kiosk building to be put to uses which are allowed in the Public Facilities (PF) Zone, with all necessary services and facilities available, as described in Guidelines § 15303 (New Construction of Small Structures); and creation of an outdoor seating area through minor alteration of an existing public facility, as described in Guidelines § 15301.

CONDITIONS

REFERENCE

Please note the project conditions of approval do not include mandatory code requirements. Code compliance will be verified during the plan check process, which may include additional requirements applicable to the project.

CONDITIONS	REFERENCE
Planning **1. Conformance to approved plans. Final project design and construction drawings submitted for building permits shall be in substantial compliance with the plans approved by this application, and with all conditions of approval. A separate full-size sheet shall be included in plans submitted for permits, listing all conditions of project approval. Reference shall be made in the margin of the listed conditions as to where in plans requirements are addressed. Any change to approved design, colors, materials, landscaping or other conditions of approval must be reviewed and approved by the Community Development Director.**	**See the current sheet.**
2. Adobe Protection. A qualified Historic Architect or Architectural Historian with demonstrated experience working with Adobe structures shall be retained to monitor and provide protection guidance for any work in the immediate vicinity of the perimeter of the Murray Adobe. Final plans for construction permits to complete this project shall note this requirement and construction permits shall not be issued until a monitoring plan has been approved by the Community Development Director. Improvements adjacent to the base and perimeter of the Adobe shall be limited to decomposed granite, pea gravel, or similar surface, appropriately sloped to promote drainage away from the building and protect the building from damage by moisture, runoff, or new vegetation.	**See Note 6 on LC101. See details on CG101 and LC101 for paving conditions adjacent to the Adobe.** **Sheet A-911 added to plan set to document required Adobe preservation work.** **Historian report added to Special Provisions as Appendix C.**
3. Archaeological Monitoring. The applicant shall provide an archeological monitoring plan prepared by a City-qualified archeologist to be implemented during construction. The plan shall identify the qualified professional who will conduct the monitoring and circumstances where a Native American tribal representative or qualified site monitor is required. The plan shall recommend specific procedures for responding to the discovery of archeological resources during the construction of the project consistent with § 4.60 of the Archaeological Resource Preservation Program Guidelines. The plan shall be submitted as a part of the building permit.	**Monitoring report provided as part of Special Provisions as Appendix D.**
Engineering **4. Plans submitted for construction permits to complete the project shall include an overall site plan depicting the existing structures, demolitions, new structures, site improvements, and all trees and their disposition.**	**See sheet LC101 for Construction Plan. See sheet CD101 for Demolition Plan. See sheet TP001 for Tree Protection Plan.**
5. Plans submitted for construction permits to complete the project shall include a utility plan showing existing and proposed utility services for reference. The plan shall show the limits of existing, new, replaced, abandoned, and relocated services where applicable.	**See sheet CG102 for Utility Plan.**
6. Plans submitted for construction permits to complete the project shall include a grading and drainage plan to show the limit and extent of grading and drainage modifications to the plaza. Improved and re-directed drainage shall be conveyed in a non-erosive manner to an approved outlet.	**See sheet CG102 for Grading and Drainage Plan.**
7. Plans and materials submitted for construction permits to complete the project shall show and note compliance with the City's Floodplain Management Regulations, Drainage Design Manual (DDM), and Post Construction Stormwater Regulations (PCR). The plans and supporting documents shall show that the new structures are located above or outside the mapped Special Flood Hazard Area. The submittal shall include a summary drainage report in accordance with § 2.3.1 of the Drainage Design Manual. DDM compliance may be documented as a minor project in a format provided by the city. Post Construction Stormwater Regulations compliance documentation should clearly describe the relationship of this first phase of the Mission Plaza Concept Plan to the overall Concept Plan project. The phased development approach and PCR compliance strategy shall be resolved with the first phase of permitting to the satisfaction of the Community Development and Public Works departments.	**See sheet CG102 for Grading and Drainage Plan, Stormwater Control Plan application, and summary drainage memorandum.**
8. The City supports the proposed tree removals and relocations with compensatory planting as established by the City Arborist. The building permit plan submittal shall include a tree preservation plan per City Standards and Specifications, to the satisfaction and approval of the City Arborist.	**See sheet TP001 for Tree Preservation Plan and TP501 for Tree Protection Details.**
Utilities **9. Plans and materials submitted for construction permits to complete the project shall indicate the provision of separate water meters for domestic (for bathroom and café) and landscape service. It is noted that the site has one existing two-inch water meter that can be modified to provide two meters (3/4" or 1"), as needed.**	**New domestic water service has been provided. See sheet CG102.**
10. Plans and materials submitted for construction permits to complete the project shall identify, depict, and describe existing and proposed storage for three waste streams (trash, recycling, and organics) and proposed methods of collection (i.e., Parks Maintenance, San Luis Garbage service, etc.).	**Sheet LC101 includes (2) permanent triple waste stream receptacles placed in the plaza. It also includes a trash enclosure adjacent to the building which will hold rolling receptacles. See note 5 on sheet.**

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

CONDITIONS OF APPROVAL

SHEET TITLE:

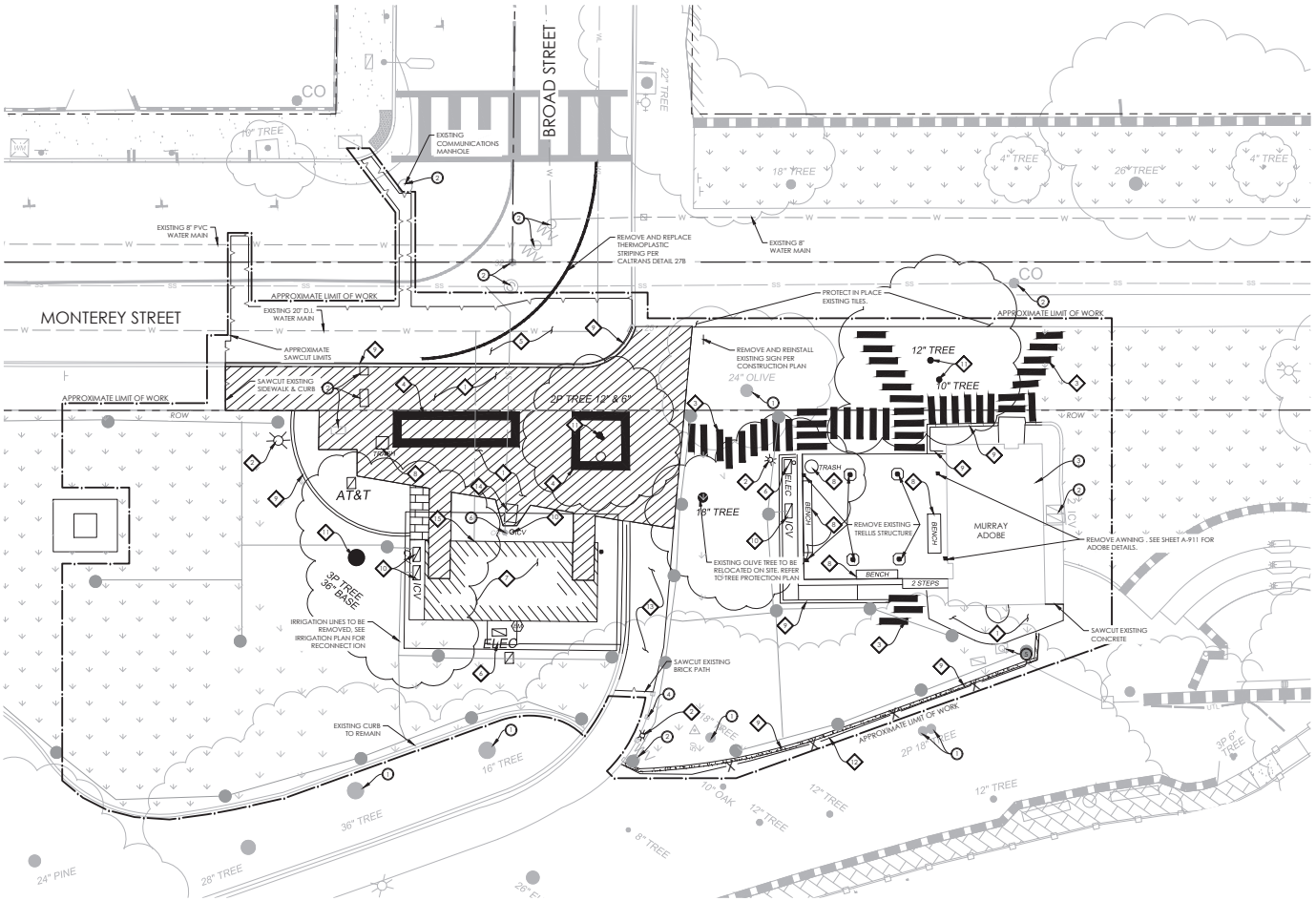
100% CONSTRUCTION DOCUMENTS

ENGINEER OF RECORD:

REGISTERED PROFESSIONAL ENGINEER ROBERT A. CALCAGNO No. 76587 CIVIL STATE OF CALIFORNIA

DATE:

DESIGNED BY:	NLS
DRAWN BY:	NLS
CHECKED BY:	RC
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	**G003**



NOTES

1. THE EXISTING SITE CONDITIONS SHOWN HEREIN HAVE BEEN COMPILED BASED ON TOPOGRAPHIC FIELD SURVEYS AND AS-BUILT DRAWINGS OF THE EXISTING IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE PROJECT CONTRACTOR TO VERIFY FIELD CONDITIONS, ESPECIALLY AT CRITICAL JOIN LOCATIONS AND REPORT ANY/ALL DISCREPANCIES IMMEDIATELY TO THE ENGINEER OF RECORD AND THE GOVERNING AGENT FOR THEIR REVIEW PRIOR TO CONSTRUCTION.
2. SUBSURFACE UTILITY DATA IS DEPICTED TO LEVEL "C" OF CI/ASCE 38-02 AS DEFINED IN THE GUIDELINE FOR DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. REFER TO "UTILITY NOTES" ON THE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. IT IS THE RESPONSIBILITY OF THE PROJECT CONTRACTOR TO CONTACT USA NORTH AT 1-800-642-2444 BEFORE ANY TRENCHING OR EXCAVATION WORK.
4. SEE ELECTRICAL DEMO PLANS FOR NOTES AND DETAILS.
5. UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF THE AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND TO NOTIFY UTILITY COMPANIES WHEN WORKING IN THEIR PROXIMITY. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE TO VERIFY ALL EXISTING UTILITY POINTS OF CONNECTION AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY DISCREPANCIES EXIST BETWEEN THE PLANS AND FIELD WORK CONDITIONS PERTAINING TO MATERIALS, ELEVATIONS, LOCATIONS,ETC., PRIOR TO CONTINUING WORK

PROTECTION KEY NOTES

1. PROTECT AND PRESERVE EXISTING TREE IN PLACE; SIZE PER PLAN. SEE TREE PROTECTION PLAN FOR NOTES AND DETAILS.
2. PROTECT AND PRESERVE EXISTING WET UTILITY VAULTS, MANHOLES, AND OTHER SURFACE APPURTENANCES IN PLACE. ADJUST TO FINISHED GRADE WHERE NECESSARY PER CITY OF SAN LUIS OBISPO STANDARD 6040. REFER TO ELECTRICAL PLANS FOR LID REPLACEMENT/REMOVAL AND OTHER ELECTRICAL APPURTENANCES TO BE PROTECTED.
3. PROTECT AND PRESERVE EXISTING HISTORIC BUILDING IN PLACE. WORK SURROUNDING THE ADOBE TO BE MONITORED BY A HISTORIAN. ALL WORK ADJACENT TO EXISTING ADOBE TO BE BY HAND TOOL ONLY. REFER TO ARCHITECTURE PLANS & HISTORIAN REPORT.
4. PROTECT EXISTING RAILING IN PLACE.
5. PROTECT EXISTING CAMERA, POLE, AND FOOTING IN PLACE.
6. PROTECT EXISTING SEWER CLEANOUT. ADJUST TO GRADE PER CITY OF SAN LUIS OBISPO STANDARD 6040.

DEMOLITION KEY NOTES

1. REMOVE EXISTING CONCRETE.
2. REMOVE EXISTING POLE FOUNDATION AND SALVAGE EXISTING LIGHT FIXTURE AND DELIVER TO CITY CORP YARD. REFER TO ELECTRICAL PLANS FOR REUSE OF CONDUITS.
3. REMOVE EXISTING CONCRETE PAVERS AND SALVAGE TO THE CITY CORPORATION YARD.
4. REMOVE AND SALVAGE EXISTING STONE AND STOCKPILE ON SITE FOR USE IN PROPOSED WALL. CAREFULLY REMOVE STONE SO AS TO PRESERVE LARGEST PIECES POSSIBLE.
5. SAWCUT AND REMOVE EXISTING ASPHALT OVERLAY OVER PCC PAVEMENT.
6. REMOVE EXISTING ELECTRICAL BOX. RELOCATE UTILITIES FOR USE WITH NEW RESTROOM. SEE ELECTRICAL PLANS FOR TEMPORARY POWER PLANS AND CONNECTION TO POLE MOUNTED CAMERA.
7. REMOVE AND PROPERLY DISPOSE OF EXISTING RESTROOM BUILDING, INTERIOR FIXTURES, AND FOOTING. PROTECT EXISTING UTILITY CONNECTIONS FOR USE WITH NEW RESTROOM AND SITE WORK AS REQUIRED.
8. REMOVE AND SALVAGE EXISTING SITE FURNISHINGS AND DELIVER TO CITY CORP YARD.
9. REMOVE EXISTING CONCRETE CURB.
10. REMOVE EXISTING IRRIGATION CONTROL VALVE AND BACKFLOW PREVENTOR. DOCUMENT AND SAVE EXISTING STATIONS AND WATERING TIMES FOR FUTURE USE.
11. REMOVE EXISTING TREE, INCLUDING STUMPS AND ROOTS.
12. REMOVE AND DISPOSE OF EXISTING RAILING.
13. REMOVE AND SALVAGE EXISTING BRICK AND STOCKPILE ONSITE FOR REUSE.
14. REMOVE EXISTING DRINKING FOUNTAIN AND PRESERVE EXISTING SEWER CONNECTIONS FOR FUTURE USE.
15. EXISTING WATER SERVICE LINE TO BE CUT AND CAPPED PER CITY OF SAN LUIS OBISPO STANDARD 6050.

811 Know what's below. Call 811 before you dig.

0 10 20 30 feet
1"=10'

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

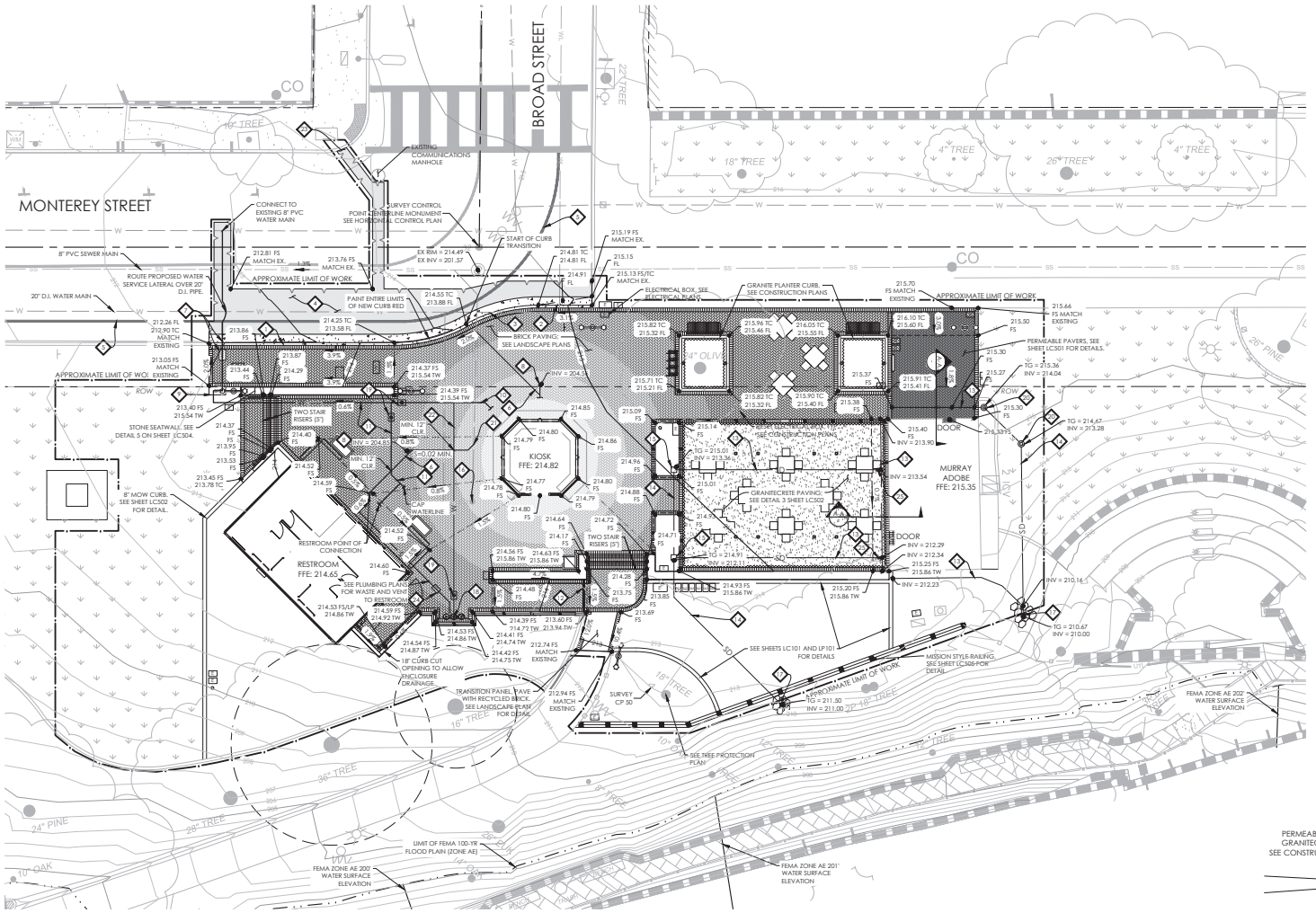
SHEET TITLE: DEMOLITION PLAN

100% CONSTRUCTION DOCUMENTS

ENGINEER OF RECORD:
REGISTERED PROFESSIONAL ENGINEER ROBERT A. CACCIOPPOLI No. 76597 CIVIL STATE OF CALIFORNIA

DATE:

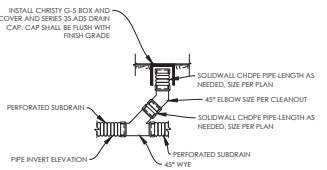
DESIGNED BY:	NLS
DRAWN BY:	NLS
CHECKED BY:	RC
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	CD101



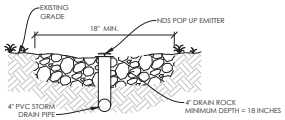
IMPROVEMENT KEY NOTES

1. CONSTRUCT 8" CURB AND 18" GUTTER PER CITY OF SAN LUIS OBISPO STANDARD 4030. CONCRETE TO BE MISSION COLOR PER SPECIFICATION 73-4.
2. CONSTRUCT 0" CURB PER MODIFIED CITY OF SAN LUIS OBISPO STANDARD 4020. (12" BELOW FINISHED SURFACE WITH #4 BAR)
3. CONSTRUCT CURB TRANSITION (L = ±13') FROM 8" TO 0".
4. CONSTRUCT PATCH PAVING PER CITY OF SAN LUIS OBISPO STANDARD 4110 INSTALLATION NOTE 1. (APPROXIMATELY 2" AC OVERLAY OVER 8" PCC)
5. INSTALL 4" WIDE SOLID WHITE STRIPE PER CALTRANS DETAIL 27B.
6. INSTALL 4" SEWER LATERAL PER CITY STD 6810; 2% MIN. SLOPE. REFER TO PLUMBING PLANS FOR RESTROOM AND KIOSK CONNECTIONS.
7. INSTALL 2" WATER SERVICE WITH 1-½" METER PER CITY STD 6210.
8. INSTALL SEWER CLEANOUT WITH G-5 VALVE WELL PER CITY OF SAN LUIS OBISPO STANDARD DRAWING NUMBER 6710. SEE NOTE BELOW FOR COVER.
9. INSTALL 2" REDUCED PRESSURE BACKFLOW PREVENTER PER CITY STD 6550.
10. INSTALL 1" POLYETHELENE 200 PSI WATER SERVICE LINE.
11. INSTALL 2" POLYETHELENE 200 PSI WATER SERVICE LINE.
12. INSTALL NDS SPEE-D CHANNEL DRAIN WITH 4-INCH PVC OUTLET PIPE MATCHING EXISTING DITCH FLOWLINE.
13. INSTALL 4" PERFORATED PVC PIPE, PERFORATIONS FACE DOWN, SLOPE 0.5% MINIMUM. WRAP PIPE WITH NON-WOVEN FILTER FABRIC.
14. INSTALL 4" PVC STORM DRAIN PIPE, SLOPE 0.5% MINIMUM
15. INSTALL NDS 12" SQUARE CATCH BASIN WITH CAST IRON GRATE
16. RAISE EXISTING CLEANOUT TO GRADE AND INSTALL G-5 VALVE WELL AND COVER PER CITY OF SAN LUIS OBISPO STANDARD DRAWING 6710.
17. INSTALL NDS POP-UP DRAIN EMITTER PER DETAIL ON THIS SHEET.
18. INSTALL DRINKING FOUNTAIN. SEE PLUMBING PLANS FOR SEWER LINE SIZE, VENT PIPE SIZE, AND SEWER CLEANOUT LOCATION. ALSO SEE DETAIL 3 ON SHEET LC505.
19. INSTALL FLUSH WITH GROUND ISOLATION VALVE PER CITY OF SAN LUIS OBISPO STANDARD 8640 WITHOUT TAG.
20. INSTALL NDS SPEE-D ROUND CATCH BASIN WITH 4" CONNECTION.
21. CONNECT TO EXISTING 4" SEWER LATERAL WITH WYE CONNECTION.
22. INSTALL ¾" WATER SUPPLY LINE TO DRINKING FOUNTAIN
23. REMOVE AND REPLACE IN KIND L=±5' OF CURB, CONTRACTOR TO PROTECT EXISTING ACCESSIBLE RAMP.
24. INSTALL CONCRETE V AULT WITH P-TRAP FLUSH WITH GRADE. REFER TO LANDSCAPE PLANS FOR DETAIL.
25. INSTALL STORM DRAIN CLEAN OUT PER DETAIL THIS SHEET.

*ALL UTILITY COVERS TO BE DECORATIVE STYLE PER SPECIAL PROVISIONS

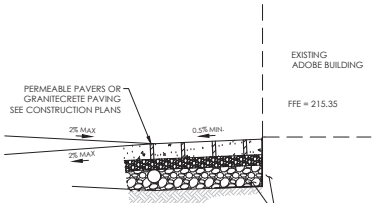


STORM DRAIN CLEANOUT



NDS POP UP EMITTER DETAIL

-NTS-



SECTION (A-A)

NTS

0 10 20 30 feet

1"=10'

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

GRADING, DRAINAGE, & UTILITY PLAN

100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

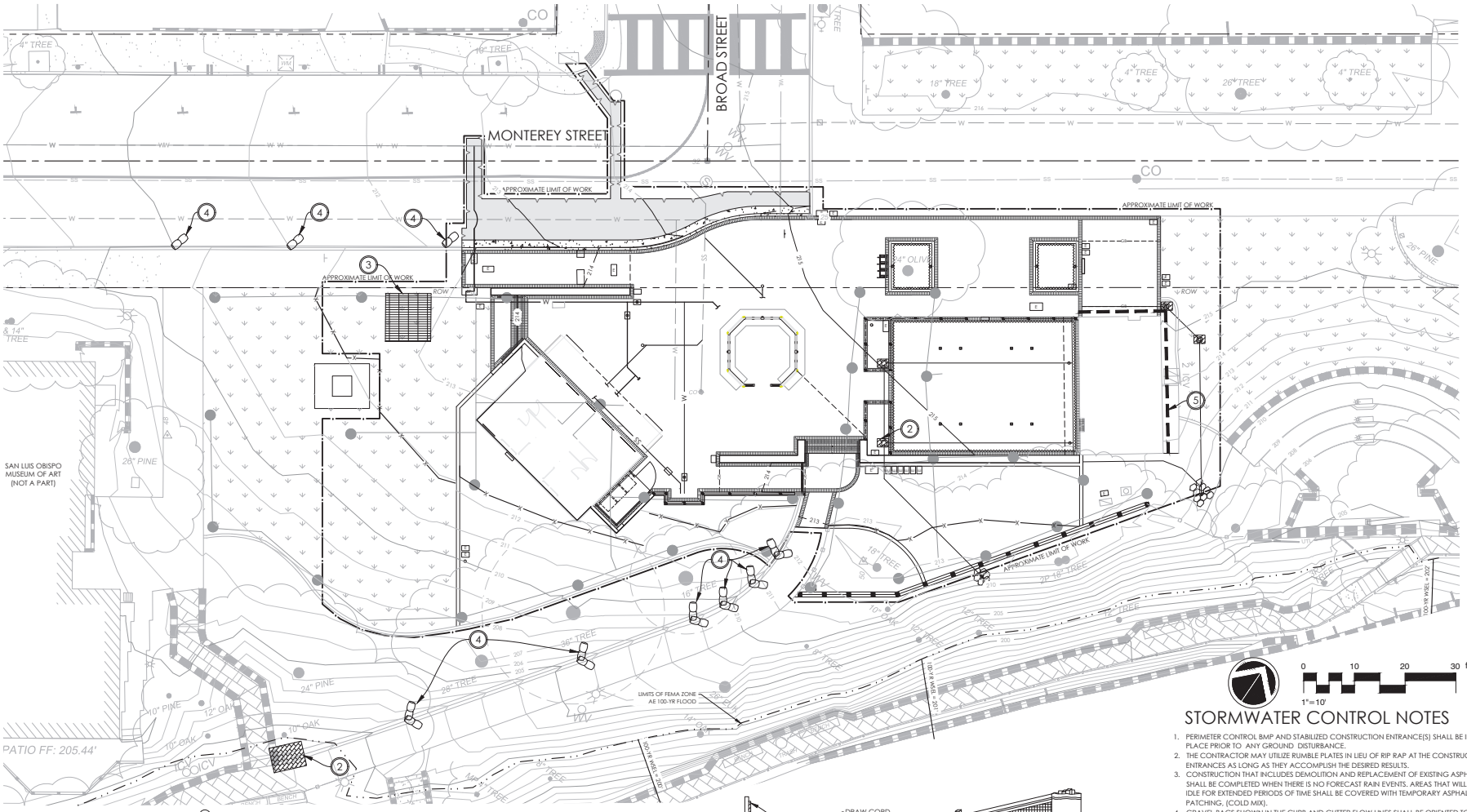
SHEET TITLE:

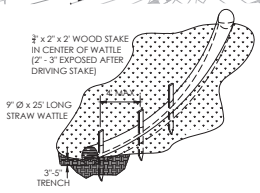
ENGINEER OF RECORD:

REGISTERED PROFESSIONAL ENGINEER ROBERT A. CACCIOPPO No. 76597 CIVIL STATE OF CALIFORNIA

DATE:

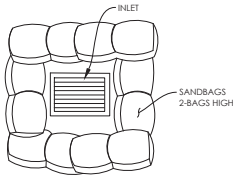
DESIGNED BY:	NLS
DRAWN BY:	NLS
CHECKED BY:	RC
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	**CG102**



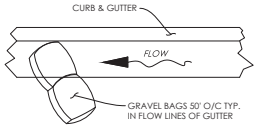


NOTES:
PLACE NET-WRAPPED STRAW WATTLE IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' OF WATTLE.

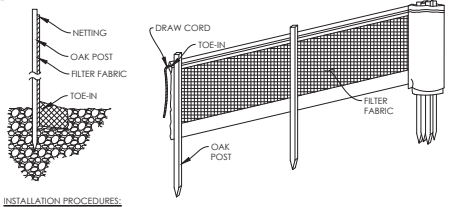
STRAW WATTLE DETAIL
-NTS-



SE-10 STORM DRAIN INLET PROTECTION TYPE-3
-NTS-



SE-6 GRAVEL BAGS IN FLOW LINE DETAIL
-NTS-



INSTALLATION PROCEDURES:
1. DIG A 6" x 6" TRENCH AT DESIRED FENCE LOCATION
2. UNROLL SILT FENCE ALONG TRENCH
3. DRIVE STAKES INTO THE DOWNHILL SIDE OF TRENCH WITH NETTING AND STAKES FACING THE DOWNHILL SIDE.
4. LAY THE BOTTOM 6" OF FABRIC INTO THE TRENCH AND FILL WITH TOP SOIL FOR PROPER TOE-IN.
5. DRAW TENSION CORD AT TOP OF FENCE AND TIE TO END STAKES.

PRE-ASSEMBLED SILT FENCE
-NTS-

STORMWATER CONTROL NOTES

1. PERIMETER CONTROL BMP AND STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE IN PLACE PRIOR TO ANY GROUND DISTURBANCE.
2. THE CONTRACTOR MAY UTILIZE RUMBLE PLATES IN LIEU OF RIP RAP AT THE CONSTRUCTION ENTRANCES AS LONG AS THEY ACCOMPLISH THE DESIRED RESULTS.
3. CONSTRUCTION THAT INCLUDES DEMOLITION AND REPLACEMENT OF EXISTING ASPHALT SHALL BE COMPLETED WHEN THERE IS NO FORECAST RAIN EVENTS. AREAS THAT WILL BE IDLE FOR EXTENDED PERIODS OF TIME SHALL BE COVERED WITH TEMPORARY ASPHALT PATCHING. (COLD MIX).
4. GRAVEL BAGS SHOWN IN THE CURB AND GUTTER FLOW LINES SHALL BE ORIENTED TO TEMPORARILY SLOW AND DAM THE FLOWING STORM WATER IN THE GUTTERS TO HELP FILTER OUT ANY SEDIMENT. THESE GRAVEL BAGS SHALL BE SPACED AT 50' O/C OR CLOSER AS CONDITIONS WARRANT.
5. ANY SEDIMENT TRACKED OFFSITE SHALL BE CLEANED DAILY BY MEANS OF MOBILE STREET SWEEPERS.
6. ANY GRADED AREAS THAT ARE GOING TO SIT IDLE FORM MORE THAN TWO WEEKS SHALL HAVE AN APPROPRIATE GROUND COVER BMP APPLIED.

STORMWATER CONTROL BMPs

#	BMP SYMBOL	NAME	LEGEND
1	SE-1	SILT FENCE	
2	SE-10	STORM DRAIN INLET PROTECTION (SEE PHASING NOTES)	
3	WM-8	CONCRETE WASTE MANAGEMENT	
4	SC-6	GRAVEL BAGS	
5	SE-5	STRAW WATTLE	

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

EROSION CONTROL PLAN

100% CONSTRUCTION DOCUMENTS

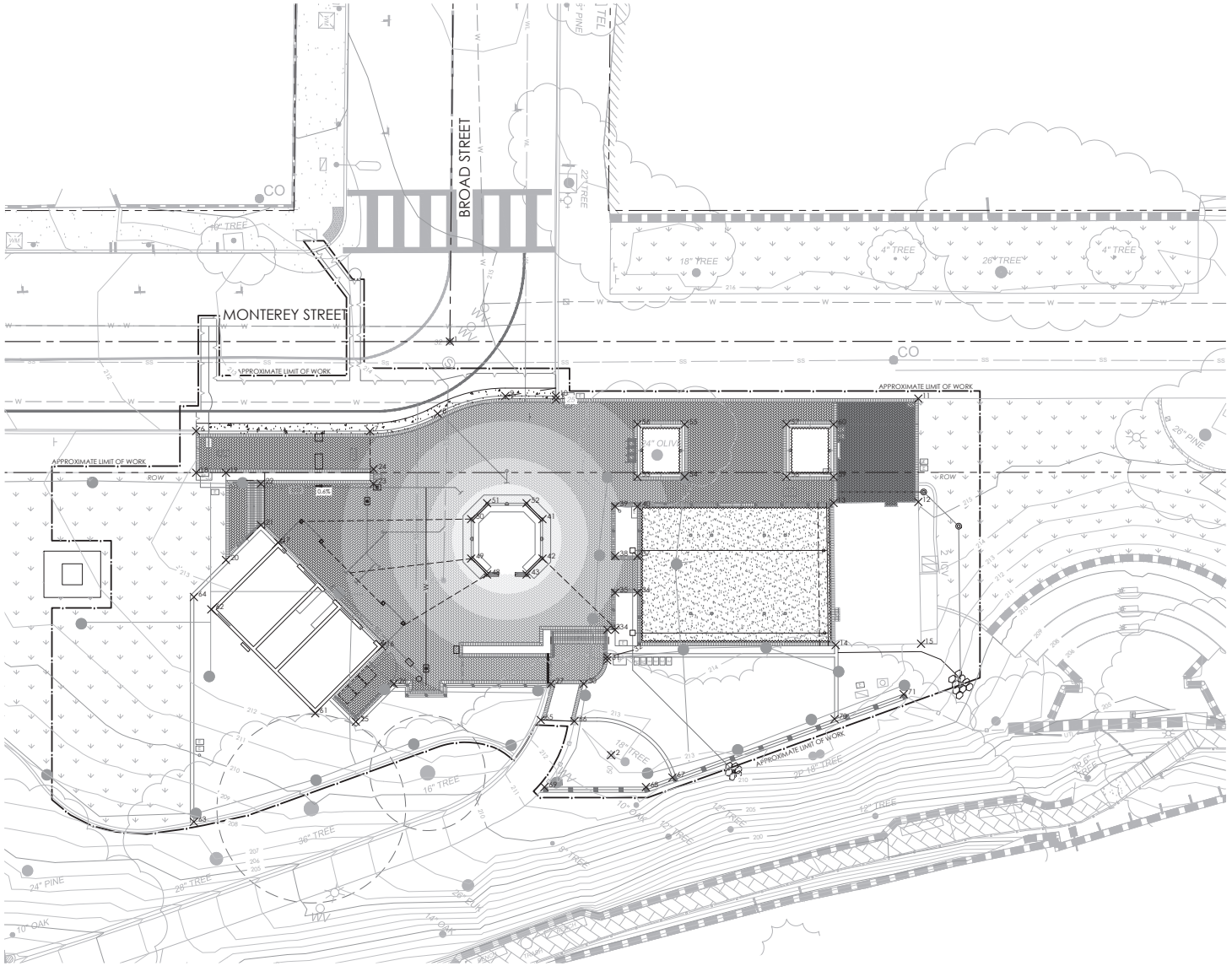
PROJECT TITLE:

SHEET TITLE:

ENGINEER OF RECORD:
REGISTERED PROFESSIONAL ENGINEER ROBERT A. CALCAGNO No. 76587 CIVIL STATE OF CALIFORNIA

DATE:

DESIGNED BY:	NLS
DRAWN BY:	NLS
CHECKED BY:	RC
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	**CG103**



Point Table			
Point #	Raw Description	Northing	Easting
1	CL MON LS 6729	2298777.8254	5766449.1609
2	SET RBR WG CP 50	2298730.5974	5766519.4919
3	SET X TBC WG CP 25	2298780.2851	5766472.0829
4	SET X WG CP 48	2298672.6012	5766392.6450
5	FD X WG CP 49	2298681.3001	5766277.9366
6	TFC	2298736.1500	5766419.1958
7	TFC	2298755.1008	5766446.4297
8	TFC	2298765.2188	5766455.1032
9	TFC	2298775.3368	5766463.7768
10	TFC	2298780.8409	5766471.6866
11	BRICK EDGE	2298819.9334	5766528.7413
12	BRICK EDGE	2298803.7453	5766540.0059
13	ADOBE CORNER	2298794.3602	5766526.8453
14	ADOBE CORNER	2298772.3181	5766542.6547
15	ADOBE CORNER	2298781.8333	5766555.8857
16	RESTROOM CORNER	2298722.6979	5766471.8052
17	RESTROOM CORNER	2298727.6555	5766444.1629
18	BRICK EDGE	2298729.6352	5766423.7291
19	BRICK EDGE	2298732.8787	5766428.4002
20	BRICK EDGE	2298719.2074	5766437.9134
21	BRICK EDGE	2298728.4781	5766439.5761
22	BRICK EDGE	2298734.9659	5766435.0616
23	BRICK EDGE	2298747.2145	5766452.7214
24	BRICK EDGE	2298749.5292	5766451.1107
25	BRICK EDGE	2298708.0370	5766475.8782
26	BRICK EDGE	2298718.1043	5766477.6837
27	BRICK EDGE	2298735.2250	5766502.2877
30	BRICK EDGE / BC	2298738.7949	5766507.4179
31	BRICK EDGE / EC	2298745.0589	5766508.5413
32	BRICK EDGE	2298745.5489	5766508.2003
33	BRICK EDGE	2298749.8306	5766505.2209
34	BRICK EDGE	2298750.6874	5766506.4522
35	BRICK EDGE	2298756.4921	5766502.4129
36	BRICK EDGE	2298758.9196	5766505.9014
37	BRICK EDGE	2298764.6654	5766501.9032
38	BRICK EDGE	2298762.2379	5766498.4147
39	BRICK EDGE	2298770.0095	5766493.0068
40	BRICK EDGE	2298772.4370	5766496.4953
41	KIOSK	2298760.1011	5766483.0200
42	KIOSK	2298753.9224	5766487.3194
43	KIOSK	2298749.6956	5766486.5598
48	KIOSK	2298745.3953	5766480.3799
49	KIOSK	2298746.1510	5766476.1535
50	KIOSK	2298752.3307	5766471.8533
51	KIOSK	2298756.5621	5766472.6097
52	KIOSK	2298760.8619	5766478.7889
53	BRICK EDGE	2298777.0838	5766493.2625
54	BRICK EDGE	2298782.2235	5766500.6499
55	BRICK EDGE	2298790.4318	5766494.9381
56	BRICK EDGE	2298785.2912	5766487.5507
57	BRICK EDGE	2298801.5320	5766510.8902
58	BRICK EDGE	2298793.3238	5766516.6019
59	BRICK EDGE	2298798.4643	5766523.9894
60	BRICK EDGE	2298806.6726	5766518.2776
61	RESTROOM CORNER	2298704.9248	5766468.5947
62	RESTROOM CORNER	2298709.8679	5766440.9876
63	MOW STRIP	2298674.6916	5766461.4283
64	MOW STRIP	2298709.9157	5766436.9175
65	PATH EDGE	2298728.4517	5766504.6186
66	PATH EDGE	2298731.9182	5766510.0385
67	MOW STRIP	2298733.7822	5766531.5309
68	MOW STRIP	2298729.4023	5766528.4257
69	MOW STRIP	2298718.3458	5766512.5366
70	MOW STRIP	2298760.6140	5766550.5541
71	MOW STRIP	2298772.0402	5766558.6550

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

HORIZONTAL CONTROL PLAN

100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

ENGINEER OF RECORD:

REGISTERED PROFESSIONAL ENGINEER ROBERT A. CACCIOTTI No. 76597 CIVIL STATE OF CALIFORNIA

DATE:

DESIGNED BY: NLS

DRAWN BY: NLS

CHECKED BY: NLS

APPROVED BY:

SCALE: AS NOTED

DATE: 05.14.2024

CITY SPECIFICATION NO. 91439-01

PLAN FILE NO. / LOCATION 0256-03-CU20

SHEET NO. **CG101**

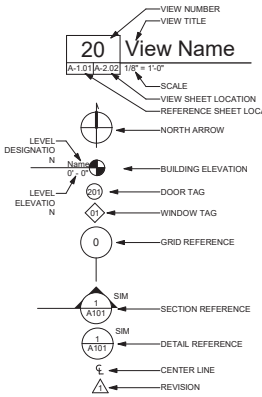
ABBREVIATIONS

ABV	ABOVE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT.	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
B.O.	BOTTOM OF
BALC	BALCONY
BD	BOARD
BET	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM.	BEAM
BOT	BOTTOM
BRKT	BRACKET
BULKHD	BULKHEAD
BUR	BUILT UP ROOF
C.G.	CORNER GUARD
CAB	CABINET
CALK	CAULKING
CEM	CEMENT
CER	CERAMIC
CJ	CONTROL JOINT
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CO	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	EACH WAY
EXP. JT.	EXPANSION JOINT
EXST	EXISTING
F.O.	FACE OF
FA	FIRE ALARM
FAP	FIRE ANNUNCIATOR PANEL
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER PANEL
FG	FINISH GROUP
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FLUOR	FLOURESCENT
FT	FOOT OR FEET
FUR	FURRING
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GND	GROUND
GWB	GYPSUM BOARD
GYP	GYPSUM
H.W.H.	HOT WATER HEATER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INNER DIAMETER
INCAN	INCANDESCENT
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LB(S)	POUNDS
LDG	LANDING
LT	LIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O.F.	OVERFLOW PIPE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PART	PARTITION
PERIM	PERIMETER
PG	PAINT GRADE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
PT	PAINT
PTD	PAINTED
R	RISER
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFER
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT (MECH)
S	SOUTH
SAFB	SOUND ATTENUATION FIBER BATT
SC	SCUPPER
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQURE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUPSPENDED
SYM	SYMMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TER	TERRAZZO
THK	THICK
THR	THRESHOLD
TO	TOP OF
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNO	ULNESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VTR	VENT TERMINATION PIPE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATERCLOSET
WIN	WINDOW
WP	WATERPROOF
WS	WETSTACK
WSCT	WAINSCOT
WT	WEIGHT

GENERAL NOTES

1. APPLICABLE CODES AND STANDARDS:
1.1. 2019 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
1.2. 2019 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
1.3. 2019 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
1.4. 2019 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
1.5. 2019 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
1.6. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
1.7 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICIES AND STANDARDS.
1.8 CURRENT CITY OF SAN LUIS OBISPO MUNICIPAL CODE.
2. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK.
4. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
5. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
6. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SHOP WELDS MUST BE PERFORMEDBY A LICENSED FABRICATOR'S SHOP.
9. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
10. CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
11. THE SOILS ENGINEER IS TO APPROVE THE KEY OR BOTTOM AND LEAVE A CERTIFICATE ON THE SITE FOR THE GRADING INSPECTOR. THE GRADING INSPECTOR IS TO BE NOTIFIED BEFORE ANY GRADING BEGINS, AND FOR BOTTOM INSPECTION, BEFORE FILL IS PLACED. FILL MAY NOT BE PLACED WITHOUT APPROVAL OF THE GRADING INSPECTOR.
12. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
13. A CITY ENCROACHMENT PERMIT, A SEPERATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPRICAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO INSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT.

SYMBOLS



FINISH SCHEDULE

ROOM (TYP.)	FLOOR	BASE	WALLS	CEILING	COMMENTS
RESTROOM 1	F2	-	W1	C1	
RESTROOM 2	F2	-	W1	C1	
PLUMBING CHASE	F1	-	W2	C1	
KIOSK	F1	B1	W3	C2	

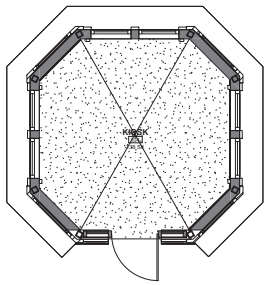
LEGEND

FLOOR
F1 DENSIFIED SEALED CONCRETE
F2 DRY SHAKE HARDNER ON CAST IN PLACE SLAB WITH CLEAR COATING

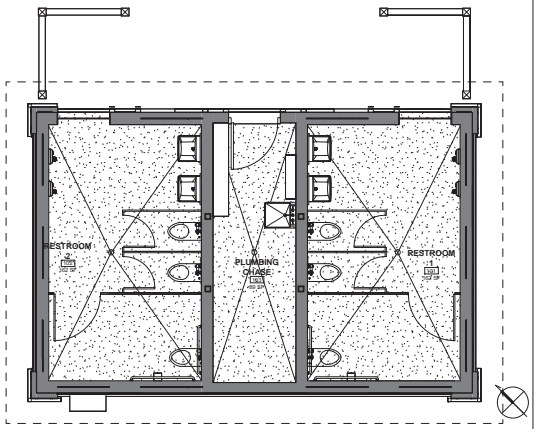
BASE
B1 EXPOSED CONCRETE CURB, 6" HIGH

WALLS
W1 CERAMIC WALL TILE
W2 EXPOSED CMU, PAINT
W3 UNFINIHSED EXPOSED METAL STUDS

CEILING
C1 TOUNGE AND GROOVE METAL SOFFIT PANEL
C2 UNFINISED STRUCTURE ABOVE



2 KIOSK FINISH PLAN & VENT CALCS
AR301 G-101 1/4" = 1'-0"



1 RESTROOM FINISH PLAN & VENT CALCS
AR301 G-101 1/4" = 1'-0"

KIOSK BUILDING INFORMATION

ALLOWABLE HEIGHT AND AREA

OCCUPANCY GROUP:	U (UTILITY AND MISCELLANEOUS)
DESCRIPTION:	PUBLIC KIOSK
CONSTRUCTION TYPE:	5B
AUTOMATIC FIRE SPRINKLERS:	NO
APN #:	002-423-006

	PROPOED	ALLOWABLE PER CBC CHAPTER 5
NUMBER OF STORIES:	1	1
BUILDING HEIGHT:	15'-2"	40'-0"
BUILDING AREA:	271 SF	5500 SF
OCCUPIABLE FLOOR AREA:	138 SF	

EGRESS ANALYSIS
OCCUPANT LOAD FACTOR PER CBC TABLE 1004.5: 60 GROSS TO ALLOW FOR FUTURE MERCHANITLE USE

TOTAL OCCUPANTS: 138SF / 60SF/PERSON = 2.3 - ROUND TO **1 PERSONS**
REQUIRED EXITS PER 1006.2.1: 1
PROVIDED EXITS: 1

RESTROOM BUILDING INFORMATION

ALLOWABLE HEIGHT AND AREA

OCCUPANCY GROUP:	U (UTILITY AND MISCELLANEOUS)
DESCRIPTION:	PUBLIC RESTROOM
CONSTRUCTION TYPE:	5B
AUTOMATIC FIRE SPRINKLERS:	NO
APN #:	002-423-006

	PROPOED	ALLOWABLE PER CBC CHAPTER 5
NUMBER OF STORIES:	1	1
BUILDING HEIGHT:	14'-3"	40'-0"
BUILDING AREA:	704 SF	5500 SF
OCCUPIABLE FLOOR AREA:	336 SF	

EGRESS ANALYSIS
OCCUPANT LOAD FOR RESTROOMS IS UNDEFINED IN CBC TABLE 1004.5

VENTILATION CALCS

KIOSK

REQUIRED SIZE OF OPENINGS FOR NATURAL VENTIALTION PER CBC 1202.5 AND CMC 402.2: MINIMUM 4% OF OCCUPIABLE FLOOR AREA

REQUIRED OPENINGS = 138* 0.04 = 5.52 SF

PROVIDED:

TRANSOM VENTS = 32 VENTS *0.6944 SF = 22.22 SF AT 50% OPEN AREA = 11.11 SF

TOTAL VENTILATION PROVIDED = 11.11 SF > 5.52 SF

RESTROOM 1 AND 2

REQUIRED SIZE OF OPENINGS FOR NATURAL VENTIALTION PER CBC 1202.5 AND CMC 402.2: MINIMUM 4% OF OCCUPIABLE FLOOR AREA

REQUIRED OPENINGS = 168 * 0.04 = 6.72 SF

PROVIDED:

TRANSOM VENTS = 30 VENTS *0.6944 SF = 20.832 SF AT 50% OPEN AREA = 10.416 SF

TOTAL VENTILATION PROVIDED = 10.41 SF > 6.72 SF

PLUMBING CHASE

REQUIRED SIZE OF OPENINGS FOR NATURAL VENTIALTION OF ADJOINIGN SPACE PER CBC 1202.5 AND CMC 402.2 MINIMUM 8% OF OCCUPIABLE FLOOR AREA

REQUIRED OPENINGS = 89 * 0.08 = 7.12 SF , BUT NOT LESS THAN 25 SF

PROVIDED:

PERFORATED WALL PANEL = 40.6 SF EACH SIDE = 81.2 SF AT 35% OPEN AREA = 28.42 SF

TOTAL VENTILATION PROVIDED = 28.42 SF > 25 SF

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

GENERAL NOTES & FINISH SCHEDULE

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	G-101

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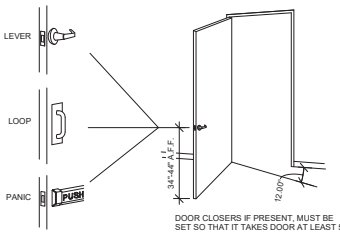


ACCEPTABLE DOOR HARDWARE AND MOUNTING HEIGHTS

DOOR CLOSERS IF PRESENT, MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12" OF LATCH

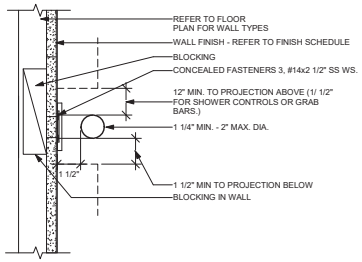
DOOR CLOSERS

THE FORCE TO OPEN DOOR SHALL NOT EXCEED 5 LBS. TYPICAL @ INTERIOR

REF 11B-404.2

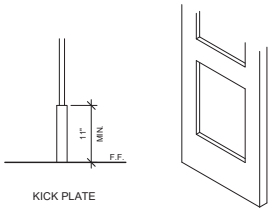
41 ACC. DOOR REQUIREMENTS

G-103 1" = 1'-0"



31 ACC. GRAB BAR ATTACHMENT

G-104 G-103 3" = 1'-0"



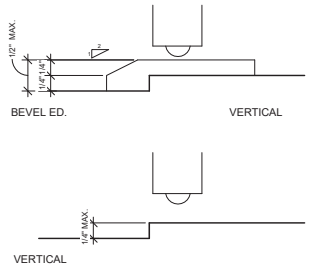
KICK PLATE

NOTE:
SWINGING DOOR & GATE SURFACES WITHIN 10" OF FINISH FLOOR SHALL HAVE A SMOOTH SURFACE OF THE PUSH SIDE EXTENDING THE FULL WIDTH OF DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS SHALL BE WITHIN 1/16" OF SURFACE & SHALL BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY KICK PLATES SHALL BE CAPPED.

REF 11B-404.2.10

21 KICK PLATE AT DOORS

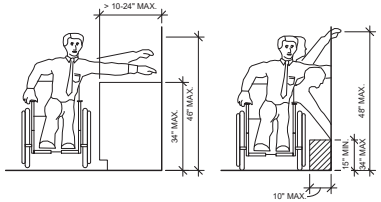
G-103 1" = 1'-0"



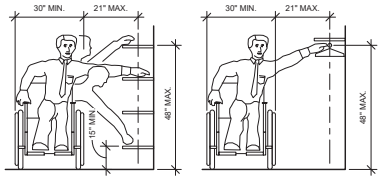
REF. 11B 303

42 ACC. DOOR THRESHOLDS

G-103 1/2" = 1'-0"



(C) OBSTRUCTED HIGH SIDE REACH (B) UNOBSTRUCTED SIDE REACH



(D) SHELVES (E) CLOSET

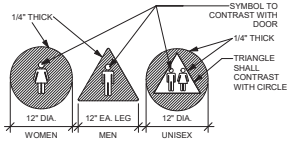
NOTE: THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

REF 11B-308

33 ACC. REACH RANGES

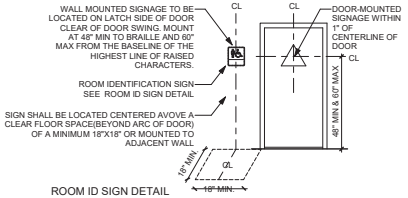
G-103 1/2" = 1'-0"

WALL-SIGNAGE (TYP.)

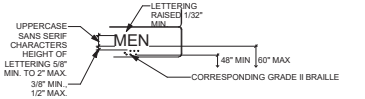


DOOR MOUNTED SIGNAGE (TYP.)

PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE



ROOM ID SIGN DETAIL



CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM A FONT WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I".

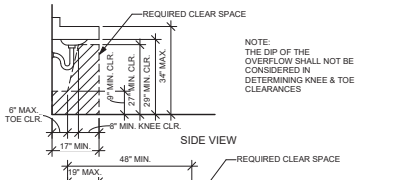
SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING.

NOTE: VERIFY GENDER IDENTITY SIGNAGE FOR RESTROOMS WITH CITY AND ARCHITECT PRIOR TO FABRICATION.

REF. 11B-703.7.2.6 REF 11B-703.4.2

23 ACC. RESTROOM ID SYMBOLS

G-103 1" = 1'-0"



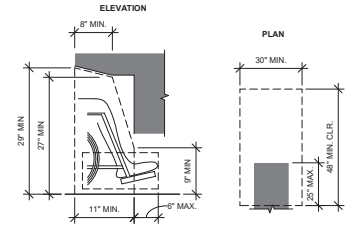
NOTE:
THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE & TOE CLEARANCES

NOTE:
HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHAP OR ABRASIVE SURFACES UNDER LAVATORIES.

12 ACC. LAVATORIES

G-103 1/2" = 1'-0"

REF. 11B 606

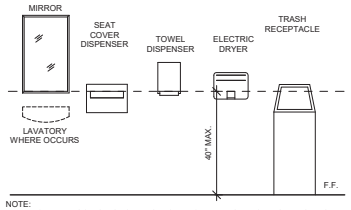


NOTE:
1. THE REQUIRED CLEAR FLOOR SPACE MAY NOT OVERLAP THE REQUIRED KNEE SPACE BY MORE THAN 19".
2. KNEE CLEARANCES AT TABLES, COUNTERS & WORKSURFACES IS AT LEAST 27" HIGH, 30" WIDE AND 19" DEEP.

REF 11B-306

43 TOE & KNEE CLEARANCES

G-103 3" = 1'-0"



NOTE:
1. CLEAR FLOOR OR GROUND SPACE REQUIRED TO ALLOW FOR FRONT OR PARALLEL APPROACH TO ACCESSORIES.
2. ALL OPERABLE PARTS OF FIXTURES AND ACCESSORIES TO BE LOCATED 40" MAX. A.F.F.
3. CONTROLS AND OPERATING MECHANISMS MUST OPERATE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST.
4. MAX. 5 POUND FORCE TO OPERATE CONTROLS.
5. LOCATE COAT HOOKS AND SHELVING WITHIN APPROPRIATE REACH RANGE (48" MAX. ABOVE FLOOR.)
6. MIRRORS NOT LOCATED ABOVE LAVATORY TO HAVE BOTTOM EDGE OF REFLECTING SURFACE 35" MAX A.F.F.

13 ACC. RESTROOM ACCESSORIES

G-103 1/2" = 1'-0"

REF. 11B-603.3- 5

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

ACCESSIBILITY DETAILS

PROJECT TITLE:

SHEET TITLE:

LICENSED ARCHITECT
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	G-103

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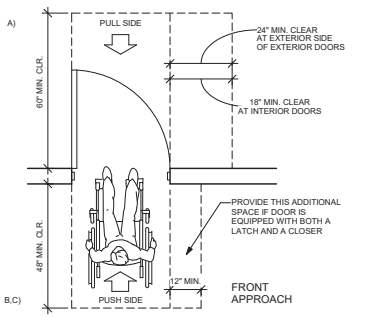
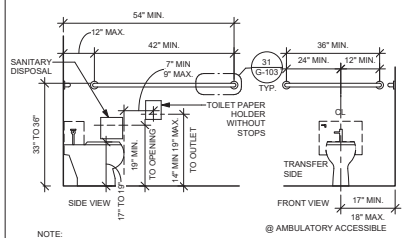


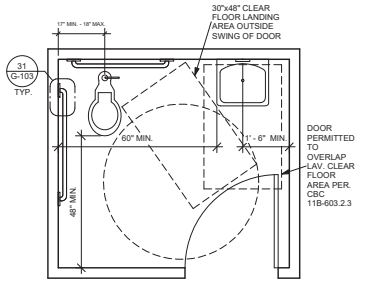
REF 11B-404.2.4

23 CLEARANCES AT DOORS & GATES
G-104 1/2" = 1'-0"

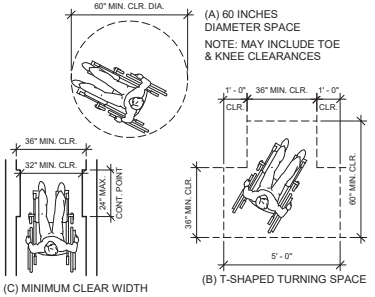


NOTE:
1. ALL DIMENSIONS TAKEN FROM FACE OF FINISH.
2. WATER CLOSET FLUSH VALVE CONTROLS, OPERATING MECHANSM CONTROLS SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" A.F.F.
3. THE FORCE REQUIRED TO ACTIVATE THE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS & FAUCET AND OPERATING MECHANISM CONTROLS SHALL BE NO GREATER THAN 5 LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERABLE.

11 ACC. TOILETS
G-104 1/2" = 1'-0"



12 SINGLE ACCOMODATION TOILET
G-104 1/2" = 1'-0"



REF 11B-304

13 ACC. TURNING SPACE
G-104 3/8" = 1'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

ACCESSIBILITY DETAILS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12 - 31 - 2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	G-104

4/30/2024 10:04:07 AM

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (JANUARY 2020, INCLUDES JULY 2021 SUPPLEMENT)

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE.
THESE REGULATIONS SHALL BE KNOWN AS THE *CALIFORNIA GREEN BUILDING STANDARDS CODE* AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE *CALGREEN CODE*. THE *CALIFORNIA GREEN BUILDING STANDARDS CODE* IS PART 11 OF THIRTEEN PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE *CALIFORNIA CODE OF REGULATIONS*, TITLE 24, ALSO REFERRED TO AS THE *CALIFORNIA BUILDING STANDARDS CODE*.

101.2 PURPOSE.
THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:
1. PLANNING AND DESIGN.
2. ENERGY EFFICIENCY.
3. WATER EFFICIENCY AND CONSERVATION.
4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY.
5. ENVIRONMENTAL QUALITY.

101.3 SCOPE.
THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS.
CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.
CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE *CALIFORNIA BUILDING STANDARDS CODE* AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION.
DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

CHAPTER 3 - GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE.
BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN ***SECTION 101.7***.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS
[BSC-CG] THE PROVISIONS OF INDIVIDUAL SECTIONS OF ***CHAPTER 5*** APPLY TO NEWLY CONSTRUCTED BUILDINGS, BUILDING ADDITIONS OF 1,000 SQUARE FEET OR GREATER, AND/OR BUILDING ALTERATIONS WITH A PERMIT VALUATION OF $200,000 OR ABOVE (FOR OCCUPANCIES WITHIN THE AUTHORITY OF CALIFORNIA BUILDING STANDARDS COMMISSION). CODE SECTIONS RELEVANT TO ADDITIONS AND ALTERATIONS SHALL ONLY APPLY TO THE PORTIONS OF THE BUILDING BEING ADDED OR ALTERED WITHIN THE SCOPE OF THE PERMITTED WORK.

A CODE SECTION WILL BE DESIGNATED BY A BANNER TO INDICATE WHERE THE CODE SECTION ONLY APPLIES TO NEWLY CONSTRUCTED BUILDINGS **[N]** OR TO ADDITIONS AND/OR ALTERATIONS **[A]**. WHEN THE CODE SECTION APPLIES TO BOTH, NO BANNER WILL BE USED.

301.3.1 NONRESIDENTIAL ADDITIONS AND ALTERATIONS THAT CAUSE UPDATES TO PLUMBING FIXTURES ONLY:

NOTE: ON AND AFTER JANUARY 1, 2014, CERTAIN COMMERCIAL REAL PROPERTY, AS DEFINED IN ***CIVIL CODE SECTION 1101.3***, SHALL HAVE ITS NONCOMPLIANT PLUMBING FIXTURES REPLACED WITH APPROPRIATE WATER-CONSERVING PLUMBING FIXTURES UNDER SPECIFIC CIRCUMSTANCES. SEE ***CIVIL CODE SECTION 1101.1 ET SEQ***. FOR DEFINITIONS, TYPES OF COMMERCIAL REAL PROPERTY AFFECTED, EFFECTIVE DATES, CIRCUMSTANCES NECESSITATING REPLACEMENT OF NONCOMPLIANT PLUMBING FIXTURES, AND DUTIES AND RESPONSIBILITIES FOR ENSURING COMPLIANCE.

301.3.2 WASTE DIVERSION

THE REQUIREMENTS OF ***SECTION 5.408*** SHALL BE REQUIRED FOR ADDITIONS AND ALTERATIONS WHENEVER A PERMIT IS REQUIRED FOR WORK.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES (SEE GBSC)

301.5 HEALTH FACILITIES (SEE GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS.
IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO EACH SPECIFIC OCCUPANCY.

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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 ONNLY 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.

CHAPTER 5 - NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

5.106 SITE DEVELOPMENT

5.106.1 STORMWATER POLLUTION 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 STORMWATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH ONE OR MORE OF THE FOLLOWING MEASURES:

5.106.1.1 LOCAL ORDINANCE
COMPLY WITH A LAWFULLY ENACTED STORMWATER MANAGEMENT AND/OR EROSION CONTROL ORDINANCE.

5.106.1.2 BEST MANAGEMENT PRACTICES (BMP'S)
PREVENT THE LOSS OF SOIL THROUGH WIND OR WATER EROSION BY IMPLEMENTING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING BMP'S.

1. SOIL LOSS BMP'S THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   a. SCHEDULING CONSTRUCTION ACTIVITY DURING DRY WEATHER, WHEN POSSIBLE.
   b. PRESERVATION OF NATURAL FEATURES, VEGETATION, SOIL, AND BUFFERS AROUND SURFACE WATERS.
   c. DRAINAGE SWALES OR LINED DITCHES TO CONTROL STORMWATER FLOW.
   d. MULCHING OR HYDROSEEDING TO STABILIZE DISTURBED SOILS.
   e. EROSION CONTROL TO PROTECT SLOPES.
   f. PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS).
   g. PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS).
   h. SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE.
   i. STABILIZED CONSTRUCTION EXITS.
   j. WIND EROSION CONTROL.
   k. OTHER SOIL LOSS BMP'S ACCEPTABLE TO THE ENFORCING AGENCY.

2. GOOD HOUSEKEEPING BMP'S TO MANAGE CONSTRUCTION EQUIPMEN 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 BMP'S 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 OR SALE.

NOTE: PROJECTS THAT (1) DISTURB ONE ACRE OR MORE OF LAND, OR (2) DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE MUST COMPLY WITH THE POSTCONSTRUCTION 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 (POSTPROJECT 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 CONSERVATION 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 PERCENT 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]
FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, COMPLY WITH ***SECTIONS 5.106.4.2.1*** AND ***5.106.4.2.2.***

5.106.4.2.1 STUDENT BICYCLE PARKING
PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS CONVENIENTLY ACCESSED WITH A MINIMUM OF FOUR TWO-BIKE CAPACITY RACKS PER NEW BUILDING.

5.106.4.2.2 STAFF BICYCLE PARKING
PROVIDE PERMANENT, SECURE BICYCLE PARKING CONVENIENTLY ACCESSED WITH A MINIMUM OF TWO STAFF BICYCLE PARKING SPACES PER NEW BUILDING. ACCEPTABLE BICYCLE PARKING FACILITIES SHALL BE CONVENIENT FROM THE STREET OR STAFF PARKING AREA AND SHALL MEET ONE OF THE FOLLOWING:

1. COVERED, LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;
2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; OR
3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES
IN NEW PROJECTS OR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE VEHICULAR PARKING SPACES, PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT AND CARPOOL/VAN POOL VEHICLES AS FOLLOWS:

TABLE 5.106.5.2

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
26-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL*

*CALCULATION FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER

NOTE: DESIGNATED PARKING FOR CLEAN AIR VEHICLES SHALL COUNT TOWARD THE TOTAL PARKING SPACES REQUIRED BY THE LOCAL ENFORCING AGENCIES

5.106.5.2.1 PARKING STALL MARKING
PAINT, IN THE PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE: CLEAN AIR/ VANPOOL/EV

NOTE: VEHICLES BEARING CLEAN AIR VEHICLE STICKERS FROM EXPIRED HOV LANE PROGRAMS MAY BE CONSIDERED ELIGIBLE FOR DESIGNATED PARKING SPACES.

5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING [N]
CONSTRUCTION SHALL COMPLY WITH ***SECTION 5.106.5.3.1*** OR ***SECTION 5.106.5.3.2*** TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). WHEN EVSE(S) IS/ARE INSTALLED, IT SHALL BE IN ACCORDANCE WITH THE *CALIFORNIA BUILDING CODE*, THE *CALIFORNIA ELECTRICAL CODE* AND AS FOLLOWS:

5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS [N]
WHEN ONLY A SINGLE CHARGING SPACE IS REQUIRED PER ***TABLE 5.106.5.3.3,*** A RACEWAY IS REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE *CALIFORNIA ELECTRICAL CODE*. CONSTRUCTION PLANS AND SPECIFICATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. THE TYPE AND LOCATION OF THE EVSE.
2. A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT.
3. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1."
4. THE RACEWAY SHALL ORIGINATE AT A SERVICE PANEL OR A SUBPANEL SERVING THE AREA, AND SHALL TERMINATE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE CHARGING EQUIPMENT AND INTO A LISTED SUITABLE CABINET, BOX, ENCLOSURE OR EQUIVALENT.
5. THE SERVICE PANEL OR SUBPANEL SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE A MINIMUM 40-AMPERE DEDICATED BRANCH CIRCUIT FOR THE FUTURE INSTALLATION OF THE EVSE.

5.106.5.3.2 MULTIPLE CHARGING SPACE REQUIREMENTS [N]
WHEN MULTIPLE CHARGING SPACES ARE REQUIRED PER ***TABLE 5.106.5.3.3*** RACEWAY(S) IS/ARE REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE *CALIFORNIA ELECTRICAL CODE* CONSTRUCTION PLANS AND SPECIFICATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. THE TYPE AND LOCATION OF THE EVSE.
2. THE RACEWAY(S) SHALL ORIGINATE AT A SERVICE PANEL OR A SUBPANEL(S) SERVING THE AREA, AND SHALL TERMINATE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE CHARGING EQUIPMENT AND INTO LISTED SUITABLE CABINET(S), BOX(ES), ENCLOSURE(S) OR EQUIVALENT.
3. PLAN DESIGN SHALL BE BASED UPON 40-AMPERE MINIMUM BRANCH CIRCUITS.
4. ELECTRICAL CALCULATIONS SHALL SUBSTANTIATE THE DESIGN OF THE ELECTRICAL SYSTEM, TO INCLUDE THE RATING OF EQUIPMENT AND ANY ON-SITE DISTRIBUTION TRANSFORMERS
   1. AND HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL REQUIRED EVS AT ITS FULL RATED AMPERAGE.
5. THE SERVICE PANEL OR SUBPANEL(S) SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE THE REQUIRED NUMBER OF DEDICATED BRANCH CIRCUIT(S) FOR THE FUTURE INSTALLATION OF THE EVSE.

5.106.5.3.3 EV CHARGING SPACE CALCULATION [N]
TABLE 5.106.5.3.3 SHALL BE USED TO DETERMINE IF SINGLE OR MULTIPLE CHARGING SPACE REQUIREMENTS APPLY FOR THE FUTURE INSTALLATION OF EVSE.
EXCEPTIONS: ON A CASE-BY-CASE BASIS WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE IS NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:
1. WHERE THERE IS INSUFFICIENT ELECTRICAL SUPPLY.
2. WHERE THERE IS EVIDENCE SUITABLE TO THE LOCAL ENFORCING AGENCY SUBSTANTIATING THAT ADDITIONAL LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS, DIRECTLY RELATED TO THE IMPLEMENTATION OF ***SECTION 5.106.5.3,*** MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.

TABLE 5.106.5.3.3

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% OF TOTAL*

*CALCULATIONS FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER

5.106.5.3.4 [N] IDENTIFICATION
THE SERVICE PANEL OR SUBPANEL(S) CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE."

5.106.5.3.5 [N]
FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN ***SECTION 5.106.5.2*** DESIGNATED PARKING FOR CLEAN AIR VEHICLES.
NOTE: FUTURE ELECTRIC VEHICLE CHARGING SPACES SHALL COUNTY TOWARD THE TOTAL PARKING SPACES REQUIRED BY THE LOCAL ENFORCING AGENCIES.

5.106.8 LIGHT POLLUTION REDUCTION [N].I
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 ***SECTION 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.

NOTES: [N]
1. SEE ALSO *CALIFORNIA BUILDING CODE*, ***CHAPTER 12, SECTION 1205.7*** FOR COLLEGE CAMPUS LIGHTING REQUIREMENTS FOR PARKING FACILITIES AND WALKWAYS.
2. REFER TO ***CHAPTER 8*** (COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIAL) FOR IES TM-15-11 ***TABLE A1***, *CALIFORNIA ENERGY CODE* ***TABLES 130.2-A*** AND ***130.2-B.***
3. REFER TO THE *CALIFORNIA ENERGY CODE* FOR REQUIREMENTS FOR ADDITIONS AND ALTERATIONS.

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

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING[3] (B)					
LUMINAIRE GREATER THAN 2 MOUNTING HEIGHTS (MH) FROM PROPERTY LINE	N/A	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
LUMINAIRE BACK HEMISPHERE IS 1-2 MH FROM PROPERTY LINE	N/A	B2	B3	B4	B4
LUMINAIRE BACK HEMISPHERE IS 0.5-1 MH FROM PROPERTY LINE	N/A	B1	B2	B3	B3
LUMINAIRE BACK HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
FOR AREA LIGHTING[3]	N/A	U0	U0	U0	U0
FOR ALL OTHER OUTDOOR LIGHTING, INCLUDING DECORATIVE LUMINAIRES	N/A	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING[5] (G)					
LUMINAIRE GREATER THAN 2 MOUNTING HEIGHTS (MH) FROM PROPERTY LINE	N/A	G1	G2	G3	G4
LUMINAIRE BACK HEMISPHERE IS 1-2 MH FROM PROPERTY LINE	N/A	G0	G1	G1	G2
LUMINAIRE BACK HEMISPHERE IS 0.5-1 MH FROM PROPERTY LINE	N/A	G0	G0	G1	G1
LUMINAIRE BACK HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	G0	G0	G0	G1

1. IESNA LIGHTING ZONES 0 ARE NOT APPLICABLE; REFER TO LIGHTING ZONES AS DEFINED IN THE *CALIFORNIA ENERGY CODE* AND ***CHAPTER 10*** OF THE *CALIFORNIA ADMINISTRATIVE CODE.*
2. FOR PROPERTY LINES THAT ABUT PUBLIC WALKWAYS, BIKEWAYS, PLAZAS AND PARKING LOTS, THE PROPERTY LINE MAY BE CONSIDERED TO BE 5 FEET BEYOND THE ACTUAL PROPERTY LINE FOR PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION. FOR PROPERTY LINES THAT ABUT PUBLIC ROADWAYS AND PUBLIC TRANSIT CORRIDORS, THE PROPERTY LINE MAY BE CONSIDERED TO BE THE CENTERLINE OF THE PUBLIC ROADWAY OR PUBLIC TRANSIT CORRIDOR FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION.
3. GENERAL LIGHTING LUMINAIRES IN AREAS SUCH AS OUTDOOR PARKING, SALES OR STORAGE LOTS SHALL MEET THESE REDUCED RATINGS. DECORATIVE LUMINAIRES LOCATED IN THESE AREAS SHALL MEET U-VALUE LIMITS FOR "ALL OTHER OUTDOOR LIGHTING."

5.106.8.1 FACING - BACKLIGHT
LUMINAIRES WITHIN 2MH OF A PROPERTY LINE SHALL BE ORIENTED SO THAT THE NEAREST PROPERTY LINE IS BEHIND THE FIXTURE, AND SHALL COMPLY WITH THE BACKLIGHT RATING SPECIFIED IN TABLE 5.106.8 BASED ON THE LIGHTING ZONE AND DISTANCE TO THE NEAREST POINT OF THAT PROPERTY LINE.

EXCEPTION: CORNERS. IF TWO PROPERTY LINES (OR TWO SEGMENTS OF THE SAME PROPERTY LINE) HAVE EQUIDISTANT POINTS 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 STRIGENT 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.

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 IRRIGATIONNECESSARY TO ESTABLISH AND MAINTAIN TREE HEALTH SHALL COMPLY WITH ***SECTION 5.304.6***.

5.106.12.1 SURFACE PARKING AREAS
SHADE TREE PLANTINGS, MINIMUM #10 CONTAINER SIZE OR EQUAL, SHALL BE INSTALLED TO PROVIDE SHADE OVER 50 PERCENT OF THE PARKING AREA WITHIN 15 YEARS.

EXCEPTIONS: THE SURFACE PARKING AREA COVERED BY SOLAR PHOTOVOLTAIC SHADE STRUCTURES, OR SHADE STRUCTURES, WITH ROOFING MATERIALS THAT COMPLY WITH ***TABLE A5.106.11.2.2*** IN APPENDIX A5, ARE NOT INCLUDED IN THE TOTAL AREA CALCULATIONS.

5.106.12.2 LANDSCAPE AREAS
SHADE TRESS 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% OF THE HARDSCAPE AREA WITHIN 15 YEARS.

EXCEPTIONS: WALKS, HARDSCAPE AREAS COVERED BY SOLAR PHOTOVOLTAIC SHADE STRUCTURES, AND HARDSCAPE AREAS COVERED BY SHADE STRUCTURES WITH ROOFING MATERIALS THAT COMPLY WITH ***TABLE A5.106.11.2.2*** IN APPENDIX A5, ARE NOT INCLUDED IN THE TOTAL AREA CALCULATION.

DIVISION 5.2 ENERGY EFFICIENCY

5.201 GENERAL

5.201.1 SCOPE. CALIFORNIA ENERGY CODE
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

5.301 GENERAL

5.301.1 SCOPE
THE PROVISIONS OF THIS CHAPTER SHALL ESTABLISH THE MEANS OF CONSERVING WATER USED INDOORS, OUTDOORS AND IN WASTEWATER CONVEYANCE.

5.303 INDOOR WATER USE

5.303.1 METERS
SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR THE USES DESCRIBED IN ***SECTIONS 5.303.1.1*** AND ***5.303.1.2***.

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET
SEPARATE SUBMETERS SHALL BE INSTALLED AS FOLLOWS:

1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY (380 L/DAY), INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:

CITY OF SAN LUIS OBISPO

PROJECT TITLE: **MISSION PLAZA ENHANCEMENTS**

SHEET TITLE: CAL GREEN REQUIREMENTS

LICENSED ARCHITECT
KATHRYN ANNE HICKS
C-38079
02 - 28 - 2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY: DAVID GIBBS
DRAWN BY: DAVID GIBBS
CHECKED BY: KATHRYN HICKS
APPROVED BY: KATHRYN HICKS
SCALE:
DATE: 05.14.2024
CITY SPECIFICATION NO.
PLAN FILE NO. / LOCATION
SHEET NO. G-105

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (JANUARY 2020, INCLUDES JULY 2021 SUPPLEMENT)

a. MAKEUP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM (30 L/S).
b. MAKEUP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM (0.04 L/S).
c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTU/H (147 KW).

5.303.1.2 EXCESS CONSUMPTION
A SEPARATE SUBMETER OR METERING DEVICE SHALL BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS
PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS

5.303.3.2.1 WALL-MOUNTED URINALS
THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS
THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED OR OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS. [BSC-CG]

5.303.3.3.1 SINGLE SHOWERHEAD
SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER
WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS
LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS
KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS
WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

5.303.3.4.4 METERING FAUCETS
METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS
METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI].

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

5.303.3.4.6 PRE-RINSE SPRAY VALVE
WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION 1605.1(H)(4) TABLE H-2, SECTION 1605.3(H)(4)(A), AND SECTION 1607(D)(7), AND SHALL BE EQUIPPED WITH AN INTEGRAL AUTOMATIC SHUTOFF.

5.303.4 COMMERCIAL KITCHEN EQUIPMENT

5.303.4.1 FOOD WASTE DISPOSERS
DISPOSERS SHALL EITHER MODULATE THE USE OF WATER TO NO MORE THAN 1 GPM WHEN THE DISPOSER IS NOT IN USE (NOT ACTIVELY GRINDING FOOD WASTE/NO-LOAD) OR SHALL AUTOMATICALLY SHUT OFF AFTER NO MORE THAN 10 MINUTES OF INACTIVITY. DISPOSERS SHALL USE NO MORE THAN 8 GPM OF WATER.

NOTE: THIS CODE SECTION DOES NOT AFFECT LOCAL JURISDICTION AUTHORITY TO PROHIBIT OR REQUIRE DISPOSER INSTALLATION.

5.303.5 AREAS OF ADDITION OR ALTERATION
FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN ***SECTION 103***, THE PROVISIONS OF ***SECTIONS 5.303.3*** AND ***5.303.4*** SHALL APPLY TO NEW FIXTURES IN ADDITIONS OR AREAS OF ALTERATION TO THE BUILDING.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS
PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE *CALIFORNIA PLUMBING CODE*, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN ***TABLE 1701.1*** OF THE *CALIFORNIA PLUMBING CODE* AND IN ***CHAPTER 6*** OF THIS CODE.

5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS
NONRESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.
NOTES:
1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) IS LOCATED IN THE *CALIFORNIA CODE OF REGULATIONS*, TITLE 23, CHAPTER 2. 7, DIVISION 2.
2. MWELO AND SUPPORTING DOCUMENTS, INCLUDING A WATER BUDGET CALCULATOR, ARE AVAILABLE AT: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS
FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, LANDSCAPE PROJECTS AS DESCRIBED IN ***SECTIONS 5.304.6.1*** AND ***5.304.6.2*** SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH ***SECTION 490*** OF CHAPTER 2.7, DIVISION 2, TITLE 23, *CALIFORNIA CODE OF* . *REGULATIONS*, EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35.

EXCEPTION: ANY PROJECT WITH AN AGGREGATE LANDSCAPE AREA OF 2,500 SQUARE FEET OR LESS MAY COMPLY WITH THE PRESCRIPTIVE MEASURES CONTAINED IN APPENDIX D OF THE MWELO.

5.304.6.1 NEWLY CONSTRUCTED LANDSCAPES
NEW CONSTRUCTION PROJECTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE FEET.

5.304.6.2 REHABILITATED LANDSCAPES
REHABILITATED LANDSCAPE PROJECTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 1,200 SQUARE FEET.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.401 GENERAL

5.401.1 SCOPE
THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF ACHIEVING MATERIAL CONSERVATION AND RESOURCE EFFICIENCY THROUGH PROTECTION OF BUILDINGS FROM EXTERIOR MOISTURE, CONSTRUCTION WASTE DIVERSION, EMPLOYMENT OF TECHNIQUES TO REDUCE POLLUTION THROUGH RECYCLING OF MATERIALS, AND BUILDING COMMISSIONING OR TESTING AND ADJUSTING.

5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION
PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY *CALIFORNIA BUILDING CODE* **SECTION 1402.2** (WEATHER PROTECTION), MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.407.2 MOISTURE CONTROL
EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS.

5.407.2.1 SPRINKLERS
DESIGN AND MAINTAIN LANDSCAPE IRRIGATION SYSTEMS TO PREVENT SPRAY ON STRUCTURES.

5.407.2.2 ENTRIES AND OPENINGS
DESIGN EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION INTO BUILDINGS AS FOLLOWS:

5.407.2.2.1 EXTERIOR DOOR PROTECTION
PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS PLUS AT LEAST ONE OF THE FOLLOWING:

1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. THE DOOR IS RECESSED AT LEAST 4 FEET.
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

5.407.2.2.2 FLASHING
INSTALL FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT
RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH ***SECTION 5.408.1.1***, ***5.408.1.2*** OR ***5.408.1.3***; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN
WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT
1. IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. DETERMINES IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN.
4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.1.2 WASTE MANAGEMENT COMPANY
UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.

NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

EXCEPTIONS TO *SECTIONS 5.408.1.1* AND *5.408.1.2*:

1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
3. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS.

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE
THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.

5.408.1.4 DOCUMENTATION
DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH ***SECTIONS 5.408.1.1*** THROUGH ***5.408.1.3***. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

NOTES:
1. SAMPLE FORMS FOUND IN "*A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)*" LOCATED AT https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-CommissionResources-List-Folder/CALGreen MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.
2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

5.408.2 UNIVERSAL WASTE. [A]
ADDITIONS AND ALTERATIONS TO A BUILDING OR TENANT SPACE THAT MEET THE SCOPING PROVISIONS IN ***SECTION 301.3*** FOR NONRESIDENTIAL ADDITIONS AND ALTERATIONS, SHALL REQUIRE VERIFICATION THAT UNIVERSAL WASTE ITEMS SUCH AS FLUORESCENT LAMPS AND BALLAST AND MERCURY CONTAINING THERMOSTATS AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS. A LIST OF PROHIBITED UNIVERSAL WASTE MATERIALS SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS.

NOTE: REFER TO THE UNIVERSAL WASTE RULE LINK AT: https://dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS
100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.

NOTES:
1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. FOR A MAP OF KNOWN PEST AND/OR DISEASE QUARANTINE ZONES, CONSULT WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE. (www.cdfa.ca.gov)

5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS
PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

EXCEPTION: RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE 42649.82 (A)(2)(A) ET SEQ. SHALL ALSO BE EXEMPT FROM THE ORGANIC WASTE PORTION OF THIS SECTION.

5.410.1.1 ADDITIONS
ALL ADDITIONS CONDUCTED WITHIN A 12-MONTH PERIOD UNDER SINGLE OR MULTIPLE PERMITS, RESULTING IN AN INCREASE OF 30 PERCENT OR MORE IN FLOOR AREA, SHALL PROVIDE RECYCLING AREAS ON SITE.

EXCEPTION:ADDITIONS WITHIN A TENANT SPACE RESULTING IN LESS THAN A 30-PERCENT INCREASE IN THE TENANT SPACE FLOOR AREA.

5.410.1.2 SAMPLE ORDINANCE
SPACE ALLOCATION FOR RECYCLING AREAS SHALL COMPLY WITH CHAPTER 18, PART 3, DIVISION 30 OF THE *PUBLIC RESOURCES CODE.* CHAPTER 18 IS KNOWN AS THE CALIFORNIA SOLID WASTE REUSE AND RECYCLING ACCESS ACT OF 1991 (ACT).

NOTE: A SAMPLE ORDINANCE FOR USE BY LOCAL AGENCIES MAY BE FOUND IN APPENDIX A OF THE DOCUMENT AT THE CALRECYCLE'S WEB SITE

5.410.2 COMMISSIONING. [N] NEW BUILDINGS 10,000 SQUARE FEET AND OVER
FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY. FOR I-OCCUPANCIES THAT ARE NOT REGULATED BY OSHPD OR FOR I-OCCUPANCIES AND L-OCCUPANCIES THAT ARE NOT REGULATED BY THE *CALIFORNIA ENERGY CODE* ***SECTION 100.0 SCOPE***, ALL REQUIREMENTS IN ***SECTIONS 5.410.2*** THROUGH ***5.410.2.6*** SHALL APPLY.

NOTE: FOR ENERGY-RELATED SYSTEMS UNDER THE SCOPE (***SECTION 100***) OF THE *CALIFORNIA ENERGY CODE*, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEMS AND CONTROLS, AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO *CALIFORNIA ENERGY CODE* ***SECTION 120.8*** FOR COMMISSIONING REQUIREMENTS.

COMMISSIONING REQUIREMENTS SHALL INCLUDE:

1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS.
2. BASIS OF DESIGN.
3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. COMMISSIONING PLAN.
5. FUNCTIONAL PERFORMANCE TESTING.
6. DOCUMENTATION AND TRAINING.
7. COMMISSIONING REPORT.

EXCEPTIONS:

1. UNCONDITIONED WAREHOUSES OF ANY SIZE.
2. AREAS LESS THAN 10,000 SQUARE FEET USED FOR OFFICES OR OTHER CONDITIONED ACCESSORY SPACES WITHIN UNCONDITIONED WAREHOUSES.
3. TENANT IMPROVEMENTS LESS THAN 10,000 SQUARE FEET AS DESCRIBED IN ***SECTION 303.1.1.***
4. OPEN PARKING GARAGES OF ANY SIZE, OR OPEN PARKING GARAGE AREAS, OF ANY SIZE, WITHIN A STRUCTURE.

NOTE: FOR THE PURPOSES OF THIS SECTION, UNCONDITIONED SHALL MEAN A BUILDING, AREA, OR ROOM WHICH DOES NOT PROVIDE HEATING AND OR AIR CONDITIONING.

INFORMATIONAL NOTES:

1. IAS AC 476 IS AN ACCREDITATION CRITERIA FOR ORGANIZATIONS PROVIDING TRAINING AND/OR CERTIFICATION OF COMMISSIONING PERSONNEL. AC 476 IS AVAILABLE TO THE AUTHORITY HAVING JURISDICTION AS A REFERENCE FOR QUALIFICATIONS OF COMMISSIONING PERSONNEL. AC 476 DOES NOT CERTIFY INDIVIDUALS TO CONDUCT FUNCTIONAL PERFORMANCE TESTS OR TO ADJUST AND BALANCE SYSTEMS.
2. FUNCTIONAL PERFORMANCE TESTING FOR HEATING, VENTILATION, AIR CONDITIONING SYSTEMS AND LIGHTING CONTROLS MUST BE PERFORMED IN COMPLIANCE WITH THE *CALIFORNIA ENERGY CODE.*

5.410.2.1 OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS (OPR) [N]
THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING APPROPRIATE TO ITS PHASE SHALL BE DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS. THIS DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. ENVIRONMENTAL AND SUSTAINABILITY GOALS.
2. BUILDING SUSTAINABLE GOALS.
3. INDOOR ENVIRONMENTAL QUALITY REQUIREMENTS.
4. PROJECT PROGRAM, INCLUDING FACILITY FUNCTIONS AND HOURS OF OPERATION, AND NEED FOR AFTER HOURS OPERATION.
5. EQUIPMENT AND SYSTEMS EXPECTATIONS.
6. BUILDING OCCUPANT AND OPERATION AND MAINTENANCE (O&M) PERSONNEL EXPECTATIONS.

5.410.2.2 BASIS OF DESIGN (BOD) [N]
A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT. THE BASIS OF DESIGN DOCUMENT SHALL COVER THE FOLLOWING SYSTEMS:

1. RENEWABLE ENERGY SYSTEMS.
2. LANDSCAPE IRRIGATION SYSTEMS.
3. WATER REUSE SYSTEMS.

5.410.2.3 COMMISSIONING PLAN [N]
PRIOR TO PERMIT ISSUANCE A COMMISSIONING PLAN SHALL BE COMPLETED TO DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED. THE COMMISSIONING PLAN SHALL INCLUDE THE FOLLOWING:

A. GENERAL PROJECT INFORMATION.
B. COMMISSIONING GOALS.
C. SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
   a. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT.
   b. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS.
   c. FUNCTIONS TO BE TESTED.
   d. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED.
   e. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE.
D. COMMISSIONING TEAM INFORMATION.
E. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING SHALL BE INCLUDED.

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING [N]
FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM- TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE.

5.410.2.5 DOCUMENTATION AND TRAINING [N]
A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN *CALIFORNIA CODE OF REGULATIONS* (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.2.5.1 SYSTEMS MANUAL [N]
DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING:

1. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS.
2. SITE CONTACT INFORMATION.
3. BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG.
4. MAJOR SYSTEMS.
5. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES.
6. A COPY OF VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
7. OTHER RESOURCES AND DOCUMENTATION, IF APPLICABLE.

5.410.2.5.2 SYSTEMS OPERATIONS TRAINING [N]
A PROGRAM FOR TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DEVELOPED AND DOCUMENTED IN THE COMMISSIONING REPORT AND SHALL INCLUDE THE FOLLOWING:

1. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES).
2. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE.
3. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL.
4. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/ EQUIPMENT.

5.410.2.6 COMMISSIONING REPORT [N]
A REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN AND CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.

5.410.4 TESTING AND ADJUSTING. NEW BUILDINGS LESS THAN 10,000 SQUARE FEET
TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/2/DEFINITIONS#ADDITION"ADDITION OR ALTERATION SUBJECT TO ***SECTION HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/3/GREEN-BUILDING#303.1"303.1***.

5.410.4.1 (RESERVED)

NOTE: FOR ENERGY-RELATED SYSTEMS UNDER THE SCOPE (SECTION 100) OF THE *HYPERLINK "/VIEWER/CALIFORNIA/CA-ENERGY-CODE-2016"CALIFORNIA ENERGY CODE*, INCLUDING HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS, INDOOR LIGHTING SYSTEM AND CONTROLS, AS WELL AS WATER HEATING SYSTEMS AND CONTROLS, REFER TO *CALIFORNIA HYPERLINK "/VIEWER/CALIFORNIA/CA-ENERGY-CODE-2016"ENERGY CODE* ***SECTION 120.8*** FOR COMMISSIONING REQUIREMENTS AND ***SECTIONS 120.5, 120.6, 130.4***, AND ***140.9(B)3*** FOR ADDITIONAL TESTING REQUIREMENTS OF SPECIFIC SYSTEMS.

5.410.4.2 SYSTEMS
DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:

1. RENEWABLE ENERGY SYSTEMS.
2. LANDSCAPE IRRIGATION SYSTEMS.
3. WATER REUSE SYSTEMS.

5.410.4.3 PROCEDURES
PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.

5.410.4.3.1 HVAC BALANCING
IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/2/DEFINITIONS#BALANCE"BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/2/DEFINITIONS#BALANCE"BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/2/DEFINITIONS#ENFORCING_AGENCY"ENFORCING AGENCY.

5.410.4.4 REPORTING
AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

5.410.4.5 OPERATION AND MAINTENANCE (O & M) MANUAL
PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.4.5.1 INSPECTIONS AND REPORTS
INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE HYPERLINK "/VIEWER/CALIFORNIA/CA-GREEN-CODE-2016/CHAPTER/2/DEFINITIONS#ENFORCING_AGENCY"ENFORCING AGENCY.

DIVISION 5.5 ENVIRONMENTAL QUALITY

5.501 GENERAL

5.501.1 SCOPE
THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING, AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

5.503 FIREPLACES

5.503.1 FIREPLACES
INSTALL ONLY A DIRECT-VENT SEALED-COMBUSTION GAS OR SEALED WOOD-BURNING FIREPLACE, OR A SEALED WOOD-STOVE OR PELLET STOVE, AND REFER TO RESIDENTIAL REQUIREMENTS IN THE *CALIFORNIA ENERGY CODE*, TITLE 24, PART 6, SUBCHAPTER 7, SECTION 150. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

5.503.1.1 WOODSTOVES
WOODSTOVE AND PELLET STOVES SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS.

5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION
THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION
AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL
FINISH MATERIALS SHALL COMPLY WITH SECTIONS ***5.504.4.1*** THROUGH ***5.504.4.6***.

5.504.4.1 ADHESIVES, SEALANTS AND CAULKS
ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:

1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR 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.

CITY OF SAN LUIS OBISPO

PROJECT TITLE: **MISSION PLAZA ENHANCEMENTS**

SHEET TITLE: CAL GREEN REQUIREMENTS

LICENSED ARCHITECT
KATHRYN ANNE HICKS
C-38079
02 - 28 - 2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DAVID GIBBS
DRAWN BY:	DAVID GIBBS
CHECKED BY:	KATHRYN HICKS
APPROVED BY:	KATHRYN HICKS
SCALE:	
DATE:	05.14.2024
CITY SPECIFICATION NO.	
PLAN FILE NO. / LOCATION	
SHEET NO.	G-106

10/21/2022 2:29:24 PM

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (JANUARY 2020, INCLUDES JULY 2021 SUPPLEMENT)

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

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

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168. WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

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

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

5.504.4.3 PAINTS AND COATINGS
ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, AS SHOWN IN ***TABLE 5.504.4.3***, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN ***TABLE 5.504.4.3*** SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36 AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN ***TABLE 5.504.4.3*** SHALL APPLY.

5.504.4.3.1 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PWMIR LIMITS FOR ROC IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(C)(2) AND (D)(2) OF *CALIFORNIA CODE OF REGULATIONS*, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8 RULE 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2, 3]
(GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS)

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
IDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND 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 AND INCLUDING EXEMPT COMPOUNDS.
2. THE SPECIFIED LIMITS REMAIN IN EFFECT ENLESS 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, FEBUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 VERIFICATION
VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. MANUFACTURER'S PRODUCT SPECIFICATION
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS

5.504.4.4 CARPET SYSTEMS
ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS FO 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, JUANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PULIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

5.504.4.4.1 CARPET CUSHION
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JUANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PULIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

5.504.4.4.2 CARPET ADHESIVE
ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF ***TABLE 5.504.4.1***.

5.504.4.5 COMPOSITE WOOD PRODUCTS
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE (ATCM) FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN ***TABLE 5.504.4.5***.

5.504.4.5.3 DOCUMENTATION
VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
2. CHAIN OF CUSTODY CERTIFICATIONS.
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, *ET SEQ.*).
4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269 OR EUROPEAN 636 3S STANDARDS.
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

5.504.4.6 RESILIENT FLOOR SYSTEMS
WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80% 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, JUANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PULIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]
(MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)

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

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. 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 INCH (8MM).

5.504.4.6 RESILIENT FLOORING SYSTEMS
FOR 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALLED RESILIENT FLOORING SHALL MEET AT LEAST ONE OF THE FOLLOWING:

1. CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM;
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S 2010 STANDARD METHOD FOR THE TESTING AND EVALUATION CHAMBERS, VERSION 1.1, FEBRUARY 2010;
3. COMPLIANT WITH THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS CALIFORNIA (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 7.0 AND EQ 7.1 (FORMERLY EQ 2.2) DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE; OR
4. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN'S & SCHOOLS PROGRAM).

5.504.4.6.1 VERIFICATION OF COMPLIANCE
DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.5.3 FILTERS
IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

EXCEPTION: EXISTING MECHANICAL EQUIPMENT.

5.504.5.3.1 LABELING
INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL
WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.

5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL
BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF *CALIFORNIA BUILDING CODE*, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES, SEE ***SECTION 5.407.2*** OF THIS CODE.

5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY
FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF ***SECTION 120.1*** (REQUIREMENTS FOR VENTILATION) OF THE *CALIFORNIA ENERGY CODE,* OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING
FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE *CALIFORNIA ENERGY CODE,* SECTION 120(C)(4).

5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL
EMPLOY BUILDING ASSEMBLIES AND COMPONENTS WITH SOUND TRANSMISSION CLASS (STC) VALUES DETERMINED IN ACCORDANCE WITH ASTM E90 AND ASTM E413 OR OUTDOOR-INDOOR SOUND TRANSMISSION CLASS (OITC) DETERMINED IN ACCORDANCE WITH ASTM E1332, USING EITHER THE PRESCRIPTIVE OR PERFORMANCE METHOD IN ***SECTION 5.507.4.1*** OR ***5.507.4.2***.

EXCEPTION: BUILDINGS WITH FEW OR NO OCCUPANTS OR WHERE OCCUPANTS ARE NOT LIKELY TO BE AFFECTED BY EXTERIOR NOISE, AS DETERMINED BY THE ENFORCEMENT AUTHORITY, SUCH AS FACTORIES, STADIUMS, STORAGE, ENCLOSED PARKING STRUCTURES AND UTILITY BUILDINGS.

EXCEPTION: [DSA-SS] FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, THE REQUIREMENTS OF THIS SECTION AND ALL SUBSECTIONS APPLY ONLY TO NEW CONSTRUCTION.

5.507.4.1 EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD
WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NO LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IN THE FOLLOWING LOCATIONS:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.

   EXCEPTIONS:
   1. L_{DN} OR CNEL FOR MILITARY AIRPORTS SHALL BE DETERMINED BY THE FACILITY AIR INSTALLATION COMPATIBLE LAND USE ZONE (AICUZ) PLAN.
   2. L_{DN} OR CNEL FOR OTHER AIRPORTS AND HELIPORTS FOR WHICH A LAND USE PLAN HAS NOT BEEN DEVELOPED SHALL BE DETERMINED BY THE LOCAL GENERAL PLAN NOISE ELEMENT.
2. WITHIN THE 65 CNEL OR L_{DN} NOISE CONTOUR OF A FREEWAY OR EXPRESSWAY, RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE NOISE ELEMENT OF THE GENERAL PLAN.

5.507.4.1.1 NOISE EXPOSURE WHERE NOISE CONTOURS ARE NOT READILY AVAILABLE
BUILDINGS EXPOSED TO A NOISE LEVEL OF 65 DB L_{EQ}-1-HR DURING ANY HOUR OF OPERATION SHALL HAVE BUILDING, ADDITION OR ALTERATION EXTERIOR WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MEETING A COMPOSITE STC RATING OF AT LEAST 45 (OR OITC 35), WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 (OR OITC 30).

5.507.4.2 PERFORMANCE METHOD
FOR BUILDINGS LOCATED AS DEFINED IN ***SECTION 5.507.4.1*** OR ***5.507.4.1.1***, WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL BE CONSTRUCTED TO PROVIDE AN INTERIOR NOISE ENVIRONMENT ATTRIBUTABLE TO EXTERIOR SOURCES THAT DOES NOT EXCEED AN HOURLY EQUIVALENT NOISE LEVEL (L_{EQ}-1HR) OF 50 DBA IN OCCUPIED AREAS DURING ANY HOUR OF OPERATION.

5.507.4.2.1 SITE FEATURES
EXTERIOR FEATURES SUCH AS SOUND WALLS OR EARTH BERMS MAY BE UTILIZED AS APPROPRIATE TO THE BUILDING, ADDITION OR ALTERATION PROJECT TO MITIGATE SOUND MIGRATION TO THE INTERIOR.

5.507.4.2.2 DOCUMENTATION OF COMPLIANCE
AN ACOUSTICAL ANALYSIS DOCUMENTING COMPLYING INTERIOR SOUND LEVELS SHALL BE PREPARED BY PERSONNEL APPROVED BY THE ARCHITECT OR ENGINEER OF RECORD.

5.507.4.3 INTERIOR SOUND TRANSMISSION
WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING TENANT SPACES AND TENANT SPACES AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40.

NOTE: EXAMPLES OF ASSEMBLIES AND THEIR VARIOUS STC RATINGS MAY BE FOUND AT THE CALIFORNIA OFFICE OF NOISE CONTROL: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS
INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH ***SECTIONS 5.508.1.1*** AND ***5.508.1.2***.

5.508.1.1 CHLOROFLUOROCARBONS (CFCS)
INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

5.508.1.2 HALONS
INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

5.508.2 SUPERMARKET REFRIGERANT LEAK REDUCTION
NEW COMMERCIAL REFRIGERATION SYSTEMS SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION WHEN INSTALLED IN RETAIL FOOD STORES 8,000 SQUARE FEET OR MORE CONDITIONED AREA, AND THAT UTILIZE EITHER REFRIGERATED DISPLAY CASES, OR WALK-IN COOLERS OR FREEZERS CONNECTED TO REMOTE COMPRESSOR UNITS OR CONDENSING UNITS. THE LEAK REDUCTION MEASURES APPLY TO REFRIGERATION SYSTEMS CONTAINING HIGH-GLOBAL-WARMING POTENTIAL (HIGH-GWP) REFRIGERANTS WITH A GWP OF 150 OR GREATER. NEW REFRIGERATION SYSTEMS INCLUDE BOTH NEW FACILITIES AND THE REPLACEMENT OF EXISTING REFRIGERATION SYSTEMS IN EXISTING FACILITIES.

EXCEPTION: REFRIGERATION SYSTEMS CONTAINING LOW-GLOBAL WARMING POTENTIAL (LOW-GWP) REFRIGERANT WITH A GWP VALUE LESS THAN 150 ARE NOT SUBJECT TO THIS SECTION. LOW-GWP REFRIGERANTS ARE NONOZONE-DEPLETING REFRIGERANTS THAT INCLUDE AMMONIA, CARBON DIOXIDE (CO_2), AND POTENTIALLY OTHER REFRIGERANTS.

5.508.2.1 REFRIGERANT PIPING
PIPING COMPLIANT WITH THE *CALIFORNIA MECHANICAL CODE* SHALL BE INSTALLED TO BE ACCESSIBLE FOR LEAK PROTECTION AND REPAIRS. PIPING RUNS USING THREADED PIPE, COPPER TUBING WITH AN OUTSIDE DIAMETER (OD) LESS THAN 1/4 INCH, FLARED TUBING CONNECTIONS AND SHORT RADIUS ELBOWS SHALL NOT BE USED IN REFRIGERANT SYSTEMS EXCEPT AS NOTED BELOW.

5.508.2.1.1 THREADED PIPE
THREADED CONNECTIONS ARE PERMITTED AT THE COMPRESSOR RACK.

5.508.2.1.2 COPPER PIPE
COPPER TUBING WITH AN OD LESS THAN 1/4 INCH MAY BE USED IN SYSTEMS WITH A REFRIGERANT CHARGE OF 5 POUNDS OR LESS.

5.508.2.1.2.1 ANCHORAGE
ONE-FOURTH-INCH OD TUBING SHALL BE SECURELY CLAMPED TO A RIGID BASE TO KEEP VIBRATION LEVELS BELOW 8 MILS.

5.508.2.1.3 FLARED TUBING CONNECTIONS
DOUBLE-FLARED TUBING CONNECTIONS MAY BE USED FOR PRESSURE CONTROLS, VALVE PILOT LINES AND OIL.

EXCEPTION: SINGLE-FLARED TUBING CONNECTIONS MAY BE USED WITH A 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.

5.508.2.2.2.2.1 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.

NOTES:
1. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.
2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS).

[BSC-CG] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

NOTE:
SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

703 VERIFICATIONS

703.1 DOCUMENTATION.
DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED APPLICABLE CHECKLIST.

CITY OF SAN LUIS OBISPO

PROJECT TITLE: **MISSION PLAZA ENHANCEMENTS**

SHEET TITLE: CAL GREEN REQUIREMENTS

LICENSED ARCHITECT
KATHRYN ANNE HICKS
C-38079
02 - 28 - 2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY: DAVID GIBBS

DRAWN BY: DAVID GIBBS

CHECKED BY: KATHRYN HICKS

APPROVED BY: KATHRYN HICKS

SCALE:

DATE: 05.14.2024

CITY SPECIFICATION NO.

PLAN FILE NO. / LOCATION

SHEET NO. G-107

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ACCESSIBILITY NOTES

REFER TO DETAIL 12/G-103 FOR ACC. LAVATORY REQUIREMENTS

REFER TO DETAIL 13/G-103FOR ACC. RESTROOM ACCESSORIES

REFER TO DETAIL 12/G-104 FOR ACC. TOILET REQUIREMENTS

REFER TO DETAIL 21/G-103 FOR KICK PLATE REQUIREMENTS

REFER TO DETAIL 23/G-103 FOR ACC. RESTROOM SYMBOL REQUIREMENTS

REFER TO DETAIL 33/G-103 FOR ACC. REACH RANGES

REFER TO DETAIL 13/G-104 FOR ACC. TURNING SPACE REQUIREMENTS

REFER TO DETAIL 41/G-103 FOR ACC. DOOR REQUIREMENTS

REFER TO DETAIL 23/G-104 FOR ACC. DOOR/ENTRY CLEARANCES

REFER TO DETAIL 43/G-103 FOR TOE/KNEE CLEARANCES

REFER TO DETAIL 23/23/G-104 FOR CLEARANCES AT DOORS & GATES

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
6. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
7. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU UNLESS SPECIFICALLY NOTED OTHERWISE.
8. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. FLOOR TO SLOPE TO DRAIN AT 1/4" :1" MAX. SLOPE

KEYNOTES

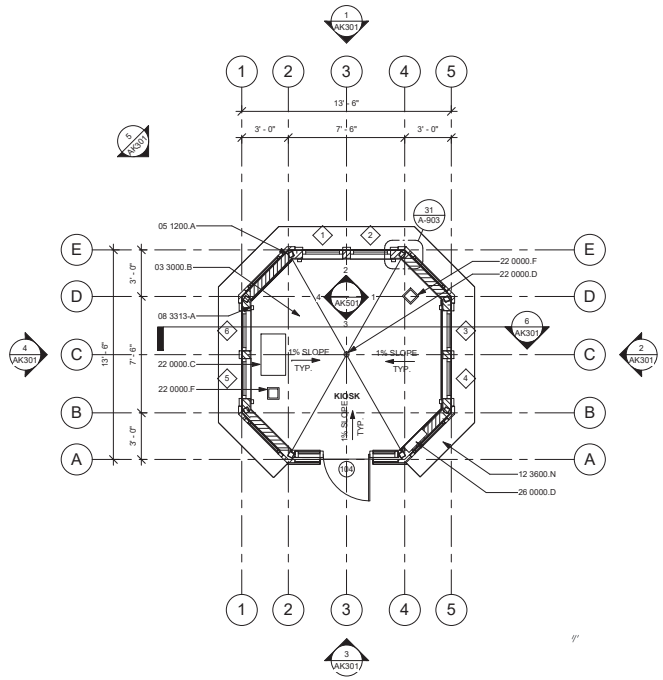
03 3000.B	CONCRETE SLAB, REFER TO STRUCTURAL
05 1200.A	STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
08 3313-A	COILING COUNTER DOOR
12 3600.N	SHEETMETAL COUNTER
22 0000.C	GREASE INTERCEPTOR. REFER TO PLUMBING
22 0000.D	FLOOR DRAIN. MINIMUM 1/4":1' SLOPE. REFER TO PLUMBING
22 0000.F	FLOOR SINK. REFER TO PLUMBING
26 0000.D	ELECTRICAL PANEL. REFER TO ELECTRICAL

WALL LEGEND

INTERIOR- 7 5/8" C.M.U.

EXTERIOR- 7 5/8" C.M.U. W/ BRICK VENEER, METAL PANEL, OR, METAL PANLE OVER 4" METAL FURRING CHANNEL.

EXTERIOR- 6" METAL STUD, UNFINISHED INTERIOR. METAL PANEL OR BRICK VENEER EXTERIOR.

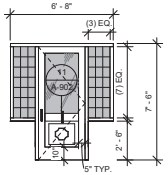


1 GROUND FLOOR PLAN - KIOSK
AR301 AK101 1/4" = 1'-0"

DOOR SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	SIGNAGE	HARDWARE
104	C	3' - 0"	7' - 3 1/2"		3

DOOR TYPES



C. STOREFRONT DOOR

DOOR NOTES

1. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
3. ALL DOOR HARDWARE TO HAVE LEVER HANDLES AND COMPLY WITH DETAIL 41/G-103
4. SEE DOOR SCHEDULE FOR SIGN SCHEDULE. REFER TO DETAILS 23/G-103 FOR ROOM IDENTIFICATION SYMBOL LOCATION.
5. ALL THRESHOLDS SHALL COMPLY WITH DETAIL 42/G-103.
6. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
7. THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
8. ALL GLAZING WITHIN 24" OF DOOR JAMB TO BE TEMPERED PER CBC 2406.4.2

DOOR SIGNAGE

1. RESTROOM & ACCESSIBILITY SIGNAGE.
2. MAINTENANCE
3. WOMENS
4. MENS

DOOR HARDWARE

REFER TO SPECIFICATION 08 710O FOR DOOR HARDWARE GROUPS

WINDOW SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	NOTES
1	A	2' - 7"	4' - 2"	7' - 0"				
2	A	2' - 7"	4' - 2"	7' - 0"				
3	A	2' - 7"	4' - 2"	7' - 0"				
4	A	2' - 7"	4' - 2"	7' - 0"				
5	A	2' - 7"	4' - 2"	7' - 0"				
6	A	2' - 7"	4' - 2"	7' - 0"				

WINDOW TYPES

A.
FIXED

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

FLOOR PLAN & DOOR SCHEDULE

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02 - 28 - 2025
DATE
STATE OF CALIFORNIA

DESIGNED BY: DG
DRAWN BY: DG
CHECKED BY: KH
APPROVED BY: KH
SCALE: 1/4" = 1'-0"
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION
SHEET NO. AK101

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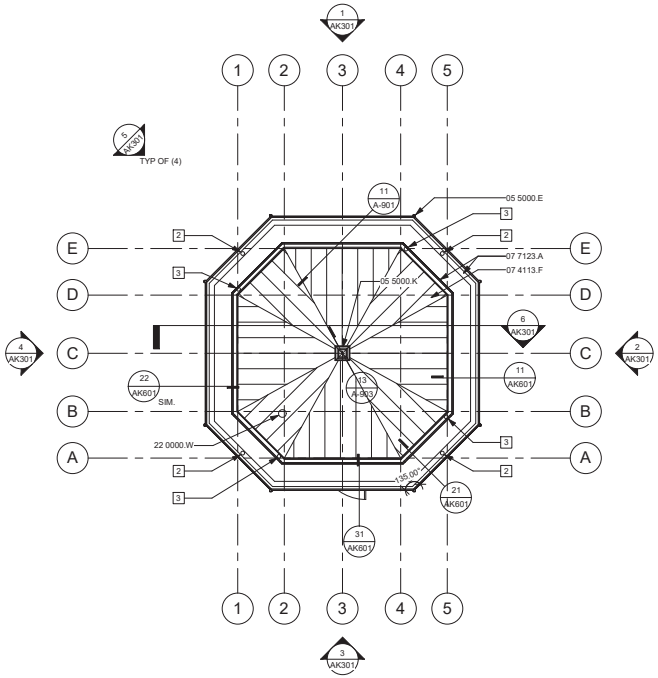

1 ROOF PLAN - KIOSK

AR301 AK102 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
2. REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION.

KEYNOTES

05 5000.E	CUSTOM OVERHANG METAL DETAIL
05 5000.K	CUSTOM METAL FINEAL
07 4113.F	STANDING SEAM METAL ROOF
07 7123.A	GUTTER
22 0000.W	STACK VENT. LOCATE ON SOUTH SLOPE OF ROOF. REFER TO PLUMBING

LEGEND

10'-0"	HEIGHT OF TOP OF ROOFING SURFACE (INCLUDING CRICKETS AND INSULATION)
1/2":1'-0"	ROOF SLOPE
	STANDING SEAM ROOF
1	IN WALL RAIN WATER LEADER SCHEDULE 40 PIPE TO BRASS COWS TOUNGE SCUPPER
2	THROUGH ROOF DOWNSPOUT EXTEND 1" BELOW SOFFIT
3	DOWNSPOUT TO ROOF BELOW

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
ROOF PLAN

LICENSED ARCHITECT
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AK102

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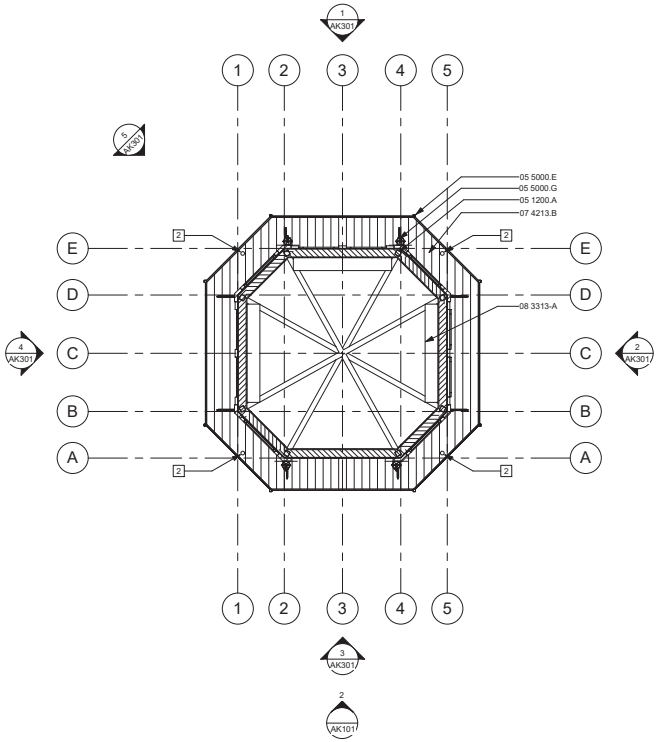

1 KIOSK REFLECTED CEILING PLAN

AR301 AK103 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION
6. DIMENSIONS ARE TO FACE OF CORE UNLESS SPECIFICALLY NOTED OTHERWISE.
7.

KEYNOTES

05 1200.A	STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
05 5000.E	CUSTOM OVERHANG METAL DETAIL
05 5000.G	CUSTOM OVERHANG METAL SUPPORT BRACKET
07 4213.B	METAL WALL PANEL
08 3313-A	COILING COUNTER DOOR

LEGEND

10'-0"	CEILING HEIGHT
	LINEAR METAL SOFFIT
1	IN WALL DOWN SPOUT SCHEDULED PIPE TO COWS TOUNGE SCUPPER
2	THROUGH ROOF DOWNSPOUT EXTEND 1" BELOW SOFFIT
3	DOWNSPOUT TO ROOF BELOW

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
REFLECTED CEILING PLAN

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12 - 20 - 2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AK103

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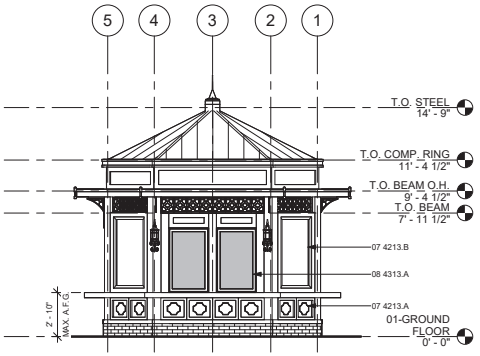
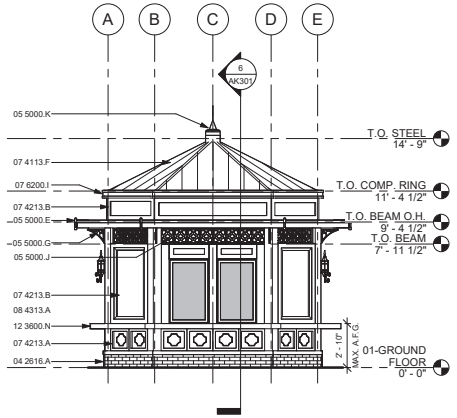


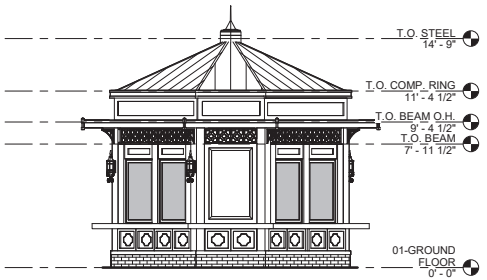
1 NORTH ELEVATION - KIOSK

AK101 AK301 1/4" = 1'-0"



2 EAST ELEVATION - KIOSK

AK101 AK301 1/4" = 1'-0"

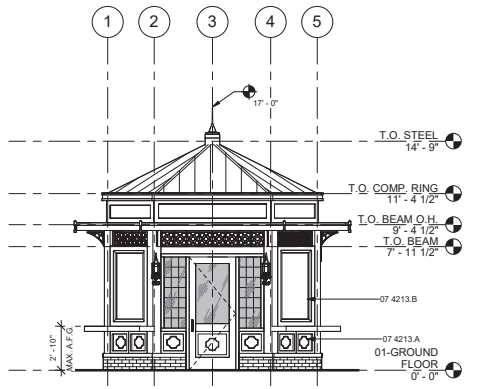


5 KIOSK SHORT SIDE, TYP. OF FOUR

AK101 AK301 1/4" = 1'-0"

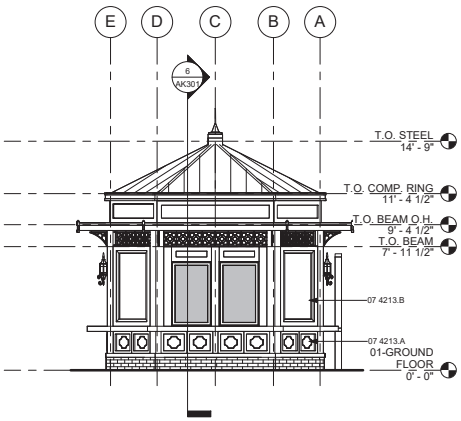
GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
2. REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION.



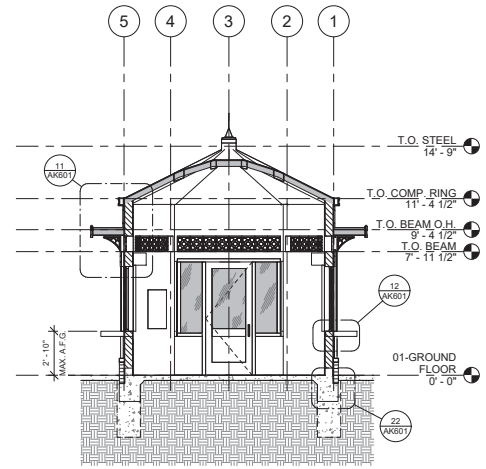
3 SOUTH ELEVATION - KIOSK

AK101 AK301 1/4" = 1'-0"



4 WEST ELEVATION - KIOSK

AK101 AK301 1/4" = 1'-0"



6 BUILDING SECTION - KIOSK

AK101 AK301 1/4" = 1'-0"

KEYNOTES

04 2616.A	NEW BRICK VENEER AT FRAMED WALL
05 5000.E	CUSTOM OVERHANG METAL DETAIL
05 5000.G	CUSTOM OVERHANG METAL SUPPORT BRACKET
05 5000.J	CUSTOM METAL VENT SCREEN
05 5000.K	CUSTOM METAL FINEAL
07 4113.F	STANDING SEAM METAL ROOF
07 4213.A	METAL WALL PANEL W/ SURFACE APPLIED MEDALLION
07 4213.B	METAL WALL PANEL
07 6200.I	GUTTER
08 4313.A	ALUMINUM STOREFRONT SYSTEM - REFER TO SCHEDULES
12 3600.N	SHEETMETAL COUNTER

LEGEND

BRICK VENEER

STANDING SEAM METAL ROOF

METAL WALL PANELS

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

EXTERIOR ELEVATIONS & SECTION

SHEET TITLE:

LICENSED ARCHITECT
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AK301

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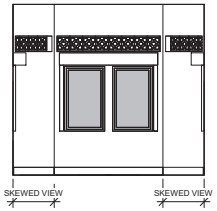
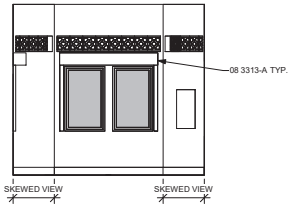
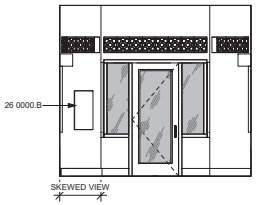


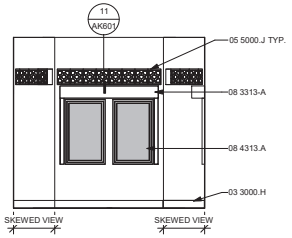
2 NORTH - KIOSK
AK101 AK501 1/4" = 1'-0"



1 EAST - KIOSK
AK101 AK501 1/4" = 1'-0"



3 SOUTH - KIOSK
AK101 AK501 1/4" = 1'-0"



4 WEST - KIOSK
AK101 AK501 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND LOCATIONS OF ELECTRICAL OUTLETS
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING, AND FLOOR FINISH INFORMATION.
5. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
6. STANDARD MOUNTING HEIGHTS OF RESTROOM ACCESSORIES AND PLUMBING FIXTURES TO FOLLOW THE ACCESSIBILITY STANDARDS.
7. REFER TO ACCESSIBILITY DETAILS FOR ACCESSIBILITY REQUIREMENTS AT PUBLIC RESTROOM.

KEYNOTES

03 3000.H	CONCRETE CURB PER STRUCTURAL
05 5000.J	CUSTOM METAL VENT SCREEN
08 3313-A	COILING COUNTER DOOR
08 4313.A	ALUMINUM STOREFRONT SYSTEM - REFER TO SCHEDULES
26 0000.B	SURFACE MOUNTED PANELBOARD. REFER TO ELECTRICAL

LEGEND

CMU

PERFORATED METAL PANEL, PAINTED

EXPOSED STUDS TYP.
NOTE: STUDS NOW SHOWN FOR CLARITY

TILE PER 23/A-901

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
INTERIOR ELEVATIONS

LICENSED ARCHITECT
C-38079
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AK501

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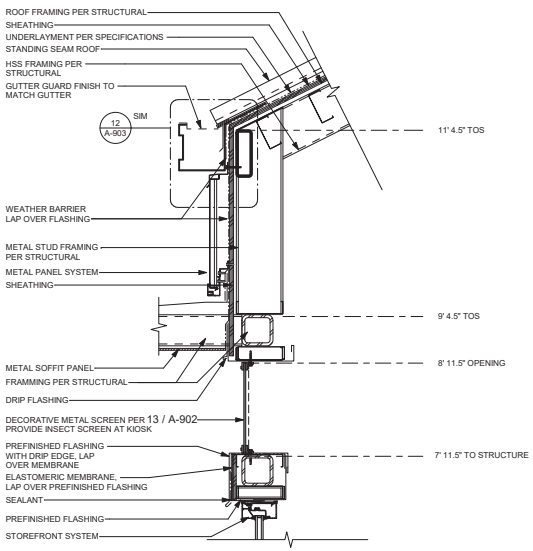
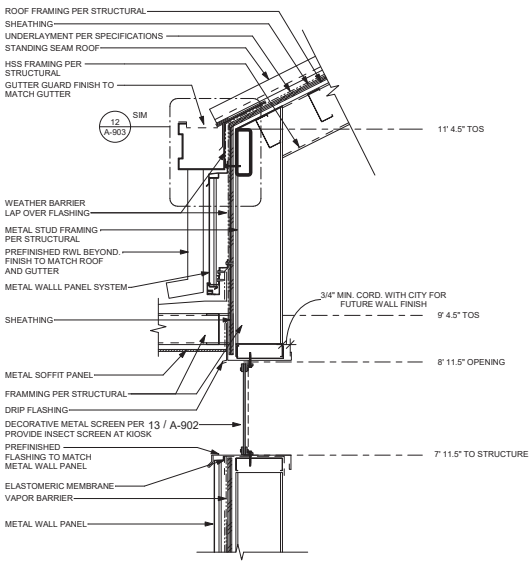
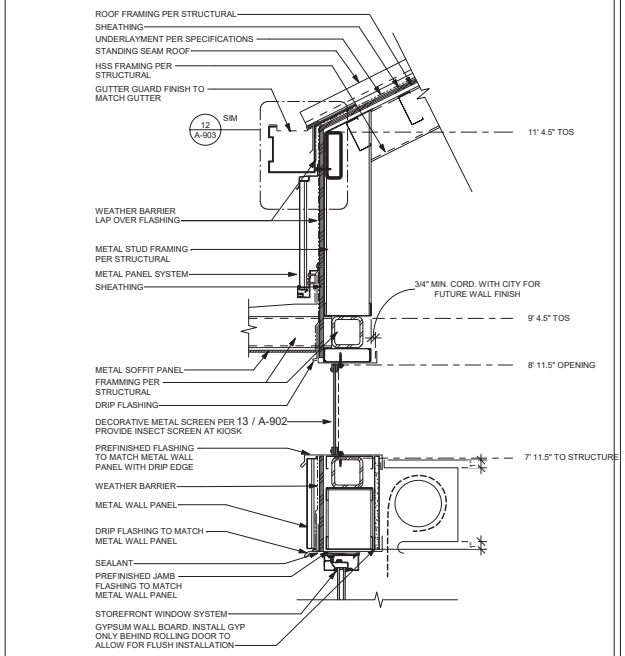


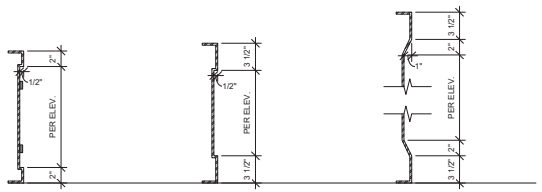
31 TYP. WALL SECTION AT STOREFRONT
AK102 AK601 1 1/2" = 1'-0"



21 TYP. WALL SECTION AT KIOSK
AK102 AK601 1 1/2" = 1'-0"

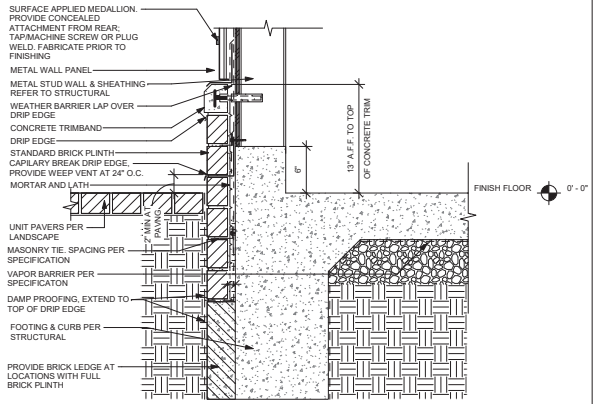


11 TYP. WALL SECTION AT COILING COUNTER DOOR
AK102 AK601 1 1/2" = 1'-0"

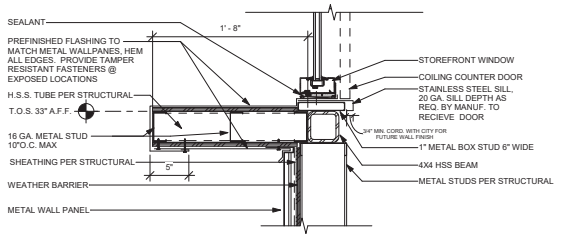


A. DOOR & BELOW COUNTER
B. TRANSOM PANELS
C. SHORT SIDE PICTURE FRAME PANEL

32 WALL PANEL SECTIONS - KIOSK
AK601 1 1/2" = 1'-0"



22 FOOTING DETAIL KIOSK
AK102 AK601 1 1/2" = 1'-0"



12 KIOSK COUNTER
AK301 AK601 1 1/2" = 1'-0"

4/30/2024 10:03:54 AM

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

WALL SECTIONS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02 - 29 - 2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1 1/2" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AK601

ACCESSIBILITY NOTES

ALL ACCESSIBLE CLEARANCE DIMENSIONS GIVEN FROM FACE OF FINISH UNLESS NOTED OTHERWISE.

MEETING MINIMUM REQUIREMENT OF 11B-213.2 EXCEPTION 4.: "WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, 50 PERCENT, BUT NO FEWER THAN ONE, OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL COMPLY WITH SECTION 11B-603." A "CLUSTER" IS DEFINED AS A GROUP OF TOILET ROOMS PROXIMATE TO ONE ANOTHER. GENERALLY, TOILET ROOMS IN A CLUSTER ARE WITHIN SIGHT OF, OR ADJACENT TO, ONE ANOTHER. THIS DEISN ADHERS AND MEETS THE DEFINITION OF A CLUSTER AND ARE PROVIDING 3 OUT 5 STALLS TO MEET 11B-603 AS NOTED.

REFER TO DETAIL 12/G-103 FOR ACC. LAVATORY REQUIREMENTS

REFER TO DETAIL 13/G-103FOR ACC. RESTROOM ACCESSORIES

REFER TO DETAIL 12/G-104 FOR ACC. TOILET REQUIREMENTS

REFER TO DETAIL 21/G-103 FOR KICK PLATE REQUIREMENTS

REFER TO DETAIL 23/G-103 FOR ACC. RESTROOM SYMBOL REQUIREMENTS

REFER TO DETAIL 33/G-103 FOR ACC. REACH RANGES

REFER TO DETAIL 13/G-104 FOR ACC. TURNING SPACE REQUIREMENTS

REFER TO DETAIL 41/G-103 FOR ACC. DOOR REQUIREMENTS

REFER TO DETAIL 23/G-104 FOR ACC. DOOR/ENTRY CLEARANCES

REFER TO DETAIL 43/G-103 FOR TOE/KNEE CLEARANCES

REFER TO DETAIL 23/23/G-104 FOR CLEARANCES AT DOORS & GATES

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
6. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
7. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU UNLESS SPECIFICALLY NOTED OTHERWISE.
8. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. FLOOR TO SLOPE TO DRAIN AT 1/4" :1" MAX. SLOPE

KEYNOTES

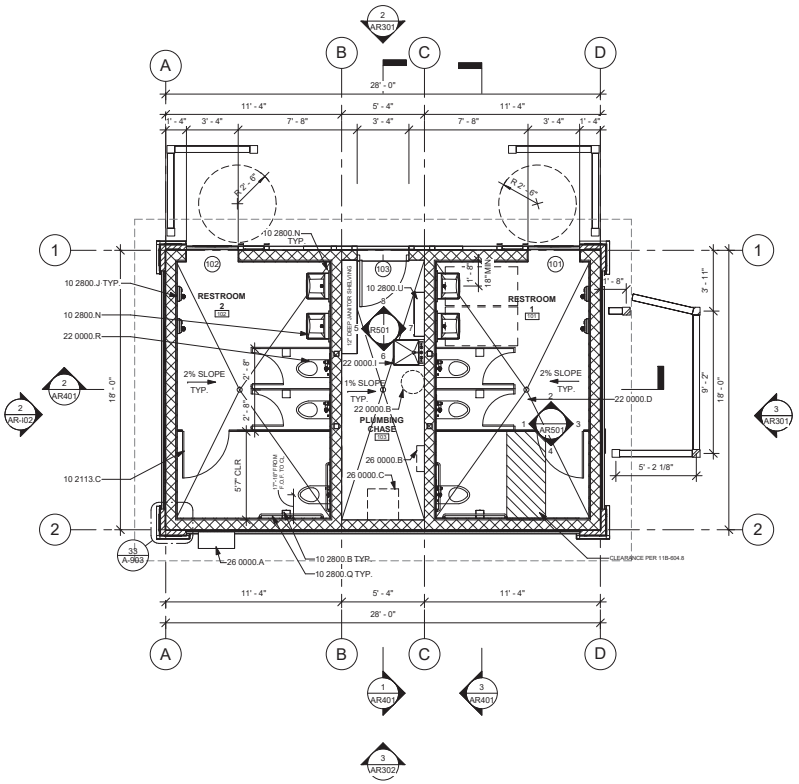
10 2113.C	TOILET PARTITION
10 2800.B	SURFACE MOUNTED TOILET PAPER DISPENSER
10 2800.J	WALL-MOUNTED ELECTRIC HAND DRYER
10 2800.N	MIRROR
10 2800.Q	WALL-MOUNTED GRAB BAR
10 2800.U	MOP RACK
22 0000.B	WATER HEATER. REFER TO PLUMBING
22 0000.D	FLOOR DRAIN. MINIMUM 1/4"-1' SLOPE. REFER TO PLUMBING
22 0000.I	MOP SINK. REFER TO PLUMBING
22 0000.R	WALL MOUNTED TOILET. REFER TO PLUMBING
26 0000.A	SURFACE MOUNTED ELECTRIC METER. PROVIDE RAW CABINET FOR CUSTOM PAINTED FIELD FINISH TO MATCH BRICK COLOR. COLRO TO BE SELECTED BY ARCHITECT. REFER TO ELECTRICAL
26 0000.B	SURFACE MOUNTED PANELBOARD. REFER TO ELECTRICAL
26 0000.C	WALL MOUNTED DATA CABINET. REFER TO ELECTRICAL

WALL LEGEND

INTERIOR- 7 5/8" C.M.U.

EXTERIOR- 7 5/8" C.M.U. W/ BRICK VENEER, METAL PANEL, OR, METAL PANLE OVER 4" METAL FURRING CHANNEL.

EXTERIOR- 6" METAL STUD, UNFINISHED INTERIOR. METAL PANEL OR BRICK VENEER EXTERIOR.

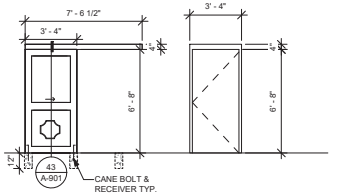


1 GROUND FLOOR PLAN - RESTROOM
AR301 AR101 1/4" = 1'-0"

DOOR SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	SIGNAGE	HARDWARE
101	A	3' - 4"	6' - 8"	1, 3	1
102	A	3' - 4"	6' - 8"	1, 4	1
103	B	3' - 0"	6' - 8"	2	2

EXTERIOR DOOR TYPES



A. SLIDING DOOR

B. HOLLOW METAL DOOR AND FRAME

DOOR NOTES

1. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
3. ALL DOOR HARDWARE TO HAVE LEVER HANDLES AND COMPLY WITH DETAIL 41/G-103
4. SEE DOOR SCHEDULE FOR SIGN SCHEDULE. REFER TO DETAILS 23/G-103 FOR ROOM IDENTIFICATION SYMBOL LOCATION.
5. ALL THRESHOLDS SHALL COMPLY WITH DETAIL 42/G-103.
6. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
7. THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
8. ALL GLAZING WITHIN 24" OF DOOR JAMB TO BE TEMPERED PER CBC 2406.4.2

DOOR SIGNAGE

1. RESTROOM & ACCESSIBILITY SIGNAGE.
2. MAINTENANCE
3 WOMENS
4. MENS

NOTE: VERIFY DOOR SIGNAGE WORDING WITH CITY AND ARCHITECT PRIOR TO ORDERING AND INSTALLATION

DOOR HARDWARE

NOTE: REFER TO SPECIFICATION 08 710O FOR DOOR HARDWARE GROUPS

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

FLOOR PLAN & DOOR SCHEDULE

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02 - 28 - 2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR101

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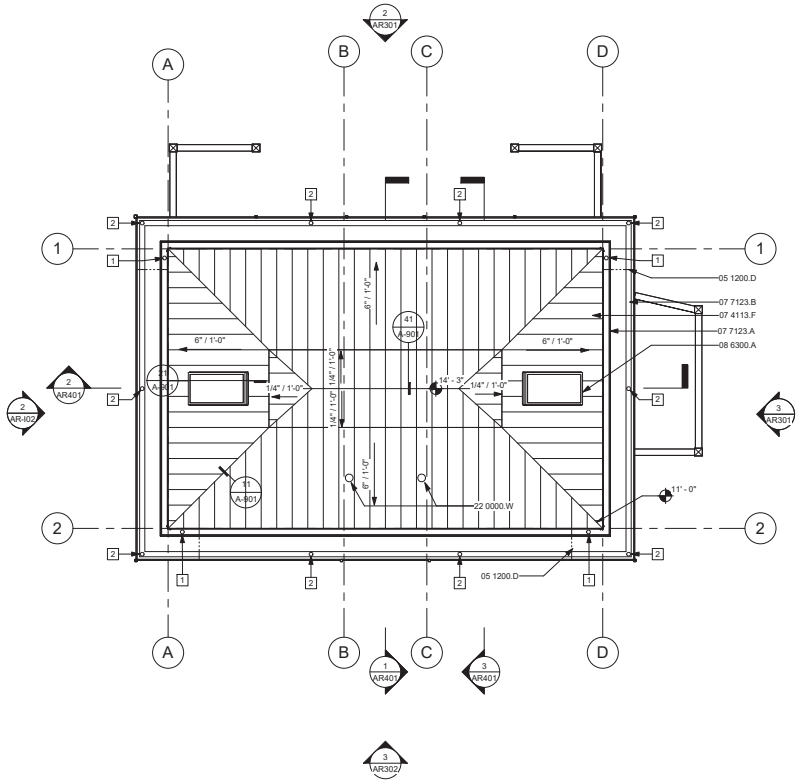

1 ROOF PLAN - RESTROOM
AR301 AR102 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
2. REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION.

KEYNOTES

05 1200.D	C-CHANNEL OUTLOOKER IN LOWER CANOPY FRAMING. REFER TO STRUCTURAL
07 4113.F	STANDING SEAM METAL ROOF
07 7123.A	GUTTER
07 7123.B	INTERNAL GUTTER
08 6300.A	METAL FRAMED SKYLIGHT
22 0000.W	STACK VENT. LOCATE ON SOUTH SLOPE OF ROOF. REFER TO PLUMBING

LEGEND

10'-0"	HEIGHT OF TOP OF ROOFING SURFACE (INCLUDING CRICKETS AND INSULATION)
1/2":1'-0"	ROOF SLOPE
	STANDING SEAM ROOF
1	IN WALL RAIN WATER LEADER SCHEDULE 40 PIPE TO BRASS COWS TOUNGE SCUPPER
2	THROUGH ROOF DOWNSPOUT EXTEND 1" BELOW SOFFIT
3	DOWNSPOUT TO ROOF BELOW

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

ROOF PLAN

SHEET TITLE:

LICENSED ARCHITECT
C-38079
12 - 20 - 2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR102

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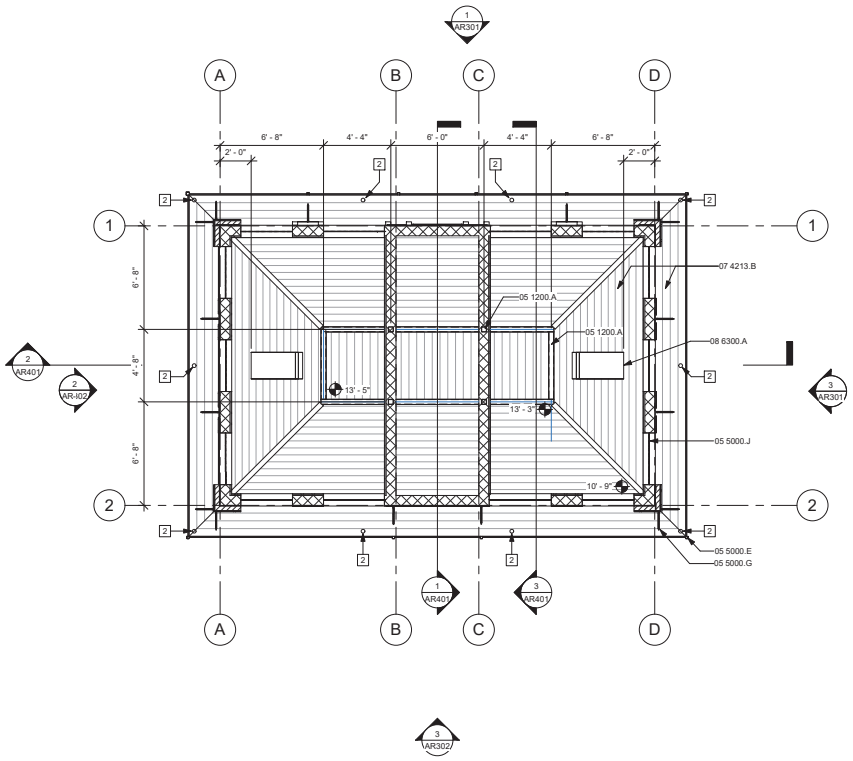

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND LOCATIONS OF ELECTRICAL OUTLETS
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING, AND FLOOR FINISH INFORMATION.
5. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
6. STANDARD MOUNTING HEIGHTS OF RESTROOM ACCESSORIES AND PLUMBING FIXTURES TO FOLLOW THE ACCESSIBILITY STANDARDS.
7. REFER TO ACCESSIBILITY DETAILS FOR ACCESSIBILITY REQUIREMENTS AT PUBLIC RESTROOM.

KEYNOTES

05 1200.A	STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
05 5000.E	CUSTOM OVERHANG METAL DETAIL
05 5000.G	CUSTOM OVERHANG METAL SUPPORT BRACKET
05 5000.J	CUSTOM METAL VENT SCREEN
07 4213.B	METAL WALL PANEL
08 6300.A	METAL FRAMED SKYLIGHT

LEGEND

10'-0"	CEILING HEIGHT
	LINEAR METAL SOFFIT
1	IN WALL DOWN SPOUT SCHEDULED PIPE TO COWS TOUNGE SCUPPER
2	THROUGH ROOF DOWNSPOUT EXTEND 1" BELOW SOFFIT
3	DOWNSPOUT TO ROOF BELOW

1 RESTROOM REFLECTED CEILING PLAN

AR301 AR103 1/4" = 1'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

REFLECTED CEILING PLAN

SHEET TITLE:

LICENSED ARCHITECT
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR103

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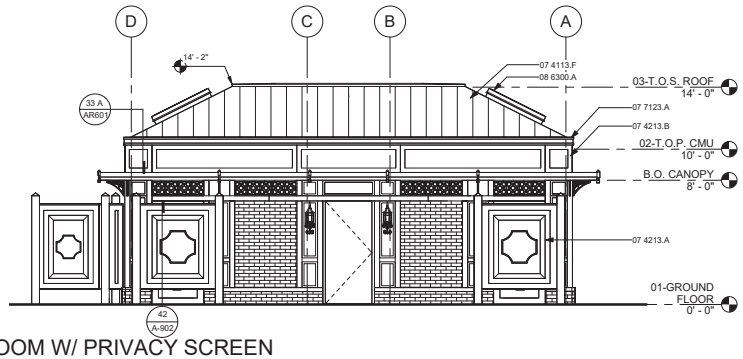
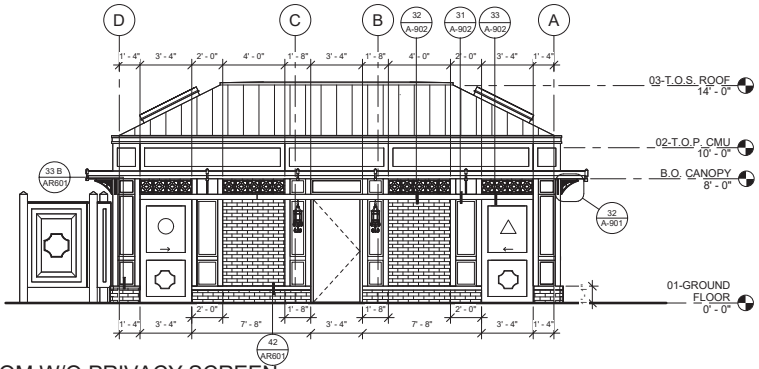


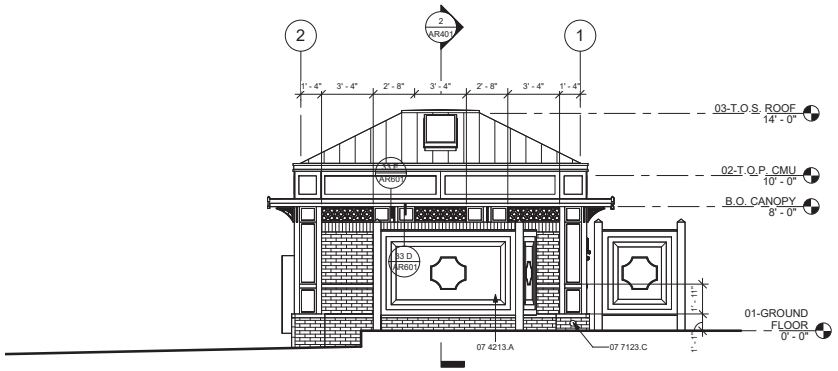
1 NORTH ELEVATION - RESTROOM W/ PRIVACY SCREEN

AR103|AR301 1/4" = 1'-0"



2 NORTH ELEVATION - RESTROOM W/O PRIVACY SCREEN

AR101|AR301 1/4" = 1'-0"



3 EAST ELEVATION - RESTROOM W/ TRASH ENCLOSURE

AR101|AR301 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND LOCATIONS OF ELECTRICAL OUTLETS
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING, AND FLOOR FINISH INFORMATION.
5. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
6. STANDARD MOUNTING HEIGHTS OF RESTROOM ACCESSORIES AND PLUMBING FIXTURES TO FOLLOW THE ACCESSIBILITY STANDARDS.
7. REFER TO ACCESSIBILITY DETAILS FOR ACCESSIBILITY REQUIREMENTS AT PUBLIC RESTROOM.

KEYNOTES

07 4113.F	STANDING SEAM METAL ROOF
07 4213.A	METAL WALL PANEL W/ SURFACE APPLIED MEDALLION
07 4213.B	METAL WALL PANEL
07 7123.A	GUTTER
07 7123.C	SCUPPER
08 6300.A	METAL FRAMED SKYLIGHT

LEGEND

BRICK VENEER

STANDING SEAM METAL ROOF

METAL WALL PANELS

CITY OF SAN LUIS OBISPO

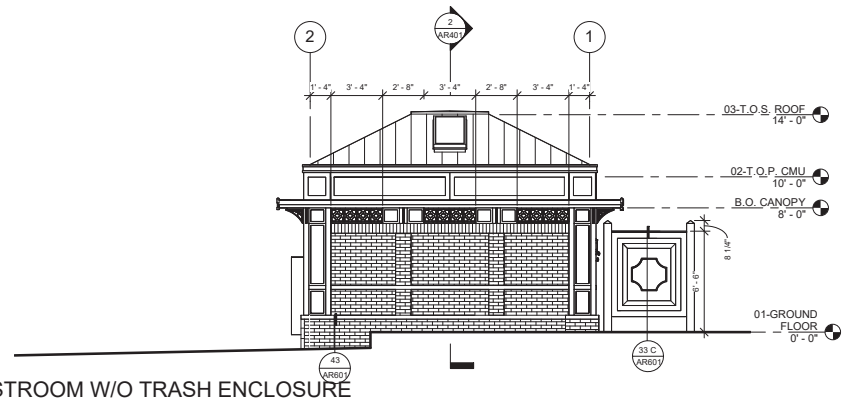
PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
EXTERIOR ELEVATIONS

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

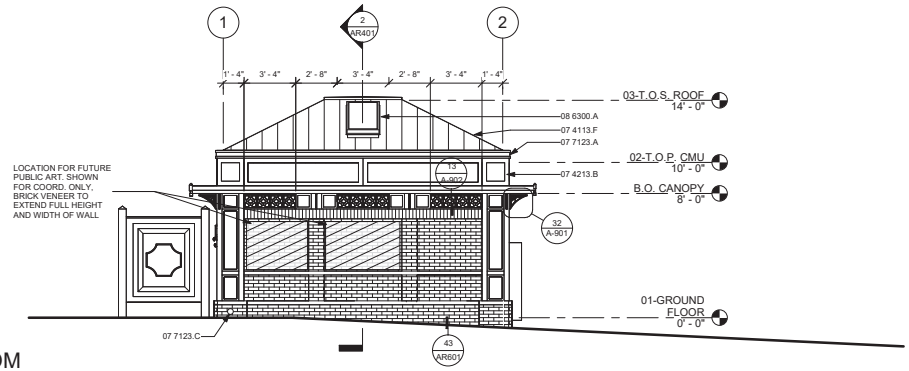
DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR301

4/29/2024 10:03:59 AM



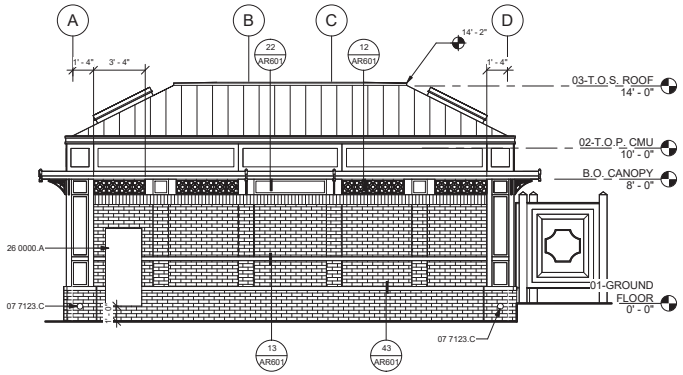
1 EAST ELEVATION - RESTROOM W/O TRASH ENCLOSURE

AR101|AR302 1/4" = 1'-0"



2 WEST ELEVATION - RESTROOM

AR101|AR302 1/4" = 1'-0"



3 SOUTH ELEVATION - RESTROOM

AR101|AR302 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND LOCATIONS OF ELECTRICAL OUTLETS
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING, AND FLOOR FINISH INFORMATION.
5. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
6. STANDARD MOUNTING HEIGHTS OF RESTROOM ACCESSORIES AND PLUMBING FIXTURES TO FOLLOW THE ACCESSIBILITY STANDARDS.
7. REFER TO ACCESSIBILITY DETAILS FOR ACCESSIBILITY REQUIREMENTS AT PUBLIC RESTROOM.

KEYNOTES

07 4113.F	STANDING SEAM METAL ROOF
07 4213.B	METAL WALL PANEL
07 7123.A	GUTTER
07 7123.C	SCUPPER
08 6300.A	METAL FRAMED SKYLIGHT
26 0000.A	SURFACE MOUNTED ELECTRIC METER. PROVIDE RAW CABINET FOR CUSTOM PAINTED FIELD FINISH TO MATCH BRICK COLOR. COLRO TO BE SELECTED BY ARCHITECT. REFER TO ELECTRICAL

LEGEND

BRICK VENEER

STANDING SEAM METAL ROOF

METAL WALL PANELS

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

EXTERIOR ELEVATIONS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12-31-2025
RENEWAL DATE
STATE OF CALIFORNIA

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APPROVED BY:	KH
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CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR302

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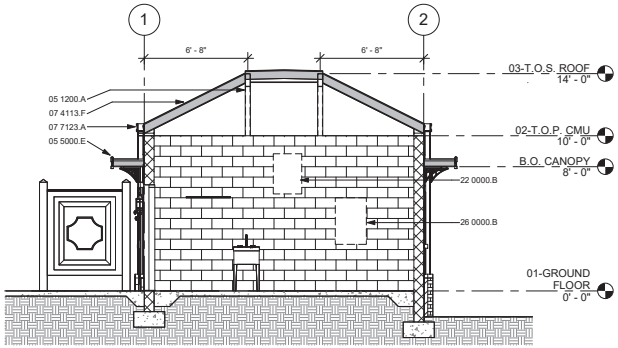
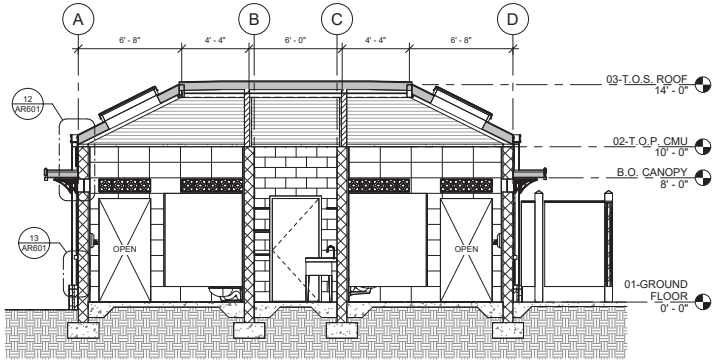


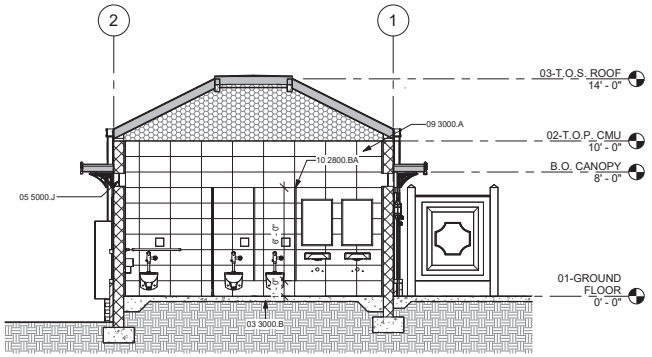
1 BUILDING SECTION 1

AR101|AR401 1/4" = 1'-0"



2 BUILDING SECTION 2

AR101|AR401 1/4" = 1'-0"



3 BUILDING SECTION 3

AR101|AR401 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND LOCATIONS OF ELECTRICAL OUTLETS
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING, AND FLOOR FINISH INFORMATION.
5. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
6. STANDARD MOUNTING HEIGHTS OF RESTROOM ACCESSORIES AND PLUMBING FIXTURES TO FOLLOW THE ACCESSIBILITY STANDARDS.
7. REFER TO ACCESSIBILITY DETAILS FOR ACCESSIBILITY REQUIREMENTS AT PUBLIC RESTROOM.

KEYNOTES

03 3000.B	CONCRETE SLAB, REFER TO STRUCTURAL
05 1200.A	STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
05 5000.E	CUSTOM OVERHANG METAL DETAIL
05 5000.J	CUSTOM METAL VENT SCREEN
07 4113.F	STANDING SEAM METAL ROOF
07 7123.A	GUTTER
09 3000.A	CERAMIC TILE, WALL APPLICATION
10 2800.BA	FLOOR-MOUNTED TOILET PARTITION
22 0000.B	WATER HEATER. REFER TO PLUMBING
26 0000.B	SURFACE MOUNTED PANELBOARD. REFER TO ELECTRICAL

LEGEND

4" METAL STUD

7 5/8" CONCRETE MASONRY UNITS

CMU WALL FACE PER WALL TYPE

PERFORATED METAL PANEL

TILE PER 23/A901

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

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BUILDING SECTIONS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
02-28-2025
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CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR401

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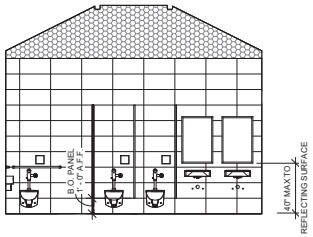
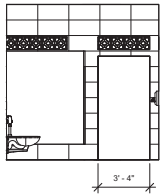
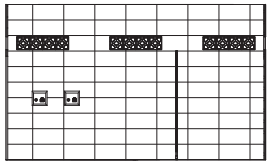


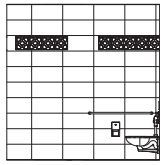
1 RESTROOM 1 - EAST
AR101|AR501 1/4" = 1'-0"



2 RESTROOM 1 - SOUTH
AR101|AR501 1/4" = 1'-0"

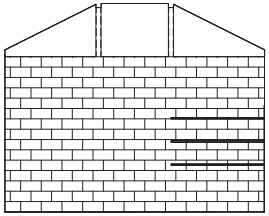


3 RESTROOM 1 - WEST
AR101|AR501 1/4" = 1'-0"

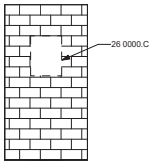


4 RESTROOM 1 - NORTH
AR101|AR501 1/4" = 1'-0"

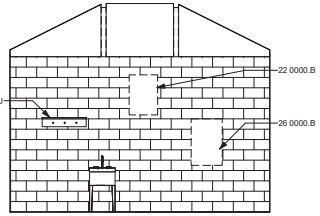
NOTE: RESTROOM 2 - SIMILAR, OPPOSITE HAND



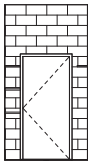
5 CHASE EAST
AR101|AR501 1/4" = 1'-0"



6 CHASE - SOUTH
AR101|AR501 1/4" = 1'-0"



7 CHASE - WEST
AR101|AR501 1/4" = 1'-0"



8 CHASE NORTH
AR101|AR501 1/4" = 1'-0"

GENERAL NOTES

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KEYNOTES

10 2800.U	MOP RACK
22 0000.B	WATER HEATER. REFER TO PLUMBING
26 0000.B	SURFACE MOUNTED PANELBOARD. REFER TO ELECTRICAL
26 0000.C	WALL MOUNTED DATA CABINET. REFER TO ELECTRICAL

LEGEND

CMU

PERFORATED METAL PANEL, PAINTED

EXPOSED STUDS TYP.
NOTE: STUDS NOW SHOWN FOR CLARITY

TILE PER 23/A-901

CITY OF SAN LUIS OBISPO

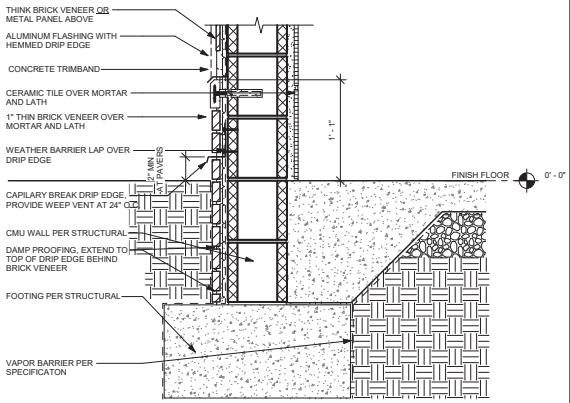
PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
INTERIOR ELEVATIONS

LICENSED ARCHITECT
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

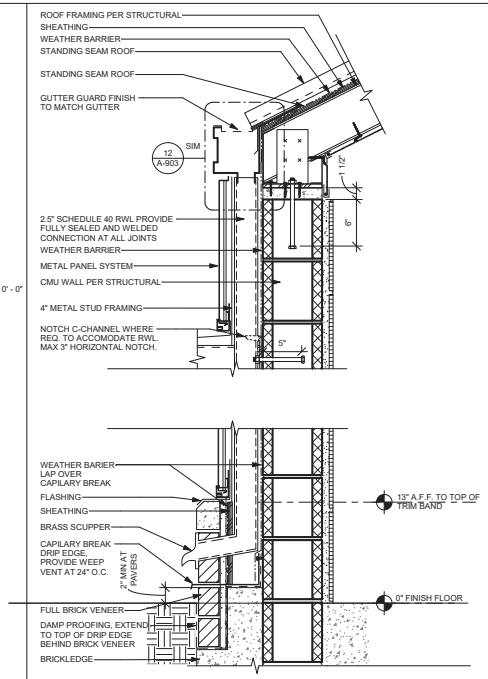
DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	1/4" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR501

4/29/2024 10:04:02 AM

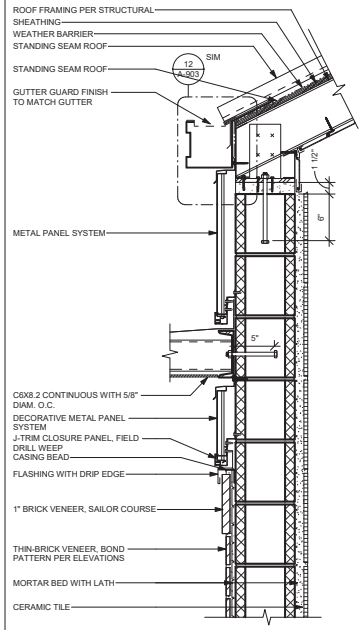


NOTE: AT NORTH ELEVATION, BRICK VENEER AND CONCRETE TRIM BEHIND SLIDING DOOR SHALL NOT EXCEED 2" IN THICKNESS

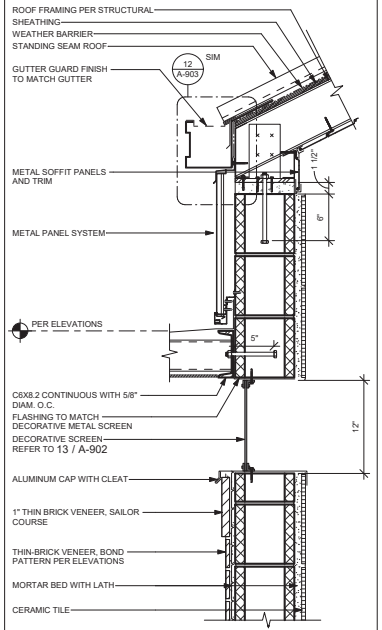
42 AR301 AR601 — FOOTING DETAIL AT FRONT OF RESTROOM
1 1/2" = 1'-0"



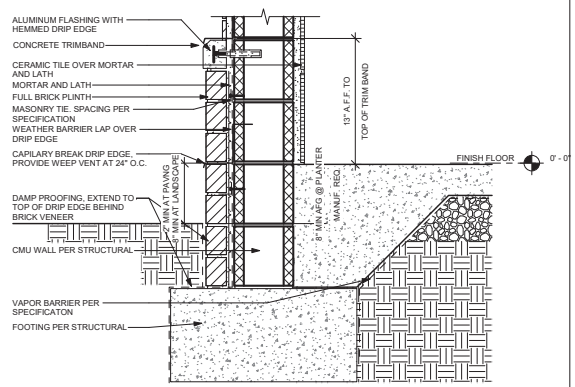
32 AR601 — WALL SECTION W/ RAINWATER PIPE
1 1/2" = 1'-0"



22 AR302 AR601 — WALL SECTION W/ METAL PANEL
1 1/2" = 1'-0"

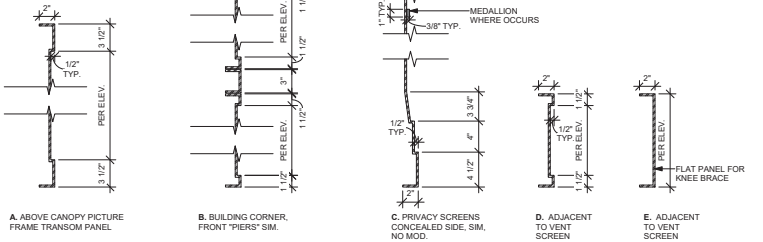


12 AR302 AR601 — TYP. WALL SECTION W/ SCREEN
1 1/2" = 1'-0"



43 AR302 AR601 — FOOTING DETAIL RESTROOM
1 1/2" = 1'-0"

NOTE: WHERE "PICTURE FRAME" METAL WALL PANELS OCCUR NOT SPECIFICALLY DETAILED HERE, CONTRACTOR TO ASSUME 90° CORNER & 1/2" RECESS.



A. ABOVE CANOPY PICTURE FRAME TRANSOM PANEL

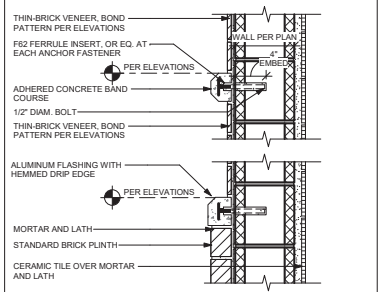
B. BUILDING CORNER, FRONT "PIERS" SIM.

C. PRIVACY SCREENS CONCEALED SIDE, SIM, NO MOD.

D. ADJACENT TO VENT SCREEN

E. ADJACENT TO VENT SCREEN

33 AR601 — WALL PANEL SECTIONS - RESTROOM
1 1/2" = 1'-0"



13 AR302 AR601 — PLINTH DETAIL
1 1/2" = 1'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

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WALL SECTIONS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12-31-2025
DATE
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DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	AR601

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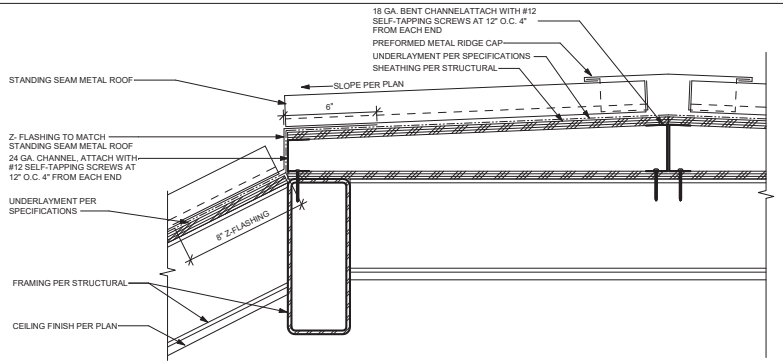
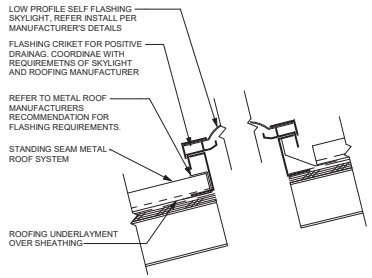
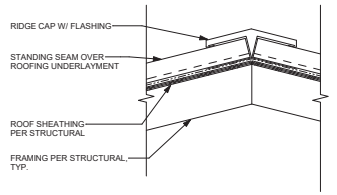


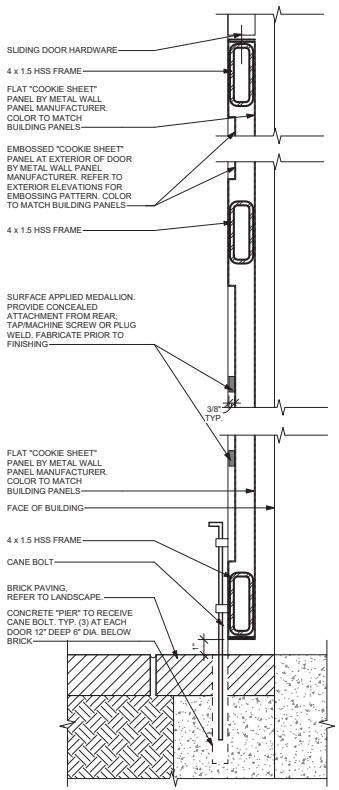
41 ROOF RIDGE DETAIL
AR102 A-901 3" = 1'-0"



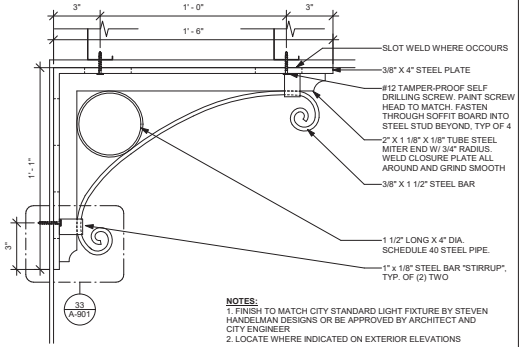
21 SKYLIGHT - STANDING SEAM
AR102 A-901 1 1/2" = 1'-0"



11 ROOF RIDGE - STANDING SEAM
AK102 A-901 1 1/2" = 1'-0"

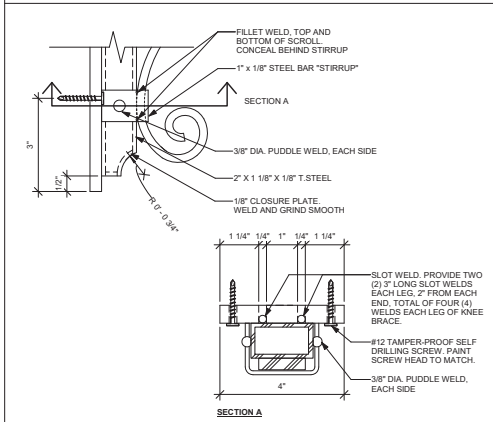


43 SLIDING DOOR DETAIL
A-901 3" = 1'-0"



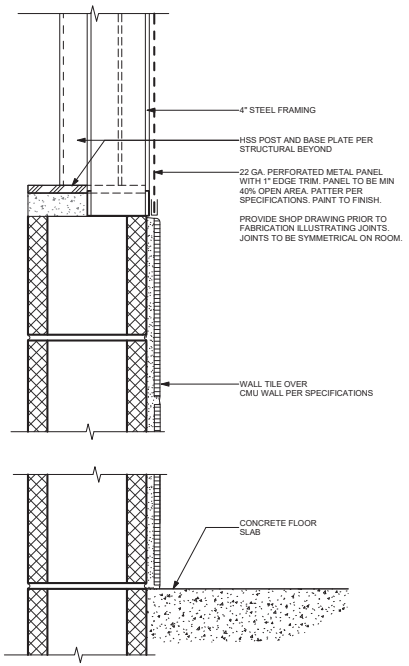
NOTES:
1. FINISH TO MATCH CITY STANDARD LIGHT FIXTURE BY STEVEN HANDELMAN DESIGNS OR BE APPROVED BY ARCHITECT AND CITY ENGINEER
2. LOCATE WHERE INDICATED ON EXTERIOR ELEVATIONS

32 DECORATIVE ROOF KNEE BRACE
AR301 A-901 3" = 1'-0"

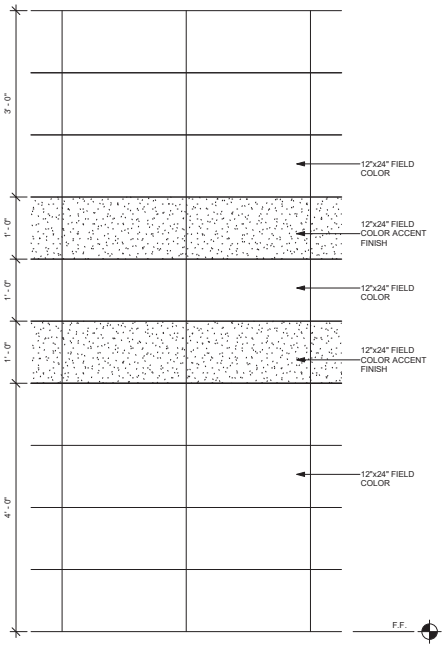


SECTION A

33 KNEE BRACE CONNECTION DETAILS
A-901 A-901 6" = 1'-0"



23 CERAMIC TILE-FLOOR AND WAINSCOT
A-901 3" = 1'-0"



13 TILE WAINSCOT PATTERN
A-901 1" = 1'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

DETAILS

PROJECT TITLE:

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Kathryn Hurd
C-38079
12 - 20 - 2025
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APPROVED BY:	KH
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DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	A-901

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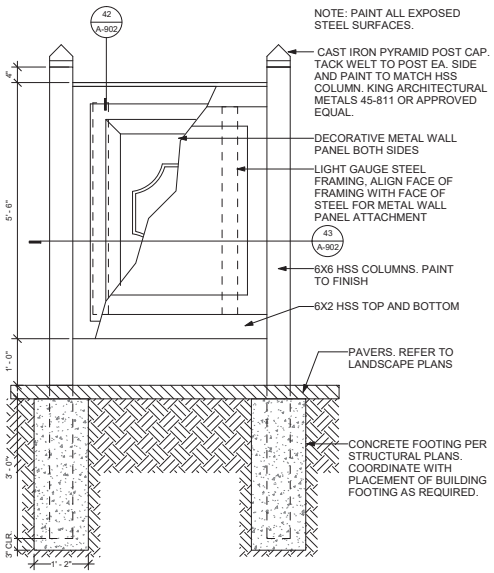
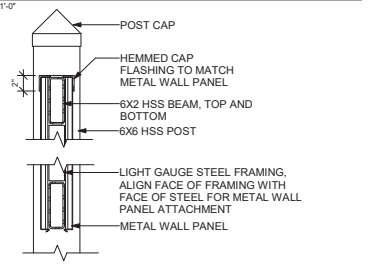
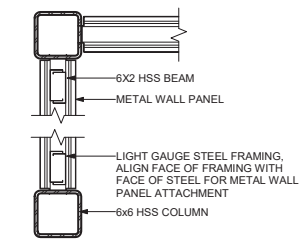


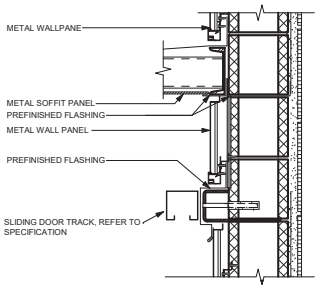
41 PRIVACY SCREEN ELEVATION
A-902 3/4" = 1'-0"



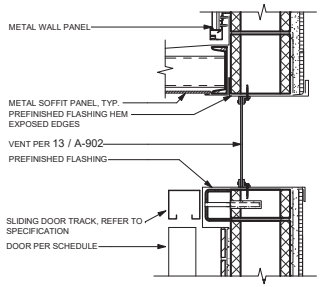
42 PRIVACY SCREEN VERTICAL SECTION
A-902 A-902 1 1/2" = 1'-0"



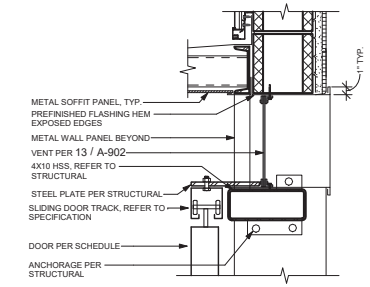
43 PRIVACY SCREEN HORIZONTAL SECTION
A-902 A-902 1 1/2" = 1'-0"



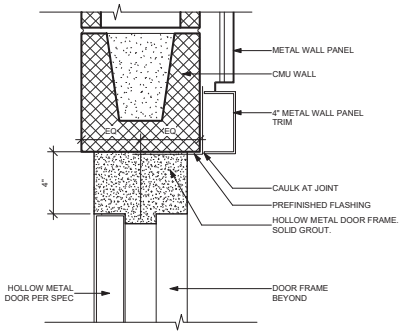
31 VENT SCREEN @ METAL PANELS
AR301 A-902 1 1/2" = 1'-0"

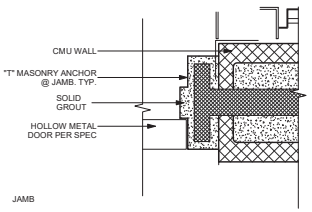


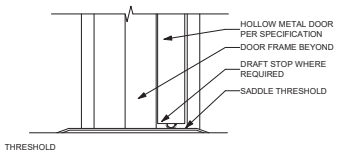
32 VENT SCREEN @BRICK WALL
AR301 A-902 1 1/2" = 1'-0"



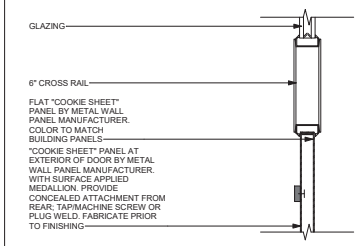
33 VENT SCREEN @DOOR
AR301 A-902 1 1/2" = 1'-0"



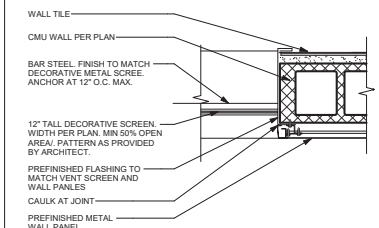




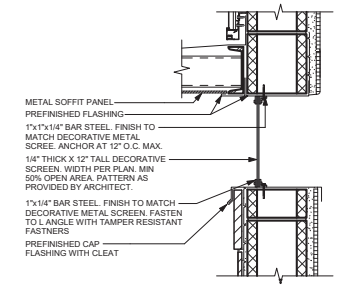
23 TYP. DOOR @ CMU WALL
A-902 3" = 1'-0"



11 STOREFRONT DOOR - CROSS RAIL
AK101 A-902 3" = 1'-0"



12 VENT SCREEN JAMB
A-902 1 1/2" = 1'-0"



13 VENT SCREEN
AR302 A-902 1 1/2" = 1'-0"

4/30/2024 10:03:35 AM

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

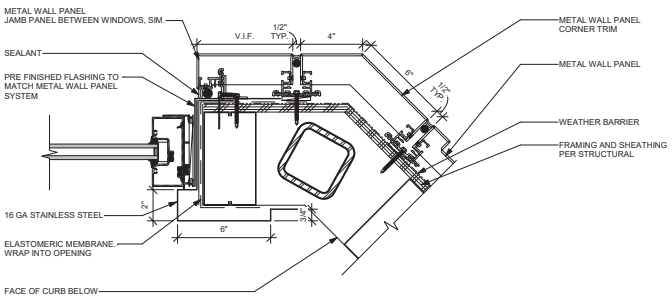
PROJECT TITLE:

DETAILS

SHEET TITLE:

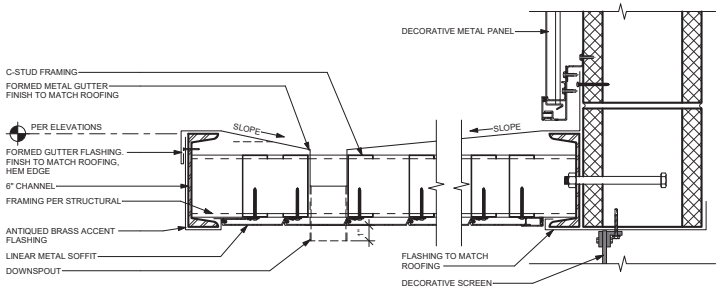
LICENSED ARCHITECT
Kathryn Hurd
C-38079
02-28-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	A-902



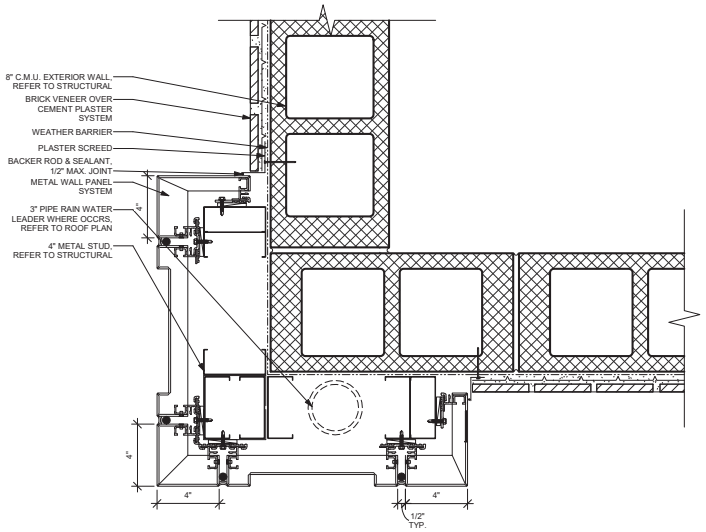
31 BUILDING CORNER - KIOSK

AK101 A-903 3" = 1'-0"



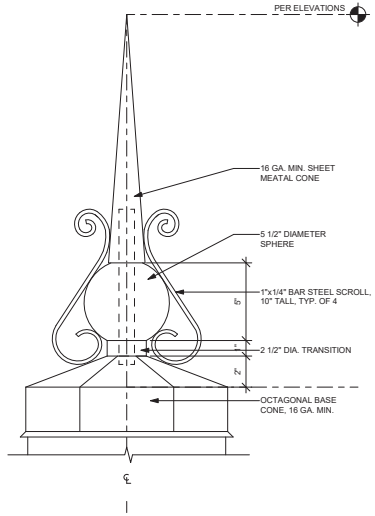
21 CANOPY FRAMING

AK102 A-903 3" = 1'-0"



33 BUILDING CORNER - RESTROOM

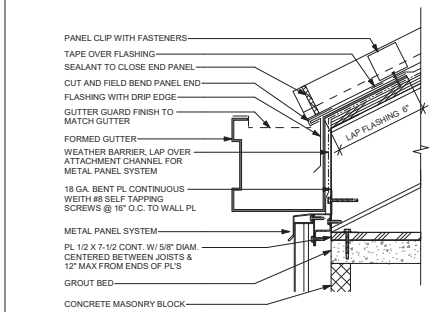
AR101 A-903 3" = 1'-0"



NOTES:
FINISH TO MATCH BUILDING ROOFING OR CITY STANDARD LIGHT FIXTURE BY STEVEN HANDELMAN DESIGNS. FINISH TO BE APPROVED BY ARCHITECT AND CITY ENGINEER PRIOR TO FABRICATION.

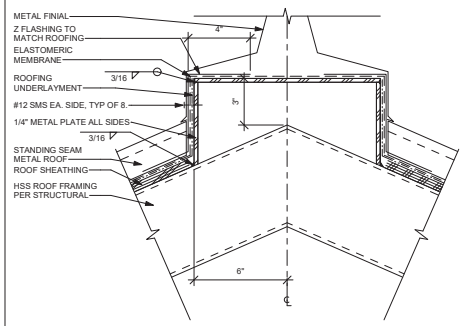
23 ROOF - FINIAL - KIOSK

A-903 3" = 1'-0"



12 GUTTER

AK601 A-903 3" = 1'-0"



13 STANDING SEAM ROOF - RIDGE - KIOSK

AK102 A-903 3" = 1'-0"

4/30/2024 10:03:35 AM

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

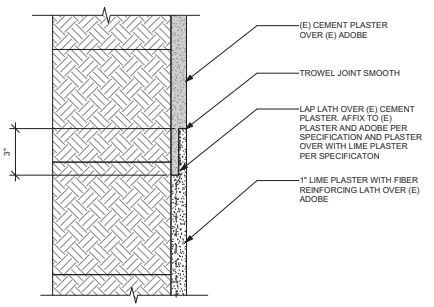
PROJECT TITLE:

DETAILS

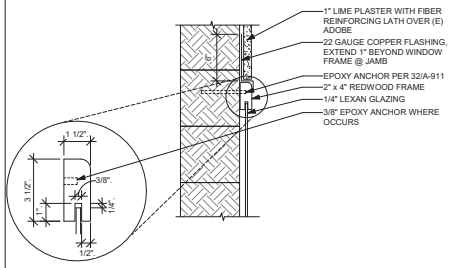
SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12-31-2025
DATE
STATE OF CALIFORNIA

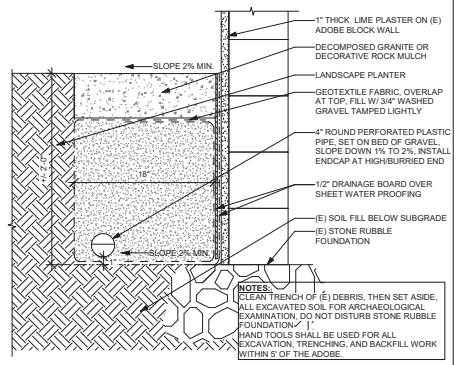
DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	3" = 1'-0"
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	A-903



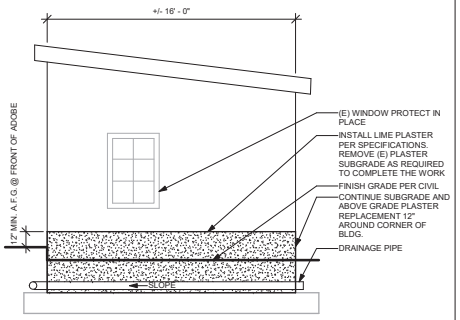
31 ADOBE PLASTER JOINT
A-911 A-911 3" = 1'-0"



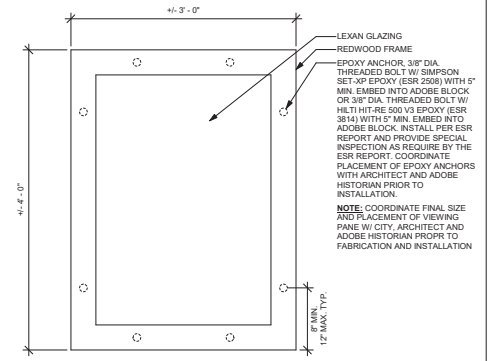
21 ADOBE WINDOW FRAME - HEAD
A-911 A-911 1 1/2" = 1'-0"



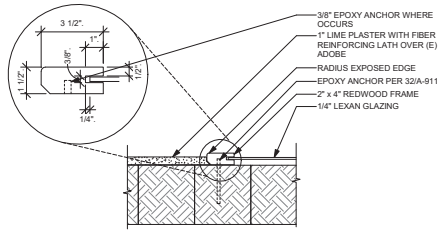
11 ADOBE FDN. DRAINAGE @ PLANTER
A-911 1 1/2" = 1'-0"



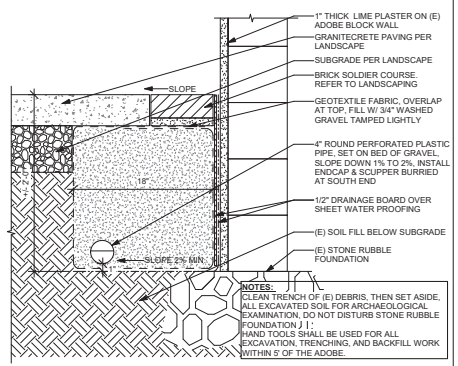
42 ADOBE WALL SOUTH ELEVATION
A-911 1/4" = 1'-0"



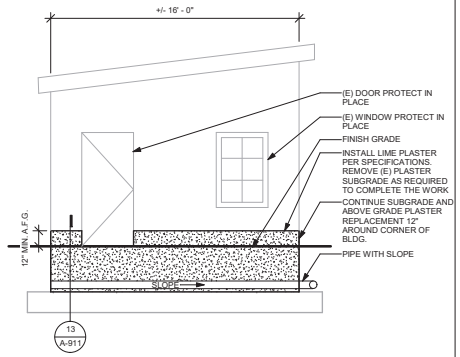
32 ADOBE WINDOW FRAME - EPOXY ANCHORS
A-911 1 1/2" = 1'-0"



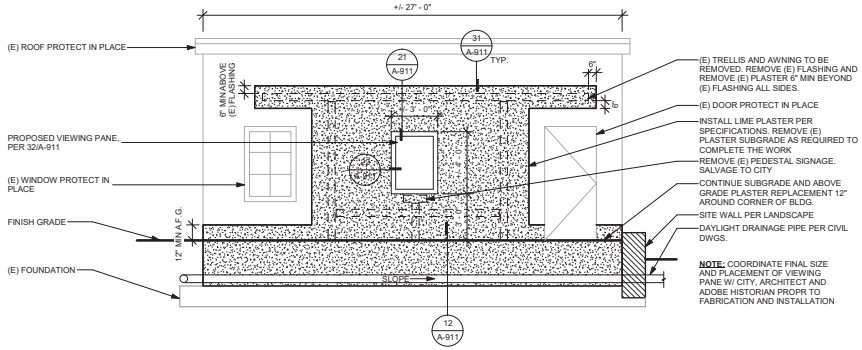
22 ADOBE WINDOW FRAME - JAMB
A-911 A-911 1 1/2" = 1'-0"



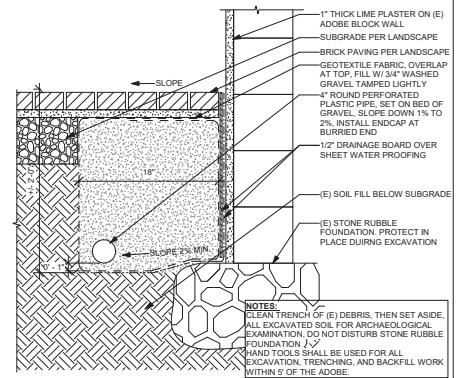
12 ADOBE FDN. DRAINAGE @ GRANICRETE PAVING
A-911 A-911 1 1/2" = 1'-0"



43 ADOBE WALL NORTH ELEVATION
A-911 1/4" = 1'-0"



33 ADOBE WALL WEST ELEVATION
A-911 1/4" = 1'-0"



13 ADOBE FDN. DRAINAGE @ BRICK PAVERS
A-911 A-911 1 1/2" = 1'-0"

4/30/2024 10:03:56 AM

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

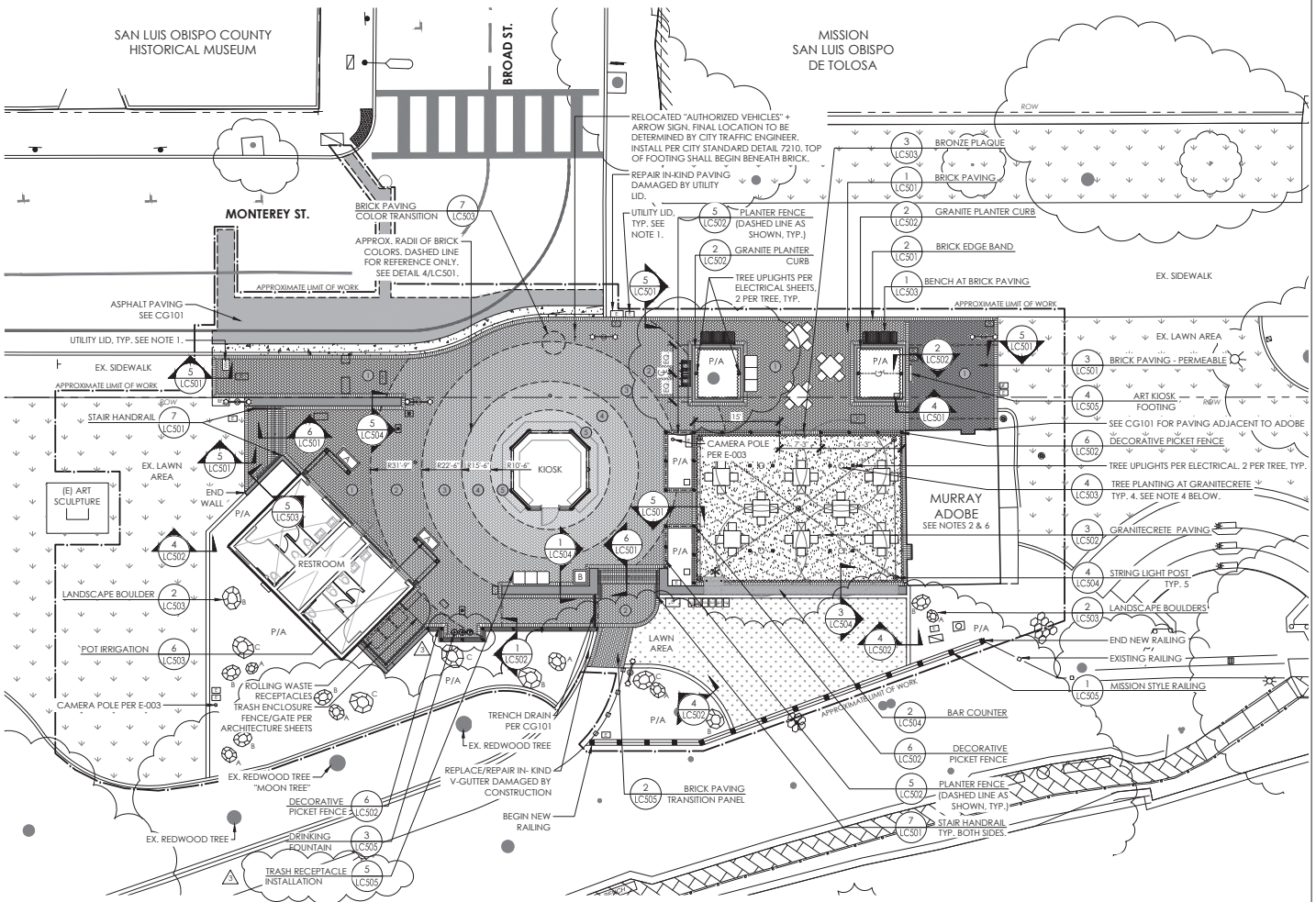
PROJECT TITLE:

ADOBE DETAILS

SHEET TITLE:

LICENSED ARCHITECT
Kathryn Hurd
C-38079
12-31-2025
DATE
STATE OF CALIFORNIA

DESIGNED BY:	DG
DRAWN BY:	DG
CHECKED BY:	KH
APPROVED BY:	KH
SCALE:	As indicated
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	
SHEET NO.	A-911



MATERIALS LEGEND

SYMBOL	DESCRIPTION
	BRICK PAVING TYPE 1 PATTERN: HERRINGBONE COLOR: OLD TOWN RED (SHADING DELINEATES PERMEABLE PAVING)
	BRICK PAVING TYPE 2 PATTERN: HERRINGBONE COLOR: MOUNTAIN ROSE
	BRICK PAVING TYPE 3 PATTERN: HERRINGBONE COLOR: DUSTY ROSE
	BRICK PAVING TYPE 4 PATTERN: HERRINGBONE COLOR: SUMMER WHEAT
	BRICK PAVING TYPE 5 PATTERN: HERRINGBONE COLOR: SUTTER GOLD
	BRICK EDGE BAND COLOR: BURNT ROSE
	GRANITECRETE COLOR: NATURAL GOLD

SYMBOL LEGEND

SYMBOL	DESCRIPTION	DETAIL
	BENCH	1 LC503
	TRIPLE STREAM WASTE RECEPTACLES. SEE NOTE 5.	1 LC503
	MOVEABLE BISTRO TABLE (OWNER FURNISHED, N.I.C.)	
A / B	PLANTER POT TYPE A / PLANTER POT TYPE B	
	POLE LIGHT	SEE E-002
	BIKE RACK	1 LC503
	DRINKING FOUNTAIN/BOTTLE FILLER	3 LC505
	ROOT BARRIER	
	SAWCUT LINE	
LIMIT OF WORK	LIMIT OF WORK	
ROW	RIGHT OF WAY	
P/A	PLANTING AREA	
*	ACCESSIBLE SEATING AT BAR COUNTER	
	EXISTING TREE, SEE TP101	

OCCUPANT LOAD ANALYSIS FOR PATIO

TOTAL PATIO AREA:	955 SF	
OCCUPANT LOAD FACTOR PER CBC 1004.5:	5 SF / PERSON	
TOTAL OCCUPANT LOAD:	191 PERSONS	
191 PERSONS x .2" /PERSON REQ WIDTH = 38.2"	76" PROVIDED	OK
PER CBC1007.1.1: MAXIMUM DIAGONAL DIMENSION OF PATIO	45 FT	
ALLOWABLE DISTANCE APART OF TWO EXITS:	NOT LESS THAN 1/2 OF 45 FT	
DISTANCE APART OF CENTER OF TWO EXITS:	22.6 FT	OK

NOTES

1. CONTRACTOR TO COORDINATE FINAL PLACEMENT OF ALL UTILITY LIDS (ELECTRICAL, WATER, SEWER, ETC.) WITH ASSOCIATED SUBCONTRACTOR AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO SHEET A-911 FOR PRESERVATION WORK TO BE COMPLETED AT THE EXISTING ADOBE.
3. REFER TO SHEET TP101 AND TP501 FOR CONSTRUCTION PRACTICES AT EXISTING/RELOCATED TREES.
4. PROPOSED LARGE BOX SPECIMEN TREES AT GRANITECRETE PATIO SHALL BE INSTALLED PRIOR TO IRRIGATION PIPE AND ELECTRICAL CONDUIT. AFTER INSTALLATION OF TREES CONTRACTOR SHALL CONSULT WITH PROJECT ARBORIST TO CONDUCT AIR SPADE ROOT EXCAVATION TO IDENTIFY ROOTS TO BE PRESERVED. PIPE AND CONDUIT SHALL BE HAND TRENCHED AND NO ROOTS OVER 1" IN DIAMETER SHALL BE SEVERED WITHOUT PERMISSION OF THE PROJECT ARBORIST.
5. PERMANENT TRIPLE STREAM WASTE RECEPTACLES AS SHOWN IN THE LEGEND AND LISTED IN THE TECHNICAL SPECIFICATIONS SHALL BE COLLECTED BY PARKS MAINTENANCE. ROLLING TRIPLE WASTE BINS ADJACENT TO THE RESTROOM SHALL BE COLLECTED BY SAN LUIS GARBAGE.
6. A QUALIFIED HISTORIC ARCHITECT OR ARCHITECTURAL HISTORIAN WITH DEMONSTRATED EXPERIENCE WORKING WITH ADOBE STRUCTURES SHALL BE RETAINED BY THE CITY TO MONITOR AND PROVIDE PROTECTION GUIDANCE FOR ANY WORK IN THE IMMEDIATE VICINITY OF THE PERIMETER OF THE MURRAY ADOBE.

0 10 20 30 feet
1"=10'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

CONSTRUCTION PLAN

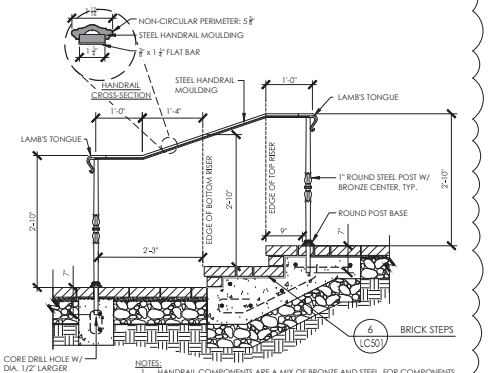
100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

LICENSED LANDSCAPE ARCHITECT MARISA T. PELTIER LIC. #6482 — 8.31.24 — 7.12.23 — STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: LM
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024 24
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: LC101

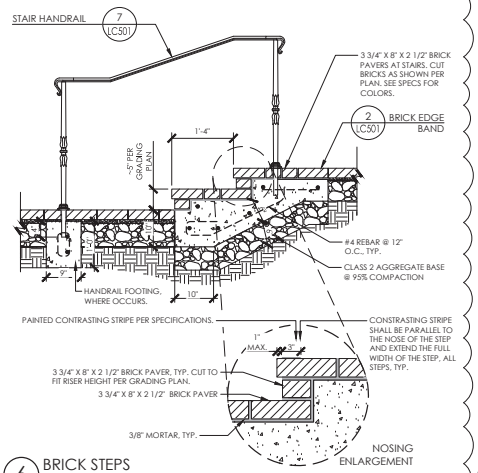


NOTES:

1. HANDRAIL COMPONENTS ARE A MIX OF BRONZE AND STEEL. FOR COMPONENTS THAT HAVE BRONZE ACCENTS MECHANICALLY ATTACHED, BRONZE SHALL BE SEPARATED PRIOR TO SHOP PRIMING. REATTACH PRIOR TO WELDING.
2. PROVIDE CONTINUOUS WELDS ON ALL COMPONENT CONNECTIONS. REMOVE EXCESS SLAG AND GRIND ALL CORNERS SMOOTH.
3. ALL HANDRAIL COMPONENTS THAT ARE STEEL ONLY SHALL BE PAINTED BLACK.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING ALL HANDRAIL COMPONENTS AND LAYOUT PRIOR TO FABRICATION.
5. ALL HANDRAIL COMPONENTS ARE AVAILABLE FROM WWW.JULIUSBLUM.COM. SEE SPECIFICATIONS FOR ITEM NUMBERS.

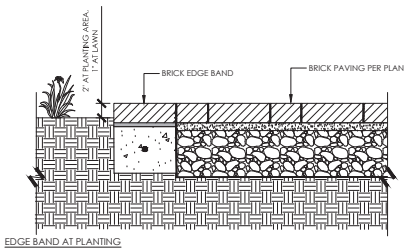
7 STAIR HANDRAIL

3/4" = 1'-0" RRM-0201-MI1-73

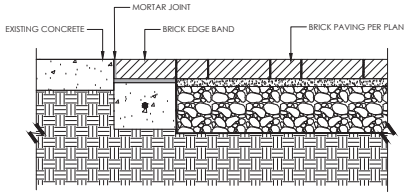


6 BRICK STEPS

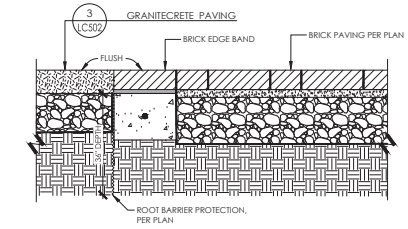
3/4" = 1'-0" RRM-0201-MI1-71



EDGE BAND AT PLANTING



EDGE BAND AT EXISTING CONCRETE

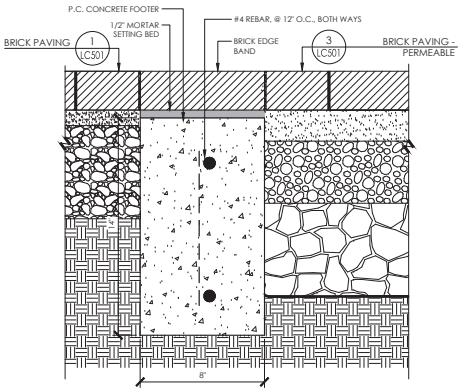


EDGE BAND AT GRANITECRETE

NOTE: CONCRETE FOOTING DEPTH BENEATH EDGE BAND VARIES PER PAVING TYPE.

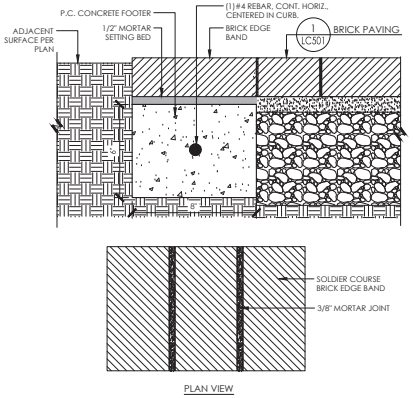
5 BRICK EDGE BAND CONDITIONS

1 1/2" = 1'-0" RRM-0201-MI1-87



4 BRICK EDGE BAND AT PERMEABLE BRICK

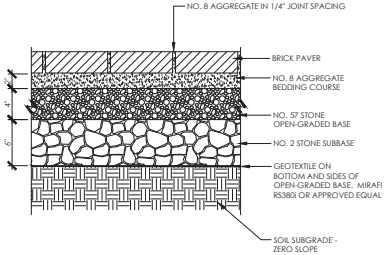
3" = 1'-0" RRM-0201-MI1-117



PLAN VIEW

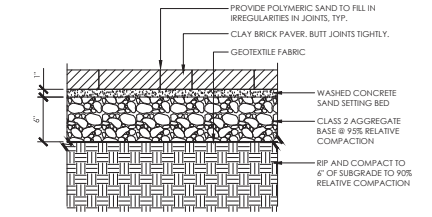
2 BRICK EDGE BAND

3" = 1'-0" RRM-0201-MI1-88



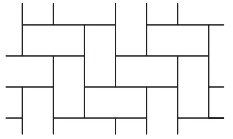
3 BRICK PAVING - PERMEABLE

1 1/2" = 1'-0" RRM-0201-MI1-116



NOTES:

1. TREAT EXISTING SOIL AND BACKFILL PRIOR TO PAVER INSTALLATION WITH GROWTH INHIBITOR.
2. SEAL ALL BRICK PAVING SURFACES WITH SEALER PER SPECIFICATIONS.
3. BRICK PIECES SMALLER THAN 2" ARE NOT PERMITTED FOR PAVING.



PLAN VIEW
HERRINGBONE PATTERN

1 BRICK PAVING

1 1/2" = 1'-0" RRM-0201-MI1-42

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

CONSTRUCTION DETAILS

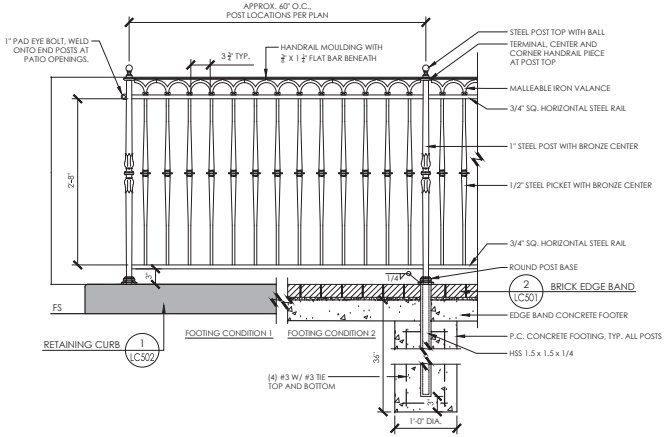
PROJECT TITLE:

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

LICENSED LANDSCAPE ARCHITECT
MELISSA L. PELTIER LIC. #5822
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY:	MARISA PELTIER
DRAWN BY:	MP
CHECKED BY:	LM
APPROVED BY:	MP
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	LC501



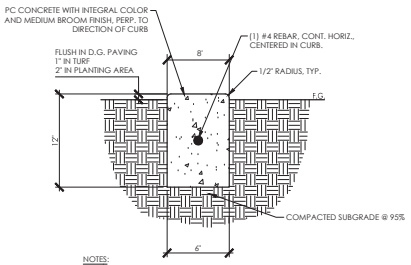
NOTES:

1. FENCE COMPONENTS ARE A MIX OF BRONZE AND STEEL. FOR COMPONENTS THAT HAVE BRONZE ACCENTS MECHANICALLY ATTACHED, BRONZE SHALL BE SEPARATED PRIOR TO SHOP PRIMING. REATTACH PRIOR TO WELDING.
2. PROVIDE CONTINUOUS WELDS ON ALL COMPONENT CONNECTIONS. REMOVE EXCESS SLAG AND GRIND ALL CORNERS SMOOTH.
3. ALL FENCE COMPONENTS THAT ARE STEEL ONLY SHALL BE PAINTED BLACK.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING ALL HANDRAIL COMPONENTS AND LAYOUT PRIOR TO FABRICATION.
5. ALL FENCE COMPONENTS ARE AVAILABLE FROM WWW.JULIUSBLUM.COM. SEE SPECIFICATIONS FOR ITEM NUMBERS.

6 DECORATIVE PICKET FENCE

1" = 1'-0"

RRM-0201-MI1-82



NOTES:

A. PROVIDE CONTRACTION JOINT EVERY 10' MAX.

B. PROVIDE EXPANSION JOINT EVERY 20' MAX.

C. SPACE JOINTS EVENLY BETWEEN BEGINNING AND END POINTS.

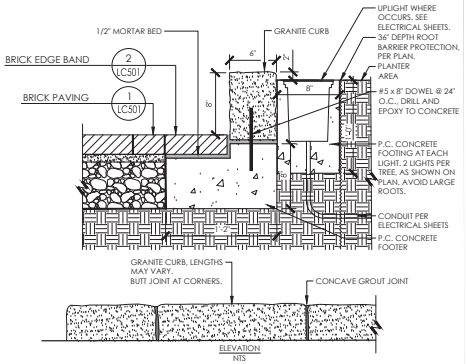
D. TOP OF MOW CURB TO BE FLUSH WITH ADJACENT PAVING.

E. INTEGRAL COLOR SHALL BE CITY OF SLO STANDARD; DAVIS COLORS, ADOBE 61078.

4 8" MOW CURB

1 1/2" = 1'-0"

RRM-0201-MI1-61



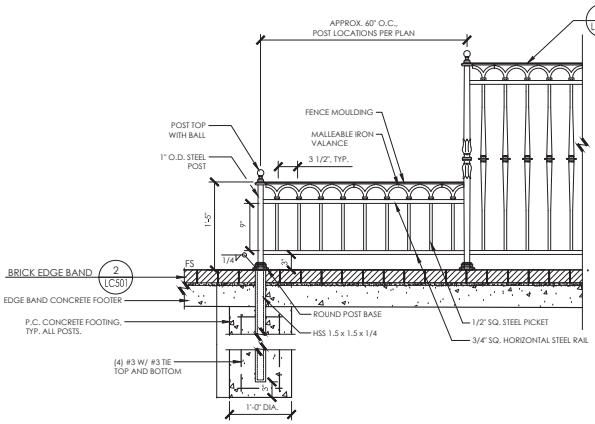
NOTES:

1. GRANITE CURBS FOR THIS INSTALLATION ARE TO BE HISTORICAL CURBS LOCATED AT THE CITY CORP YARD. CURBS MAY DIFFER IN HEIGHT, LENGTH AND WIDTH. CONTRACTOR TO WORK WITH LANDSCAPE ARCHITECT TO SELECT APPROPRIATE PIECES. GRIND/CHIP/CUT CURBS AS NEEDED TO FORM A COHESIVE CURB INSTALLATION.

2 GRANITE PLANTER CURB

1 1/2" = 1'-0"

RRM-0201-MI1-85



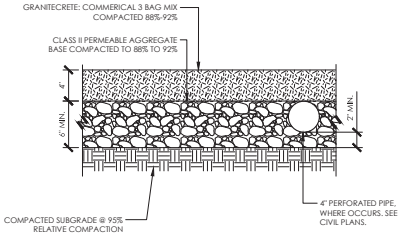
NOTES:

1. FENCE COMPONENTS ARE A MIX OF BRONZE AND STEEL. FOR COMPONENTS THAT HAVE BRONZE ACCENTS MECHANICALLY ATTACHED, BRONZE SHALL BE SEPARATED PRIOR TO SHOP PRIMING. REATTACH PRIOR TO WELDING.
2. PROVIDE CONTINUOUS WELDS ON ALL COMPONENT CONNECTIONS. REMOVE EXCESS SLAG AND GRIND ALL CORNERS SMOOTH.
3. ALL FENCE COMPONENTS THAT ARE STEEL ONLY SHALL BE PAINTED BLACK.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING ALL HANDRAIL COMPONENTS AND LAYOUT PRIOR TO FABRICATION.
5. ALLFENCE COMPONENTS ARE AVAILABLE FROM WWW.JULIUSBLUM.COM. SEE SPECIFICATIONS FOR ITEM NUMBERS.

5 PLANTER FENCE

1" = 1'-0"

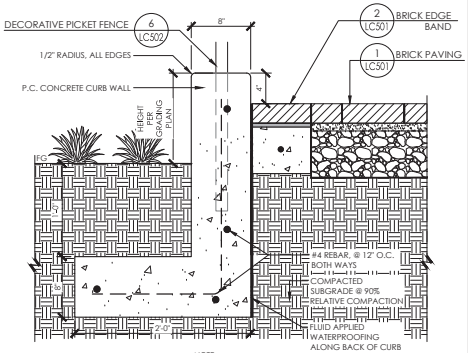
RRM-0201-MI1-107



3 GRANITECRETE PAVING

1 1/2" = 1'-0"

RRM-0201-MI1-26



NOTE:

1. CONCRETE CURB WALL SHALL BE INTEGRAL COLORED, SMOOTH TROWEL FINISH.
2. INTEGRAL COLOR SHALL BE CITY OF SLO STANDARD; DAVIS COLORS, ADOBE 61078.

1 RETAINING CURB

1 1/2" = 1'-0"

RRM-0201-MI1-40

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

CONSTRUCTION DETAILS

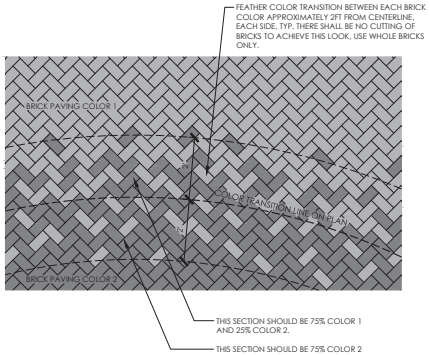
PROJECT TITLE:

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

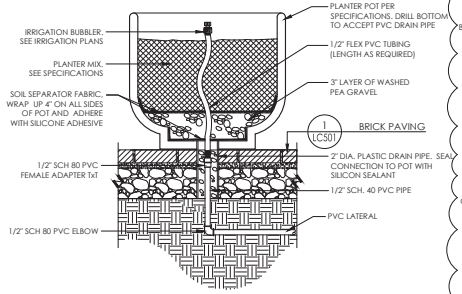
LICENSED LANDSCAPE ARCHITECT
MARISA I. PELTIER LIC. #5829
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY:	MARISA PELTIER
DRAWN BY:	MP
CHECKED BY:	LM
APPROVED BY:	MP
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	LC502



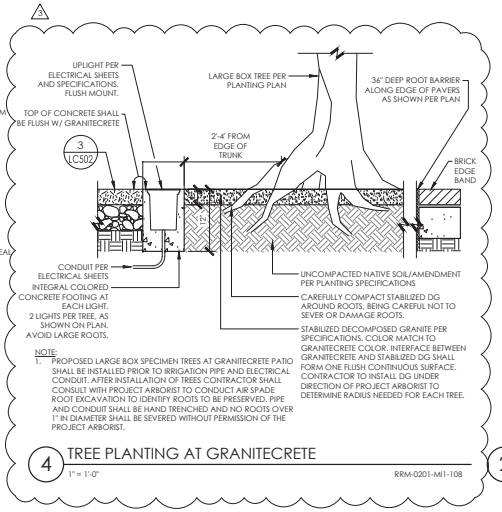
7 BRICK PAVING COLOR TRANSITION

1/2" = 1'-0" RRM-0201-MI1-106



6 POT IRRIGATION

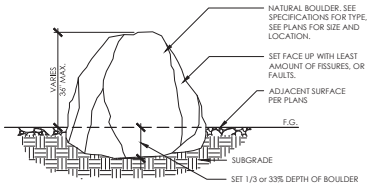
1" = 1'-0" RRM-0201-MI1-48



NOTE:
1. PROPOSED LARGE BOX SPECIMEN TREES AT GRANITECRETE PATIO SHALL BE INSTALLED PRIOR TO IRRIGATION PIPE AND ELECTRICAL CONDUIT. AFTER INSTALLATION OF TREES CONTRACTOR SHALL CONSULT WITH PROJECT ARBORIST TO CONDUCT AIR SPADE ROOT EXCAVATION TO IDENTIFY ROOTS TO BE PRESERVED. PIPE AND CONDUIT SHALL BE HAND TRENCHED AND NO ROOTS OVER 1" IN DIAMETER SHALL BE SEVERED WITHOUT PERMISSION OF THE PROJECT ARBORIST.

4 TREE PLANTING AT GRANITECRETE

1" = 1'-0" RRM-0201-MI1-108



BOULDER SIZING:

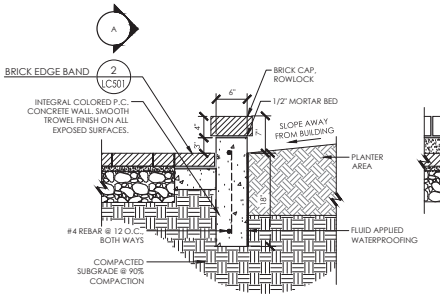
PROVIDE QUANTITIES OF BOULDERS PER QUANTITIES SHOWN ON PLANS. BOULDER SIZES ARE LABELED ON PLANS PER THE SYMBOLS SHOWN BELOW.

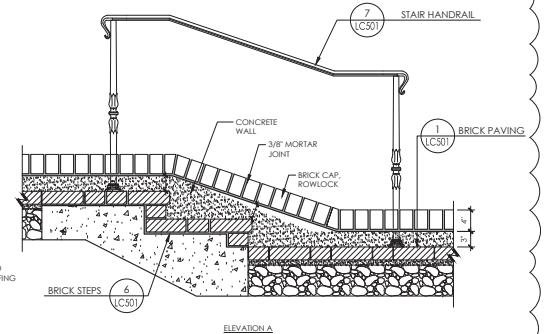
SYMBOL	SIZE RANGE (H, L & W)
A	36"
B	48"
C	60"

NOTES:
A. SUBMIT PHOTOGRAPHS OF BOULDERS FOR APPROVAL FROM OWNER PRIOR TO PURCHASING.
B. OWNER SHALL APPROVE FINAL PLACEMENT IN THE FIELD.

2 LANDSCAPE BOULDER

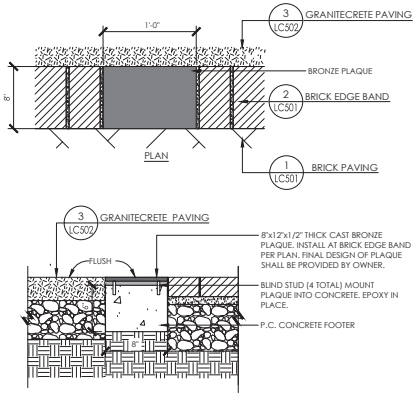
3/4" = 1'-0" RRM-0201-MI1-45





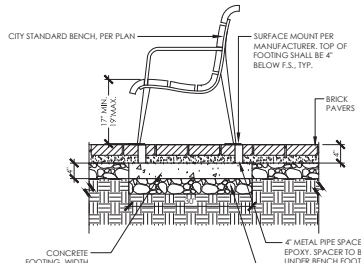
5 BRICK AND CONCRETE WALL

1" = 1'-0" RRM-0201-MI1-111



3 BRONZE PLAQUE

1 1/2" = 1'-0" RRM-0201-MI1-105



NOTE:
1. BENCHES SHALL BE CITY STANDARD, WITH (2) CENTER ARM RESTS.

1 BENCH AT BRICK PAVING

3/4" = 1'-0" RRM-0201-MI1-43

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

CONSTRUCTION DETAILS

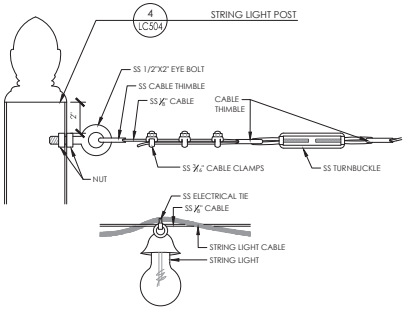
PROJECT TITLE:

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

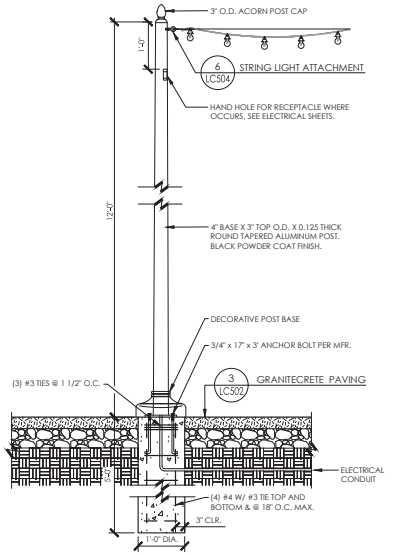
LICENSED LANDSCAPE ARCHITECT
MEGAN L. PELTIER LIC. #6423
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: LM
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. LC503



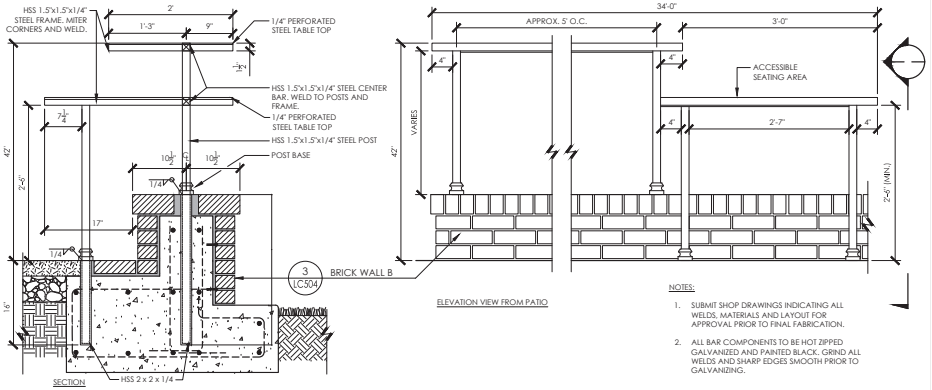
6 STRING LIGHT ATTACHMENT

1/4" = 1'-0" RRM-0201-MI1-53



4 STRING LIGHT POST

3/4" = 1'-0" RRM-0201-MI1-110

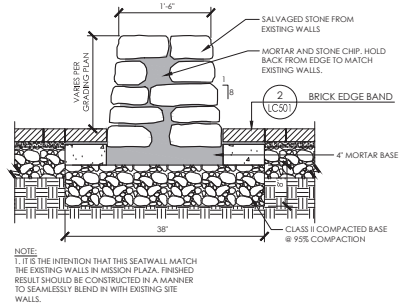


NOTES:

1. SUBMIT SHOP DRAWINGS INDICATING ALL WELDS, MATERIALS AND LAYOUT FOR APPROVAL PRIOR TO FINAL FABRICATION.
2. ALL BAR COMPONENTS TO BE HOT ZIPPED GALVANIZED AND PAINTED BLACK. GRIND ALL WELDS AND SHARP EDGES SMOOTH PRIOR TO GALVANIZING.

2 BAR COUNTER

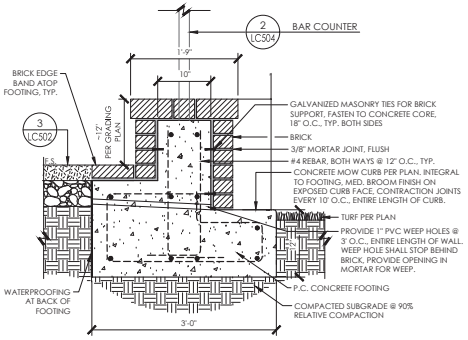
1" = 1'-0" RRM-0201-MI1-114



NOTE:
1. IT IS THE INTENTION THAT THIS SEATWALL MATCH THE EXISTING WALLS IN MISSION PLAZA. FINISHED RESULT SHOULD BE CONSTRUCTED IN A MANNER TO SEAMLESSLY BLEND IN WITH EXISTING SITE WALLS.

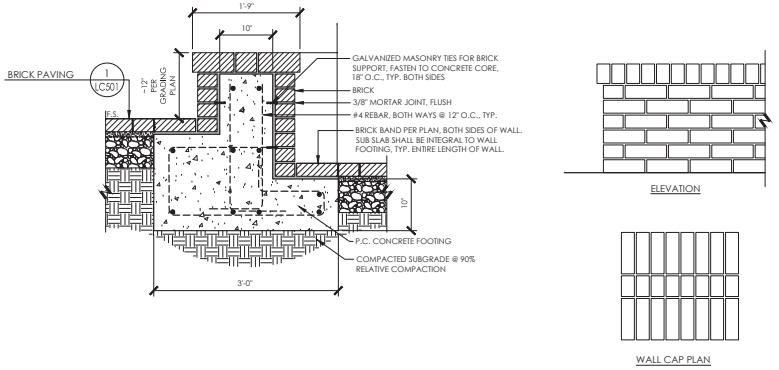
5 STONE SEATWALL

1" = 1'-0" RRM-0201-MI1-49



3 BRICK WALL B

1" = 1'-0" RRM-0201-MI1-113



1 BRICK WALL A

1" = 1'-0" RRM-0201-MI1-46

MISSION PLAZA ENHANCEMENTS

CONSTRUCTION DETAILS

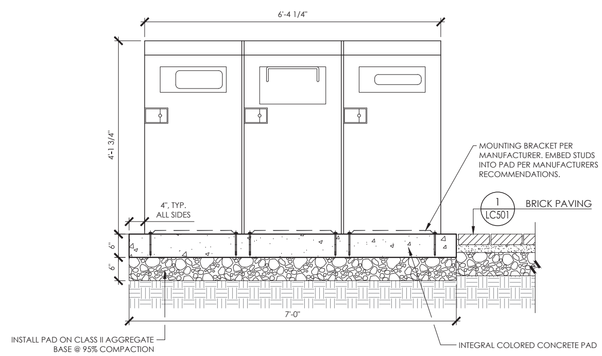
PROJECT TITLE:

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

LICENSED LANDSCAPE ARCHITECT
MARISA L. PELTIER LIC. #6432
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

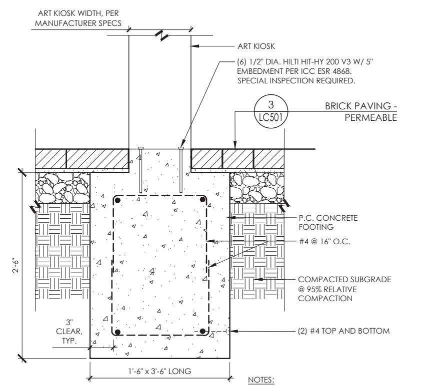
DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: LM
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: LC504



5 TRASH RECEPTACLE INSTALLATION

3/4" = 1'-0"

RRM-0201-MI1-120

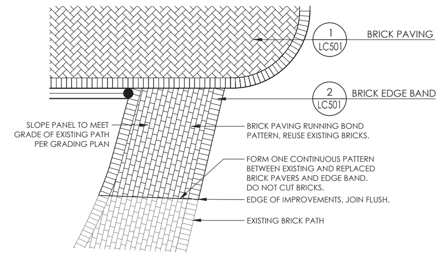


NOTES:
1. INSTALLATION TO BE COMPLETE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS.

4 ART KIOSK FOOTING

1 1/2" = 1'-0"

RRM-0201-MI1-119



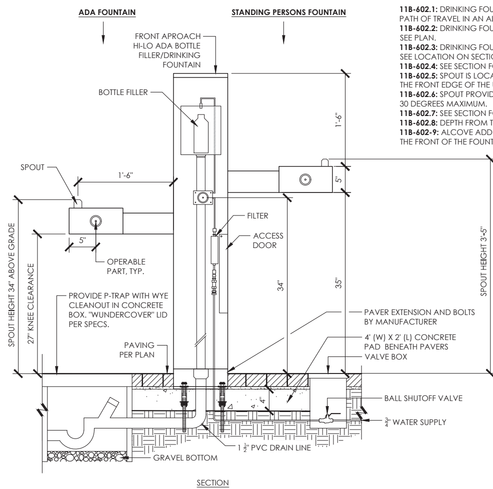
2 BRICK PAVING TRANSITION PANEL

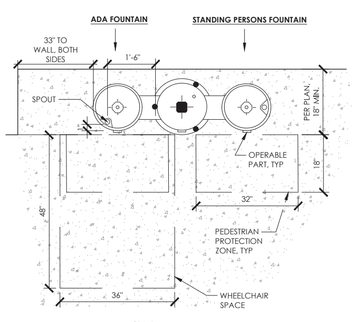
3" = 1'-0"

RRM-0201-MI1-104

CBC 11B-602 COMPLIANCE:

11B-602.1: DRINKING FOUNTAIN COMPLIES WITH 11B 307. THIS IS A FRONT APPROACH FOUNTAIN PLACED OUT OF THE PATH OF TRAVEL IN AN ALCOVE AGAINST A WALL/RAILING. SEE PLAN.
11B-602.2: DRINKING FOUNTAIN HAS A CLEAR FLOOR SPACE AT THE FRONT OF THE FOUNTAIN OF 48IN MIN X 30IN MIN. SEE PLAN.
11B-602.3: DRINKING FOUNTAIN HAS A MANUALLY OPERATED PUSH BUTTON LOCATED ON THE FRONT OF THE FOUNTAIN. SEE LOCATION ON SECTION.
11B-602.4: SEE SECTION FOR SPOUT HEIGHT FOR BOTH ADA AND STANDING PERSONS FOUNTAIN.
11B-602.5: SPOUT IS LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT POST AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT. SEE PLAN.
11B-602.6: SPOUT PROVIDES A FLOW OF WATER 4 INCHES HIGH MINIMUM. THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM.
11B-602.7: SEE SECTION FOR SPOUT HEIGHT FOR BOTH ADA AND STANDING PERSONS FOUNTAIN.
11B-602.8: DEPTH FROM THE FRONT OF THE FOUNTAIN TO THE BACK OF THE ALCOVE IS 18" DEEP.
11B-602-9: ALCOVE ADDED TO DESIGN. 33" CLEAR PROVIDED ON EACH SIDE OF THE FOUNTAIN, 18" PROVIDED FROM THE FRONT OF THE FOUNTAIN TO THE BACK OF THE ALCOVE.

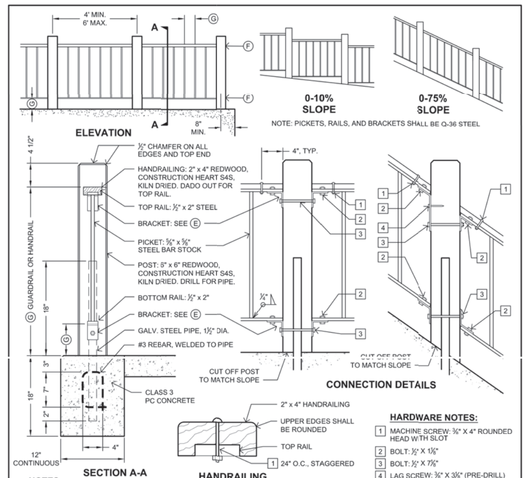




3 ACCESSIBLE DRINKING FOUNTAIN

1" = 1'-0"

RRM-0201-MI1-118

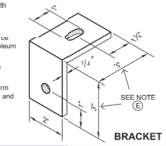


HARDWARE NOTES:

1. MACHINE SCREW: ⅜" X 4" ROUNDED HEAD WITH SLOT
2. BOLT: ½" X 1⅛"
3. BOLT: ½" X 7⅞"
4. LAG SCREW: ⅜" X 3⅛" (PRE-DRILL)

NOTES:

(A) Redwood posts and handrailing shall be free of splits and splinters, sanded smooth, and stained with two (2) coats of ARBORCOAT solid deck & siding stain 640 or approved equal.
(B) Railing may be stepped on slopes of 10% or less but must be parallel to steeper slopes.
(C) All welds shall be free of slag and wire brushed. All edges and corners of pickets, rails, and brackets shall be ground smooth, and assembly shall be sand blasted and primed with a shop-applied primer (such as rustoleum damp-proof primer) and then shall be given two (2) coats of shop-appled semi-gloss black enamel.
(D) Each through connection shall have a bolt/machine screw, nut, and lock washer. All fasteners shall have a black finish and meet ASTM A307 standards.
(E) Brackets shall be fabricated as shown and have an oblong hole on one arm for field adjustment. Bracket arm length and angles may vary depending on slope. Brackets shall be arranged to minimize use of long bolts, and top rail brackets shall only point down. Lag screws shall be used if bracket arm length exceeds 5⅛".
(F) At ends and corners use large washer and nut, countersink, plug, and finish to match.
(G) Height and spacing shall conform to current CBC requirements.



REVISIONS	BY	APP	DATE
Revised Lumber Grade	*MH*	*BL*	*2-14*
Note A, Railing	*KH*	*MH*	*11-17*
Kiln-dried Handrail; Welding	*JDL*	*DA*	*10-15*
STANDARD CURRENT AS OF:	AUGUST 2020		

MISSION STYLE RAILING
HANDRAIL & GUARDRAIL
4240

1 MISSION STYLE RAILING

1" = 1'-0"

RRM-0201-MI1-83

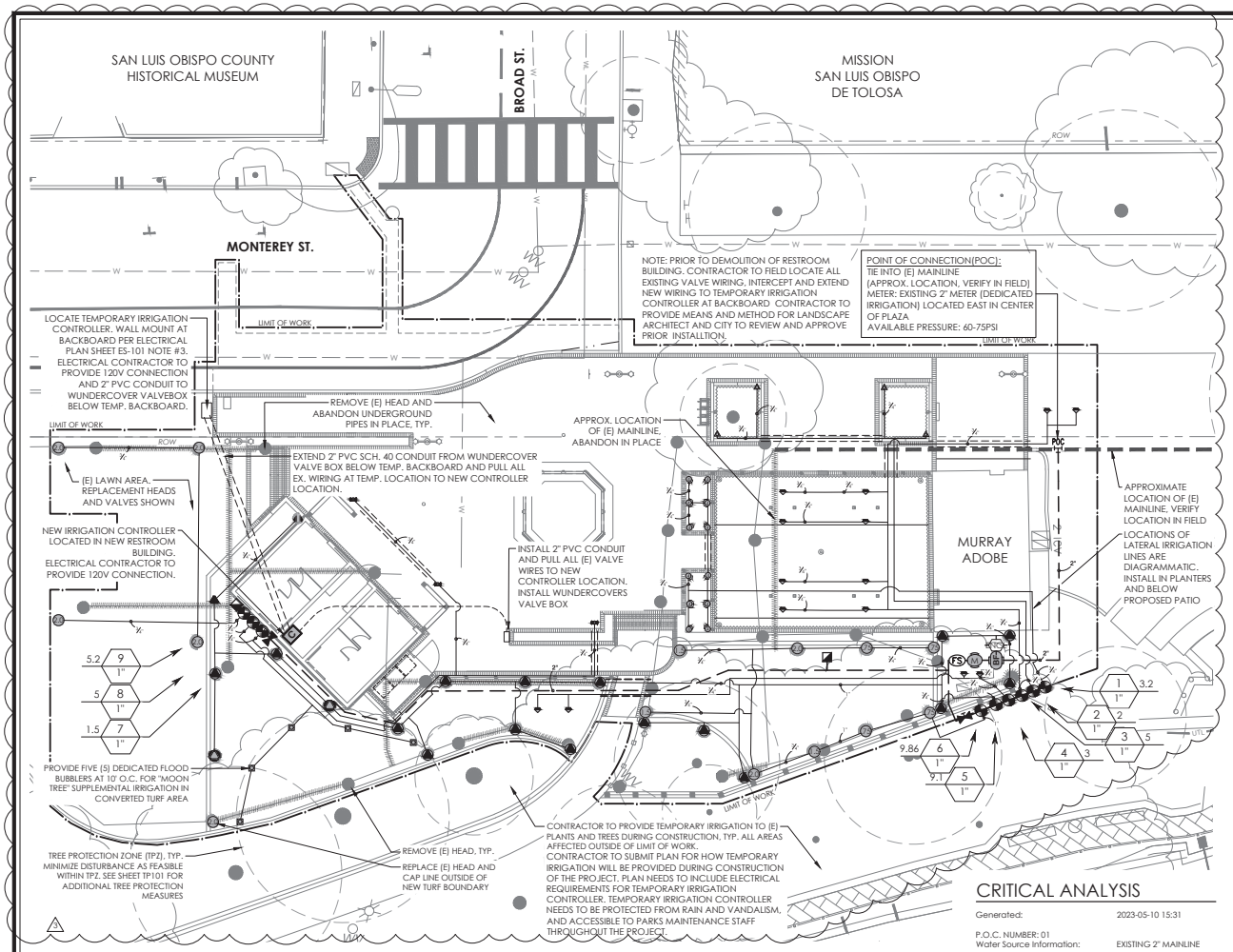
PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
CONSTRUCTION DETAILS

100% CONSTRUCTION DOCUMENTS

LICENSED LANDSCAPE ARCHITECT — MARISA L. PELTIER LIC. #5861 — 8.31.24 Renewal Date — 7.12.23 Date — STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: LM
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. LC505



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS	DETAIL
	HUNTER PROS-06-PRS30 04H	180	30	0.4	4'	8650/LI501
	HUNTER PROS-06-PRS30 04Q	90	30	0.2	4'	8650/LI501
	HUNTER MP CORNER PROS-12-PRS40-CV T	ADJ	40		14'	8650/LI501
	HUNTER MP STRIP PROS-12-PRS40-CV RST	RCS	40	0.22	5'x15'	8650/LI501
	HUNTER MP1000 PROS-12-PRS40-CV L	210-270	40		14'	8650/LI501
	HUNTER MP1000 PROS-12-PRS40-CV M	90-210	40		14'	8650/LI501
	HUNTER MP2000 PROS-12-PRS40-CV K	90-210	40		19'	8650/LI501
	HUNTER PCB 50	360	30	0.5	3'	6/LC503
	RAIN BIRD 1806-5 SERIES STREAM 5H-B	180	30	1	5'	8670/LI501
	RAIN BIRD 1806-5 SERIES STREAM 5Q-B	90	30	0.5	5'	8670/LI501
	RAIN BIRD RWS-M-B-C 1402	360	40	0.5	3'	1/LI502

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
P75	HUNTER PGJ-06 .75 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE.	30	0.64	15'	8650/LI501
P15	HUNTER PGJ-06 1.5 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE.	30	1.3	21'	8650/LI501
P20	HUNTER PGJ-06 2.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE.	30	1.7	24'	8650/LI501

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	8620/LI501
	RAIN BIRD 44-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	8630/LI501
	LANDSCAPE PRODUCTS INC. BGV 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" BRASS GATE VALVE, THREADED BONNET, NON-RISING STEM, PRESSURE RATED TO 200 PSI. SAME SIZE AS MAINLINE.	8640/LI501
M	BUCKNER-SUPERIOR 3200 1" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE, WHICH ENSURES RELIABLE OPENING AND CLOSING OF THE VALVE IN EXTREME HIGH OR LOW FLOW SCENARIOS. AVAILABLE IN 3/4IN., 1IN.1-1/2IN.,2IN.,2-1/2IN. AND 3IN..	8550/LI502
BF	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER	8560/LI501
C	CALSENSE WALL MOUNT CONTROLLER EXISTING CALSENSE CONTROLLER TO BE RELOCATED AND REUSED.	8520/LI501
FS	FLOW SENSOR RAINMASTER BRASS/IMPELLER/PLASTIC FLOW SENSOR, CITY OF SLO SPEC	8550/LI502
MC	BACKFLOW ENCLOSURE LOCKABLE ENCLOSURE, PER CITY SPEC	8560/LI501
POC	POINT OF CONNECTION 2" EXISTING 2" MAINLINE	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	8610/LI501
	IRRIGATION MAINLINE: PVC SCHEDULE 40	8610/LI501
	PIPE SLEEVE: PVC SCHEDULE 40 SLEEVE SIZE SHALL BE 2X THE PIPE DIAMETER. EXTEND 18" BEYOND EDGE OF PAVING. PROVIDE SEPARATE SLEEVES FOR ALL CONTROL WIRES.	8610/LI501

Valve Callout
Valve Number
Valve Flow
Valve Size

CRITICAL ANALYSIS

Generated:	2023-05-10 15:31
P.O.C. NUMBER: 01	
Water Source Information:	EXISTING 2" MAINLINE
FLOW AVAILABLE	
Point of Connection Size:	2"
Flow Available	77.18 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	75 PSI
Pressure Available:	75 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	40 GPM
Flow Available at POC:	77.18 GPM
Residual Flow Available:	37.18 GPM
Critical Station:	6
Design Pressure:	45 PSI
Friction Loss:	0.45 PSI
Fittings Loss:	0.04 PSI
Elevation Loss:	0 PSI
Loss through Valve:	1.7 PSI
Pressure Req. at Critical Station:	47.2 PSI
Loss for Fittings:	0.17 PSI
Loss for Main Line:	1.72 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.9 PSI
Loss for Master Valve:	10 PSI
Critical Station Pressure at POC:	70.9 PSI
Pressure Available:	75 PSI
Residual Pressure Available:	4.05 PSI

0 10 20 30 feet
1"=10'-0"

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

IRRIGATION PLAN

100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

LICENSED LANDSCAPE ARCHITECT
MARISA L. PELTIER LIC. #6482
Mar 31, 2024
6.30.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: JM
CHECKED BY: MP
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: LI101

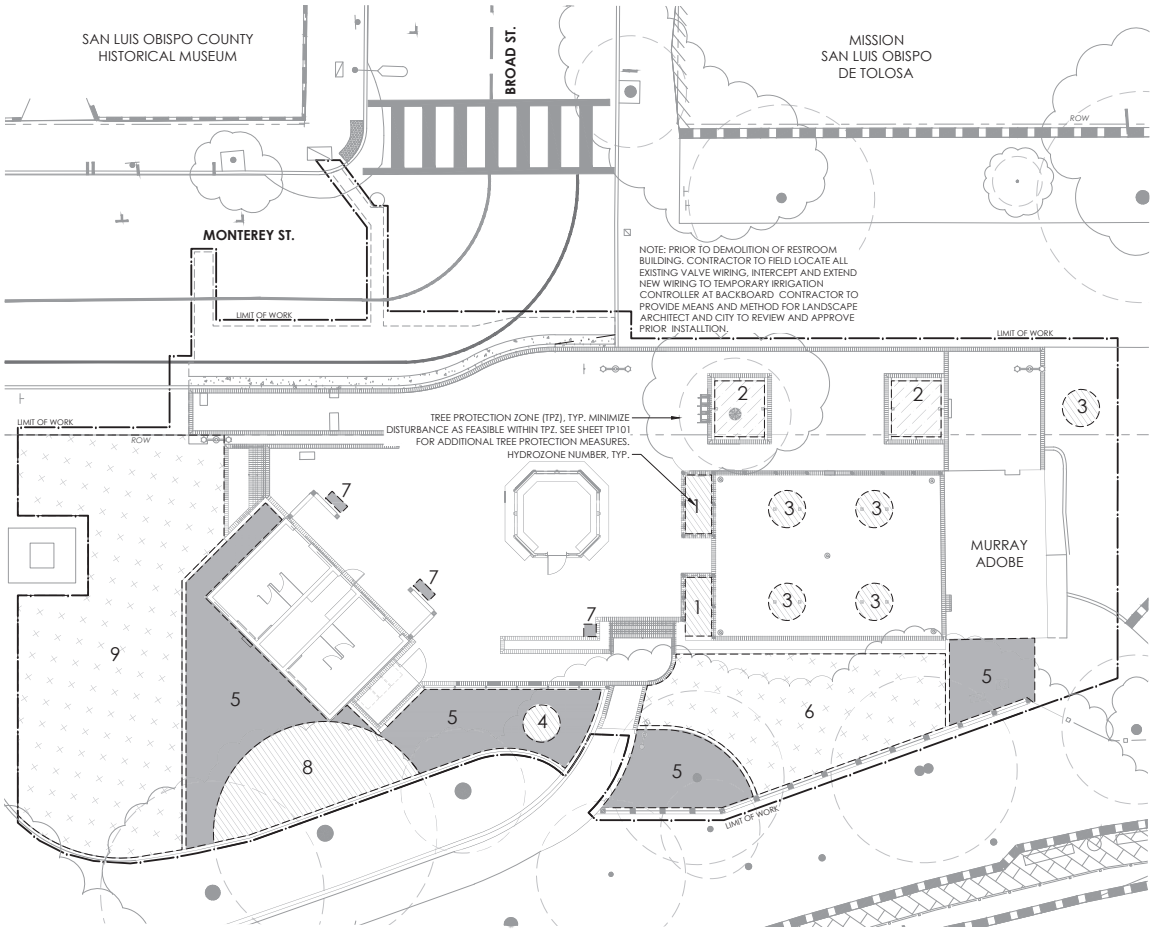
WATER USE CALCULATIONS

San Luis Obispo
Maximum Applied Water Allowance / Estimated Total Water Use

Non-Residential	
43.80	ET_o (inches/year)
946	Overhead Landscape Area (ft^2)
558	Drip Landscape Area (ft^2)
2507	SLA (ft^2)
4,011	ft^2

Hydrozone	Plant Water Use Type (low, moderate, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft^2)	Enter Irrigation Type	(PF x HA (ft^2))/IE
Zone 1	Low	0.11	80	Spray Irrigation	11.73
Zone 2	Very Low	0.01	144	Spray Irrigation	1.92
Zone 3	Moderate	0.31	125	Drip Irrigation	47.84
Zone 4	Moderate	0.31	50	Drip Irrigation	19.14
Zone 5	Low	0.11	722	Spray Irrigation	105.89
Zone 6	High	0.61	757	SLA	
Zone 7	Low	0.11	15	Drip Irrigation	2.04
Zone 8	Moderate	0.31	368	Drip Irrigation	140.84
Zone 9	High	0.61	1750	SLA	
Zone 10					
Zone 11					
Zone 12					
Zone 13					
Zone 14					
Zone 15					
Zone 16					
Zone 17					
Zone 18					
Zone 19					
Zone 20					
		HA	4,011		329.40
		Total LA	4,011		

MAWA=	86,459.3	ETWU complies with MAWA
ETWU=	77,025.2	Gallons
	103.0	HCF (Hundred Cubic Feet) per year
	0.236	Acre-feet per year



HYDROZONE SCHEDULE

	VERY LOW - SHRUBS AND TREES	144 SQ FT
	LOW - SHRUBS AND TREES	817 SQ FT
	MODERATE - SHRUBS AND TREES	543 SQ FT
	HIGH - TURF	2,507 SQ FT

0 10 20 30 feet

1"=10'-0"

MISSION PLAZA ENHANCEMENTS

HYDROZONE PLAN

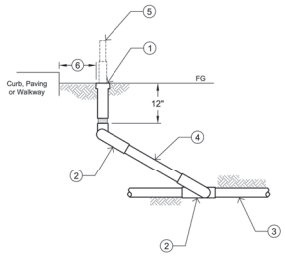
100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

LICENSED LANDSCAPE ARCHITECT MARISA L. PELTIER LIC. #6423 STATE OF CALIFORNIA 8.31.24 Renewal Date 7.12.23

DESIGNED BY:	MARISA PELTIER
DRAWN BY:	JM
CHECKED BY:	MP
APPROVED BY:	MP
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	LI201



GENERAL NOTES:

A. Where system is or has the potential to hook up to non-potable water, rotor head shall have a Reclaimed Water cover.

B. Pipe material shall be Class 200 PVC unless otherwise noted.

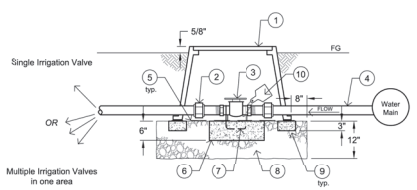
INSTALLATION NOTES:

1. Rotor or Spray Pop-up or Hi-pop Body, set even with finished grade.
2. Triple Swing Joint, Marlex (3)
3. Irrigation Lateral Line
4. Schedule 80 Nipple
5. Pop-up height to be above matured plant material height.
6. Distance must be 2 feet but may be reduced to 2 inches where overspray to adjacent impervious surface runs off to vegetated area.

REVISIONS	BY	APP	DATE
Added note 6	MH	BL	1-14
Revise offset from curb	DVB	BL	11-07
Change height (new 2)	JDL	BL	6-12
STANDARD CURRENT AS OF:	AUGUST 2020		

POP-UP HEAD

8650



GENERAL NOTES:

A. Isolation valves shall be installed for all irrigation valves.

B. Locate valves in shrub areas whenever possible.

C. Valve boxes shall be a maximum of 12" from walkways or curbs.

D. Valve boxes shall be set parallel to walkways or curbs.

E. Valve size and pipe size must be equal.

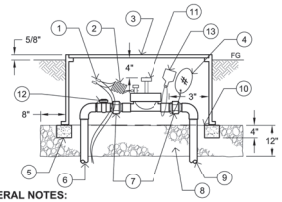
INSTALLATION NOTES:

1. Plastic Valve Box with bolt-down lid. Bolts to be stainless steel: ENGRAVE "IO" ON LID.
   Carson Industries 1419-3B (purple) for Recycled Water Valves up to 2"
   Carson Industries 1324-3B (purple) for Recycled Water Valves 2½" and larger
2. PVC Union
3. Brass Ball Valve
4. Schedule 40 Pressure Line
5. Galvanized Cloth set under box: ½" grid
6. Concrete block below valve, extending 6" beyond outside dimensions of valve
7. #10 Reinforcing Bar looped over valve - Only for valves 2½" and larger
8. Gravel: ¾" to 1½" in size
9. Cement Blocks or Brick continuous for box support
10. Attach Recycled Water Warning Tag per Engineering Standard 8610 when used for recycled water.

REVISIONS	BY	APP	DATE
Add PVC Union; drafting edits	JDL	BL	6-12
Revised Notes and Detail	MH	BL	10-05
Revise Note 1; Add Note 10	JDL	BL	5-06
STANDARD CURRENT AS OF:	AUGUST 2020		

ISOLATION VALVE

8640



GENERAL NOTES:

A. Locate valves in shrub areas whenever possible.

B. Valve boxes shall be a maximum of 12" from walkways or curbs.

C. Valve boxes shall be set parallel to walkways or curbs.

D. One valve per box.

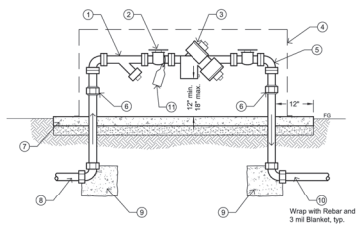
INSTALLATION NOTES:

1. Connector:
   King One Step Model 70-566 30 Volt
   Rain Bird Snaptite with sealer #ST-03 Grey PT-S5
2. 14 gauge Direct Burial Wire with 12" expansion coil (1- valve, 1- common)
3. Plastic Valve Box with bolt-down lid, bolts to be stainless steel: ENGRAVE VALVE STATION NUMBER ON LID.
   Carson Industries 1419-3B (purple) for Recycled Water Valves up to 2"
   Carson Industries 1324-3B (purple) for Recycled Water Valves 2½" and larger
4. 2" diameter aluminum or plastic Valve Tag, attach with non-ferrous wire, engrave with valve station number.
5. Cement Block (4 total) under each box corner
6. Irrigation Lateral Line
7. PVC Union
8. Gravel - ¾" to 1½" in size
9. Irrigation Pressure Line
10. Galvanized Cloth set under box - ½" grid
11. Control Valve: Irritrol 100 Series
12. PVC Ball Valve
13. Attach Recycled Water Warning Tag per Engineering Standard 8810 when used for recycled water.

REVISIONS	BY	APP	DATE
Edit Note 11, add PVC Union	JDL	BL	6-12
Add note 12	KH	MH	6-20
Revise Note 2	JDL	BL	6-12
STANDARD CURRENT AS OF:	AUGUST 2020		

ELECTRIC CONTROL VALVE & BOX

8620



GENERAL NOTES:

A All pipe shall be schedule copper or brass unless otherwise specified.
B Dissimilar metals shall be separated by an approved dielectric coupling.
C Service assembly shall be installed as the first assembly after the meter.
D Device shall be located within 10' of water meter and no connection or tees are allowed between the meter and the assembly.

INSTALLATION NOTES:

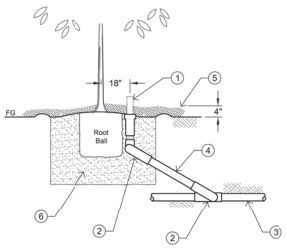
1. WYE STRAINER: Barrel position 45° from horizontal for below ground installations
2. BALL VALVE: Brass
3. FOR POTABLE SERVICE: Backflow Assembly (reduced pressure type), FEBCO/WILKINS
   FOR RECYCLED SERVICE: Pressure Regulator. Where there is no backflow assembly, place wye strainer and regulator in paired boxes installed per Engineering Standard 8550.
4. LOCKING ENCLOSURE: Secure to pad per manufacturer's direction. Enclosure shall not be field-painted. All coatings shall be completed by manufacturer. Model: Stronghox #SBBC Series, expanded metal, dark green powder-coated, low profile, smooth touch, vandal resistant
5. ELBOW
6. UNION: Brass
7. CONCRETE PAD: Class 3, 60" x 24" x 4" on 14" Class 3 Base, with 2% cross-slope for drainage
8. SUPPLY LINE
9. THRUST BLOCK
10. IRRIGATION PRESSURE LINE
11. RECYCLED WATER WARNING TAG: Attach per Engineering Standard 8810 when used for recycled water.

BACKFLOW DEVICES SHALL BE INSPECTED BY THE LOCAL DEPARTMENT OF HEALTH SERVICES AND THE CITY OF SAN LUIS OBISPO UTILITIES DEPARTMENT

REVISIONS	BY	APP	DATE
Revised Note 1	MH	BL	11-09
Revised title; Drafting edits	JDL	MH	10-12
Revised Notes 2, 4 & 5	LHG	DL	10-20
STANDARD CURRENT AS OF:	AUGUST 2020		

IRRIGATION SERVICE ASSEMBLY

8560



GENERAL NOTES:

A. Where system s or has the potential to hook up to non-potable water, rotor head shall have a Reclaimed Water cover.

B. Pipe material shall be Class 200 PCV.

C. See Engineering Standards for tree planting.

D. Minimum of one (1) bubbler per tree or as specified on the plans.

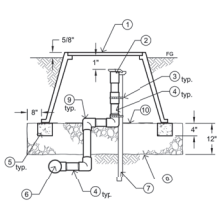
INSTALLATION NOTES:

1. Bubbler Pop-up, set even with finished grade: Rain Bird
2. Triple Swing Joint: Marlex (3)
3. Irrigation Lateral Line
4. Schedule 80 PVC Nipple
5. 4" deep Mulch
   5 gallon tree: 36" diameter around tree
   15 gallon tree: 48" diameter around tree
   24" box: 72" diameter around tree
6. Backfill per Standard Specifications

REVISIONS	BY	APP	DATE
New Standard	BL	JDW	1-04
Drafting edits	JDL	MH	6-13
Delete Note 7	SR	BL	
STANDARD CURRENT AS OF:	AUGUST 2020		

TREE BUBBLER

8670



GENERAL NOTES:

A. Locate valves in shrub areas wherever possible.

B. Valve boxes shall be a maximum of 12" from walkways or curbs.

C. Valve boxes shall be set parallel to walkways or curbs.

D. One valve per box.

E. Areas where recycled water may be used shall have purple box covers.

F. Pipe shall be Schedule 40 PVC unless otherwise noted.

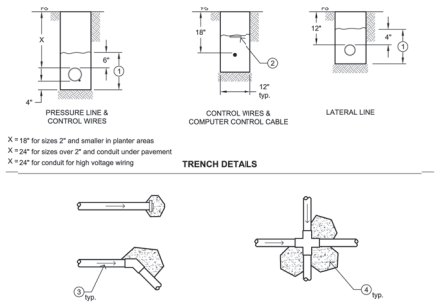
INSTALLATION NOTES:

1. Round Plastic Valve Box: Carson #910-12B ENGRAVE "QC" ON LID.
2. Quick Coupler Valve: Rain Bird #44, use #44NP for Recycled Water
3. Stainless Steel Clamp
4. Schedule 80 Nipple
5. Cement Block (4 total) under each box corner when box is located in turf area
6. Tee connected to irrigation pressure line
7. ¾" x 1" x 30" Angle Iron
8. Gravel: ¾" to 1½" in size
9. Schedule 80 Ell
10. Galvanized Cloth set under box, ½" grid

REVISIONS	BY	APP	DATE
New Standard	BL	JDW	1-04
Revise Notes E and 2	SR	BL	3-06
Drafting edits	JDL	MH	6-13
STANDARD CURRENT AS OF:	AUGUST 2020		

QUICK COUPLER
VALVE and BOX

8630



GENERAL NOTES:

A. Pressure lines shall be per the Standard Specifications unless otherwise noted.

B. Lateral lines shall be Class 200 unless otherwise noted.

C. Control wires shall be taped together at 5' intervals. Where control wires share a trench with pressure lines, they shall be placed below the 4 o'clock and 8 o'clock position under the pressure line.

D. Thrust blocks shall be installed at mainline turns, elbows, tees, caps, plugs, changes in direction, at terminal points of all rubber gasket piping and at any other additional points shown on the plans.

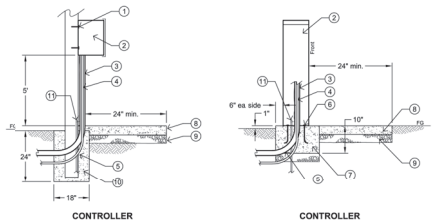
INSTALLATION NOTES:

1. Select backfill compacted to 90%, with native above to grade compacted to 85%. Native material to be fine earth material free from clods, rocks, and other large matter. If existing soil is not acceptable, the Contractor shall import soil as backfill.
2. 3" Detectable Marker Tape marked "WATER" or "NON-POTABLE WATER" depending on the irrigation supply source. Thor Enterprises (distributed by T. Christy Enterprises)
3. Direction of flow
4. Class 3 PCC Thrust Block, sized as needed for pressure.

REVISIONS	BY	APP	DATE
New Standard	BL	JDW	1-04
Revise Lateral Line detail	DVB	BL	11-08
Revise Installation Note 1	JDL	BL	5-12
STANDARD CURRENT AS OF:	AUGUST 2020		

TRENCH DETAIL & THRUST BLOCKS

8610



GENERAL NOTES:

A. All exposed conduit shall be Schedule 80.

B. Install Controller and Telemetry equipment required for the site as specified by the City Parks Maintenance Division.

C. Attach Recycled Water adhesive warning decal per Engineering Standard 8810 to inside and outside of cabinet door when used to control recycled water.

NOTES:

1. ⅜" Ø x 4" Lag Bolts. Connect to building wall or, where wall is not available, mount to 4" x 6" Pressure Treated Douglas Fir post.
2. Controller / Stainless Steel Enclosure
3. 2" Ø PVC Conduit w/ Irrigation Control Wires
4. ¾" Ø PVC Conduit w/ 120 volt Power Source
5. PVC Sweep Ells for Conduit
6. ⅝" - ¼" Ø Anchor Bolts
7. Class 3 PCC Footing
8. 4" Class 3 PCC Pad
9. 4" Class 2 Aggregate Base
10. Class 3 PCC Post Footing when Post Mount is used
11. Ground Rod

REVISIONS	BY	APP	DATE
Drafting edits	JDL	MH	6-13
Add Note 12	SR	BL	3-06
Delete Note 12	DVB	BL	11-06
STANDARD CURRENT AS OF:	AUGUST 2020		

IRRIGATION CONTROLLER

8520

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

IRRIGATION DETAILS

100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

LICENSED LANDSCAPE ARCHITECT
MEGAN L. PELTIER LIC. #6432
Exp. 8.31.24
Renewal Date 7.12.23
STATE OF CALIFORNIA

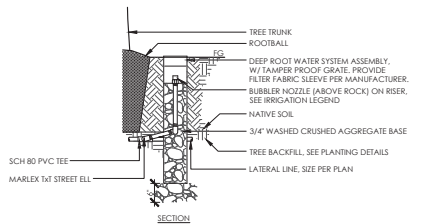
DESIGNED BY: MARISA PELTIER
DRAWN BY: JM
CHECKED BY: MP
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: LI501

IRRIGATION NOTES

1. CONTRACTOR SHALL SLEEVE UNDER PAVING PER PLANS AND SPECIFICATIONS. TWICE(2X) THE SIZE OF PIPE ENCLOSED. EXTEND ALL SLEEVES 18" BEYOND EDGE OF PAVING
2. IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
3. ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
4. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
5. CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
6. CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
8. CONTRACTOR SHALL ADJUST HEADS AS NEEDED TO MINIMIZE OVERSPRAY ONTO HARDSCAPE AREAS.
9. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
11. ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
12. LANDSCAPE CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR PRIOR TO DEMOLITION OR PROTECTION OF EXISTING MAINLINE AND CONTROLLER WIRE FOR FUTURE USE.
13. IF THE INTENT IS TO DEMO ANY IRRIGATION EQUIPMENT IN NEW CONSTRUCTION AREA, LANDSCAPE CONTRACTOR SHALL SUPPLY ALL NEW MAINLINE AND CONTROL WIRE TO NEW REMOTE CONTROL VALVE AS DESIGNED PER THIS PLAN, TYPICAL.
14. ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES NECESSARY FOR RETROFITS SHALL BE LOCATED IN PLANTING AREAS 18" MIN. AWAY FROM ADJACENT PAVING AND 5' MIN. AWAY FROM IMMEDIATE BUILDING ENTRIES.
15. CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.
16. CITY IRRIGATION CONTROLLER WIRES SHALL ALL BE LOCATED WITHIN ELECTRICAL CONDUIT AND NOT DIRECT BURIED, TYPICAL.

IRRIGATION SPECIFICATIONS

REFER TO DIVISION III OF THE CURRENT CITY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS & ENGINEERING STANDARDS.

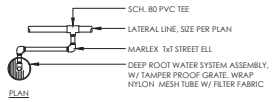


NOTES :

A. USE PIPE TEFLON TAPE ON ALL PIPE THREADS. TIGHTEN THREADS UNTIL MODERATELY SNUG (DO NOT OVERTIGHTEN).

B. LOCATE TREE BUBBLER ON ROOT BALL SIDE OF ROOT CONTROL BARRIERS.

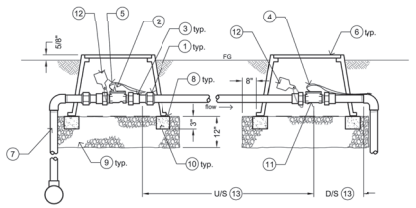
C. WHERE POSSIBLE, LOCATE TREE BUBBLER AWAY FROM ADJACENT HARDSCAPE AREAS TO DISCOURAGE ROOT GROWTH UNDER PAVING.



1 DEEP ROOT TREE BUBBLER

3/4" = 1'-0"

RRM-0201-MI1-59



GENERAL NOTES:

A. Locate valves in shrub areas whenever possible.
B. Valve boxes shall be a maximum of 12" from walkways or curbs.
C. Valve boxes shall be set parallel to walkways or curbs.
D. Flow meter size and pipe size must be equal.
E. No splices are allowed in wiring except at connectors shown (in box.)

INSTALLATION NOTES:

1. PVC Union
2. Master Valve - normally open
3. PVC Male Adapter
4. Flow Sensor Specialized Shielded Cable (EV-CAB-SEN) (1-Flow Meter, 1-Common)
   - Maximum distance between meter and controller is 2000' -
5. 14 gauge Master Valve Controller Wires (1-Valve, 1-Common)
6. Plastic Valve Box with bolt down lid. Belts to be stainless steel.
   Carson Industries 1419-3B (Purple) for Recycled Water Valves up to 2"
   Carson Industries 1324-3B (Purple) for Recycled Water Valve 2½" and larger
   ENGRAVE "MV" AND "FS" ON LID.
7. Irrigation Pressure Mainline
8. Galvanized Cloth set under box - ½" Grid
9. Gravel - ¾" to 1½" in size
10. Cement Blocks or Brick continuous for box support
11. Flow Sensor - RainMaster
12. Attach Recycled Water Warning Tab per Engineering Standard 8810 when used in recycled water system.
13. U/S distance equals ten (10) times the Flow Meter size.
    D/S distance equals five (5) times the Flow Meter size.

REVISIONS	BY	APP	DATE
Edit Note 11, add PVC Union	JDL	BL	6-12
Revise Notes 2 and 11	MH	BL	11-09
Update Note s 4 and 5	SR	BL	8-11
STANDARD CURRENT AS OF:	AUGUST 2020		

MASTER VALVE & FLOW SENSOR

8550

MISSION PLAZA ENHANCEMENTS

IRRIGATION DETAILS, NOTES, AND SPECIFICATIONS

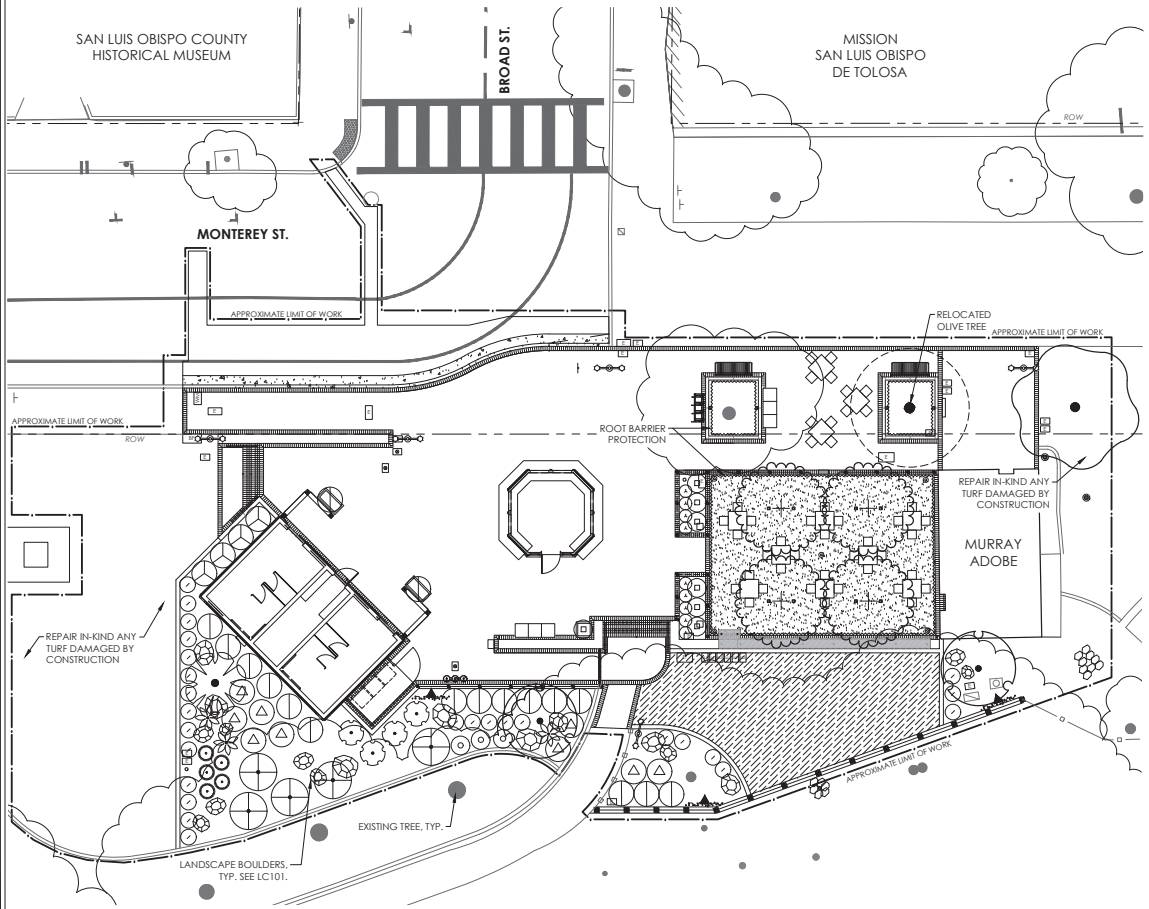
100% CONSTRUCTION DOCUMENTS

PROJECT TITLE:

SHEET TITLE:

LICENSED LANDSCAPE ARCHITECT
MARISA L. PELTIER LIC. #6482
Mar 8, 2024
Renewal Date
8.31.24
Date
7.12.23
STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: JM
CHECKED BY: MP
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. LI502



PLANTING SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS
	1	ALOE 'HERCULES'	TREE ALOE	24"BOX	LOW
	2	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY EASTERN REDBUD	48"BOX	MODERATE
	1	JACARANDA MIMOSIFOLIA	JACARANDA MULTI-TRUNK	60"BOX	MODERATE
	4	OLEA EUROPAEA 'SWAN HILL' TM	MULTI-TRUNKED SWAN HILL OLIVE	96"BOX	LOW
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**WUCOLS**
	5	ACACIA COGNATA 'COUSIN ITT'	COUSIN ITT LITTLE RIVER WATTLE	5 GAL	LOW
	3	AGAVE OVATIFOLIA	WHALE'S TONGUE AGAVE	5 GAL	LOW
	9	ANIGOZANTHOS 'BIG RED'	RED KANGAROO PAW	5 GAL	LOW
	3	BOUGAINVILLEA X 'BARBARA KARST'	BARBARA KARST BOUGAINVILLEA	15GA STAKED	LOW
	4	BOUGAINVILLEA X 'LA JOLLA'	LA JOLLA BOUGAINVILLEA	5 GAL	LOW
	9	BOUGAINVILLEA X 'ROSENKA'	ROSENKA BOUGAINVILLEA	5 GAL	LOW
	5	HESPERALOE PARVIFLORA 'PERPA' TM	BRAKELIGHTS RED YUCCA	5 GAL	LOW
	26	LOBELIA LAXIFLORA ANGUSTIFOLIA	MEXICAN LOBELIA	5 GAL	LOW
	3	LOMANDRA LONGIFOLIA 'PLATINUM BEAUTY'	VARIEGATED RUSH	5 GAL	LOW
	4	MAHONIA REPENS	CREEPING MAHONIA	5 GAL	LOW
	17	OLEA EUROPAEA 'MONTRA' TM	LITTLE OLLIE OLIVE	15 GAL	LOW
	7	ROSA FLORIBUNDA 'ICEBERG'	ICEBERG ROSE	5 GAL	MODERATE
GROUND COVERS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**WUCOLS**
	759 SF	LOLIUM PERENNE	PERENNIAL RYEGRASS	SOD	HIGH

PLANTING NOTES

1. THE CITY RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS TO THE PLANTING LAYOUT AS WORK PROGRESSES.
2. CONTRACTOR SHALL INSTALL A 3" THICK LAYER OF MULCH IN ALL PLANTER AREAS PER SPECIFICATIONS.
3. ALL TREES MUST BE APPROVED AND TAGGED AT NURSERY BY ENGINEER.

0 10 20 30 feet
1"=10'-0"

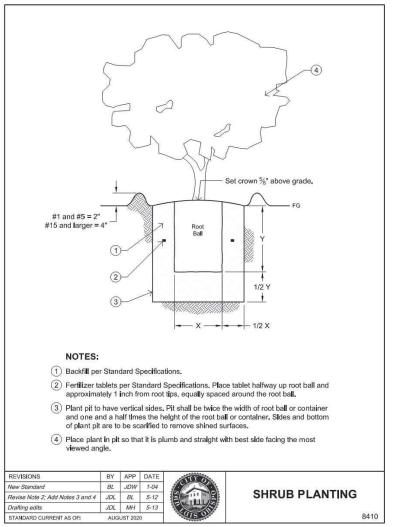
PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
PLANTING PLAN

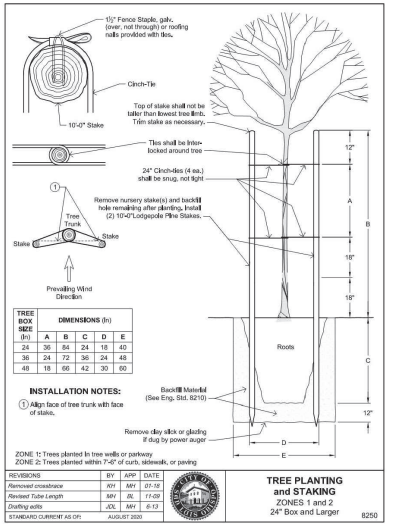
100% CONSTRUCTION DOCUMENTS

LICENSED LANDSCAPE ARCHITECT
MARISA L. PELTIER LIC. #6482
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: MP
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. LP101



2 CITY STANDARD SHRUB PLANTING
NTS



1 CITY STANDARD TREE PLANTING AND STAKING
NTS

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
PLANTING DETAILS

100% CONSTRUCTION DOCUMENTS

LICENSED LANDSCAPE ARCHITECT
MARISA L. PELTIER LIC. #6423
8.31.24
Renewal Date
7.12.23
Date
STATE OF CALIFORNIA

DESIGNED BY: MARISA PELTIER
DRAWN BY: MP
CHECKED BY: MP
APPROVED BY: MP
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: LP501

SYMBOLS

- DETAIL REFERENCE BUBBLE WITH LEADER
- DETAIL REFERENCE BUBBLE
- FULL HEIGHT SECTION INDICATOR
- ELEVATION OF WALL OR FRAME
- NORTH ARROW
- TOP/BOTTOM OF ELEVATIONS
- SLOPE
- WELDED WIRE FABRIC (WWF LAYER)
- STEPPED SURFACE; FLOOR DEPRESSION
- SLOPED SURFACE
- STEPPED FOOTING
- BOTTOM STEPPED FOOTING
- INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)
- INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER
- INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST
- INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT
- INDICATES HEADER @ OPENING PER HEADER SCHEDULE
- EARTH LAYER
- INDICATES SAND OR GROUT
- INDICATES GRAVEL
- STEEL IN CROSS SECTION
- INDICATES BEARING WALL
- SHADED AREA INDICATES CALIFORNIA FRAMING
- SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE
- STEEL HSS TUBE COLUMN
- STEEL HSS OR PIPE COLUMN
- WIDE FLANGE STEEL COLUMN
- WOOD POST
- INDICATES SHEAR WALL STRAP / HOLDOWN TYPE PER SCHEDULE
- INDICATES PAD FOOTING TYPE PER SCHEDULE
- INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
- ANGLE BRACE
- (2L) DOUBLE ANGLE BRACE
- DRAG STRUT CONNECTION
- FULL HEIGHT STIFFENER CONNECTION
- MOMENT CONNECTION
- MEMBER SPLICE
- (+3") TOP OF STEEL ± ELEVATION
- [X] NUMBER OF EVENLY SPACED SHEAR STUDS
- [X–Y–Z] SPECIAL STUD SPACING SEE TYPICAL STEEL DETAILS
- <3/4> BEAM CAMBER AT MID-SPAN

WALL TYPES

- INDICATES PLYWOOD SIDE FOR SHEARWALL
- INDICATES BEARING WOOD WALL BELOW
- INDICATES BEARING WOOD WALL ABOVE
- INDICATES NON-BEARING WOOD WALL BELOW
- INDICATES NON-BEARING WOOD WALL ABOVE
- INDICATES EXISTING BEARING WOOD WALL
- INDICATES EXISTING NON-BEARING WOOD WALL
- INDICATES BEARING CMU WALL BELOW
- INDICATES BEARING CMU WALL ABOVE
- INDICATES NON-BEARING CMU WALL BELOW
- INDICATES NON-BEARING CMU WALL ABOVE
- INDICATES EXISTING BEARING CMU WALL
- INDICATES EXISTING NON-BEARING CMU WALL
- INDICATES BEARING CONCRETE WALL BELOW
- INDICATES BEARING CONCRETE WALL ABOVE
- INDICATES NON-BEARING CONCRETE WALL BELOW
- INDICATES NON-BEARING CONCRETE WALL ABOVE
- INDICATES EXISTING BEARING CONCRETE WALL
- INDICATES EXISTING NON-BEARING CONCRETE WALL

SHEET INDEX

ABBREVIATIONS

A & B	ABOVE AND BELOW
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE AMERICAN PLYWOOD ASSOCIATION)
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BOT OR B	BOTTOM
BRC	BRACE
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR C	CAMBER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DO OVER
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FJ	FLOOR JOIST
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRMG	FRAMING
FT	FOOT; FEET
FTA	FLOOR TIE ABOVE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HP	HIGH POINT
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KS	KING STUD
KP	KING POST
KSI	KIPS PER SQUARE INCH
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLES
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
P.A	POST ABOVE
PARA OR //	PARALLEL
PC	PRECAST; PIECE
PERP	PERPENDICULAR
PI	PLYWOOD INDEX
PL OR PL.	PLATE
PL	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLCS	PLACES
PLY	PLYWOOD
PROP	PROPERTY
PT	PRESSURE TREATED
PW	PLATE WASHER
PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
RR	ROOF RAFTER
Ø	ROUND; DIAMETER
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
T & B	TOP AND BOTTOM
T & G	TONGUE & GROOVE
TO	TOP OF
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
THK	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL/TOP OF SLAB
TOW	TOP OF WALL
TS	TRIMMER STUD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
W/	WITH
W/O	WITHOUT
WO	WHERE OCCURS
WD	WOOD
WP	WORK POINT; WATERPROOF
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

W	W SHAPE
C	AMERICAN STD CHANNEL SHAPE
MC	MISC. CHANNEL SHAPE
L	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	HOLLOW STRUCTURAL SECTION

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: SHEET INDEX, ABBREVIATIONS, & SYMBOLS

RICHARD DOREMUS — No. S 6885 — REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL — STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-101

REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14, ASTM A706, GRADE 60 UNO. ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-14 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
   A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
   B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
   C. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-14.
2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-14 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
4. REINFORCING BAR LAP SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
   A. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-14 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
   B. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE PER ACI 530-13 SECTION 8.1.6.7.1 OR 9.3.3.4 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E80XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL", AWS-D1.4-15. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
7. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.
8. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. THE REINFORCING PLACEMENT DRAWINGS SHALL INCLUDE ALL PRIMARY REINFORCEMENT, LAP SPLICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-14.
10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO PLACEMENT OF CONCRETE PER ACI 318-14 SECTION 26.13.2.3 OF THE CODE.
11. WHEN REQ'D, INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
12. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR NO.5 BAR, W31 OR D31 WIRE & SMALLER	2 1 ½"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO.14 AND NO. 18 BARS NO.11 BAR & SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	 1 ½" ¾" 1 ½"

13. MECHANICAL BAR SPLICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-14 SECTION 25.5.7 USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPLICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION. ACCEPTABLE PRODUCTS INCLUDE:

    LENTON STANDARD COUPLERS (IAPMO-ES 0129)
    LENTON FORM SAVERS, TYPE SA (IAPMO-ES 0129)
    LENTON WELDABLE HALF COUPLERS (IAPMO-ES 0129)
    LENTON LOCK COUPLERS PER (IAPMO-ES 0129)

    NOTE THAT REBAR ATTACHED TO PLATE USING LENTON WELDABLE HALF COUPLERS SHALL BE ASTM A706 PER IAPMO-ES 0129.

    ALL MECHANICAL BAR SPLICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-14 SECTION 18.2.7 & 18.12.7.4

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14.
2. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)[A]	C150
CONCRETE AGGREGATES (HARDROCK)	C33
CONCRETE AGGREGATES (LIGHTWEIGHT)[C]	C330
WATER[B]	C1602
COAL FLY ASH OR POZOLLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

   A. FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-14 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
   B. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.
   C. PUMICE AGGREGATE SHALL NOT BE USED.
3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-14, WHICH REFERENCES ACI 301-10 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 301-10 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	MAX SLUMP (INCH)	MAX WATER/CEMENT RATIO	SLAG/ FLY ASH[A] (MAX)
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	4,000	150	4	0.5	0.15
CONCRETE BASEMENT WALLS/STEM WALLS	4,000	150	4	0.5	0.15
CONCRETE SLAB ON GRADE	3,000	150	4	0.45	0.15
STAIRS ON GRADE, CURBS AND OTHER NON-STRUCTURAL CONCRETE	3,000	150	4	0.5	0.15
SITE WALLS	3,000	150	4	0.5	0.15

   A. AS MEASURED BY CEMENTITIOUS WEIGHT
4. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OF C685.
5. DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-14 AND PROJECT SPECIFICATIONS.
6. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
7. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
9. PIPES EMBEDDED IN CONCRETE:
   A. CONCRETE
      a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
      b. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
      c. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
      d. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS AND SUPPLEMENTAL LETTERS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

REPORT/ADDENDUM TITLE	PREPARED BY	DATE	PROJECT #
GEOTECHNICAL ENGINEERING REPORT MISSION PLAZA RESTROOM AND CAFE SAN LUIS OBISPO MISSION PLAZA SAN LUIS OBISPO, CALIFORNIA	EARTH SYSTEMS PACIFIC 4378 OLD SANTA FE ROAD SAN LUIS OBISPO, CA 93401	OCTOBER 21, 2022	305341-001

2. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	ALLOWABLE BEARING CAPACITY (PSF) [A]	ALLOWABLE LATERAL RESISTANCE [B]	
		PASSIVE RESISTANCE (PSF/FT BELOW GRADE)	FRICTION RESISTANCE (COEFFICIENT OF FRICTION)
BUILDING FOUNDATION	2,000	350 150 (2:1 SLOPING DOWN)	0.35
RET WALL	1,500		

   NOTES:
   A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
   B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE WITH THE LESSER REDUCED BY 33 PERCENT.
   C. THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
   D. COMPACTED FILL SHOULD BE PREPARED PER SECTION 6.0 GEOTECHNICAL EVALUATION REPORT
4. SLAB ON GRADE SUPPORT SHALL BE PER THE GEOTECHNICAL INVESTIGATION REPORT AND TYPICAL DETAILS IN THE CONSTRUCTION DOCUMENTS.
5. WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
6. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
7. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
8. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
9. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
10. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705.6 OF THE CODE.
11. ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

DIMENSIONS

1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON STRUCTURAL DRAWINGS.
4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

DESIGN INFORMATION

1. FLOOR LIVE LOADS: (2019 CBC SECTION 1603.1.1)

FLOOR LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
TOILET ROOMS	60	—	ASCE 7-16 TABLE C4.3-1

2. ROOF LIVE LOADS (2019 CBC SECTION 1603.1.2)

ROOF LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20	—	2019 CBC TABLE 1607.1

3. ROOF SNOW LOADS (2019 CBC SECTION 1603.1.3):

SNOW DESIGN DATA		
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	P_g = 0 PSF	ASCE 7-16 7.2

4. WIND DESIGN DATA (2019 CBC SECTION 1603.1.4) :

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V_{ULT} = 90 MPH	2019 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V_{ASD} = 70 MPH	2019 CBC 1609.3.1
EXPOSURE CATEGORY	C	2019 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)				
LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)		
		10	100	500
ROOF	ZONE 1	-1.8	-0.8	-0.8
	ZONE 2e	-1.8	-0.8	-0.8
	ZONE 2n	-2.0	-1.2	-1.0
	ZONE 2r	-1.8	-0.8	-0.8
	ZONE 3e	-2.5	-1.5	-1.0
	ZONE 3r	-2.0	-1.2	-1.0
	ALL ZONES	0.9	0.5	0.5
OVERHANG	ZONE 1	-2.6	-1.6	-1.6
	ZONE 2e	-2.6	-1.6	-1.6
	ZONE 2n	-2.8	-2.0	-1.8
	ZONE 2r	-2.6	-1.6	-1.6
	ZONE 3e	-3.3	-2.3	-1.8
	ZONE 3r	-2.8	-2.0	-1.8
WALL	ZONE 4	-24.9	-21.6	-19.0
	ZONE 5	-30.7	-23.9	-19.0
	POSITIVE	22.9	19.0	17.1

5. EARTHQUAKE DESIGN DATA (2019 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2019 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_s = 1.059g S_1 = 0.39g	2019 CBC 1613.2.1
SITE CLASS	D	2019 CBC 1613.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S_{DS} = 0.847g S_{D1} =	2019 CBC 1613.2.4

BUILDING PARAMETERS			
PARAMETER	VALUE		REFERENCE
SEISMIC DESIGN CATEGORY	SDC = D		2019 CBC 1613.2.5
BASIC SEISMIC FORCE RESISTING SYSTEM	SPECIAL REINFORCED MASONRY SHEAR WALLS RESTROOM	KIOSK	ASCE 7-16 TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R = 2	1.25	
SYSTEM OVERSTRENGTH FACTOR	Ω_0 = 2½	1.25	
DEFLECTION AMPLIFICATION FACTOR	C_d = 1 ½	1.25	
DESIGN BASE SHEAR	V = 20.8k	4.62k	ASCE 7-16 12.8.1
SEISMIC RESPONSE COEFFICIENTS	C_s = 0.380	0.608	ASCE 7-16 12.8.1.1
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE		ASCE 7-16 12.8

6. GEOTECHNICAL INFORMATION (2019 CBC SECTION 1603.1.6):
   REFER TO FOUNDATION GENERAL NOTES
7. FLOOD DESIGN DATA: (2019 CBC SECTION 1603.1.7)
   THIS PROJECT IS NOT IN A FLOOD PLAIN

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
   A. 2019 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2019 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
   B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
   C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
   E. FLOOR AND ROOF FINISHES
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
7. SEE CIVIL DRAWINGS FOR THE FOLLOWING:
   A. HEIGHT AND/OR ELEVATION OF:
      a. FINISHED SURFACE
      b. TOP OF WALL
      c. TOP OF GRADE
      d. FINISHED GRADE
      e. SLOPE
   B. SITE CONCRETE WALKWAYS, CURBS & PAVING
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC., THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
9. BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH. FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS, BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED , AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
10. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC.,
11. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
12. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
13. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
14. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
15. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING
16. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
17. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
GENERAL NOTES

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-102

TESTING CRITERIA FOR POST-INSTALLED ANCHORS IN CONCRETE / MASONRY

1. CONDUCT TESTING OF POST- INSTALLED ANCHORS PER SECTION 1901.3.4 OF THE CODE.
2. WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC-ES EVALUATION SERVICES REPORT CALL FOR THE APPLICATION OF AN INSTALLATION TORQUE, THE SPECIFIED TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED.
3. THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE DURING ANCHOR INSTALLATIONS AS REQUIRED PER CHAPTER 17 OF THE CODE. UNLESS OTHERWISE NOTED IN ICC-ES ESR, TO VERIFY ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND INSTALLATION TORQUE.
4. TEST LOAD: REQUIRED TEST LOADS SHALL BE DETERMINED BY ONE OF THE FOLLOWING METHODS:
   A. TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1 1/4) TIMES THE MAXIMUM DESIGN STRENGTH PROVIDED BY THE ICC REPORT OR DETERMINED PER ACI 318. THE TENSION TEST LOAD NEED NOT TO EXCEED 80 PERCENT OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR (0.8 As Fy). SEE STRUCTURAL DETAILS FOR DESIGN-BASED TENSION TEST LOADS FOR ADHESIVE ANCHORS.
   B. THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED BY THE ICC REPORT.
5. TENSION OR TORQUE TESTING OF POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE IOR AND ENFORCEMENT AGENCY.
6. THE SPECIAL INSPECTOR SHALL SELECT ANCHORS FOR TESTING AT RANDOM.
7. TEST FREQUENCY:

APPLICATION	QUANTITY
STRUCTURAL	100% OF BOLTS
NON-STRUCTURAL (SUCH AS EQUIPMENT ANCHORAGE)	50%; ALTERNATE BOLTS IN A GROUP (TEST AT LEAST HALF OF THE ANCHORS IN GROUP)
SILL PLATE BOLTING	10% OF BOLTS

EXCEPTIONS:

   A. UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET SHALL NOT REQUIRE TESTING.
   B. WHERE THE FACTORED DESIGN TENSION ON ANCHORS IS LESS THAN 100 LBS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS.
   C. WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS IN HARDENED CONCRETE, ONLY 25 PERCENT OF THE DOWELS SHALL BE TESTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
      - THE DOWELS ARE USED EXCLUSIVELY TO TRANSMIT SHEAR FORCES ACROSS JOINTS BETWEEN EXISTING AND NEW CONCRETE.
      - THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS 12.
      - THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING MEMBERS (SUCH AS SHEAR WALLS, COLLECTORS, AND DIAPHRAGMS).
   D. TESTING OF SHEAR DOWELS ACROSS COLD JOINTS IN SLAB ON GRADE, WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM SHALL NOT BE REQUIRED.
   E. TESTING IS NOT REQUIRED FOR POWER ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEAST THREE FASTENERS PER SEGMENT OF TRACK.
8. TEST METHODS: TEST LOADS MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY TRANSMIT A MEASURABLE TENSION LOAD TO THE ANCHOR. ACCEPTABLE METHODS INCLUDE:
   A. USE OF HYDRAULIC JACK, WHEREBY EITHER UNCONFINED OR CONFINED TESTING SHALL BE ACCEPTABLE;
   B. USE OF CALIBRATED SPRING LOADED DEVICES; OR
   C. USE OF A CALIBRATED TORQUE WRENCH FOR TORQUE-CONTROLLED EXPANSION ANCHORS.
9. TEST ACCEPTANCE CRITERIA: ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS SHALL BE BASED ON THE ICC REPORT OR MANUFACTURER'S WRITTEN INSTRUCTION AS ACCEPTABLE TO OSHPD. FIELD TESTS SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:
   A. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. SCREW ANCHORS MAY BE LOOSENED A MAXIMUM ONE FULL TURN TO FACILITATE THE POSITIONING OF A TENSION TEST COLLAR.
   B. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN HALF (1/2) TURN OF THE NUT.

      EXCEPTIONS:

      - WEDGE OR SLEEVE TYPE: ONE-QUARTER (1/4) TURN OF THE NUT FOR A 3/8 INCH ANCHOR ONLY.
      - THREADED TYPE: ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.
10. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, AND NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY.
11. REQUIRED TORQUE TEST LOADS SHALL BE EQUAL TO THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE PROVIDED IN THE ICC-ESR FOR THE SPECIFIC ANCHOR. TEST TORQUE VALUES ARE SUMMARIZED IN THE TABLE BELOW:

LOCATION IN STRUCTURE	SIMPSON		
	INSTALLATION TORQUE (FT-LBS)		
INCHES	SIMPSON STRONG-BOLT2 (ICC-ES ESR 3037)	SIMPSON WEDGE-ALL (ICC-ES ESR 1396)	SIMPSON TORQ-CUT SELF-UNDERCUTTING ANCHOR (ICC-ES ESR 2705)
1/4	4	-	-
3/8	30	30	-
1/2	60	35	90
5/8	90	55	185
3/4	150	120	240

POST-INSTALLED ANCHORS IN CONCRETE / MASONRY

1. POST-INSTALLED ANCHOR CAPACITIES IN CONCRETE SHALL BE DETERMINED PER SECTION 1901.3 OF THE CODE AND ACI 318-14 CHAPTER 17 USING STRENGTH DESIGN.
2. POST INSTALLED ANCHORS IN CONCRETE AND MASONRY SHALL BE PREQUALIFIED FOR SEISMIC APPLICATIONS IN ACCORDANCE WITH THE FOLLOWING INSTALLATION OF POST-INSTALLED ANCHORS SHALL BE IN ACCORDANCE WITH THE LISTED APPLICABLE ICC EVALUATION REPORT.

SUBSTRATE MATERIAL	ANCHOR TYPE	ANCHOR PRODUCT	ICC EVALUATION REPORT	ACCEPTANCE CRITERIA
CONCRETE	EXPANSION ANCHORS	SIMPSON STRONGBOLT 2	ICC ESR-3037	AC193
CMU	EXPANSION ANCHORS	SIMPSON STRONGBOLT 2	IAPMO ES ER 240	ACI01 OR ACI106
CONCRETE	SCREW ANCHOR	SIMPSON TITEN HD	ICC ESR-2713	AC193
CMU	SCREW ANCHOR	SIMPSON TITEN HD	ICC ESR-1056	AC106
CONCRETE	ADHESIVE ANCHORS	SIMPSON SET-XP	ICC ESR-2508	AC193
CMU	ADHESIVE ANCHOR	SIMPSON SET-XP	IAPMO ES ER 265	AC58
CONCRETE	POWER ACTUATED FASTENER**	SIMPSON PDPAW	ICC ESR-2138	AC70

**LIMITATIONS OF USE OF POWER ACTUATED FASTENERS:
PER SECTION 13.4.5 OF ASCE 7-16 POWER ACTUATED FASTENERS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED TENSION LOADS OR FOR BRACE APPLICATIONS IN SEISMIC UNLESS APPROVED FOR SEISMIC LOADING. POWER ACTUATED FASTENERS IN MASONRY SHALL NOT BE PERMITTED UNLESS APPROVED FOR SEISMIC LOADING.

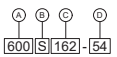
EXCEPTION: POWER ACTUATED FASTENERS IN CONCRETE USED FOR SUPPORT OF ACOUSTICAL TILE OR LAY-IN PANEL SUSPENDED CEILING APPLICATIONS AND DISTRIBUTED SYSTEMS WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 90 LB.

3. EXPANSION ANCHOR EMBEDMENTS IN THE DRAWINGS ARE MINIMUM "EFFECTIVE EMBEDMENTS" (hef) AS SHOWN IN THE ICC REPORT CORRESPONDING TO THE ANCHOR.
4. LOCATE ALL EXISTING REINFORCEMENT BY NON-DESTRUCTIVE MEANS (X-RAY, PACOMETER, GPR, ETC.) PRIOR TO DRILLING OR INSTALLING POST-INSTALLED ANCHORS. COORDINATE POST-INSTALLED ANCHOR LOCATIONS WITH LOCATIONS OF EXISTING REINFORCEMENT. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.
5. ALL POST-INSTALLED ANCHORS USED IN DRY INTERIOR CONDITIONS SHALL BE CARBON STEEL, U.N.O
6. ALL POST-INSTALLED ANCHORS USED AT EXTERIOR CONDITIONS, EXPOSED TO THE ELEMENTS, OR USED IN A DAMP ENVIRONMENT (I.E. KITCHENS) SHALL BE STAINLESS STEEL, U.N.O.
7. WHERE POST-INSTALLED MECHANICAL ANCHORS ARE USED FOR NON-VIBRATION ISOLATED MECHANICAL EQUIPMENT RATED OVER 10 HP, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH ACI 355.2.
8. IF THE CONCRETE CRACKS DURING THE INSTALLATION OF AN ANCHOR, THE ANCHOR SHALL BE REMOVED OR ABANDONED. FOR ABANDONED ANCHORS AND ABANDONED ANCHOR HOLES:
   A. FILL ALL EMPTY ABANDONED ANCHOR HOLES WITH A DRY-PACK MORTAR.
   B. FOR ABANDONED EXPANSION ANCHORS WHICH CANNOT BE REMOVED WITHOUT DAMAGING THE SUBSTRATE, CUT/BURN OFF THE END OF THE BOLT FLUSH WITH THE FACE OF CONCRETE/MASONRY AND THEN DRIVE ABANDONED ANCHOR TO BOTTOM OF HOLE. FILL REMAINDER OF HOLE WITH A DRY-PACK MORTAR.
   C. FOR ABANDONED ADHESIVE OR UNDERCUT ANCHORS WHICH CANNOT BE REMOVED WITHOUT DAMAGING THE SUBSTRATE, BURN OFF THE END OF THE BOLT/ROD 1" BELOW THE SURFACE OF CONCRETE/MASONRY AND FILL REMAINDER OF HOLE WITH A DRY-PACK MORTAR.
   D. ABANDONED ANCHOR HOLES (WHETHER FILLED WITH DRY-PACK OR CONTAINING ABANDONED ANCHORS) MAY NOT BE LOCATED ANY CLOSER THAN 3 DIAMETER CENTER-TO-CENTER TO ANY ANCHOR IN SERVICE. ANCHORS NOT MEETING THIS MINIMUM SPACING MAY HAVE REDUCED CAPACITY AND SHALL BE REVIEWED WITH THE SEOR.

SUBSTRATE MATERIAL	ANCHOR TYPE	ANCHOR PRODUCT	ICC EVALUATION REPORT	ACCEPTANCE CRITERIA
CONCRETE	EXPANSION ANCHORS	HILTI KB-TZ	ICC ESR-1917	AC193
CONCRETE	SCREW ANCHOR	HILTI KH-EZ	ICC ESR-3027	AC193
CONCRETE	ADHESIVE ANCHORS	HILTI HIT-HY 200	ICC ESR-3187	AC308
CONCRETE	POWER ACTUATED FASTENER**	HILTI X-U	ICC ESR-2269	AC70

COLD-FORMED STEEL (LIGHT GAGE METAL FRAMING)

1. ALL LIGHT GAGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 2211 OF THE CODE AND AISI S100-16 "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
2. MEMBER IDENTIFICATION SHALL BE AS SHOWN:
   A. MEMBER DEPTH:
      (EXAMPLE: 6" = 600/100 INCHES)
      ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH INCREMENTS. FOR "I" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.
   B. STYLE:
      (EXAMPLE: STUD OR JOIST SECTION = "S")
      THE FOUR ALPHA CHARACTERS USED TO DESIGNATE THE TYPE OF SECTION ARE:
      - S = STUD OR JOIST SECTIONS
      - T = TRACK SECTIONS
      - U = CHANNEL SECTIONS
      - F = FURRING CHANNEL SECTIONS
   C. FLANGE WIDTH:
      (EXAMPLE: 1 5/8" = 1.625" = 162/100 INCHES)
      ALL MEMBER FLANGE WIDTH ARE TAKEN IN 1/100 INCH INCREMENTS.
   D. MATERIAL THICKNESS:
      (EXAMPLE: 0.054" = 54 MIL = 54/1,000 INCHES)
      MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.



3. ALL CALCULATED MEMBER PROPERTIES PER AISI SPECIFICATIONS ARE BASED ON THE FOLLOWING THICKNESSES:

MINIMUM THICKNESS	REFERENCE GAGE	DESIGN THICKNESS
33 MIL	20 GA - STRUCTURAL	0.0346"
43 MIL	18 GA	0.0451"
54 MIL	16 GA	0.0566"
68 MIL	14 GA	0.0713"
97 MIL	12 GA	0.1017"
118 MIL	10 GA	0.1242"

4. ALL LIGHT GAGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:

GALVANIZED STUDS & TRACKS: 12 (97), 14 (68) OR 16 (54) GAGE (MILS)	ASTM A653 SQ, GR 50 (Fy = 50,000 PSI)
GALVANIZED STUDS & TRACKS: 18 (43), 20 (33) GAGE (MILS)	ASTM A653 SQ, GR 33 (Fy = 33,000 PSI)
GALVANIZED BACKING PLATES:	ASTM A653 SQ, GR 50 (Fy = 50,000 PSI)
GALVANIZED END CLOSURES, BRIDGING AND ACCESSORIES	ASTM A653 SQ, GR 33 (Fy = 33,000 PSI)

5. ALL LIGHT GAGE METAL FRAMING SHALL BE GALVANIZED.
6. DOUBLE VERTICAL STUDS SHALL BE STITCH WELDED TOGETHER ON BOTH FLANGES WITH 1/16" GROOVE WELDS x 1" LONG AT 12" ON CENTER, U.N.O. ON DRAWINGS.
7. TOP AND BOTTOM TRACK GAGE THICKNESS SHALL MATCH THE GAGE THICKNESS OF THE WALL STUDS, U.N.O.
8. MINIMUM STUD PROPERTIES SHALL BE PER AISI S100-16.
   THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
   - CLARK DIETRICH (ICC ESR 4782 AND 4784P)
   - CEMCO (ICC ESR 3016)
   - APPROVED EQUAL
9. ALL SHEET METAL SCREWS SHALL PROTRUDE 1/4" MIN THROUGH METAL FRAMING.
10. THE CONTRACTOR IS PROHIBITED FROM USING TORCHES TO BURN HOLES IN TRACKS OR STUDS.
11. PUNCHED OPENINGS IN THE PARTITION WALL STUDS AND EXTERIOR WALL STUDS NEED TO BE LOCATED A MINIMUM OF 1.5 TIMES THE DEPTH OF THE STUD FROM THE CONNECTION AT THE FLOOR, CONNECTION AT THE UNDERSIDE OF THE DECK, AND CONNECTIONS OF HEADERS AND SILLS TO JAMBS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH AISC 360-16 AND CHAPTER 22 OF THE CODE.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

W SHAPES, WT SHAPES	A992
ANGLES, CHANNELS	A36
HSS	A500 GRB
SIMPLE SHEAR TAB CONNECTION PLATES (AS NOTED ON DWG'S)	A36
HIGH STRENGTH BOLTS (AS NOTED ON DRAWINGS)	A325/F1852, A490SC/F2280SC A325SC/F1852SC
ANCHOR RODS (AS NOTED ON DRAWINGS)	F1554 GR36
COMMON/MACHINE BOLTS	A307 GR A

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR REVIEW AND APPROVAL BY THE AOR AND SEOR PRIOR TO FABRICATION.
4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED, EXCEPT AS REQUIRED FOR DESIGNATION OF PROTECTED ZONES.
6. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, CONTRACTOR SHALL LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, CONTRACTOR SHALL COORDINATE AND SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO SEOR FOR REVIEW AND APPROVAL. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.
7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, UNLESS CALLED OUT TO BE PAINTED ON THE CONSTRUCTION DOCUMENTS. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH / COLD GALVANIZING. REFER TO ARCH DRAWINGS FOR STEEL FINISH. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO REQUIREMENTS OF AISC 303-16.
8. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1-10) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS. ALL WELDING FOR ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM SHALL PER AWS D1.8-09.
9. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS FOR REVIEW AND APPROVAL BY SEOR. THE SUBMITTED WELDING PROCEDURES SHALL INCLUDE ONLY THOSE PROCEDURES RELEVANT TO THIS PROJECT. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.
10. 100 PERCENT ULTRASONIC TESTING IS REQUIRED FOR ALL COMPLETE JOINT PENETRATION GROOVE WELDS.
11. IF INTERMIXING OF WELD FILLER MATERIAL IS REQUIRED AT SPECIFIC WELDED JOINTS, AND IF ONE OF THE FILLER METALS IS FCAW-S, SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) AND QUALIFY BY TESTING.
12. DISCONTINUITIES IN WELDS CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR ARC GOUGING AND FLAME CUTTING SHALL BE REPAIRED AS REQUIRED BY SEOR.

STEEL HEADED STUDS

1. ALL HEADED STUDS WELDED TO BEAMS OR CONCRETE CONNECTIONS SHALL BE NELSON STUDS (ICC-ESR 2856), OR APPROVED EQUAL. STUD MATERIAL SHALL BE IN ACCORDANCE WITH AWS D1.1-10, "STRUCTURAL WELDING CODE-STEEL"
2. NELSON SHEAR CONNECTOR STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD WITH EQUIPMENT AND PROCEDURES RECOMMENDED BY NELSON STUD WELDING, INC. AND COMPLY WITH AISC 360-16 SECTION M2, ITEM 4 AND AWS D1.1-10. WELDING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE.
3. ALL SURFACES TO RECEIVE NELSON STUDS SHALL BE CLEAN, UNPAINTED AND FREE OF HEAVY RUST AND MILL SCALE, DIRT, SAND OIL, WATER OR OTHER DELETERIOUS MATERIALS.

STEEL HEADED STUDS

1. ALL HEADED STUDS WELDED TO BEAMS OR CONCRETE CONNECTIONS SHALL BE NELSON STUDS (ICC-ESR 2856), OR APPROVED EQUAL. STUD MATERIAL SHALL BE IN ACCORDANCE WITH AWS D1.1-10, "STRUCTURAL WELDING CODE-STEEL"
2. NELSON SHEAR CONNECTOR STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD WITH EQUIPMENT AND PROCEDURES RECOMMENDED BY NELSON STUD WELDING, INC. AND COMPLY WITH AISC 360-16 SECTION M2, ITEM 4 AND AWS D1.1-10. WELDING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE.
3. ALL SURFACES TO RECEIVE NELSON STUDS SHALL BE CLEAN, UNPAINTED AND FREE OF HEAVY RUST AND MILL SCALE, DIRT, SAND OIL, WATER OR OTHER DELETERIOUS MATERIALS.

MASONRY

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 402-16) PUBLISHED BY THE MASONRY SOCIETY AND WITH CHAPTER 21 OF THE CODE.
2. CONCRETE MASONRY UNITS SHALL COMPLY WITH SECTION 2103.1 OF THE CODE AND BE HOLLOW LOAD BEARING CONFORMING TO ASTM C90 AND MEET THE FOLLOWING REQUIREMENTS:

WALL DESIGN STRENGTH	NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS	DENSITY
f'm = 2,000 PSI	2,000 PSI MINIMUM	MEDIUM WEIGHT
f'm = 2,500 PSI	3,250 PSI MINIMUM	MEDIUM WEIGHT

3. MORTAR SHALL CONFORM TO SECTION 2103.2 OF THE CODE AND ASTM C270 AND HAVE THE FOLLOWING PROPERTIES AND STRENGTHS:

WALL DESIGN STRENGTH	MORTAR TYPE	MORTAR 28 DAY COMPRESSIVE STRENGTH
f'm = 2,000 PSI	S	2,000 PSI MINIMUM
f'm = 2,500 PSI	M	2,500 PSI MINIMUM

SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.

4. GROUT SHALL COMPLY WITH SECTION 2103.3 OF THE CODE AND ASTM C476. GROUT SHALL MEET THE FOLLOWING REQUIREMENTS:

WALL DESIGN STRENGTH	COMPRESSIVE STRENGTH	GROUT 28 DAY MIX DESIGN
f'm = 2,000 PSI	2,000 PSI	3 PARTS SAND 2 PARTS PEA GRAVEL 1 PART PORTLAND CEMENT 8-11 INCH SLUMP
f'm = 2,500 PSI		SUBMIT MIX DESIGN

SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.

5. MORTAR AND GROUT COMPONENTS SHALL CONFORM WITH THE FOLLOWING:

COMPONENT	ASTM	NOTES
SAND	ASTM C144	
LIME	ASTM C207	
PORTLAND CEMENT	ASTM C150	TYPE I or II, LOW ALKALI < 6 MONTHS OLD
PEA GRAVEL	ASTM C301	

6. ADMIXTURES SHALL NOT BE USED IN GROUT EXCEPT BY SPECIFIC CONSENT OF SEOR. SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.
7. REINFORCING BARS - SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.
8. PROVIDE A MINIMUM OF 1/2" CLEAR BETWEEN MAIN REINFORCING AND MASONRY UNITS.
9. ALL CELLS SHALL BE GROUTED SOLID.
10. DESIGN f'm = 2,000 PSI FOR CMU CONSTRUCTION, TYPICAL. PRISM TESTING SHALL BE PERFORMED AS PER THE REQUIREMENTS OF PROJECT SPECIFICATIONS. SEE ALSO NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR REQUIREMENTS.
11. USE RUNNING BOND PATTERN UNO BY ARCHITECT. USE OPEN ENDED UNITS FOR STACKED BOND PATTERN.
12. USE OF "HIGH-LIFT" GROUT CONSTRUCTION IS SUBJECT TO APPROVAL BY SEOR AND JURISDICTION. MAX GROUT LIFT HEIGHT SHALL BE 5'-4" IN ACCORDANCE WITH TMS 602-16 ARTICLE 3.5D. GROUT LIFT HEIGHT MAY BE INCREASED TO 12'-8" IF THE FOLLOWING CONDITIONS ARE MET:
   A. MASONRY HAS CURED FOR AT LEAST 4 HOURS
   B. GROUT SLUMP IS MAINTAINED BETWEEN 10" - 11"
   C. NO BOND BEAMS OCCUR BETWEEN TOP AND BOTTOM OF FOUR HEIGHT
   D. CLEANOUTS ARE PROVIDED AT 32" MAX OC FOR CLEANING AND INSPECTION PRIOR TO GROUTING PER TMS 602-16 ARTICLE 3.2F.
13. CONSOLIDATE GROUT AT TIME OF PLACEMENT USING MECHANICAL VIBRATION OR USE A SELF CONSOLIDATING GROUT
14. EMBEDDED PIPES AND CONDUITS
   A. CONDUITS, PIPES AND SLEEVES MAY BE EMBEDDED IN MASONRY ONLY IF COMPLYING WITH THE FOLLOWING REQUIREMENTS:
      a. THEY SHALL BE SPACED NO CLOSER THAN 3 DIAMETERS ON CENTER
      b. THE MAXIMUM AREA OF VERTICAL PIPES, CONDUITS, OR SLEEVES PLACED IN MASONRY COLUMNS OR PILASTERS SHALL NOT EXCEED 2 PERCENT OF THE CROSS SECTION
      c. THE MAXIMUM NUMBER OF PIPES ALLOWED IN A CELL FOR WALLS IS THE FOLLOWING:

WALL THICKNESS	REINFORCED CELL	UN-REINFORCED CELL
8"	(2) 2" Ø (1) 4" Ø	(3) 2" Ø (2) 3" Ø (1) 1" Ø
12"	(4) 2" Ø (3) 3" Ø (2) 1" Ø (1) 1 1/2" Ø	(5) 2" Ø (4) 3" Ø (3) 1" Ø (2) 1 1/2" Ø

      d. WRAP PIPES AND FITTINGS WITH 1/2" FOAM TAPE MIN.

   B. PIPES SHALL NOT BE EMBEDDED IN MASONRY WHEN:
      a. CONTAINING LIQUID GAS OR VAPORS AT TEMPERATURES HIGHER THAN 150° F
      b. UNDER PRESSURE IN EXCESS OF 55 PSI
      c. CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING

   C. ALUMINUM PIPES SHALL NOT BE EMBEDDED IN CMU

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

GENERAL NOTES

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER RAFAEL DOREMUS No. C 85685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-103

SUBMITTALS

1. THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER:
   - A. STEEL INCLUDING MISC. METALS
     - a. SHOP DRAWINGS FOR FABRICATION AND ERECTION
     - b. WPS's (INCLUDING PQR'S AS APPLICABLE)
     - c. REINFORCING STEEL
     - d. SHOP DRAWINGS FOR FABRICATION AND PLACEMENT
2. BEFORE SUBMITTING EACH SUBMITTAL, (INCLUDES SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS), THE CONTRACTOR SHALL HAVE:
   - A. REVIEWED AND COORDINATED EACH SUBMITTAL WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. THIS INCLUDES THE CONTRACTOR REVIEWING AND VERIFYING THAT THE SUBMITTAL IS COORDINATED AMONG ALL CONSTRUCTION TRADES;
   - B. DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS , SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION
   - C. DETERMINED AND VERIFIED ALL INFORMATION RELATIVE TO THE CONTRACTOR'S RESPONSIBILITIES FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS.
   - D. REVIEWED AND VERIFIED THAT THE ARCHITECTS OR ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTAL ROUNDS HAVE BEEN ADDRESSED.
3. EACH SUBMITTAL SHALL BEAR A STAMP OR SPECIFIC WRITTEN CERTIFICATION THAT THE CONTRACTOR HAS SATISFIED THEIR OBLIGATIONS UNDER THE CONTRACT DOCUMENTS WITH RESPECT TO THE CONTRACTOR'S REVIEW AND APPROVAL OF THAT SUBMITTAL.
4. THE CONTRACTOR'S OBLIGATION TO PERFORM AND COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE ABSOLUTE.
   - a. REVIEW AND APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT AND/OR ENGINEER DOES NOT CONSTITUTE APPROVAL OF A CHANGE REQUEST, SUBSTITUTION OR MODIFICATION TO THE CONTRACT DRAWINGS.
   - b. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF CHANGE REQUESTS, SUBSTITUTIONS OR MODIFICATIONS TO THE CONTRACT DRAWINGS IN WRITING BEFORE AND SEPARATE FROM THE SUBMITTAL PRIOR TO SUBMISSION.
5. FABRICATION FOR ITEMS IN THESE DOCUMENTS SHALL NOT COMMENCE UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.

STRUCTURAL OBSERVATIONS

1. IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING ELEMENTS OF CONSTRUCTION:
   - A. FOUNDATION REINFORCING
     SHEATHING NAILING FOR THE WOOD LATERAL FORCE-RESISTING SYSTEM, INCLUDING DIAPHRAGMS AND
2. THE OBJECTIVE OF THE STRUCTURAL OBSERVATION IS TO BECOME FAMILIAR WITH THE PROGRESS AND QUALITY OF THE CONTRACTOR'S WORK AND DETERMINE IF THE WORK IS BEING COMPLETED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS
   - A. STRUCTURAL OBSERVATIONS ARE NOT INSPECTIONS AND SHALL NOT BE USED AS A REPLACEMENT FOR THE SPECIAL INSPECTIONS REQUIRED BY THE CODE OR REFERENCED STANDARD OR FOR SPECIAL INSPECTIONS REQUIRED IN THIS DOCUMENT.
   - B. THE PERSON COMPLETING THE STRUCTURAL OBSERVATIONS DOES NOT HAVE RESPONSIBILITY FOR ANY ACTS OR OMISSIONS BY THE CONTRACTOR OR OF ANY OTHER ENTITY PROVIDING MATERIALS OR SERVICES ON THE PROJECT.
3. ADEQUATE NOTIFICATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER PERFORMING OBSERVATIONS, A MINIMUM OF (2) WORKING DAYS, PRIOR TO OBSERVATION OF THE WORK.

STATEMENT OF SPECIAL INSPECTIONS

1. THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE . THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:
   - A. GENERAL:
     - a. STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.
   - B. OWNER REQUIREMENTS:
     - a. THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.
   - C. SPECIAL INSPECTOR QUALIFICATIONS:
     - a. THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.
   - D. CONTRACTOR REQUIREMENTS:
     - a. SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
     - b. THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
     - c. ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
   - E. SPECIAL INSPECTOR REPORT REQUIREMENTS:
     - a. THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
     - b. THE SPECIAL INPSECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
     - c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
     - d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
     - e. IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
     - f. A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

SHOP FABRICATION

1. SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION:
   - A. STEEL BUILDINGS (OR STEEL ELEMENTS IN OTHER BUILDINGS)
     - a. FOR GENERAL STEEL BUILDINGS OR ELEMENTS THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR IN ACCORDANCE WITH THE AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS (AISC 201-06).
     - b. OTHER ACCREDITATION DEEMED ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION.
     - c. IF FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING INSPECTOR THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
     - d. IF FABRICATION IS NOT PERFORMED BY AN APPROVED FABRICATOR WELDING INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL BY AN APPROVED TESTING AGENCY.
       - e.g. NONDESTRUCTIVE TESTING (NDT) MAY BE PERFORMED BY THE FABRICATOR, HOWEVER THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

GENERAL NOTES

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-104

REQUIRED VERIFICATION AND INSPECTIONS

SOILS
CODE TABLE 1705.6

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

REQUIRED VERIFICATION AND INSPECTIONS

MASONRY
LEVEL 2 QUALITY ASSURANCE

MINIMUM TESTS

PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5	
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 & 1.6 FOR SELF-CONSOLIDATING GROUT	
VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE	

MINIMUM **SPECIAL** INSPECTION

INSPECTION TASK	FREQUENCY [a] CONT	FREQUENCY [a] PERIODIC	REFERENCE FOR CRITERIA TMS 402	REFERENCE FOR CRITERIA TMS 602
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		Art. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		Art. 2.1, 2.6 A
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X		Art. 2.4 B, 2.4 H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS AND PRESTRESSING TENDONS AND ANCHORAGES		X	Art. 3.4, 3.6A	
d. PRESTRESSING TECHNIQUE		X		Art. 3.6 B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X [b]	X [c]		Art. 2.1 C
f. SAMPLE PANEL CONSTRUCTION		X	Art. 1.6 D	
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		Art. 3.2 D, 3.2 F.
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 10.8, 10.9	Art. 2.4, 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS		X	SEC. 6.3.1, 6.3.6, 6.3.7	Art. 3.2 E, 3.4,
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		Art. 2.6 B, 2.4 G.1.b
4. VERIFY DURING CONSTRUCTION:				
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		Art. 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		Art. 3.3 B
c. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		Art. 3.3 F
d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		X	SEC., 1.2.1(e), 6.1.4.3, 6.2.1	
e. WELDING OF REINFORCEMENT	X		SEC., 6.1.6.2	
f. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X		Art. 1.8 C, 1.8 D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			Art. 3.6 B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			Art. 3.5, 3.6 C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X [b]	X [c]		Art. 3.3 B.9, 3.3 F.1.b
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS		X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE TASK LISTED, AS DEFINED IN THE TABLE
(b) REQUIRED FOR THE FIRST 5000 SQ FT OF AAC MASONRY
(c) REQUIRED AFTER THE FIRST 5000 SQ FT OF AAC MASONRY

REQUIRED VERIFICATION AND INSPECTIONS

WOOD
CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2015

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE
3. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING LESS THAN OR EQUAL TO 4" OC. - WOOD DIAPHRAGMS - DRAG STRUTS	—	X	1705.12.2
4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" OC (NOT REQUIRED) - WOOD DIAPHRAGMS - DRAG STRUTS	—	—	1705.12.2
6. METAL PLATE CONNECTED WOOD WITH OVERALL HEIGHTS OF 60 INCHES OR GREATER - PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	—	X	1705.5.2

REQUIRED VERIFICATION AND INSPECTIONS CONT.

STEEL ELEMENTS OF COMPOSITE CONSTRUCTION
DECK AND HEADED STUDS

INSPECTION TASKS PRIOR TO CONCRETE PLACEMENT (AISC 360-16 N.6.1)			
1. PLACEMENT AND INSTALLATION OF STEEL DECK	P	P	—
2. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	—
3. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	P	—

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, OR STEEL ELEMENT.

REFER TO CONCRETE TABLE FOR REQUIRED GROUTING INSPECTIONS BELOW BASE PLATES.

REQUIRED VERIFICATION AND INSPECTIONS

CONCRETE CONSTRUCTION
CODE TABLE 1705.3

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT REINFORCMENT AND VERIFY PLACEMENT.	—	X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$" AND c. INSPECT ALL OTHER WELDS	— — X	X X —	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 17.8.2	—
5. VERIFY USE OF REQUIRED MIX DESIGN	—	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	1908.9
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI318: 26.11.1.2 (b)	—

SPECIAL INSPECTIONS LISTED FOR CONCRETE ALSO APPLY TO GROUTING OPERATIONS.

REQUIRED VERIFICATION AND INSPECTIONS

STEEL
WELDING

INSPECTION TASKS PRIOR TO WELDING (AISC 360-16 N.5.4-1)	QC	QA	AWS 2015 D1.1 REFERENCE
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	6.3
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	6.2
3. WPS AVAILABLE	P	P	-
4. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	6.2
5. WELDER IDENTIFICATION SYSTEM	O	O	6.4
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	O	O	6.5.2 5.22 5.15 5.18 5.10, 5.22.1.1
7. FIT-UP OF GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	P	O	- - - -
8. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	6.5.2, 5.1.7 & AISC 360-16 J1.6
9. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	O	O	5.22.1 5.15 5.18
10. CHECK WELDING EQUIPMENT	O	—	6.2, 5.1.1
INSPECTION TASKS DURING WELDING (AISC 360-16 N.5.4-2)			
1. CONTROL AND HANDLING OF WELDING CONSUMABLES -PACKAGING -EXPOSURE CONTROL	O	O	6.2 5.3.1 5.3.2 (SMAW) 5.3.3 (SAW)
2. NO WELDING OVER CRACKED TACK WELDS	O	O	5.18
3. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	O	5.12.1 5.12.2
4. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) - PROPER POSITIONS (F, V, H, OH)	O	O	6.3.3, 6.5.2, 5.5, 5.21 5.6, 5.7
5. WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	O	6.5.2, 6.5.3, 5.24 5.30.1
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	-
INSPECTION TASKS AFTER WELDING (AISC 360-16 N.5.4-3)			
1. WELDS CLEANED	O	O	5.30.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	P	P	6.5.3 TABLE 6.1(1) TABLE 6.1(2) TABLE 6.1(3) TABLE 6.1(4), 5.24 TABLE 6.1(6) TABLE 6.1(7) TABLE 6.1(8)
4. ARC STRIKES	P	P	5.29
5. k-AREA	P	P	AISC 360-16 CA-3.1c & J10.8
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [a]	P	P	-
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	5.10, 5.31
8. REPAIR ACTIVITIES	P	P	6.5.3, 5.26
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	6.5.4, 6.5.5
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O	-

STEEL
BOLTING

INSPECTION TASKS PRIOR TO BOLTING (AISC 360-16 N.5.6-1)	QC	QA	2014 RCSC SPEC. REFERENCE
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	FIGURE C-2.1, 9.1 (SEE ASTM STANDARDS)
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING DETAILS SELECTED FOR THE JOINT DETAIL	O	O	4, 8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O	O	3, 9.1, 9.3
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	P	O	7, 9.2
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	2.2, 8, 9.1
INSPECTION TASKS DURING BOLTING (AISC 360-16 N.5.6-2)			
1. FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.	O	O	8.1, 9.1
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	O	O	8.1, 9.1
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	8.2, 9.2
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O	8.2, 9.2
INSPECTION TASKS AFTER BOLTING (AISC 360-16 N.5.6-3)			
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	—

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

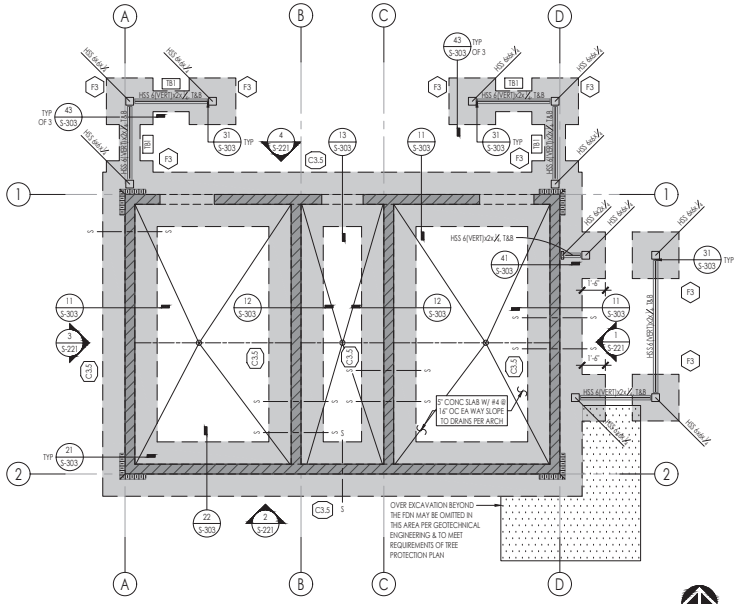
PROJECT TITLE:

SPECIAL INSPECTIONS & TESTS

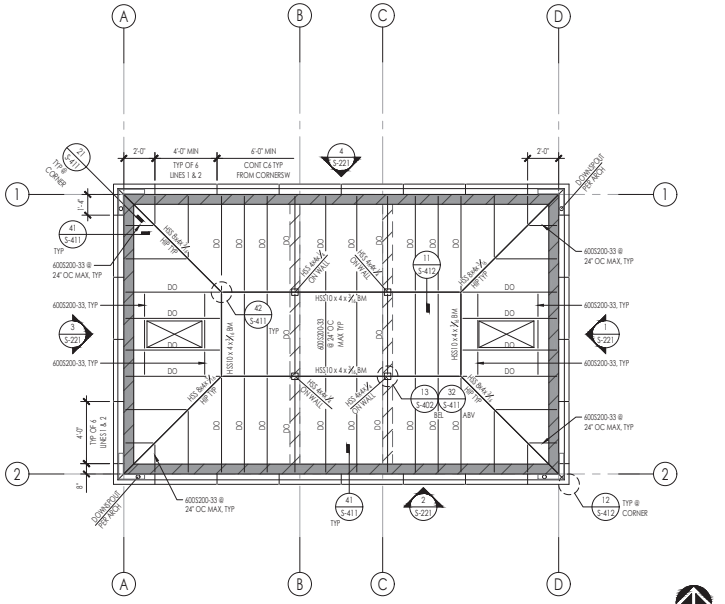
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 5685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-105



1 RESTROOM FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



2 RESTROOM ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-104
TESTING AND INSPECTION	S-105
TYPICAL CONCRETE DETAILS	S-301 -S-302
TYPICAL MASONRY DETAILS	S-303, S-401-403
TYPICAL STEEL DETAILS	S-404 - S-407

2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE FINISHED FLOOR ELEVATION = 0'-0" CORRESPONDS TO FINISHED FLOOR ELEVATION.
3. ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE/MASONRY, FACE OF SHEATHING, OR CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS, UNO.
4. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR ANY EMBEDDED ITEMS AND ALL EXTERIOR CONCRETE PAVING.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. SEE ARCHIECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.
9. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
10. FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 31/S-301.
11. THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
12. BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL:
    A. 30" BELOW LOWEST ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO.
    B. 30" BELOW LOWEST ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO.

SYMBOL LEGEND

- INDICATES CONCRETE CURB PER DETAIL 21/S-303
- INDICATES CONC MASONRY WALL PER DETAIL 11/S-303
- INDICATES STEPPED FOOTING PER DETAIL 33/S-301
- INDICATES SLAB CONTROL JOINT PER 11/S-302

SCHEDULES

PAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL
F3	3'-0"	3'-0"	2'-0"	SEE NOTE 12	(4) #5, EW	(4) #5 , EW	43/S-303

TIE BEAM SCHEDULE

TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
TB1	1'-4"	1'-0"	SEE NOTE 12	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	32/S-303

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST ADJ GRADE	LONG REINF	STIRRUP	DETAIL
C3.5	3'-6"	1'-3"	SEE NOTE 12	(3) #5 T&B	#3 @ 12" OC	11,12 /S-303

ROOF FRAMING NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
    A. GRID DIMENSIONS AND HORIZONTAL CONTROL
    B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC
    C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS
    D. ALL NON STRUCTURAL WALLS
2. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-104
TESTING AND INSPECTION	S-105
TYPICAL CONCRETE DETAILS	S-301 -S-302
TYPICAL MASONRY DETAILS	S-303, S-401-403
TYPICAL STEEL DETAILS	S-404 - S-407

3. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
4. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23, 33/S-406 FOR TYPICAL OPENINGS, UNO.
5. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAILS 11-43/S-404, UNO.
6. DIAPHRAGM TYPES:
   ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO
   REFER TO 12/S-406
7. FRAMING MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL.
8. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE FRAMING IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.

SYMBOL LEGEND

- INDICATES CONC MASONRY WALL BELOW

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & CAFE

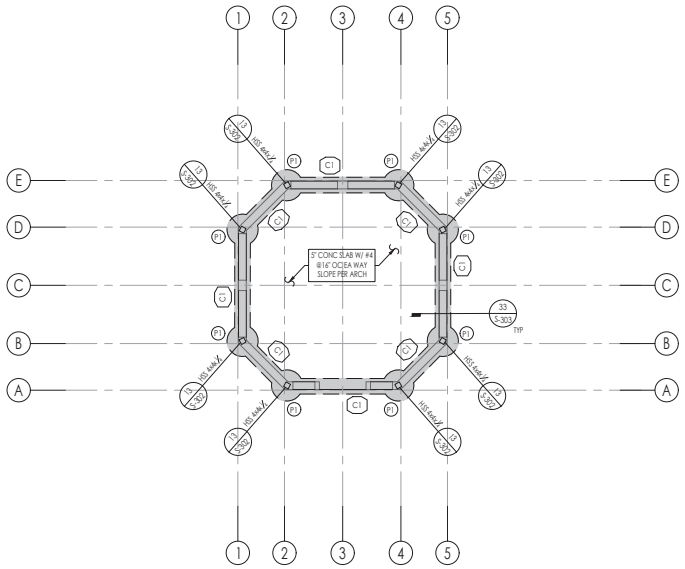
PROJECT TITLE:

RESTROOM FOUNDATION & ROOF FRAMING PLAN

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DORE CECIL No. S 6885 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-201



1 KIOSK FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-104
TESTING AND INSPECTION	S-105
TYPICAL CONCRETE DETAILS	S-301- S-303

2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE FINISHED FLOOR ELEVATION = 0'-0" CORRESPONDS TO FINISHED FLOOR ELEVATION.
3. ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE/MASONRY, FACE OF SHEATHING, OR CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS, UNO.
4. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR ANY EMBEDDED ITEMS AND ALL EXTERIOR CONCRETE PAVING.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.
9. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
10. FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 11/S-302.
11. THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 42/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
12. BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL:
    A. 30" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO.
    B. 30" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO.

SYMBOL LEGEND

INDICATES STEPPED FOOTING PER DETAIL 43/S-301

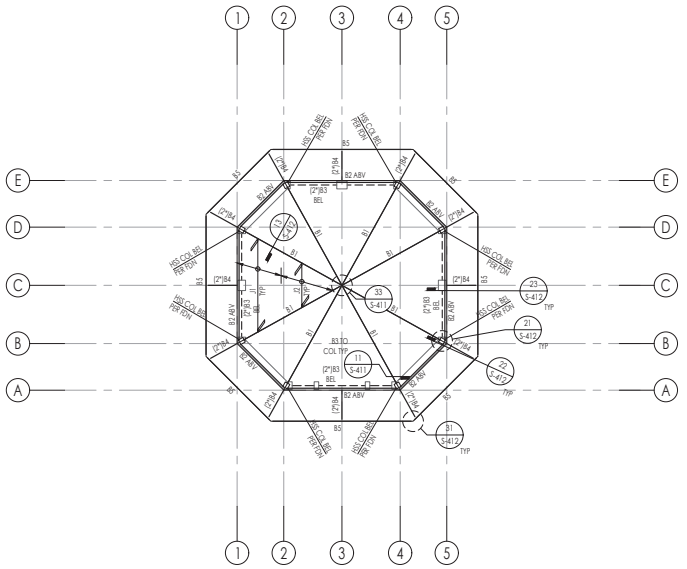
SCHEDULES

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	STIRRUP	DETAIL
C1	1'-0"	SEE NOTE 12	(2) #5 T&B	#3 @ 12" OC	33/S-303

POLE FOOTING SCHEDULE

MARK	DIA (Ø)	EMBEDMENT DEPTH	VERT REINF	TIE REINF	DETAIL
P1	2'-0"	7'-0"	(6) #4	#3 SPIRALS PITCH PER 13/S-302	13/S-302



2 KIOSK ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
    A. GRID DIMENSIONS AND HORIZONTAL CONTROL
    B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC
    C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS
    D. ALL NON STRUCTURAL WALLS
2. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-104
TESTING AND INSPECTION	S-105
TYPICAL CONCRETE DETAILS	S-301 - S-303

3. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
4. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23, 33/S-406 FOR TYPICAL OPENINGS, UNO.
5. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAILS 11-43/S-404, UNO.
6. DIAPHRAGM TYPES:
   ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO
   REFER TO 12/-406
7. FRAMING MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL.
8. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, WATER HEATER) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE FRAMING IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.

SYMBOL LEGEND

(2") INDICATES TWO LEVELS OF SUPPORT FRAMING AT EYEBROW AND COUNTER LEVELS - SEE ARCH

SCHEDULES

JOIST / BEAM SCHEDULE

MARK	SIZE	REMARKS
J1	40052D0@ 8" OC	
J2	40052D0@ 16" OC	
B1	HSS 6x4x¼	
B2	HSS 6X2X¼	
B3	HSS 4X4X¼	
B4	C4x5.4	
B5	C6X8.2	

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

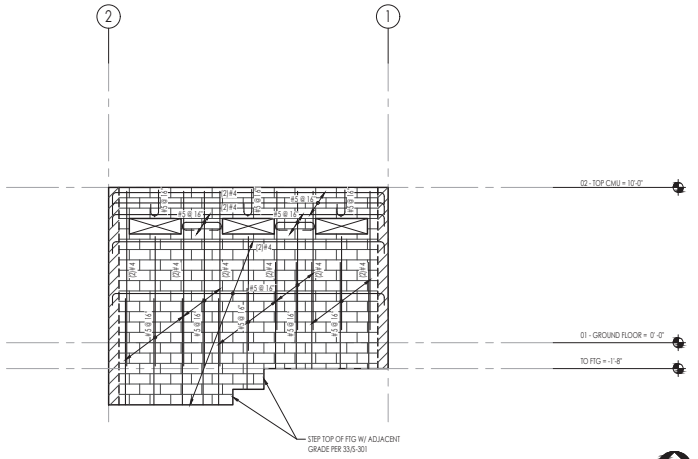
PROJECT TITLE:

KIOSK FOUNDATION & ROOF FRAMING PLAN

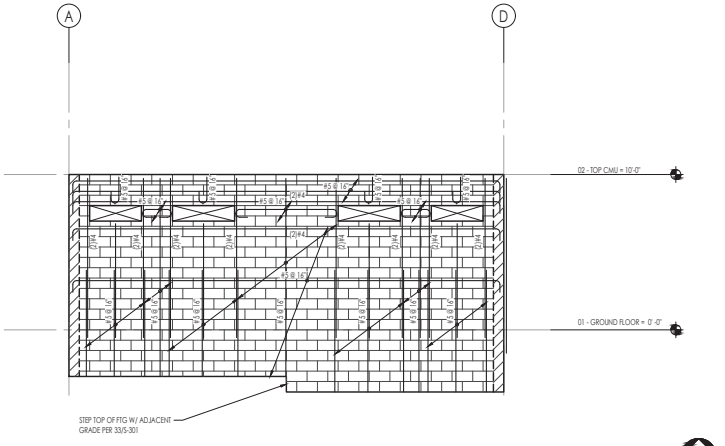
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DRAKE CECIL No. S 6885 STRUCTURAL STATE OF CALIFORNIA

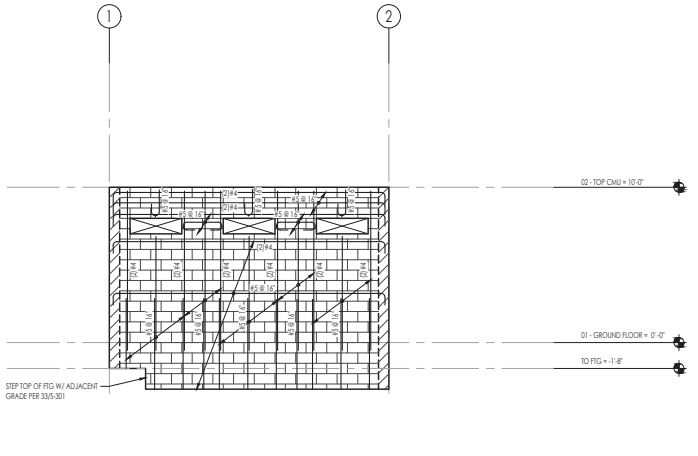
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-211



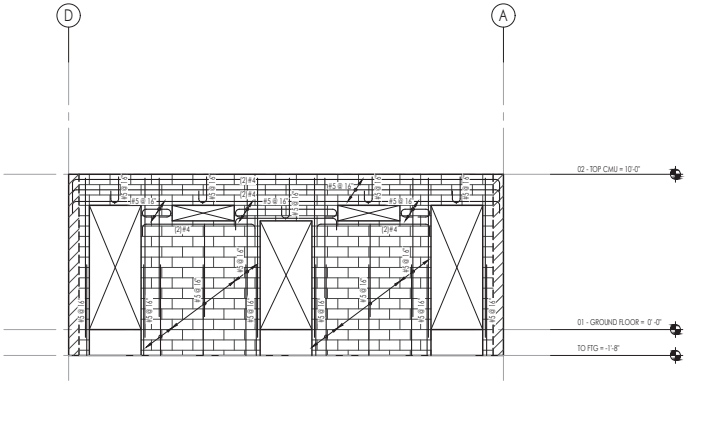
1 RESTROOM EAST CMU WALL ELEVATION
SCALE: 1/4" = 1'-0"



2 RESTROOM SOUTH CMU WALL ELEVATION
SCALE: 1/4" = 1'-0"



3 RESTROOM WEST CMU WALL ELEVATION
SCALE: 1/4" = 1'-0"



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

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & CAFE

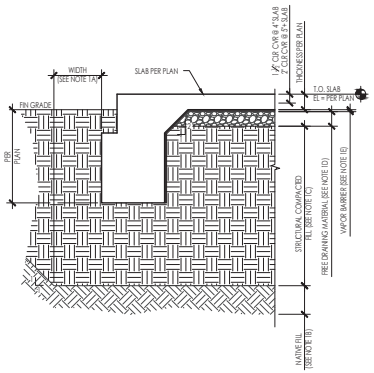
PROJECT TITLE:

CMU ELEVATIONS

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6685 STRUCTURAL STATE OF CALIFORNIA

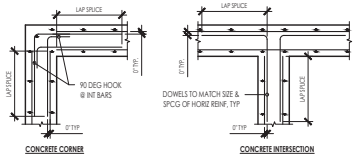
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-221



NOTES:

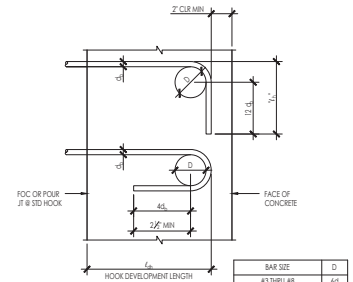
1. PREPARATION OF THE SLAB SUBGRADE SHALL BE BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS REFERENCED IN THE FOUNDATION GENERAL NOTES. THE FOLLOWING INFORMATION IS FOR REFERENCE ONLY.
   - A. OVER-EXCAVATION SHALL EXTEND 5 FEET BEYOND PERIMETER FOUNDATION, TO PROPERTY LINES OR EXISTING IMPROVEMENTS, WHICHEVER IS LEAST.
   - B. NATIVE MATERIALS
     - a. SHALL BE OVER-EXCAVATED 30" BELOW (E) GRADE OR 12" BELOW BOTTOM OF FOOTINGS, TO COMPETENT MATERIAL, OR TO ½ THE DEPTH OF THE DEEPEST FILL (MEASURED FROM THE BOTTOM OF THE DEEPEST FOOTING); WHICHEVER IS GREATEST.
     - b. THE EXPOSED SURFACE SHALL BE SCARIFIED TO A DEPTH OF 6", MOISTURE CONDITIONED TO 3 PERCENT OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
   - C. ENGINEERED COMPACTED FILL
     - a. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR RECOMMENDATIONS FOR STRUCTURAL FILL
     - b. STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LAYERS, EACH APPROXIMATELY 8" THICK BEFORE COMPACTION, AND SHOULD BE CONDITIONS WITH WATER TO PRODUCE A SOIL WATER CONTENT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
   - D. 4" THICK, CLEAN FREE-DRAINING MATERIAL SUCH AS ¾" COARSE AGGREGATE
   - E. REFER TO GEOTECH REPORT AND ARCH DRAWINGS FOR VAPOR BARRIER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS FOR SEALING OF PENETRATIONS, JOINTS AND EDGES.
     - a. VAPOR BARRIER IS NOT TO BE PUNCTURED DURING CONSTRUCTION OF SLAB ON GRADE.
   - F. 2" THICK OPTIONAL SAND LAYER, SHALL BE LIGHTLY MOISTENED PRIOR TO PLACING CONCRETE.

SLAB ON GRADE EDGE AND SUBGRADE PREP — NTS — 42



NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATION(S), BOUNDARY REINFORCING DETAILS, AND OTHER SPECIFICALLY REFERENCED DETAILS SHALL TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

CONC REINF @ INTERSECTION — NTS — 32



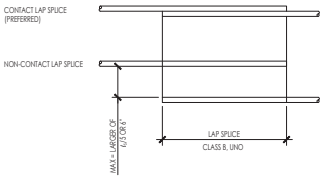
BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d

STANDARD HOOK DEVELOPMENT LENGTH ℓ_{dh}"					
BAR SIZE	D	ℓ_{dh}"	NORMAL WEIGHT		
			2,500	3,000	4,000
#3	2 1/4"	6"	0'-9"	0'-9"	0'-8"
#4	3"	8"	1'-0"	0'-11"	0'-10"
#5	3 3/4"	10"	1'-3"	1'-2"	1'-0"
#6	4 1/2"	12"	1'-6"	1'-5"	1'-3"
#7	5 1/4"	1'-2"	1'-9"	1'-8"	1'-5"
#8	6"	1'-4"	2'-0"	1'-10"	1'-7"
#9	9 1/2"	1'-7 1/2"	2'-3"	2'-1"	1'-10"
#10	10 3/4"	1'-10"	2'-7"	2'-4"	2'-1"
#11	12"	2'-0 1/2"	2'-10"	2'-7"	2'-3"

NOTES:

1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
2. MINIMUM SIDE COVER = 2½".
3. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.

REINF HOOK DEVELOPMENT LENGTH AND BENDS — NTS — 22



REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE						
BAR SIZE	DEVELOPMENT LENGTH, ℓ_d (CLASS A LAP SPLICE)			LAP SPLICE, ℓ_s (CLASS B LAP SPLICE)		
	f'c (psi)			f'c (psi)		
	2,500	3,000	4,000	2,500	3,000	4,000
#3	1'-6"	1'-5"	1'-3"	2'-0"	1'-10"	1'-7"
#4	2'-0"	1'-10"	1'-7"	2'-8"	2'-5"	2'-1"
#5	2'-6"	2'-4"	2'-0"	3'-3"	3'-0"	2'-7"
#6	3'-0"	2'-9"	2'-5"	3'-11"	3'-7"	3'-2"
#7	4'-5"	4'-0"	3'-6"	5'-9"	5'-2"	4'-6"
#8	5'-0"	4'-7"	4'-0"	6'-6"	5'-11"	5'-2"
#9	5'-8"	5'-2"	4'-6"	7'-4"	6'-9"	5'-10"
#10	6'-5"	5'-10"	5'-1"	8'-3"	7'-7"	6'-7"
#11	7'-1"	6'-6"	5'-7"	9'-2"	8'-5"	7'-3"

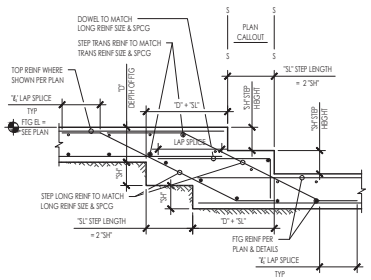
NOTES:

1. VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:
   - A. GRADE 60 REINFORCEMENT
   - B. NORMAL WEIGHT CONCRETE
     - a. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3
   - C. NON-EPOXY COATED REINFORCEMENT
   - D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS
     - a. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3
   - E. CLEAR SPACING NOT LESS THAN d_b, CLEAR COVER NOT LESS THAN d_b AND STIRRUPS THROUGH L_b NOT LESS THAN MIN

     OR

     CLEAR SPACING NO LESS THAN $2d_b$ AND CLEAR COVER NOT LESS THAN db
     - a. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5
   - F. REINFORCEMENT NOT IN SHEAR WALLS
     - a. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25
2. THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPLICE LENGTH.
3. ALL LAP SPLICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
4. WHEN REINFORCING BARS OF TWO SIZES ARE LAP SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B. LAP SPLICE LENGTH (ℓ_s) OF THE SMALLER BAR, AND THE CLASS A, TENSION DEVELOPMENT LENGTH (ℓ_d) OF THE LARGER BAR.

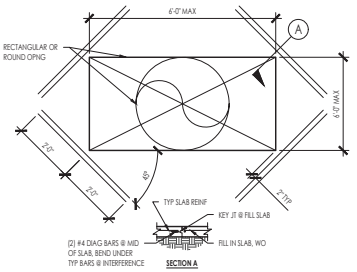
REINF DEVELOPMENT LENGTH AND SPLICES — NTS — 12



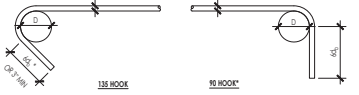
NOTE:
"SH" = 1'-6" MAX

STEP FOOTING — NTS — 43

SOG OPENING — NTS — 23



NOTES:
1. ELIMINATE BARS IF OPENING IS LESS THAN 2'-0" IN BOTH DIMENSIONS.
2. REFER TO DETAIL S3/- FOR SLAB ON GRADE SUBGRADE SUPPORT



BAR SIZE	D
#3	1½"
#4	2"
#5	2½"

* PROVIDE 10d_b EXTENSIONS IN LIEU OF 6d_b AT ALL FRAME COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS

REINF TIES AND STIRRUPS — NTS — 13

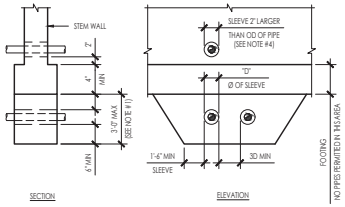
CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
TYPICAL CONCRETE DETAILS

MICHAEL DOUGLAS DOREMUS — No. 6685 — STRUCTURAL ENGINEER — STATE OF CALIFORNIA

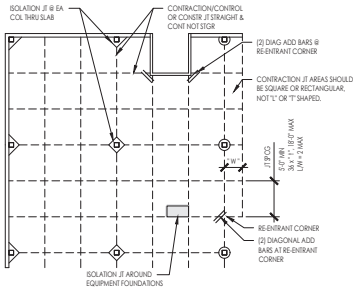
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-301



NOTES:
1. FOOTINGS SHALL BE STEPPED PER DETAIL 33/ & 34/S-301 SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
5. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.

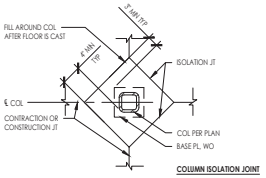
PIPES PERPENDICULAR TO FOOTINGS W/ STEM WALL

0256-03-CU20 - S302 - 41 | NTS | 41



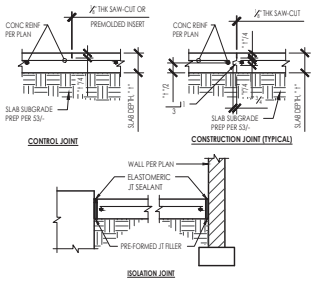
SLAB ON GRADE JOINTS

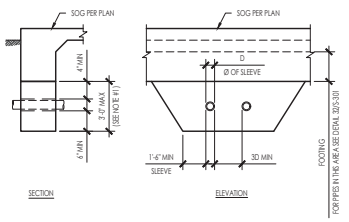
0256-03-CU20 - S302 | NTS | 11



COLUMN ISOLATION JOINT

NOTES:
1. IF SAW CUT CONTRACTION OR CONTROL JOINT IS USED, SAW-CUT WITHIN 24 HOURS. EARLY ENTRY SAWS MAY BE USED WITHIN 1-4 HOURS OF POUR, AND CONVENTIONAL SAWS 4-12 HOURS OF POUR DEPENDING ON WEATHER.
2. FILL CONTRACTION JOINT WITH AN ELASTOMERIC JOINT COMPOUND RATED FOR ITS USE. FOR INDUSTRIAL FLOORS SUBJECTED TO HARD WHEELED TRAFFIC, USE SEALANTS RATED FOR SUCH APPLICATIONS BY THE MANUFACTURER.
3. DOWELS IN INDUSTRIAL FLOOR APPLICATIONS SHOULD BE SMOOTH ALIGNED, AND SUPPORTED SO THEY WILL REMAIN PARALLEL IN BOTH HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING.
4. IN STEEL AND/OR CONC. BUILDINGS DO NOT POUR DIAMOND UNTIL STRUCTURAL STEEL AND CONCRETE ABOVE HAS BEEN INSTALLED.

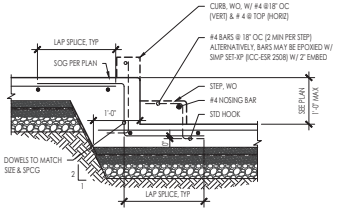




NOTES:
1. FOOTINGS SHALL BE STEPPED PER DETAIL 33/ & 34/S-301 SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
3. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
4. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.

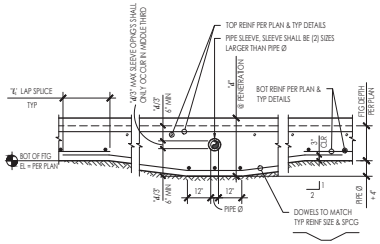
PIPES PERPENDICULAR TO FOOTINGS

0256-03-CU20 - S302 - 42 | NTS | 42



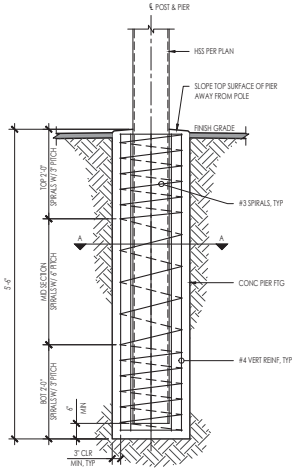
STEP IN CONCRETE SLAB ON GRADE

0256-03-CU20 - S302 - 32 | NTS | 32



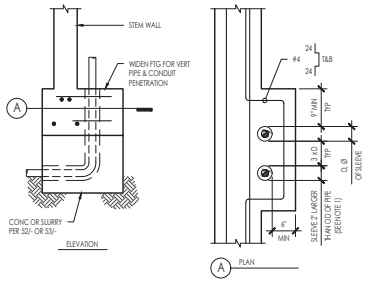
SLEEVE THROUGH FOUNDATION (SLAB TURN-DOWN)

0256-03-CU20 - S302 | NTS | 22



POST PIER FOOTING

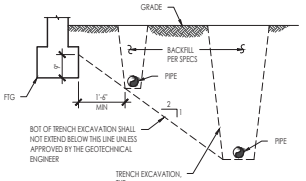
0256-03-CU20 - S302 - 13 | NTS | 13



NOTES:
1. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
2. CONDUIT MAY BE ROUTED UP THROUGH FOOTING WITHOUT SLEEVES OR FOAM WRAP.

TYPICAL VERT PIPES OR COND THROUGH FOOTING

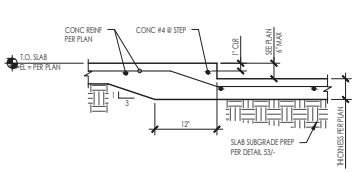
0256-03-CU20 - S302 - 43 | NTS | 43



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET STEP FOOTING PER TYPICAL "STEPPED FOOTING" DETAILS (33 S-301) (34 S-301)

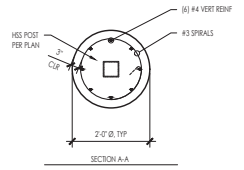
PIPES PARALLEL TO FOOTINGS

0256-03-CU20 - S302 - 33 | NTS | 33



SLAB ON GRADE DEPRESSION

0256-03-CU20 - S302 - 23 | NTS | 23



POST PIER FOOTING

0256-03-CU20 - S302 - 13 | NTS | 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

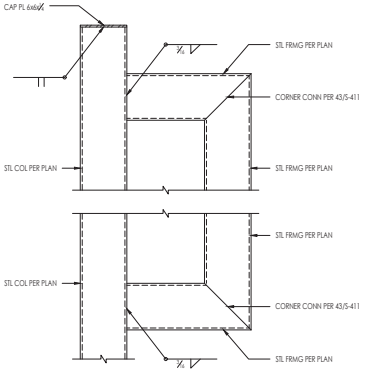
TYPICAL CONCRETE DETAILS

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER RAFAEL DORADO No. 56885 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-302

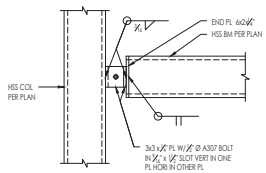


SCREEN SUPPORT

0256-03-CU20 - 1303 - 41

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

41

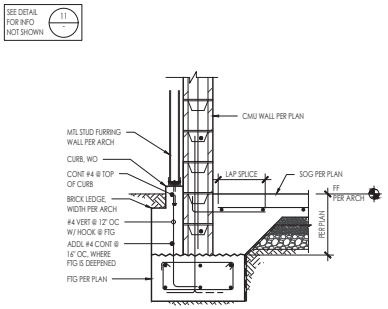


HSS HEADER TO COLUMN

0256-03-CU20 - 1303 - 31

1" = 1'-0"

31

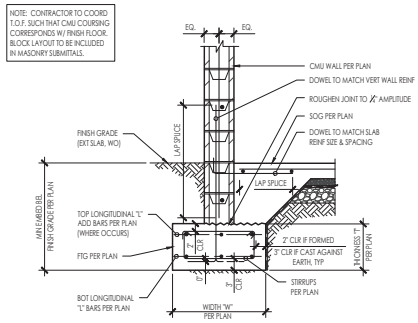


8" CMU EXTERIOR WALL FOUNDATION

0256-03-CU20 - 1303 - 21

3/4" = 1'-0"

21



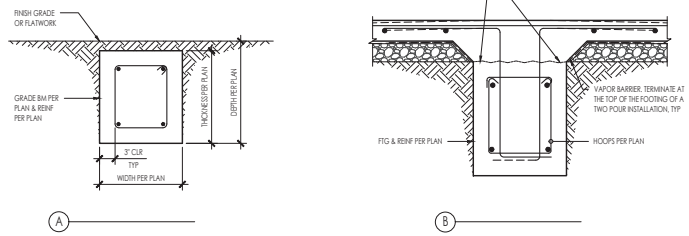
8" CMU EXTERIOR WALL FOUNDATION

0256-03-CU20 - 1303 - 11

3/4" = 1'-0"

11

NOTE: SLAB REINF NOT SHOWN FOR CLARITY

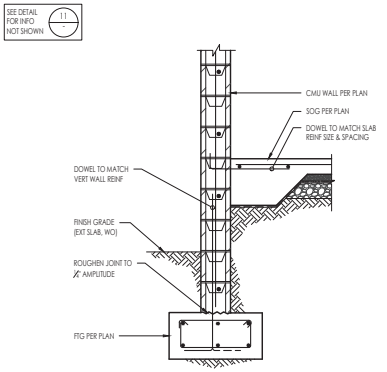


TIE BEAM

0256-03-CU20 - 1303 - 32

1" = 1'-0"

32

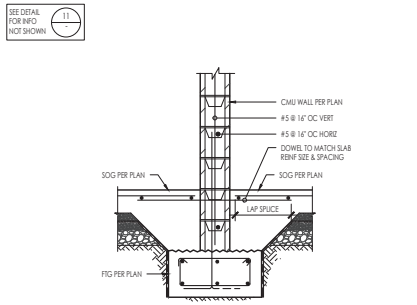


DEEPENED FOOTING @ 8" CMU EXTERIOR WALL

0256-03-CU20 - 1303 - 22

3/4" = 1'-0"

22

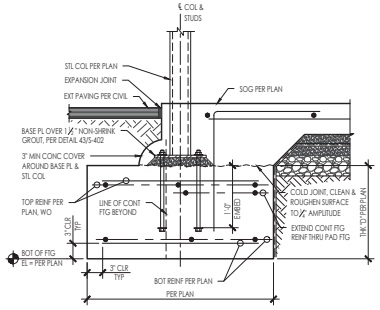


8" CMU INTERIOR WALL FOUNDATION

0256-03-CU20 - 1303 - 12

3/4" = 1'-0"

12

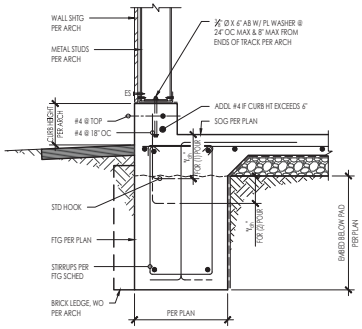


STEEL COL @ EXTERIOR FTG

0256-03-CU20 - 1303 - 43

1" = 1'-0"

43



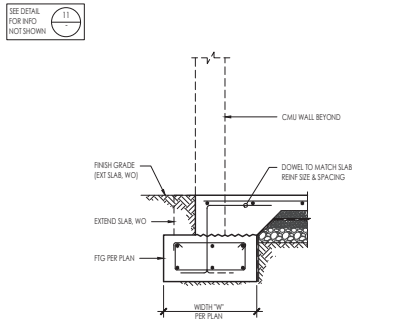
WALL FOOTING WITH RAISED CURB

0256-03-CU20 - 1303 - 33

1" = 1'-0"

33

23



OPENING @ CMU WALL FOUNDATION

0256-03-CU20 - 1303 - 13

3/4" = 1'-0"

13

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & CAFE

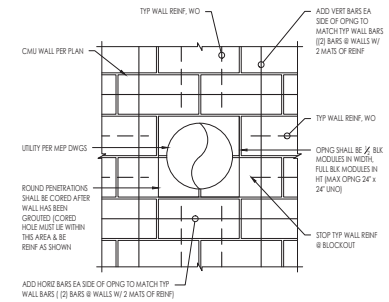
FOUNDATION DETAILS

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. C 68685 STRUCTURAL STATE OF CALIFORNIA

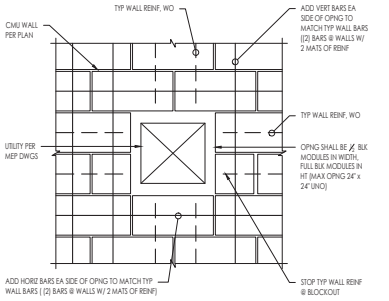
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-303



ROUND PENETRATION IN MASONRY

NTS | 41

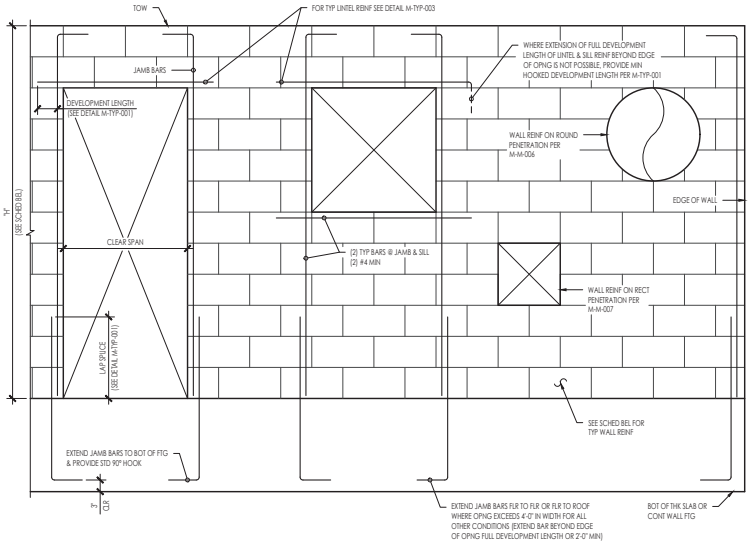
0256-03-CU20 - S401 - 41



RECTANGULAR PENETRATION IN MASONRY

NTS | 42

0256-03-CU20 - S401 - 42



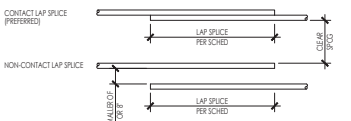
NOTES:
1. ALL CELLS SHALL BE GROUTED SOLID, UNO
2. WALL CONSTRUCTION SHALL BE RUNNING BOND ONLY
3. WALL THICKNESS PER PLAN
4. PROVIDE CMU LINTELS AT ALL CMU WALL OPENINGS, UNO
5. PRECAST CONCRETE LINTELS MAY BE USED WITH ARCHITECT'S & SEOR'S APPROVAL
6. ALL MASONRY OPENINGS SHALL BE SHORED UNTIL MASONRY HAS CURED FOR A MIN OF 72 HOURS
7. REFER TO ARCHITECTURAL & MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR SIZE & LOCATIONS OF OPENINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY & PROPERLY SIZE ALL CMU WALL OPENINGS
8. HORIZ REINF SHALL BE PROVIDED WITHIN 16 INCHES OF THE TOP & BOT OF THE WALL
9. WALL OPENINGS SHALL NOT BE CLOSER THAN 24" FROM THE TOP OF THE EDGE IN ORDER TO ACCOMMODATE THE WALL LINTEL
10. MIN SEPARATION BETWEEN OPENINGS SHALL ACCOMMODATE THE NUMBER OF ROWS OF JAMB BAR REINF
11. SEE GENERAL NOTES FOR MORE INFO

CMU WALL REINFORCING SCHEDULE				
WALL THICKNESS (NOMINAL)	BAR SIZE & SPACING EACH MAT			MAXIMUM HEIGHT
	HORIZONTAL	VERTICAL	REMARKS	
6"	#4 @ 24" OC	#4 @ 24" OC	SINGLE MAT	12'-0"
8"	#5 @ 24" OC	#5 @ 24" OC	SINGLE MAT	16'-8"
12"	#5 @ 24" OC	#5 @ 24" OC	DOUBLE MAT	25'-0"

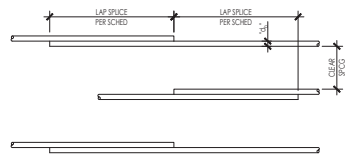
TYPICAL CMU WALL ELEVATION

NTS | 22

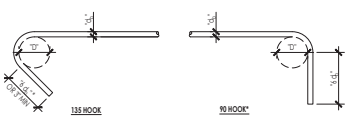
0256-03-CU20 - S401 - 22



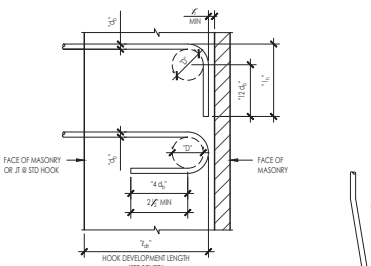
TYPICAL LAP SPLICES



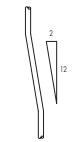
STAGGERED SPLICING



BAR SIZE	D
#3	1½"
#4	2"
#5	2½"



BAR SIZE	D
#3 THRU #8	$6d_b$
#9 THRU #11	$8d_b$



TYPICAL COLUMN BAR OFFSET

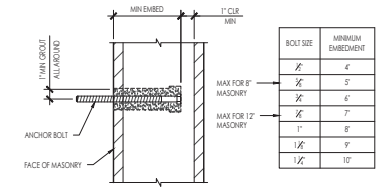
BAR SIZE	DEVELOPMENT LENGTH (ld) OR LAP SPLICE LENGTH (ls)	HOOK DEVELOPMENT LENGTH (lhb)	D	l_s
#3	2'-3"	0'-5"	2½"	5"
#4	3'-0"	0'-7"	3"	8"
#5	3'-9"	0'-9"	3½"	10"
#6	4'-6"	0'-10"	4½"	1'-0"
#7	5'-3"	0'-12"	5½"	1'-2"
#8	6'-0"	1'-1"	6"	1'-4"
#9	6'-9"	1'-3"	9½"	1'-7½"

NOTES:
1. USE DEVELOPMENT LENGTH (ld) AND SPLICE LENGTH (ls) INDICATED IN SCHEDULE FOR ALL DOWEL LENGTHS NOT SHOWN ON PLANS UNLESS OTHERWISE PERMITTED BY THE SEOR AND JURISDICTION AGENCY
2. DEVELOPMENT LENGTHS (ld) AND SPLICE LENGTHS (ls) INDICATED IN SCHEDULE CORRESPOND TO GRADE 60 BARS IN 1,500 OR 2,500 psi NORMAL WEIGHT MASONRY
3. THIS SCHEDULE SHALL BE USED WHERE DEVELOPMENT AND SPLICE LENGTHS ARE NOT SPECIFICALLY DETAILS AND DIMENSIONED ON THE DRAWINGS
4. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED, SPLICE LENGTH SHALL BE THE SPLICE LENGTH OF THE SMALLER BARS
5. NOTE THAT THE LAP SPLICES SHOWN ACCOUNT FOR THE INCREASE IN LAP SPLICE IN REGIONS OF MOMENT WHERE THE DESIGN TENSILE STRESSES IN THE REINFORCEMENT ARE GREATER THAN 80 PERCENT OF THE ALLOWABLE STEEL TENSION STRESS, Fs
6. D = FINISHED INSIDE BEND DIAMETER
7. d_b = NOMINAL BAR DIAMETER

MASONRY-LAP SPLICE / DEVELOPMENT LENGTH SCHED

NTS | 13

0256-03-CU20 - S401 - 13



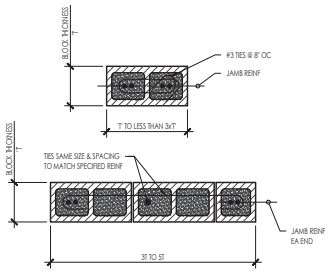
BOLT SIZE	MINIMUM EMBEDMENT
½"	4"
⅝"	5"
¾"	6"
⅞"	7"
1"	8"
1¼"	9"
1½"	10"

NOTES:
1. MINIMUM BOLT SPACING SHALL BE 16 BOLT DIAMETERS WITH A MINIMUM EDGE DISTANCE OF 12 DIAMETERS, UNLESS NOTED OTHERWISE.
2. PROVIDE AN ADDITIONAL 2" OF EMBEDMENT FOR ANCHOR BOLTS LOCATED IN THE TOP OF COLUMNS.
3. ANCHOR BOLTS SHALL BE HEX HEADED WITH THE DIMENSIONS OF THE HEX CONFORMING TO ANSI/ASME B18.2.1 BENT BAR ANCHORS SHALL NOT BE USED.

MASONRY ANCHOR BOLT SCHEDULE

NTS | 43

0256-03-CU20 - S401 - 43

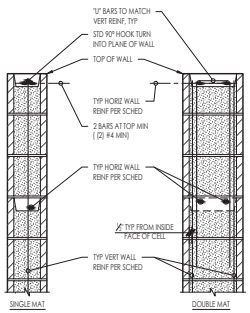


NOTE:
TIE MAY BE TURNED UP AS NECESSARY TO FIT INSIDE WALL. BREAK WEBS AND/OR INTERIOR FACE SHELL AS REQUIRED.

CONCRETE MASONRY WALL PIERS

NTS | 33

0256-03-CU20 - S401 - 33



TYP REINF AT TOP OF WALL

NTS | 23

0256-03-CU20 - S401 - 23

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

TYPICAL MASONRY DETAILS

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6885 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY: C. CECIL

DRAWN BY: A. MERCADO

CHECKED BY: M. DOREMUS

APPROVED BY:

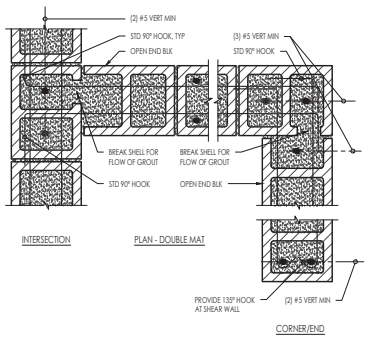
SCALE: AS NOTED

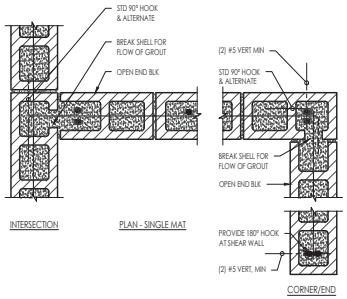
DATE: 05.14.2024

CITY SPECIFICATION NO.: 91439-01

PLAN FILE NO. / LOCATION: 0256-03-CU20

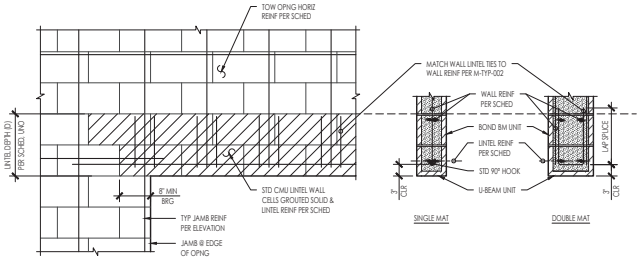
SHEET NO.: S-401





MASONRY WALL CORNER DETAIL

NTS | 42



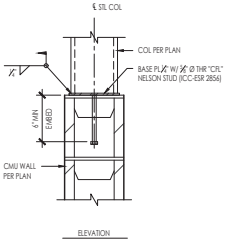
TYPICAL CMU REINFORCEMENT SCHEDULE

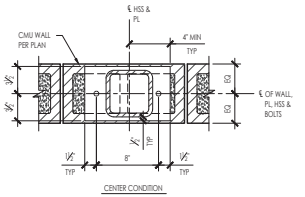
TYPE	MAX CLR SPAN (FT)	D (IN)	SOLID-GROUTED MASONRY WALL LINTEL REINFORCEMENT SCHEDULE		WALL HORIZ ABOVE LINTEL
			8" WALLS	12" WALLS	
L1	5'-4"	15½"	(2) #4	(2) #5	#4 @ 24" OC
L2	10'-8"	15½"	(2) #4	(2) #5	#4 @ 24" OC
L3	12'-0"	15½"	(2) #5	(2) #6	#4 @ 24" OC
L4	14'-0"	15½"	(2) #5	(2) #6	#4 @ 24" OC

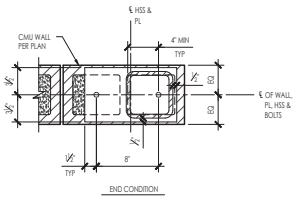
NOTES:
1. TIES SHOWN AT LINTELS ARE IN ADDITION TO ALL TYP WALL REINF.
2. LINTEL DESIGN IS BASED ON MEDIUM WT (124 PSF) MAX FULLY GROUTED CONC MASONRY CONSTRUCTION
3. WALL CONTROL JOINTS SHALL NOT OCCUR WITHIN DEVELOPMENT LENGTH OF LINTEL REINF

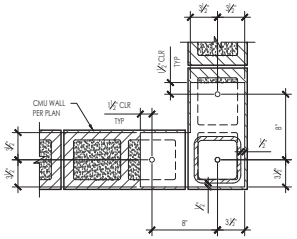
TYPICAL CMU LINTEL DETAILS

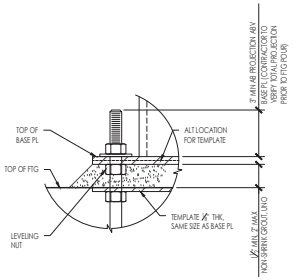
NTS | 22





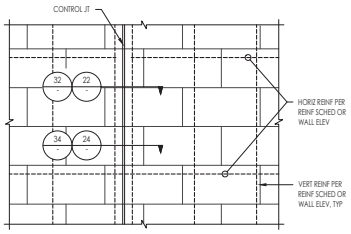






ANCHOR BOLT PROJECTION

NTS | 43



CONTROL JOINT AT NON-SHEAR CMU WALL

NTS | 23

HSS @ CMU WALL

1-1/2" = 1'-0" | 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

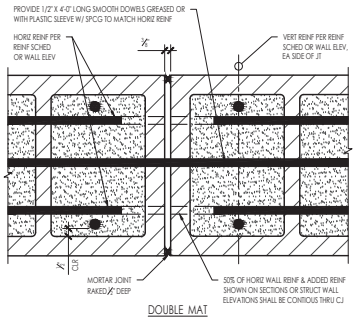
PROJECT TITLE:

TYPICAL MASONRY DETAILS

SHEET TITLE:

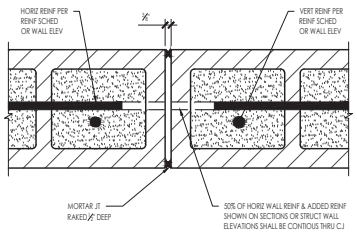
REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6885 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-402



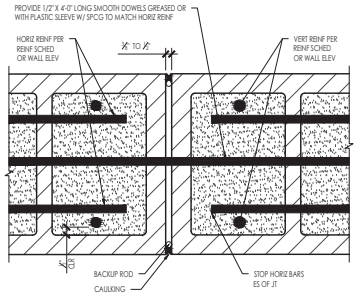
DOUBLE MAT

CONTROL JOINT W/ CONT REINFORCEMENT | NTS | 41

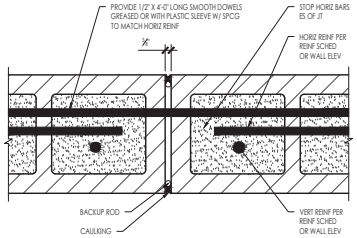


SINGLE MAT

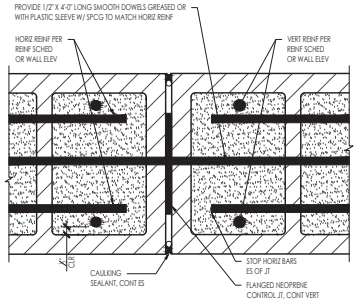
CONTROL JOINT W/ CONT REINFORCEMENT | NTS | 31



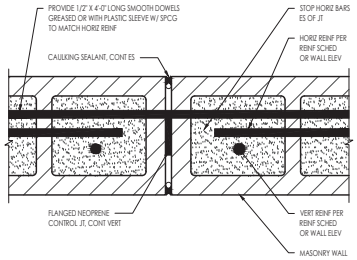
CONTROL JOINT | NTS | 42



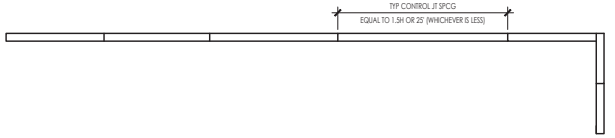
CONTROL JOINT | NTS | 32



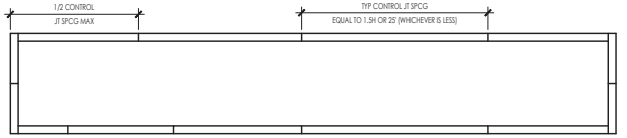
ALT CONTROL JOINT W/ FLANGED NEOPRENE | NTS | 43



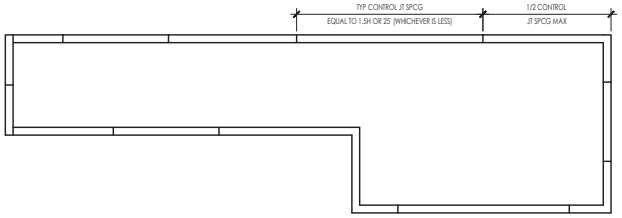
ALT CONTROL JOINT W/ FLANGED NEOPRENE | NTS | 33



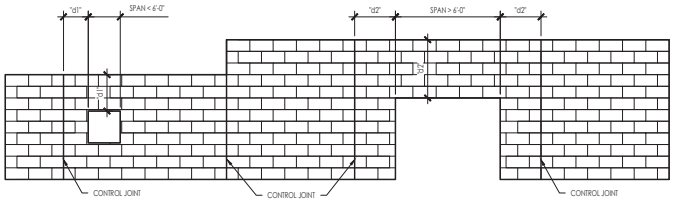
RETAINING WALL



RECTANGULAR BUILDING PLAN



IRREGULAR BUILDING PLAN



ELEVATION

MAXIMUM WALL PANEL DIMENSIONS	LENGTH, FT	25
	LENGTH / HEIGHT RATIO	2 1/2

NOTE:
1. THE CONTRACTOR SHALL SUBMIT THE INTENDED CONTROL JOINT LOCATIONS TO THE SEOR FOR REVIEW AND APPROVAL.

MASONRY CONTROL JOINT SPACING | NTS | 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

TYPICAL MASONRY DETAILS

PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. 6685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-403

PRICELESS HEADER SCHEDULE							
	WIDTH	GAUGE	AREA (IN²)	I (IN⁴)	S (IN³)	SADDLE CLIP	PART NO.
	3 5/8"	16	1.368	2.514	.907	362 C350-54	350HDR350-54
	3 5/8"	14	1.71	3.242	1.201	362C350-54	350HDR350-68
	5 1/2"	16	1.594	3.203	1.032	550C350-54	550HDR350-54
	5 1/2"	14	2.28	7.236	2.055	550C450-54	550HDR450-68
PRICELESS HEADER PER ER-0342							

HDS STUD SCHEDULE								
	DEPTH	GAUGE	B	A	AREA (IN²)	I (IN⁴)	S (IN³)	MAX SPACING OF STUD BRACING
	3 5/8"	16	3	1.0625"	0.715	1.483	0.818	4'-0"
	4"	16	3	1.0625"	0.736	1.869	0.934	4'-0"
	6"	16	3	2.25"	0.984	4.856	1.619	4'-0"
	8"	16	3	2.25"	1.097	9.843	2.461	4'-0"
DIETRICH HDS PER ICC ESR-2374								

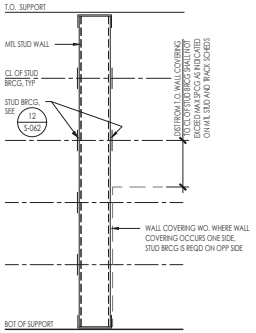
PRO-X SCHEUDLE							
	WIDTH	GAUGE	B	AREA (IN²)	I (IN⁴)	S (IN³)	PRO-X CLIP
	3 5/8"	16	4 1/4"	0.786	1.182	0.445	362 CLIP-54
	4"	16	4 1/4"	0.808	1.230	0.456	400 CLIP-54
	6"	16	4 1/4"	0.921	1.452	0.504	600 CLIP-54
	8"	16	4 1/4"	1.034	1.625	0.537	800 CLIP-54
BRADY PRO-X PER ICC ESR-1765							

STUD SCHEDULE							
	DEPTH	GAUGE	B	AREA (IN²)	I (IN⁴)	S (IN³)	MAX SPACING OF STUD BRACING	SSMA DESIGNATOR
	2 1/2"	20	1 5/8"	.223	.256	.188	4'-0"	250S162-33
		18	1 5/8"	.289	.302	.242	4'-0"	250S162-43
		16	1 5/8"	.358	.370	.296	4'-0"	250S162-54
	3 5/8"	20	1 5/8"	.262	.551	.304	4'-0"	362S162-33
		18	1 5/8"	.340	.710	.392	4'-0"	362S162-43
		16	1 5/8"	.422	.873	.482	4'-0"	362S162-54
		14	1 5/8"	.524	1.070	.590	4'-0"	362S200-68
	4"	20	1 5/8"	.275	.692	.346	4'-0"	400S162-33
		18	1 5/8"	.375	.892	.446	4'-0"	400S162-43
		16	1 5/8"	.443	1.098	.549	4'-0"	400S162-54
	5 1/2"	20	1 5/8"	.327	1.458	.530	4'-0"	550S162-33
		18	1 5/8"	.424	1.883	.685	4'-0"	550S162-43
		16	1 5/8"	.528	2.324	.845	4'-0"	550S162-54
		14	1 5/8"	.657	2.860	1.400	4'-0"	550S162-68
	6"	20	1 5/8"	.344	1.793	.598	4'-0"	600S162-33
		18	1 5/8"	.447	2.316	.772	4'-0"	600S162-43
		16	1 5/8"	.556	2.860	.953	4'-0"	600S162-54
	8"	20	1 5/8"	.413	3.582	.896	4'-0"	800S162-33
		16	1 5/8"	.670	5.736	1.434	4'-0"	800S162-54
		14	2"	0.907	8.140	2.035	4'-0"	800S200-68
	10"	16	2"	.839	11.278	2.256	4'-0"	1000S200-54
	12"	14	2"	1.192	21.947	3.658	4'-0"	1200S200-68

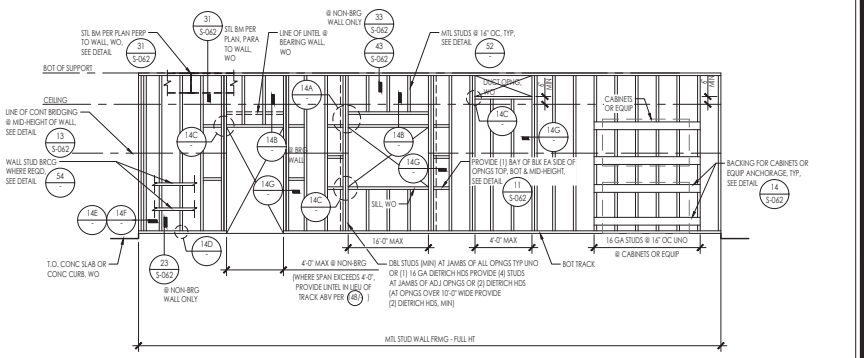
TRACK SCHEDULE						
	DEPTH	GAUGE	B	AREA (IN²)	I (IN⁴)	S (IN³)	SSMA DESIGNATOR
	2 1/2"	20	1 1/2"	.190	.221	.167	250T150-33
		18	1 1/2"	.248	.289	.217	250T150-43
		16	1 1/2"	.311	.368	.273	250T150-54
	4"	20	1 1/2"	.242	.622	.300	400T150-33
		18	1 1/2"	.315	.811	.390	400T150-43
		16	1 1/2"	.396	1.025	.489	400T150-54
	5 1/2"	20	1 1/2"	.294	1.395	.459	550T150-33
		18	1 1/2"	.383	1.688	.596	550T150-43
		16	1 1/2"	.480	2.128	.747	550T150-54
	6"	20	1 1/2"	.311	1.590	.517	600T150-33
		18	1 1/2"	.405	2.072	.673	600T150-43
		16	1 1/2"	.509	2.611	.843	600T150-54
	8"	20	1 1/2"	.380	3.180	.781	800T150-33
		16	1 1/2"	.622	5.214	1.272	800T150-54
		14	1 1/2"	.783	6.594	1.599	800T150-68
	10"	16	1 1/2"	.735	9.061	1.777	250T150-54
	12"	14	1 1/2"	1.068	18.148	2.963	1200T150-68

NOTES:
1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE AND GAUGE OF STUDS.
2. DIMENSIONS, PROPERTIES AND TYPES NOTED ARE BASED ON METAL STUDS AND TRACKS BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) ICBO NO 4943 UNO.

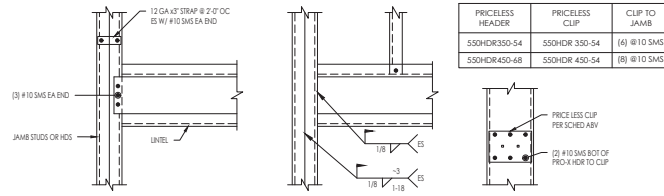
METAL STUD SCHEDULE — NTS — 43



WALL STUD BRACING LOCATION — NTS — 31

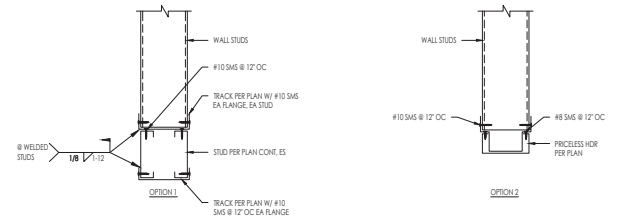


METAL STUD WALL FRAMING ELEVATION (BEARING & NON-BEARING) — 1/4" = 1'-0" — 11

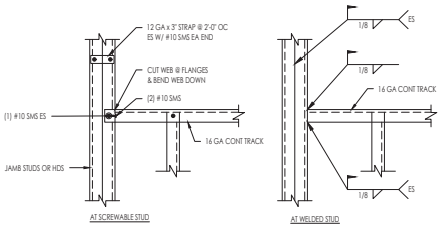


PRICELESS HEADER	PRICELESS CLIP	CLIP TO JAMB	CLIP TO HEADER
550HDR350-54	550HDR 350-54	(6) @10 SMS	(6) #10 SMS
550HDR450-68	550HDR 450-54	(8) @10 SMS	(6) #10 SMS

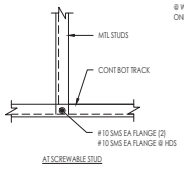
A LINTEL TO JAMB



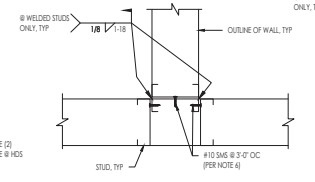
B HEADER SECTION



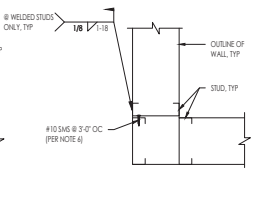
C TRACK TO JAMB



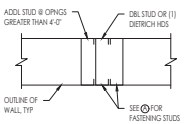
D STUD TO TRACK



E TYPICAL INTERSECTION



F TYPICAL CORNER



G MULTIPLE STUDS

NOTES:
1. SEE METAL STUD AND TRACK SCHEDULES ON THIS SHEET FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE OF STUDS.
3. ALL TOP AND BOTTOM TRACKS SHALL BE SAME GAUGE AS STUDS UNO.
4. ALL STUDS AT JAMBS OF DOOR AND WINDOW OPENINGS SHALL BE 16 GAUGE UNO.
5. WELDING SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3 BY THE AMERICAN WELDING SOCIETY.
6. PROVIDE EITHER WELDED OR CREWED CONNECTIONS AT CONTRACTOR'S OPTION. OMIT SHEET METAL SCREWS AT WELDED STUD CONDITIONS.

METAL STUD WALL FRAMING — NTS — 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

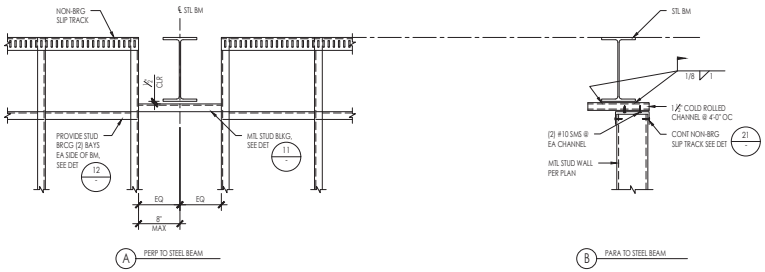
PROJECT TITLE:

TYPICAL STEEL DETAILS

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. S 6685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-404

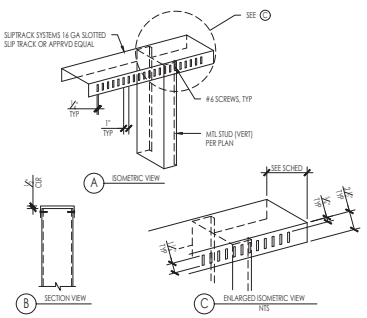


NON-BRG METAL STUD TOP @ STL BM (FULL HEIGHT WALL)

0256-03-CU20 - 5405 - 31

NTS

31

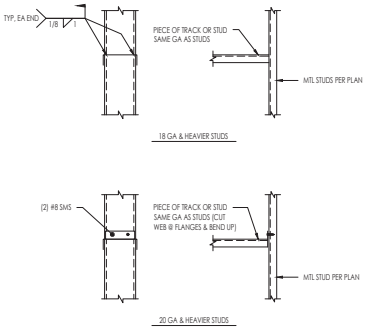


NON-BEARING METAL STUD TOP TRACK

0256-03-CU20 - 5405 - 21

NTS

21

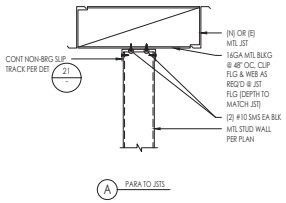


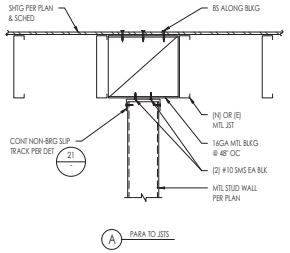
METAL STUD BLOCKING

0256-03-CU20 - 5405 - 11

NTS

11



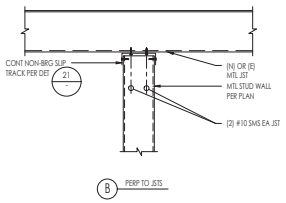


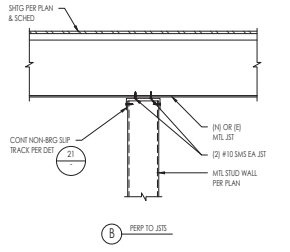
NON-BEARING PARTITION TOP CONNECTION

0256-03-CU20 - 5405 - 43

NTS

43



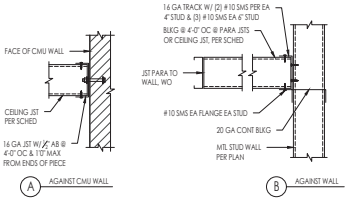


NON-BEARING PARTITION TOP CONNECTION

0256-03-CU20 - 5405 - 33

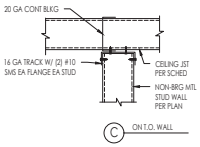
NTS

33



CEILING JOIST SCHEDULE	
JOIST SIZE	MAX SPAN
4" x 20 GA @ 16" OC	7'-6"
6" x 20 GA @ 16" OC	9'-0"

NOTE:
THIS DET IS INTENDED FOR CEILING JSTS THAT SPAN FROM WALL TO WALL @ CONTRS OPTION

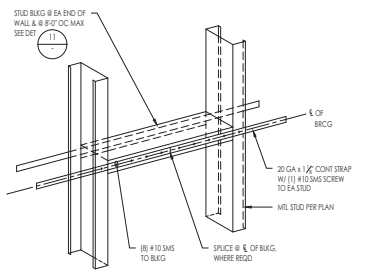


CEILING JOIST SCHEDULE & DETAILS

0256-03-CU20 - 5405 - 22

NTS

22

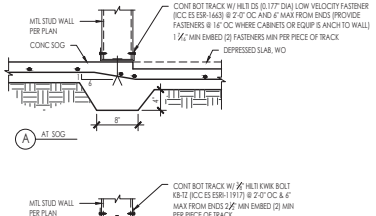


METAL STUD BRACING

0256-03-CU20 - 5405 - 12

NTS

12

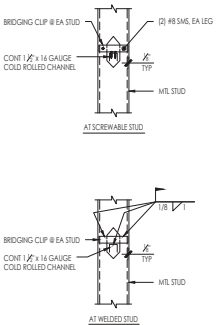


NON-BEARING METAL STUD BOTTOM

0256-03-CU20 - 5405 - 23

NTS

23



METAL STUD BRIDGING

0256-03-CU20 - 5405 - 13

NTS

13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

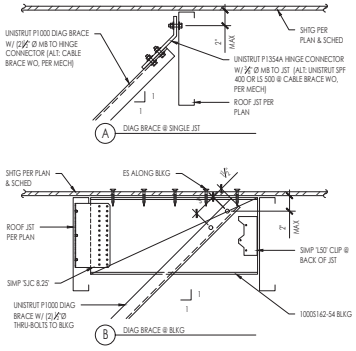
PROJECT TITLE:

TYPICAL STEEL DETAILS

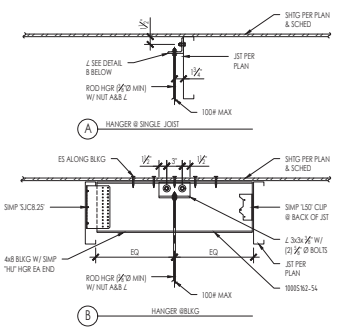
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DORE CECIL No. S 6685 STRUCTURAL STATE OF CALIFORNIA

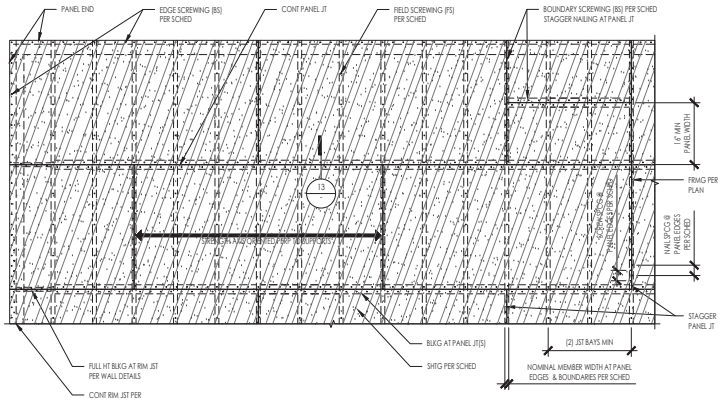
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-405



UNISTRUT DIAG BRACE TOP CONNECTION NTS 41



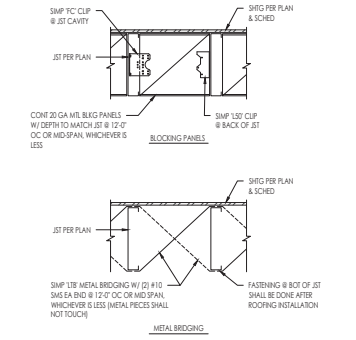
HANGER @ BLKG NTS 31



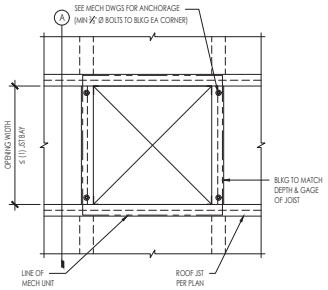
DIAPHRAGM SCHEDULE										
TYPE	SHEATHING	PANEL GAGE	BLOCKING	SCREWS	BOUNDARY SCREWS (BS)	EDGE SCREWS AT CONT. PANEL EDGES (ES)	EDGE SCREWS AT OTHER PANEL EDGES (ES)	FIELD SCREWS (FS)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS
A	SURE-BOARD SERIES 2005	22 GA	YES	#8 x 1 ½"	6	6	6	6	BLOCKING	1
B	SURE-BOARD SERIES 2005	22 GA	YES	#8 x 1 ½"	4	4	4	6	BLOCKING	1
C	SURE-BOARD SERIES 2005	22 GA	YES	#8 x 1 ½"	2	2	2	6	BLOCKING	1

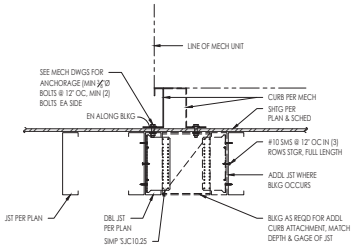
NOTES:
1. MINIMUM EDGE DISTANCE FOR FASTENERS SHALL BE ½" FROM SHEATHING EDGE AND ½" FROM MEMBER EDGE.

SURE-BOARD PLYWOOD DIAPHRAGM SHEATHING NTS 12

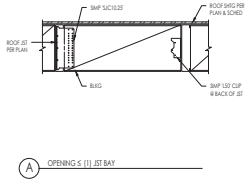


JOIST BRIDGING & BLOCKING NTS 42

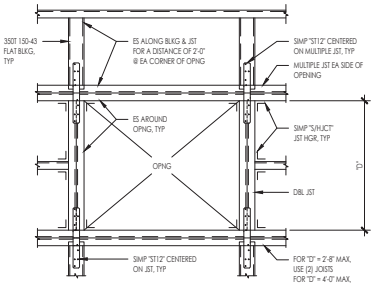




EQUIPMENT SUPPORT PARA JOIST NTS 43

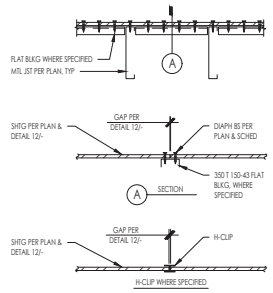


OPENING ≤ (1) JST BAY NTS 33



NOTE:
FOR LARGER OPENINGS REFER TO FRAMING PLANS.

OPENING AT FRAMING NTS or 1" = 1'-0" 23



DIAPHRAGM PANEL JOINTS NTS 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

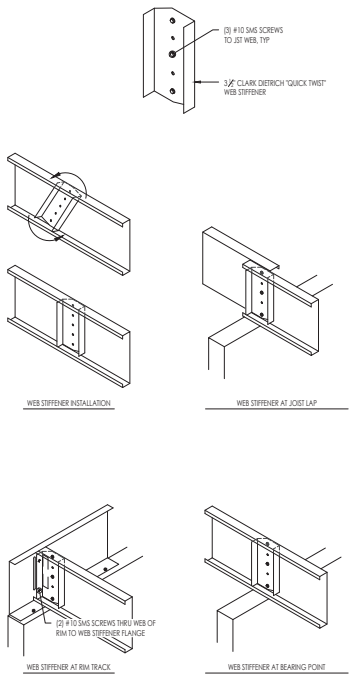
TYPICAL STEEL DETAILS

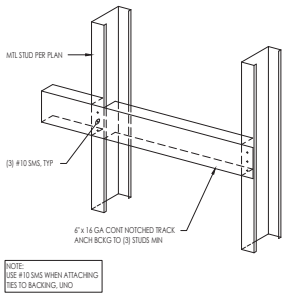
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DORE MUS No. 6685 STRUCTURAL STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-406

41	31	21	
42	32	22	WEB STIFFENER 0256-03-CU20 - S407 - 12 NTS 12
43	33	23	BACKING AT METAL STUDS 0256-03-CU20 - S407 - 13 NTS 13





CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

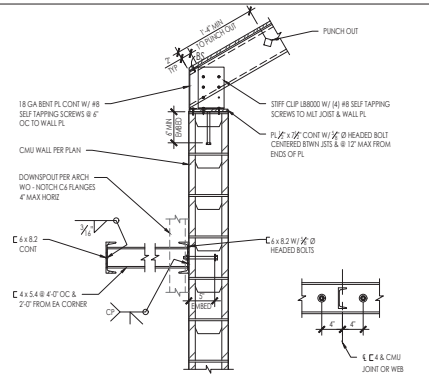
PROJECT TITLE:

TYPICAL STEEL DETAILS

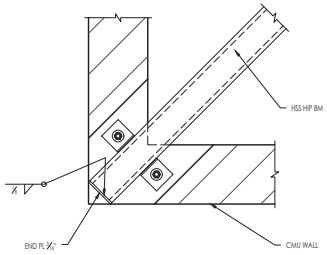
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER MICHAEL DOREMUS No. 5685 STRUCTURAL STATE OF CALIFORNIA

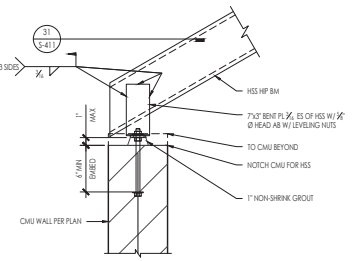
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-407



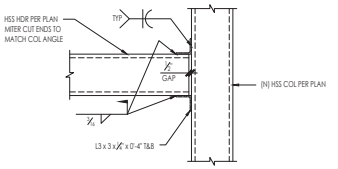
RESTROOM JOIST TO WALL — 1" = 1'-0" — 41



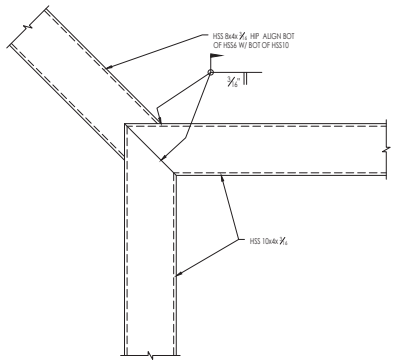
HSS BM TO CMU WALL — 1-1/2" = 1'-0" — 31



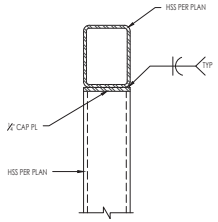
HSS BM TO CMU WALL — 1-1/2" = 1'-0" — 21



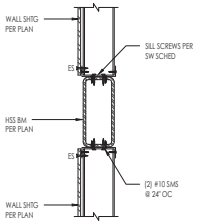
HSS HEADER TO COLUMN — 1" = 1'-0" — 11



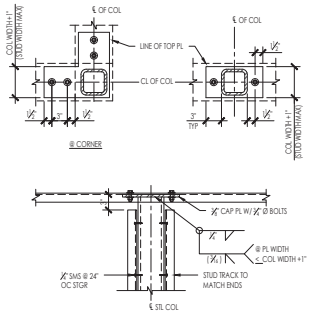
RESTROOM HIP TO SUPPORT BEAMS — 1" = 1'-0" — 42



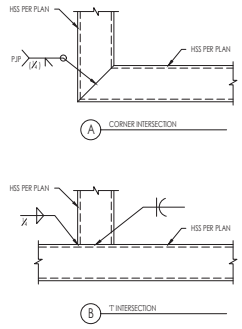
HSS COL TO HSS BEAM — NTS — 32



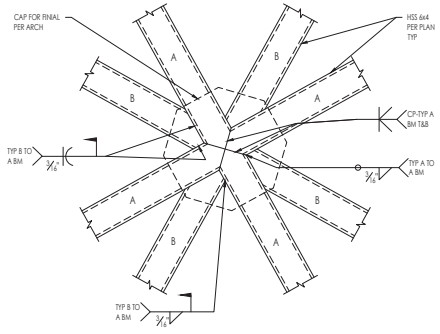
HEADER AT STUD WALL — 1" = 1'-0" — 22



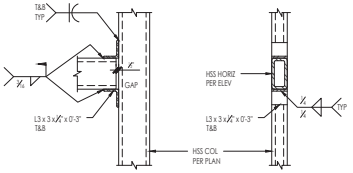
HSS COL TO TOP PLATE CONN — 1" = 1'-0" — 12



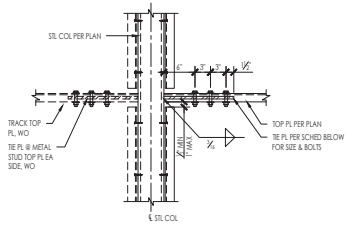
HSS TO HSS CONNECTION — NTS — 43



KIOSK BEAM @PEAK — 1" = 1'-0" — 33



HSS HORIZ TO HSS COL — NTS — 23



TIE PLATE SCHEDULE			
MARK	TIE PLATE	BOLTS	REMARKS
A	¼" x 4"	(3) ½" Ø	
B	¼" x 5"	(4) ½" Ø	
C	¼" x 5"	(5) ½" Ø	

TIE PLATE CONNECTION AND SCHEDULE — 1" = 1'-0" — 13

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

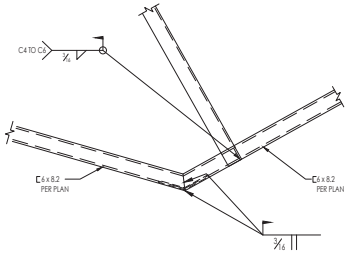
PROJECT TITLE:

STEEL DETAILS

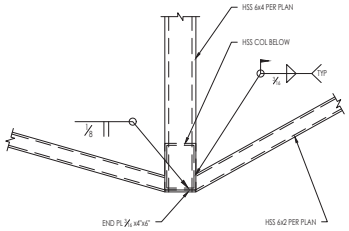
SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER — MICHAEL DOREMUS — No. 56685 — STRUCTURAL — STATE OF CALIFORNIA

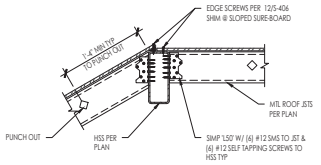
DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-411



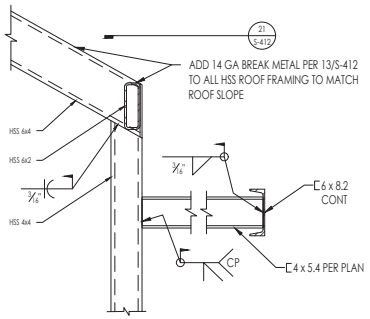
41 PLAN VIEW CANOPY SUPPORT 1-1/2" = 1'-0" 31



PLAN VIEW - HSS TO HSS NTS or 1-1/2" = 1'-0" 21



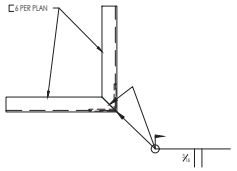
MTL JSTS TO HSS BM 1" = 1'-0" 11



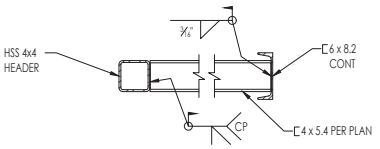
42

32

BM HSS TO HSS COL NTS or 1-1/2" = 1'-0" 22



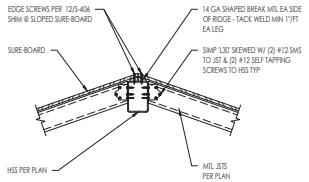
PLAN VIEW NTS or 1-1/2" = 1'-0" 12



43

33

CANOPY SUPPORT NTS or 1-1/2" = 1'-0" 23



JSTS TO HSS BM 1" = 1'-0" 13

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
STEEL DETAILS

REGISTERED PROFESSIONAL ENGINEER
MICHAEL DOREMUS
No. 56685
STRUCTURAL
STATE OF CALIFORNIA

DESIGNED BY:	C. CECIL
DRAWN BY:	A. MERCADO
CHECKED BY:	M. DOREMUS
APPROVED BY:	
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	S-412

CONDUIT SYSTEMS NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1. PVC SCHEDULE 40 - underground/below slab with GRS elbows and risers tape wrapped).
2. ELECTRICAL METALLIC CONDUIT (EMT) - above grade/slab in building construction and where exposed above 8'-0" aff.
3. GALVANIZED RIGID STEEL (GRS) - where exposed below 8'-0" aff. and/or where subject to physical damage.
4. FLEXIBLE STEEL CONDUIT - above ceilings and/or concealed in building construction (seal tight flex quired in exterior locations).
5. MC CABLE ALLOWED IN OCCUPANCY R2 ZONES ONLY.

REFER TO SECTION 260533 & 260500 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC 310-6.

ADDITIONAL CONDUIT REQUIREMENTS.

- ROUTE CONDUIT(S) BELOW GRADE OR ABOVE CEILING SO THAT WALL OUTLETS, DEVICES, AND CONDUITS IN ALL EXPOSED BRICK WALL LOCATIONS SHALL BE RECESSED MOUNTED INSIDE BRICK. LOCATE DEVICES AT CELL WITH REINFORCEMENT CENTER AT BRICK AND/OR ONE CELL OVER AWAY FROM JAMB. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CMU WALL LOCATIONS SECTIONS, AND DETAILS.

- NO CONDUITS OR PIPING IN ANY SPACE SHALL BE EXPOSED AT THE CEILING AND WALL (COORDINATE WITH ALL DISCIPLINES PRIOR TO CONSTRUCTION). LOCATE ALL CONDUIT WITHIN WALLS

CONDUCTORS AND CABLES

REFER TO SPECIFICATIONS 26 0519 FOR ADDITIONAL INFORMATION.

1. WIRE CONNECTORS SHALL BE MINIMUM 75 DEGREE CENTIGRADE RATED AND PROPERLY SIZED FOR THE NUMBER OF CONDUCTORS BEING CONNECTED, TERMINATED, SPLICED, ETC. ALL ABOVE GRADE CONNECTORS SHALL BE SOLDERLESS LUG OR PLASTIC WIRE NUT TYPE, SCREW ON, PRESSURE CABLE TYPE (WIRE UT OR SPRING NUT TYPE) 600 VOLT, 105 DEGREE C, WITH SKIRT TO COVER ALL PORTIONS OF STRIPPED WIRES. CONNECTOR SHALL BE U.L. RATED FOR NUMBER AND SIZE OF CONDUCTORS BEING JOINED TOGETHER AS SPLICED.
2. WIRES AND CABLES FOR LINE VOLTAGE SYSTEM AND CONTROLS. WIRE AND CABLE SHALL BE COPPER, 600 VOLT RATED THROUGH OUT. CONDUCTORS 14AWG OT 10AWG, SOLID OR STRANDED. CONDUCTORS 8 AWG AND LARGER, STRANDED
3. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. MINIMUM SIZE FOR INDIVIDUAL CONDUCTORS SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON PANEL SCHEDULE OR PLANS. SIZE #6 AWG AND LARGER SHALL BE STRANDED CONDUCTOR. INDIVIDUAL CONDUCTORS SHALL BE INSULATED WITH TYPE, XHHW, THW, THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED.
4. PROPER INSULATION TYPE SHALL BE USED FOR THE PROPER ENVIRONMENTAL APPLICATION (I.E. WATERPROOF, WET LOCATION, PLENUM TEMPERATURE RATED). ALL CONDUCTORS, WIRING CABLE WHERE INSTALLED BELOW FLOOR, SLAB OR UNDERGROUND SHALL BE CONSIDERED WET LOCATIONS, AND SHALL BE RATED ACCORDINGLY. NON WATERPROOF CABLING IS NOT ALLOWED IN ANY BELOW GRADE OR WET APPLICATION.
5. GROUP THE COMMON NEUTRAL CONDUCTOR FOR MULTIPLE CIRCUITS WITH ITS ASSOCIATED UNGROUNDED CONDUCTORS WHEN CONTAINED IN THE SAME ENCLOSURE. CEC 200.4(B)
6. THE BRANCH CIRCUIT SERVING EMERGENCY LIGHTING AND POWER CIRCUITS SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT. CEC 700.19.

RECEPTACLES AT DAMP AND WET LOCATION

A. ALL 15 AND 20AMPERE RECEPTACLES FOR BOTH DAMP AND WET LOCATIONS REQUIRED TO BE LISTED WEATHER-RESISTANT (WR) TYPE PER CEC 406.9 (A) AND (B)

B. CEC 406.9(A) RECEPTACLES IN DAMP LOCATIONS: RECEPTACLES INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM THE WEATHER OR IN OTHER DAMP LOCATIONS SHALL BE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED (ATTACHMENT PLUG CAP NOT INSERTED AND RECEPTACLE COVERS CLOSE)

C. CEC 406.9(B) RECEPTACLES OF 15 AND 20AMP, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" OTHER LISTED PRODUCTS, ENCLOSURES, OR ASSEMBLIES PROVIDING WEATHERPROOF PROTECTION THAT DO NOT UTILIZE AN OUTLET BOX HOOD NEED TO BE MARKED "EXTRA DUTY"

D. EXCEPTION: 15 AND 20AMP, 125 THROUGH 250 VOLT RECEPTACLES INSTALLED IN A WET LOCATION AND SUBJECT TO ROUTINE HIGH-PRESSURE SPRAY WASHING SHALL BE PERMITTED TO HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHEN THE ATTACHMENT PLUG IS REMOVED.

E. ALL 15 AND 20AMPERE RECEPTACLES FOR BOTH DAMP AND WET LOCATIONS REQUIRED TO BE LISTED WEATHER-RESISTANT (WR) TYPE PER CEC 406.9.

F. ALL GFCI PROTECTION MUST BE READILY ACCESSIBLE.

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.

   B. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

   +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
   +46" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)
   +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
   +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX) THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

   ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

   ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

4. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

5. EQUIPMENT ANCHORAGE NOTE
   ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2019 CBC, SECTIONS 1613A AND 1616A AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

   THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 2019 CBC SECTION 1616A.1.18:

   A. FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2019 CBC TABLE 13.5-1)
   B. TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2019 CBC SECTION 1616A.1.18 ITEM 2.
   C. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F
      THAT MEET ALL OF THE CRITERIA LISTED IN 2019 SECTION 1616A.1.18 ITEM 3.
   D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A
      WALL

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

   THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

   COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

   THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ABBREVIATIONS

A	AMPERE	FC#	FAN COIL	OSA	OFFICE of the STATE ARCHITECT
AB	AMP BREAKER	FLA	FULL LOAD AMPS	OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
ABAND	ABANDONED	FLR	FLOOR		
ABV	ABOVE	FLUOR	FLUORESCENT		
AC	ALTERNATING CURRENT	FS	FUSIBLE SWITCH		
AC-#	AIR CONDITIONER	FSAS	FIRE STATION ALERTING SYSTEM	OVLD	OVERLOAD
ADJ	ADJACENT			P	POLE
AF	AMP FUSE, AMP FRAME	FVNR	FULL VOLTAGE NON-REVERSING	PA	PUBLIC ADDRESS
AFF	ABOVE FINISH FLOOR	G	GROUNDING CONDUCTOR	PB	PULLBOX
AFG	BOVE FINISH GRADE	GC	GENERAL CONTRACTOR	PC	PULL CHAIN
AIC	AMPERES INTERRUPTING CAPACITY	GD	GARBAGE DISPOSAL	PC	PHOTOCELL
		GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PC	PLUMBING CONTRACTOR
AI	ALUMINUM			ph	PHASE
AS	AMP SWITCH RATING	GFI	GROUND FAULT CIRCUIT INTERRUPTER	PNL	PANEL
ATS	AUTOMATIC TIME SWITCH			POC	POINT OF CONNECTION
ATS	AUTOMATIC TRANSFER SWITCH	GND	GROUND	-PP-	POWER PRIMARY
		GRS	GALVANIZED RIGID STEEL	-PS-	POWER SECONDARY
AV	AUDIBLE/AUDIO VISUAL	GWS	GANG WITH SWITCH	PV	PHOTOVOLTAIC
AWG	AMERICAN WIRE GAGE	H	HEIGHT, HIGH	(R)	RELOCATE(D)
BFG	BELOW FINISH GRADE	HACR	HEATING, AC & REFRIG	RECEPT	RECEPTACLE
BIL	BASIC IMPULSE LEVEL	HID	HIGH INTENSITY DISCHARGE	REF	REFRIGERATOR
BLDG	BUILDING	HO	HIGH OUTPUT	REQ'D	REQUIRED
C	CONDUIT	HOA	HAND-OFF-AUTO	RLA	RATED LOAD AMPS
-C-	CATV CONDUIT	hp	HORSEPOWER	RM	ROOM
CAB/T	CABINET	HPF	HIGH POWER FACTOR	RMC	RIGID METAL CONDUIT
CATV	CABLE TELEVISION	HPS	HIGH PRESSURE SODIUM	RMV	REMOVE
CB	CIRCUIT BREAKER, CODE BLUE	IC	INTERCOM	RPLC	REPLACE
		ID	IDENTIFICATION	RS	RAPID START
CBC	CA. BUILDING CODE	IF	INSIDE FROST	SC	SIGNAL CABINET
CEC	CA. ELECTRICAL CODE	IG	ISOLATED GROUND	SCC	SHORT CKT CURRENT
	CA. ENERGY COMMISSION	J-BOX	JUNCTION BOX	SFM	STATE FIRE MARSHAL
CF	COMPACT FLUORESCENT	k	QUANTITY 1000	SHT	SHEET
CFC	CALIFORNIA FIRE CODE	kVA	KILOVOLTAMPS	SL	SLIMLINE, SWITCH LEG
CLG	CEILING	kW	KILOWATT	SPEC	SPECIFICATION
CL	CENTER LINE	LC	LIGHTING CONTACTOR	SPST	SINGLE POLE SINGLE THROW
CKT	CIRCUIT	LPS	LOW PRESSURE SODIUM	SQ	SQUARE
CNTR	CONTRACTOR	LRA	LOCKED ROTOR AMPS	ST/FG	STORAGE
C.O.	CONDUIT ONLY (W/PULLWIRE)	LS	LIFE SAFETY BRANCH	SURF	SURFACE
		LT	LIGHT	SVC	SERVICE
COND	CONDUIT, CONDUCTOR	LTG	LIGHTING	SW	SWITCH
CR	CRITICAL BRANCH	LV	LOW VOLTAGE	T	TRANSFORMER, TERMINAL
CSFM	CALIFORNIA SFM	MC	MECHANICAL CONTRACTOR	-T-	TELEPHONE CONDUIT
CT	CURRENT TRANSFORMER	MCA	MINIMUM CKT AMPS	(TBR)	TO BE REMOVED
Cu	COPPER	MCB	MAIN CIRCUIT BREAKER	TC	TIME CLOCK
CU-#	CONDENSING UNIT	MCTB	MAIN CATV TERMINAL BOARD	TEL	TELEPHONE
D	DEPTH	MCTC	MAIN CATV TERMINAL CABINET	TELCO	TELEPHONE COMPANY
DC	DIRECT CURRENT			TS	TIME SWITCH
DF	DRINKING FOUNTAIN	MECH	MECHANICAL	TSP	TWISTED SHIELDED PAIR
DIA	DIAMETER	MFR	MANUFACTURER	TTB	TELEPHONE TERMINAL BOARD
DISC	DISCONNECT	MFS	MAIN FUSIBLE SWITCH		
DIST	DISTRIBUTION	MH	METAL HALIDE	TTC	TELEPHONE TERMINAL CABINET
DPST	DOUBLE POLE SINGLE THROW	MLO	MAIN LUGS ONLY		
DW	DISHWASHER	MOCP	MAXIMUM OCP	TX	TRANSFORMER
EM	EMERGENCY	MSB	MAIN SWITCHBOARD	TYP	TYPICAL
(E)	EXISTING	MT	MOUNT	TYP SIM	TYPICAL SIMILAR
EA	EACH	MT HT	MOUNTING HEIGHT	UC	UNDERCABINET
EB	ELECTRONIC BALLAST	MTS	MANUAL TRANSFER SWITCH		UNDERCOUNTER
EC	ELECTRICAL CONTRACTOR	MTTB	MAIN TELEPHONE TERMINAL BOARD	UG	UNDERGROUND
EC-#	EVAPORATIVE COOLER			UGPS	UNDERGROUND PULL SECTION
EF-#	EXHAUST FAN	MTTC	MAIN TELEPHONE TERMINAL CABINET	UL	UNDERWRITERS LABORATORIES
EL	EVENING LIGHT	MW	MICROWAVE		
ELEC	ELECTRICAL	N	NEUTRAL (GROUNDED CONDUCTOR)	UON	UNLESS OTHERWISE NOTED
EM	EMERG BATTERY BACKUP			USA	UG SVC ALERT 800-642-2444
	EMERGENCY BALLAST	(N)	NEW	V	VOLT
EMERG	EMERGENCY	N3R	NEMA 3R	VA	VOLT AMPERES
EOL	END OF LINE	NC	NORMALLY CLOSED	VAC	VOLT ALTERNATING
EQUIPT	EQUIPMENT	NEC	NATIONAL ELECTRICAL CODE		CURRENT
ES	ENERGY SAVING	NEMA	NAT'L ELEC MANUFACTURER'S ASSOC	VHO	VERY HIGH OUTPUT
(EXN)	(E) IN (N) LOCATION			VOLT	VOLTAGE
(EXR)	(E) TO BE (R)	NIC	NOT IN CONTRACT	VR	VANDAL-RESISTANT
EXT	EXTERIOR	NL	NIGHT LIGHT	W	WIDTH, WATT, WIRE
F	FLUORESCENT	NO	NORMALLY OPEN	WH-#	WATER HEATER
(F)	FUTURE	NPF	NORMAL POWER FACTOR	WP	WEATHERPROOF (NEMA 3R)
F-#	FURNACE	NTS	NOT TO SCALE	XFMR	TRANSFORMER
FA	FIRE ALARM	OC	ON CENTER	+48	INDICATES MOUNTING HEIGHT AFF
FACP	FIRE ALARM CONTROL PANEL	OCP	OVERCURRENT PROTECTION		
FAT	FIRE ALARM TERMINAL	OD	OUTSIDE DIAMETER		
FAU	FORCED AIR UNIT	OH	OVERHEAD		
FBO	FURNISHED BY OTHERS				

GENERAL SITE PLAN NOTES

A. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS:

PACIFIC GAS AND ELECTRIC (PG&E)
JUSTIN McDONALD
805-546-1271
JKMO@PGE.COM
APPLICATION #124816031

AT&T
NEIL ZAKARIA
805-704-3813
NEIL.ZAKARIA@ATT.COM

B. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY UTILITY COMPANY AND / OR THIS SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.

C. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

D. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

E. ALL SITE UTILITY WORK SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK.

F. CONTRACTOR TO PROVIDE SECURITY LIGHTING WITHIN FENCE CONSTRUCTION AREA DURING NON-WORK HOURS. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING FOR PEDESTRIAN PATHWAY OUTSIDE OF CONSTRUCTION FENCING IN VICINITY OF CONSTRUCTION AREA.

LEGEND

NOTE: INTERPRET IN CONTEXT

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED FLUOR.
- SURFACE FLUOR.
- STRIP FIXTURE UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT- DECORATIVE
- UPLIGHT- FLUSH IN GRADE
- BOLLARD
- TANDEM-WIRED LAMPS
- UNDERCABINET LIGHT
- WALL SURFACEMOUNT LINEAR TYPE
- PENDANT LINEAR FLUOR.
- RECESSED WALLMOUNT
- WALLPACK
- EXIT LIGHT- WALL
- EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- LETTER ADJACENT INDICATES FIXTURE TYPE

POWER/COMM.

- SINGLE RECEPT.
- DUPLEX RECEPT.
- DUPLEX- HALF SWITCHED
- DOUBLE DUPLEX
- SPECIAL CONFIGURATION
- FLOORMOUNT 208V, 1Ø RECEPT
- DUPLEX- FLOOR OUTLET
- GROUND FAULT CIRCUIT INTERRUPT
- MOUNTED ABOVE COUNTER
- JUNCTION BOX
- TELEPHONE OUTLET
- DATA OUTLET
- PHONE/DATA COMBO OUTLET
- MOUNTED ABOVE COUNTER
- TELEVISION OUTLET
- SAFETY DISCONNECT
- DROP CORD RECEPT
- ABOVE-CLGMOUNT J-BOX
- TV OUTLET-FLOORMOUNT
- TELEPHONE FLOOR OUTLET
- DATA FLOOR OUTLET
- PHONE/DATA COMBO FLOOR OUTLET

CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- EXISTING TO REMAIN
- (E) POWER HOMERUN
- WIRE LINE- CONTINUES
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

WIFI

- WIRELESS ACCESS POINT

SWITCHES

- SPST
- DPST
- 3-WAY
- 4-WAY
- VACANCY SENSOR
- VACANCY SENSOR WITH DIMMING
- DIMMER
- LIGHTING CONTROL PANEL
- NLIGHT POWER PACK

MISCELLANEOUS

- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- PHASE
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET

SOUND

- SPEAKER- CLG FLUSHMOUNT
- AUXILIARY/MICROPHONE WALL FLUSHMOUNT
- VOLUME CONTROL WALL FLUSHMOUNT
- WIRELESS SYSTEM- WALL FLUSHMOUNT

CONVENTIONS

- NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE
- DETAIL REFERENCE:
  - DETAIL DESIGNATION
  - SHEET NUMBER REFERENCE
- FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING CONDUCTORS, FEEDER TO UNDERGROUND MEDIUM VOLTAGE, "CO14" INDICATES CONDUIT ONLY.

ELECTRICAL DRAWING LIST

E-001	ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS
E-002	SINGLE LINE DIAGRAM AND FIXTURE SCHEDULE
E-003~E-005	ELECTRICAL DETAILS
E-006~E-008	EXISTING POLE IMAGES
ED-101~102	ELECTRICAL DEMOLITION SITE PLANS
ES-101	ELECTRICAL SITE PLAN
EK-101	ELECTRICAL KIOSK FLOOR PLANS
ER-101	ELECTRICAL RESTROOM FLOOR PLANS
ET24101	ENERGY COMPLIANCE FORMS - INTERIOR LIGHTING (RESTROOM)
ET24101	ENERGY COMPLIANCE FORMS - INTERIOR LIGHTING (KIOSK)

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CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
ELECTRICAL GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SCHEDULES

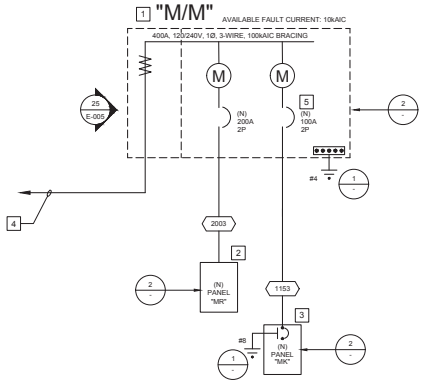
REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
DRAWN BY:	TR
CHECKED BY:	CJ
APPROVED BY:	CJ
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	E-001

LIGHTING FIXTURE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
A		KENALL	FS824R 2TB MPA DB 33L40K 120V	120	37	LED, 40K	WALL	2FT LINEAR LED LIGHT, HIGH IMPACT RESISTANT LENS
B1		LITHONIA	BLWP4 40L ADP EZ1 LP840	MVOLT	35	LED, 40K	SURFACE	4FT LINEAR WRAP, 0-10V DIMMING
B2		LITHONIA	BLWP2 86L ADP EZ1 LP840	MVOLT	7	LED, 40K	WALL, +9.5" AFF	2FT LINEAR WRAP, 0-10V DIMMING
SW		HANDELMAN	OL12.9WB CORDOVA 9" WALL BRACKET	120	30	(3)10W LED BULB, 4000K	WALL	DECORATIVE EXTERIOR WALL LIGHT (9"WX28"HX 12" PROJECTION) AMBER GLAZING AT PERFORATED METAL, CLEAR GLAZING AT WINDOWS.
SD		BEGA	24813 K4 BRZ MGU	MVOLT	10.4	LED, 40K	RECESSED	LED RECESSED CEILING DOWN LIGHTS, VORTEX REFLECTOR, ASYMMETRIC BEAM DISTRIBUTION, BRONZE FINISH, 0-10V DIMMING, MARINE GRADE UNDERCOAT
SG		TARGETTI	KPLM RP HE MW L2 RGBW 1DU2525K IDU2521 1E2524 1E0388 DX8PLEAD50 TGDMXSLESAU11	120	15w	LED, RGBW	IN-GRADE, CONCRETE POUR APPLICATION	MINI RGBW IN-GRADE LIGHTING, PROVIDE 1-50W DMX POWER SUPPLY (PS041) FOR TWO "SG". REFER TO SITE PLAN (50FT DIRECT BURIAL LENGTH), DMX CONTROL
SP		HANDELMAN (22 / E-005)	CUSTOM FIXTURE WITH (2)35W LED PACKAGE	120	70W	LED, 40K	CONCRETE BASE (5 / E-005)	DECORATIVE POLE, 2-14"X30" LED HEAD, WITH A 5" DIAMTER X 16FT POLE. INCLUDES BANNER ARM AND 120V OUTLET



COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
2003	(1)2"C (PVC 40)	(3)#3/0 THWN AND (1)#6 CU GROUND.
1153	(1) 1-1/2"C (PVC 40)	(3) #2 THWN & (1) #8 GND.

☐ REFERENCE NOTES

1. NEW WALL HUNG PG&E APPROVED UNDERGROUND PULL SECTION [RYCO #PB400-1 OR EQUAL] AND TWO METER SECTION WITH CIRCUIT BREAKERS (22KAIC) [RYCO #WCBHM22-1] NEMA 3R. 400AMP SERVICE, 120/240V, 1Ø, 3W.
2. NEW 200AMP PANEL MOUNTED INSIDE BUILDING RESTROOM PLUMBING SHAFT SEE FLOOR PLAN FOR LOCATION.
3. NEW SERVICE ENTRANCE RATED LOAD CENTER PANEL FOR KIOSK. SEE FLOOR PLAN FOR LOCATION
4. NEW 5" UNDERGROUND SERVICE CONDUIT TO PG&E SECONDARY SITE PULL BOX.
5. PROVIDE 200AMP FRAME WITH A 100AMP TRIP BREAKER.

SINGLE LINE DIAGRAM NOTES

A. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

B. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

C. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

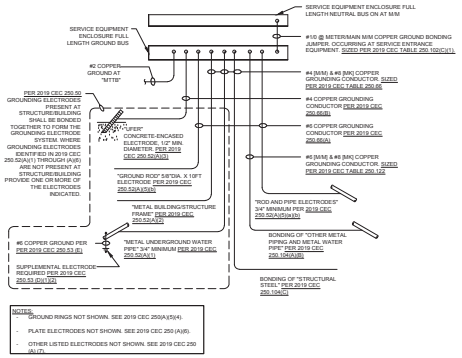
D. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING METER/MAIN AND LOAD CENTER SIZED TO FIT IN THE AVAILABLE SPACE IN THE ELECTRIC ROOM. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONAL INFORMATION NOT SHOWN ON THE ELECTRICAL PLANS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL SWITCHGEAR, AND TERMINATION CABINETS ON FLOOR PLAN WITH SUBMITTAL.

E. PER CALIFORNIA TITLE 24 SECTION 130.5, WIRING PROVISIONS HAVE BEEN MADE FOR DISAGGREGATION OF THE ELECTRICAL CIRCUITS, THE OPTIONAL METERING HAS NOT BEEN PROVIDED FOR THIS PROJECT.

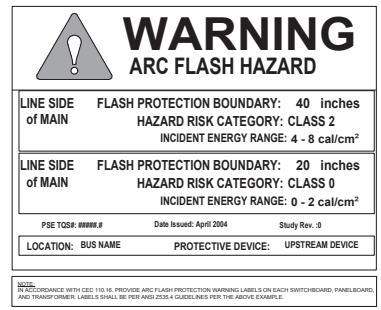
F. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.

G. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REVERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD. TYPICAL.

SINGLE LINE DIAGRAM



1 GROUND/BOND DETAIL



2 ARC FLASH SIGNAGE

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CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: SINGLE LINE DIAGRAM AND FIXTURE SCHEDULE

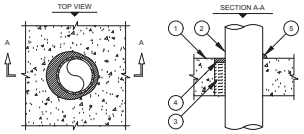
REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
DRAWN BY:	TR
CHECKED BY:	CJ
APPROVED BY:	CJ
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	E-002

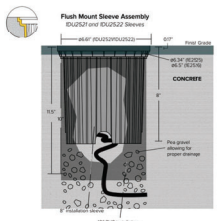
F-RATING = 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400° F = 4 CFM/SQ. FT.
W-RATING = CLASS I (SEE NOTE NO. 4 BELOW)

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING):
   A. ANY LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL-U/UL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 10" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. MINIMUM 3" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR NOMINAL 4" DIAMETER (AND SMALLER), AND MINIMUM 4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR PIPES GREATER THAN NOMINAL 4" DIAMETER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, CP 604 SELF-LEVELING FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT. (NOT REQUIRED WHEN CP 604 SELF-LEVELING FIRESTOP SEALANT IS USED, ITEM NO. 4).



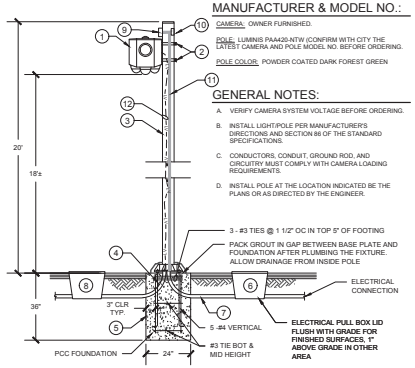
NOTES :
1. MAXIMUM DIAMETER OF OPENING = 12".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
4. W-RATING APPLIES ONLY WHEN CP 601S ELASTOMERIC FIRESTOP SEALANT OR CP 604 SELF-LEVELING FIRESTOP SEALANT IS USED.

7 METAL PIPE THROUGH CONCRETE OR BLOCK WALL/FLOOR
NOT TO SCALE



INSTALLATION DIAGRAM FOR CONCRETE POUR APPLICATION PER MANUFACTURER REQUIRMENTS

4 FIXTURE TYPE "SG" MOUNTING DETAIL
NOT TO SCALE



MANUFACTURER & MODEL NO.:
CAMERA: OWNER FURNISHED.

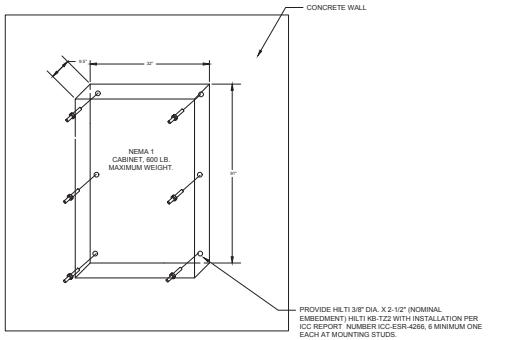
POLE: LUMINIS PAA420-NTW (CONFIRM WITH CITY THE LATEST CAMERA AND POLE MODEL NO. BEFORE ORDERING.

POLE COLOR: POWDER COATED DARK FOREST GREEN

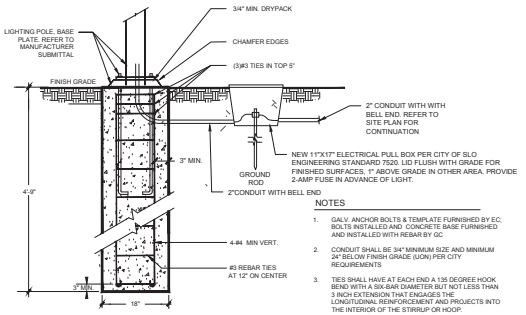
GENERAL NOTES:
A. VERIFY CAMERA SYSTEM VOLTAGE BEFORE ORDERING.
B. INSTALL LIGHT/POLE PER MANUFACTURER'S DIRECTIONS AND SECTION 86 OF THE STANDARD SPECIFICATIONS.
C. CONDUCTORS, CONDUIT, GROUND ROD, AND CIRCUITRY MUST COMPLY WITH CAMERA LOADING REQUIREMENTS.
D. INSTALL POLE AT THE LOCATION INDICATED BE THE PLANS OR AS DIRECTED BY THE ENGINEER.

ⓧ INSTALLATION NOTES:
1. CAMERA: CITY FURNISHED AND INSTALLED CAMERA. CONTRACTOR TO TERMINATE FIBER. COORDINATE WITH CITY IT.
2. POLE MOUNT: GRAINGER 3/4" WIDE, T-BOLT HOSE CLAMP, PK5 OR APPROVED EQUAL.
3. POLE: (PAA240) LUMINIS 5" DIAMETER X MIN .124 WALL, 6061-T6 ALUMINUM ALLOY, 18' HEIGHT, RATED FOR MIN 80 MPH WIND LOAD WITH REINFORCED CASE BASE PLATE AND CAST ALUMINUM BASE COVER. PROVIDE END CAP.
4. ANCHOR BOLTS: GALVANIZED STEEL, 3/4" Ø X 30" WITH 4" LEG, (4) TOTAL WITH GALVANIZED NUTS AND WASHERS (8) TOTAL.
5. PCC FOUNDATION: CLASS 3 CONCRETE
6. PULL BOX: SHALL BE 11"X17" CONCRETE PULL BOX MARKED "ELECTRICAL" AND INCLUDE VANDALISM PROOF BOLTS.
7. CONDUIT: 2" MIN.
8. PULL BOX: SHALL BE 11"X17" CONCRETE PULL BOX MARKED "FIBER" AND INCLUDE VANDALISM PROOF BOLTS.
9. PROVIDE POLE WITH LOCKABLE 1-GANG METALLIC WHILE-IN USE COVER WITH GFI WATER RESISTANT DUPLEX RECEPTACLE DEVICE. (METALLIC COVER TO MATCH POLE FINISH). LOCATE WITH ENT ENTRY AT 3" BELOW TOP OF BOX CENTERLINE.
10. PROVIDE HANDHOLE OPPOSITE OF OUTLET. REINFORCED HANDHOLE WITH W.P. COVER. PROVIDE A MEANS OF STRAIN RELIEF TO SUSPEND THE ENT.
11. BRANCH CIRCUIT ∑ ENT CONDUIT. SWEEP CONDUIT INTO EXTERIOR J-BOX.
12. FIBER TO CITY REQUIREMENTS.

1 POLE MOUNTED CAMERA
NOT TO SCALE

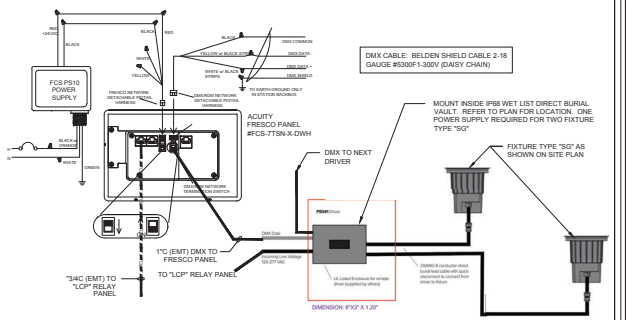


8 SURFACE MOUNTING DETAIL AT CONCRETE WALL
NOT TO SCALE

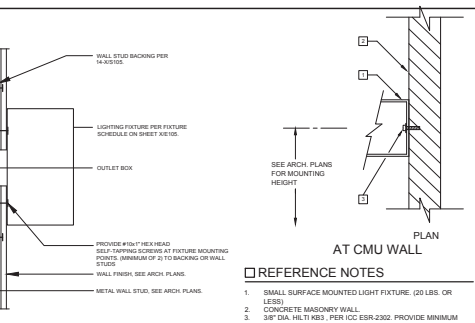


NOTES
1. GALV. ANCHOR BOLTS & TEMPLATE FURNISHED BY EC; BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY GC.
2. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND MINIMUM 24" BELOW FINISH GRADE (UON) PER CITY REQUIREMENTS
3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER BUT NOT LESS THAN 3 INCH EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
4. ADD #6 SOLID UFER GROUND TO EACH BASE. LOCATE AT 1'X'X7" PULL BOX NEXT TO EACH LIGHT POLE.

5 FIXTURE TYPE 'SP' MOUNTING DETAIL
NOT TO SCALE



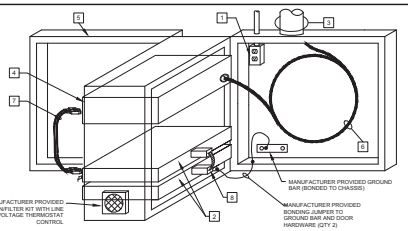
2 FIXTURE TYPE 'SG' WIRING DIAGRAM
NOT TO SCALE



☐ REFERENCE NOTES
1. SMALL SURFACE MOUNTED LIGHT FIXTURE. (20 LBS. OR LESS)
2. CONCRETE MASONRY WALL.
3. 3/8" DIA. HILTI KB3 , PER ICC ESR-2302. PROVIDE MINIMUM 2-1/2" EMBEDMENT.

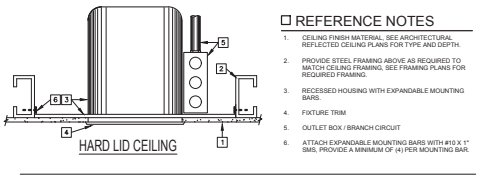
NOTE:
FLUSH MOUNTED OUTLET BOX IS NOT SHOWN FOR CLARIFICATION.

9 TYP. WALL SURFACE MOUNTED LIGHTING FIXTURE
NOT TO SCALE



☐ REFERENCE NOTES
1. EC SHALL PROVIDE (N) DEDICATED 20A, 120V POWER CIRCUIT TO RECEPTACLE ENCLOSED INSIDE CABINET.
2. SYSTEM ELECTRONICS TO BE PROVIDED AND INSTALLED BY OTHERS.
3. (N) RACEWAY FOR HORIZONTAL CABLING TO USER STATIONS AND INCOMING FIBER OPTIC CABLE.
4. INSTALL FIBER OPTIC SPLICE TRAY. REFER TO CITY SPECIFICATION.
5. DOUBLE HINGED IDF CABINET CHATSWORTH CUBE -IT, 24"W X 30"L X 27.9"D (12419-X48) OR EQUIVALENT WITH TEMPERED GLASS FRONT PANEL, THERMOSTATICALLY CONTROLLED FAN/FILTER KIT AND SURGE-PROTECTED OUTLET KIT SHALL BE INSTALLED.
6. (N) INCOMING FIBER OPTIC CABLE, PROVIDE SERVICE LOOP INSIDE CABINET.
7. DUPLEX FIBER OPTIC PATCH CORD. LC-LC, CONNECTOR TYPE PER CITY OF SLO REQUIREMENTS.
8. CABLE PROVIDED BY OTHERS TO SUPPORT LOGICAL STACKED SWITCH. PROVIDED ONLY WHEN (2) OR MORE NETWORK SWITCHES ARE INSTALLED INTO CABINET. INSTALLED BY ELECTRICAL CONTRACTOR.

6 DATA CABINET
NOT TO SCALE



☐ REFERENCE NOTES
1. CEILING FINISH MATERIAL. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPE AND DEPTH.
2. PROVIDE STEEL FRAMING ABOVE AS REQUIRED TO MATCH CEILING FRAMING, SEE FRAMING PLANS FOR REQUIRED FRAMING.
3. RECESSED HOUSING WITH EXPANDABLE MOUNTING BARS.
4. FIXTURE TRIM
5. OUTLET BOX / BRANCH CIRCUIT
6. ATTACH EXPANDABLE MOUNTING BARS WITH #10 X 1" SMS. PROVIDE A MINIMUM OF (4) PER MOUNTING BAR.

3 RECESSED LIGHTING MOUNTING DETAIL
NOT TO SCALE

THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

ELECTRICAL DETAILS

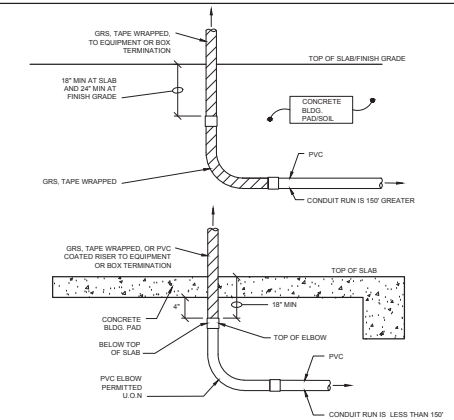
PROJECT TITLE:

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
DRAWN BY:	TR
CHECKED BY:	CJ
APPROVED BY:	CJ
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	E-003



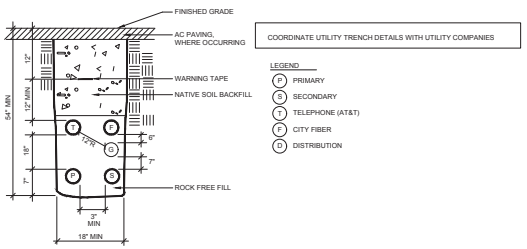
NOTES:

UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB SHALL BE AS FOLLOWS:

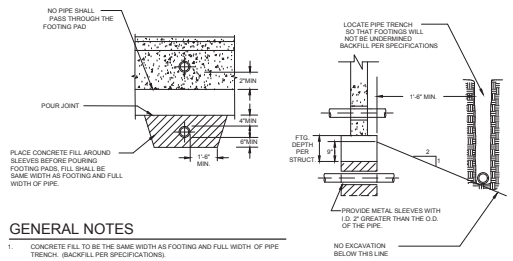
1. PVC ELBOWS ALLOWED IF TOP OF ELBOW IS MINIMUM 18" BFG OR BELOW TOP OF SLAB, OTHERWISE GRS, TAPE WRAPPED, ELBOWS ARE REQUIRED.
2. GRS ELBOWS ARE REQUIRED IF CONDUIT RUN IS 150' GREATER.
3. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
4. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

17 TYP. UNDERGROUND CONDUITS & TRANSITIONS
NOT TO SCALE

18 NOT USED



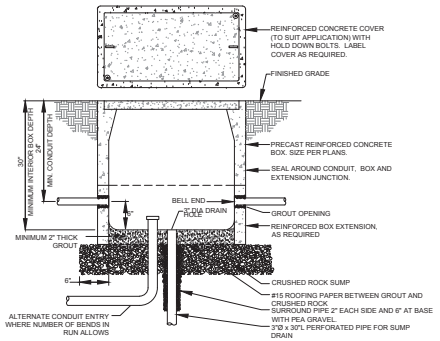
13 TYPICAL UTILITY TRENCH DETAIL
NOT TO SCALE



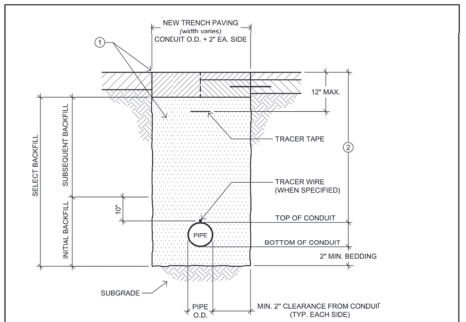
GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

14 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL
NOT TO SCALE



15 TYPICAL CONCRETE PULL BOX DETAIL
NOT TO SCALE



INSTALLATION NOTES:

1. See Engineering Standards 6020 and 6030, and Section 26-1 & 77-1, of the Standard Specifications for requirements regarding trench backfill and restoration of surface improvements.
2. Depth of Conduit shall conform to the following:
   - Min. 18" for Traffic Signal wire
   - Min. 24" for Electrical service and Fiber-optic wire
   - Min. 30" for all other wire types

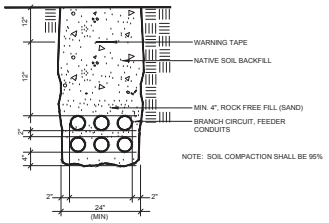
GENERAL NOTE:

A. See Standard Specification 86-2.05 for information regarding conduit materials, use and installation.

REVISIONS	BY	APP	DATE
"Tracer wire when specified"	JDL	DA	10-15
Detail 3	KH	MH	1-18
Revise drawing & Note 1; delete 3	SR	BL	1-14
STANDARD CURRENT AS OF:	AUGUST 2020		

TRENCH DETAIL #3
CONDUIT TRENCH FOR TRAFFIC SIGNALS, STREET LIGHTS, AND CITY COMMUNICATIONS 6035

11 CITY OF SLO STANDARD 6035
NOT TO SCALE



NOTE: SOIL COMPACTION SHALL BE 95%

12 TYPICAL BRANCH CIRCUIT TRENCH DETAIL
NOT TO SCALE

thoma ENGINEERING
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Phone: (805) 543-3850
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cad@thomaelec.com

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ELECTRICAL DETAILS

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. E-004

BUS RATING: 200A 120/240V, 1PH, 3W
MAIN: 200A MAIN BREAKER
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 kAIC PANEL

TEMP

(N) LOAD CENTER
CONNECTED VA

SURFACE MOUNT. NEMA 3R
LOCATION: TEMP BACKBOARD
WITH EQUIPMENT GND BUS

CKT NWS	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT NWS
				1	SPACE									SPACE	2				
				3	SPACE					500	10	1	30	SPRINKLER TIMER (IRRIGATION SYSTEM) [5.4]	4	N	2		
				5	SPACE									SPACE	6				
				7	SPACE					500				SPACE	8				
				9	SPACE									SPACE	10				
				11	SPACE					500				SPACE	12				
				13	SPACE									SPACE	14				
			R	15	ADOBE BLDG [A-14]	20	1	8		500				SPACE	16				
			R	17	ADOBE BLDG [A-15]	20	1	8	500		8	1	20	MISSION PLAZA STEP LIGHTS [A-7]	18	L	1.2		
				19	SPACE				500		8	1	20	MISSION PLAZA POLE [A-9]	20	L	1.2		
				21	SPACE					500	8	1	20	MISSION PLAZA NW OUTLETS [A-13]	22	R	1.2		
				23	SPACE				500		8	1	20	MISSION PLAZA NE OUTLETS [A-11]	24	R	1.2		
				25	SPACE					500	8	1	20	AMP RECEPTACLE [A-8]	26	R	1.2		
	1.2	L		27	CREEK LIGHTS [B-1]	20	1	8	500		8	1	20	AMP RECEPTACLE [A-10]	28	R	1.2		
	1.2	L		29	CREEK LIGHTS [B-3]	20	1	8	500		8	1	20	AMPH STEPS [A-14]	30	L	1.2		
	1.2	L		31	SOUTH WEST PATH LIGHTS [A-2]	20	1	8	500		8	1	20	MISSION POLE	32	L	1		
	1.2	L		33	SOUTH WEST PATH AND BRIDGE LIGHTING [A-4]	20	1	8	500					SPACE	34				
	1.2	L		35	BROAD STREET LIGHTS AND POLE ACROSS CREEK (SOUTH SIDE) [B-5]	20	1	8		500	8	2	20	POOL PUMP (MISSION) [A-16]	36	N	2		
	1.2	L		37	BROAD STREET LIGHTS AND POLE ACROSS CREEK (SOUTH SIDE) [B-6]	20	1	8	500	500	8	2	2	" " " [A-20]	38	N	2		
				39	SPACE					1331	6	2	50	AMP OUTLET UPPER [B-21]	40	R			
				41	SPACE				1478	2000	6		50	" " " [B-23]	42	R			
									CON:	8478	8830			LOAD (VA) LOAD TYPE LEGEND					
									25%:	520	520			8000 R RECEPTACLE					
									SUB:	0	0			6000 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)					
									TOT:	8103	9460			0 M MECHANICAL					
									AMPS	76	75			0 K KITCHEN APPLIANCE					
														4000 N NON-CONTINUOUS MISC.					
														0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)					

NOTE:
1. ROUTE THROUGH RELAY PANEL
2. EXISTING LOADS [XX] DENOTES OLD CIRCUIT NUMBERS AS SHOWN ON AS-BUILT PLANS. CONTRACTOR TO FIELD INVESTIGATE CIRCUITS AND RE-LABEL/UPDATE FIXTURE SCHEDULES. SEE DEMOLITION SITE PLAN FOR EXISTING CIRCUIT NUMBERS

25 TEMP POWER PANEL SCHEDULE

MYERS/RYCO POWER PRODUCTS, INC.
2500 E. PHILADELPHIA ST. ONTARIO CA 91761 PH 909-923-1600 FAX 909-923-1906

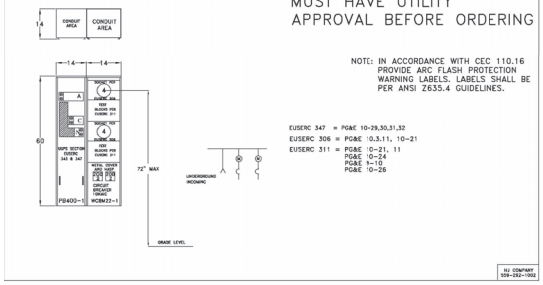
*U.L LISTED DEADFRONT SWITCHBOARD E59802.
*NEMA 3R RATED UNLESS NOTED OTHERWISE.
*PLATED ALUMINUM BUS, *
*DESERT TAN POWDER COATED FINISH.
BRACING @ 10DkAIC SERVICE ENTRANCE RATED

JOB ADDRESS: MISSION RESTROOM
CONTRACTOR: *
DISTRIBUTOR: *
P.O NUMBER: *
MYERS S.O.#: *
VOLTAGE: 120/240 1PH 3W
UTILITY: PG&E 10K AIC

WALL HUNG UNIT
NONSTANDARD CONSTRUCTION: */N
DRAWN BY: HJH DATE: 04-12-2023
DWG#: *
NOTES: SURFACE MOUNTED.

MUST HAVE UTILITY APPROVAL BEFORE ORDERING

NOTE: IN ACCORDANCE WITH CEC 110.16 PROVIDE ARC FLASH PROTECTION WARNING LABELS. LABELS SHALL BE PER ANSI Z635.4 GUIDELINES.



WALL-HUNG SECTION INSTALLATIONS

The Myers Power Products/Ryco wall-hung product line of switchgear is NEMA 3R rated and may be installed in both outdoor and indoor locations. It is designed for surface mounting, with three mounting holes located on the back wall of each section's enclosure. Each section is additionally provided with (3) 12-gauge steel hanger brackets, and (3) 3/8-16 carriage bolts, nuts, flat washers, and split-lock washers. The sections may be mounting with the provided brackets, or directly mounted to a structure via Unistrut channel. Conduit openings are not provided; pull the appropriate sized hole for your conduit entrance on the end wall of the section's enclosure.

According to EUSERC Section 300, exposed meters must be located between 48" and 75" above grade. The wall-hung sections have exposed meters. We recommend the meter center-line to be located no higher than 72" above grade. A wall-hung section, therefore, should be located 17" above grade.

Wall-hung sections may be mounted to buildings or walls. Do not mount directly on the ground. The installation should be in compliance with local building codes and the hanging method determined by the overall weight of the installation.

26 METER BOARD, "M/M" CUTSHEET
NOT TO SCALE

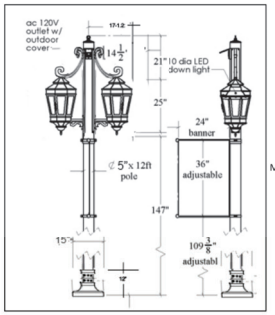
Date: 5/10/2023

S|H STUDIOS
716 N. Milpas St.
Santa Barbara Ca.
93103
805-962-5119

Submittal # 47717

Site: outdoor

CUSTOM Extra Large pole light 0 Light - MIssion Plaza Pole lights 46.5" by 192" Pole Mount



SKU	M-ZOL-134300.46.5
Width (in)	46.5
Height (in)	192
Projection (in)	28.25
Mounting	Pole Mount
Approx. Weight (lbs)	175
Overall Height (in)	192
Max. Watt. Per Socket	33 LED
Voltage	120-24
Canopy Size (in)	
POA to Top (in)	
POA to Bottom (in)	
Finish	Black Rust
Glass	Light Seedy
Ext. Warranty	Yes
Weather Location	Wet

DARK SKY COMPLIANT
LED: input V= 100-277, 33w color 4000K tbd
POLE: 5 dia 1/8 wall straight smooth x 12ft tall, OHA 192"

Production will not commence until we receive an approved submittal

All corrections, additions and changes must be made on this submittal to be considered valid, no verbal changes will be accepted. Any delays in receiving information and approvals will set back delivery times Custom products are not returnable

Chandeliers over 50 lbs. require blocking at the j-box and heavy surface mounted canopies.

Approved as is _____ Date _____

Approved with changes _____ Date _____

22 FIXTURE TYPE SP SUBMITTAL

LIGHTING CONTROL PANEL SCHEDULE

"LCP" ACUITY #ARP INTENS2NLT 24SPR MVOLT HLK SM DTC

LOCATED: PLUMBING CHASE
CONTROL POWER CIRCUIT: MR-8

32 SWITCHING RELAY NEMA 1 ENCLOSURE
FLUSH _
SURFACE X

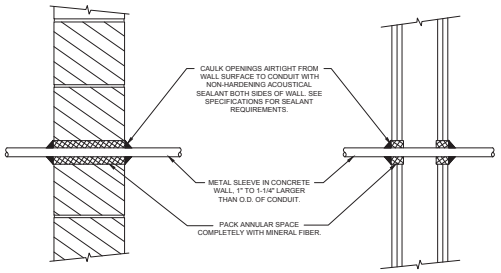
RELAY NO.	CIRCUIT NO.	LOAD DESCRIPTION	CONTROL DESCRIPTION	NOTES (4.5)
R1	MR-3	RESTROOM EXTERIOR	DUSK ON / TIMECLOCK OFF	1,2
R2	MR-12	MISSION IN-GRADE	DUSK ON / TIMECLOCK OFF	2
R3	MR-14	MISSION STRING LIGHT RECEPTACLES	DUSK ON / TIMECLOCK OFF	2
R4	MR-13A	MISSION PEDESTAL OUTLETS	DUSK ON / TIMECLOCK OFF	2
R5	MR-16	MISSION PLAZA STEP LIGHTS	DUSK ON / TIMECLOCK OFF	2
R6	MR-20	MISSION PLAZA POLE LIGHT	DUSK ON / TIMECLOCK OFF	2
R7	MR-22	MISSION PLAZA NW OUTLET PEDESTAL	DUSK ON / TIMECLOCK OFF	2
R8	MR-24	MISSION PLAZA NE OUTLET PEDESTAL	DUSK ON / TIMECLOCK OFF	2
R9	MR-26	AMPHITHEATRE RECEPTACLE	DUSK ON / TIMECLOCK OFF	2
R10	MR-28	AMPHITHEATRE RECEPTACLE	DUSK ON / TIMECLOCK OFF	2
R11	MR-30	AMPHITHEATRE STEP LIGHTS	DUSK ON / TIMECLOCK OFF	2
R12	MR-32	MISSION POLE LIGHT	DUSK ON / TIMECLOCK OFF	2
R13	MR-34	MISSION POLE RECEPTACLE	DUSK ON / TIMECLOCK OFF	2
R14	MR-27	CREEK LIGHTS	DUSK ON / TIMECLOCK OFF	2
R15	MR-29	CREEK LIGHTS	DUSK ON / TIMECLOCK OFF	2
R16	MR-31	SOUTHWEST PATH LIGHTS	DUSK ON / TIMECLOCK OFF	2
R17	MR-33	SOUTH WEST PATH LIGHTS	DUSK ON / TIMECLOCK OFF	2
R18	MR-35	BROAD STREET AND POLE LIGHTS SOUTH CREEK	DUSK ON / TIMECLOCK OFF	2
R19	MR-37	BROAD STREET AND POLE LIGHTS SOUTH CREEK	DUSK ON / TIMECLOCK OFF	2
R20	MR-13B	MISSION PEDESTAL OUTLETS	DUSK ON / TIMECLOCK OFF	2
R21		SPARE	DUSK ON / TIMECLOCK OFF	2
R22		SPARE	DUSK ON / TIMECLOCK OFF	2
R23		SPARE	DUSK ON / TIMECLOCK OFF	2
R24		SPARE	DUSK ON / TIMECLOCK OFF	2
R25-R32 (SPACES)				

NOTES:

1. PROGRAM RELAY FOR DUSK 'ON' WITH PROGRAMMED 'OFF' PER OWNER TIME SCHEDULE.
2. EXTEND 0-10V WIRES TO FIXTURE(S) FOR DIMMING CONTROL.

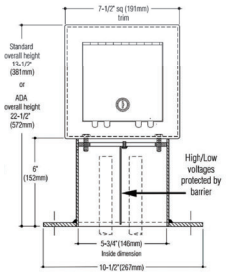
* INCLUDE EXTERIOR PHOTOCELL INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION TO CONTROL DUSK TO DAWN, AND DUSK TO TIME CLOCK OFF OPERATIONS.
* PROVIDE LOW VOLTAGE OVERRIDE SWITCH ADJACENT TO PANEL WITH WEATHER PROOF LOCKABLE COVER. PROGRAM SWITCH FOR 2-HOUR OVERRIDE OF ALL EXTERIOR LIGHTING RELAYS. LABEL SWITCH "OVERRIDE".

24 LIGHTING CONTROL RELAY SCHEDULE

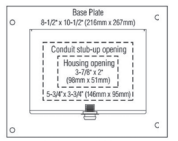


NOTE: NO MULTIPLE CONDUIT PENETRATIONS ALLOWED. PACK AND CAULK EVERY CONDUIT INDIVIDUALLY.

19 SEALED CONDUIT PENETRATION
NOT TO SCALE



Mounting
Recessed housing suitable for concrete pour. Pedestal models include four 4" 5/16-18 stainless steel sleeve anchors. Surface housings include mounting holes, as required.



Pedestal Conduit Clearance

A ☒ OUTLET A: PEDESTAL TL310-WCS-PED WITH (2)20A 120V WEATHER RESISTANT/TAMPER RESISTANT RECEPTACLE. #GFCIWR/TR. COLOR FINISH: RAL6009 OR PANTONE 5535

B ☒ OUTLET B: PEDESTAL TL310-WCS-PED. PROVIDE WITH (1)50A 120/ 240V 4-WIRE CALIFORNIA STYLE RECEPTACLE. WILL REQUIRE 14" DEEP SPECIALIZED HOUSING (NEMA 14-50). #9-50A. COLOR FINISH: RAL6009 OR PANTONE 5535

C ☐ OUTLET C: RECESSED/DEEP HOUSING TO FLUSH MOUNT AT CONCRETE #TL310-WCS. PROVIDE (2)20AMP 125/250V NEMA 14-20R. COLOR FINISH SELECTED BY LANDSCAPE ARCHITECT.

20 LOCKABLE RECEPTACLE PLUG BOX
NOT TO SCALE

21 NOT USED

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
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CITY OF SAN LUIS OBISPO

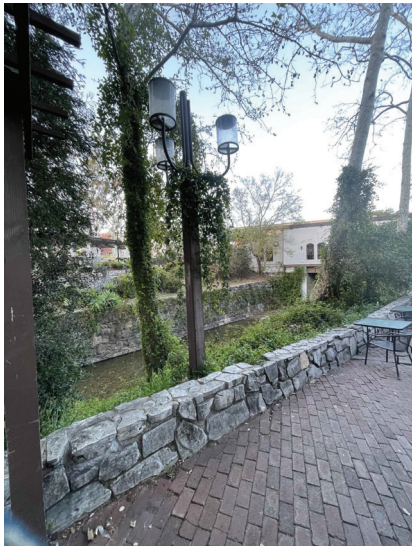
PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ELECTRICAL DETAILS

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. E-005

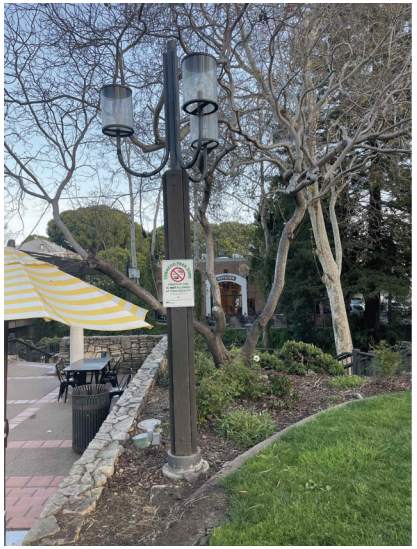


NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

7 PLAZA 7
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

5 PLAZA 5
NOT TO SCALE



NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING ROUND PULL BOX.

3 PLAZA 3
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING ROUND PULL BOX.

1 PLAZA 1
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

8 PLAZA 8
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING ROUND PULL BOX.

6 PLAZA 6
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING ROUND PULL BOX.

4 PLAZA 4
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING ROUND PULL BOX.

2 PLAZA 2
NOT TO SCALE

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CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: EXISTING SITE POLE IMAGES

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

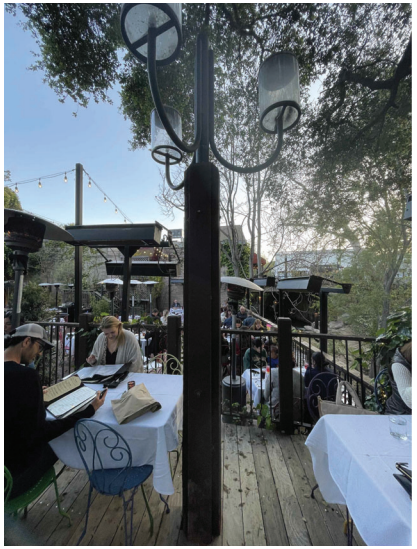
EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. E-006

7 PLAZA 15
NOT TO SCALE

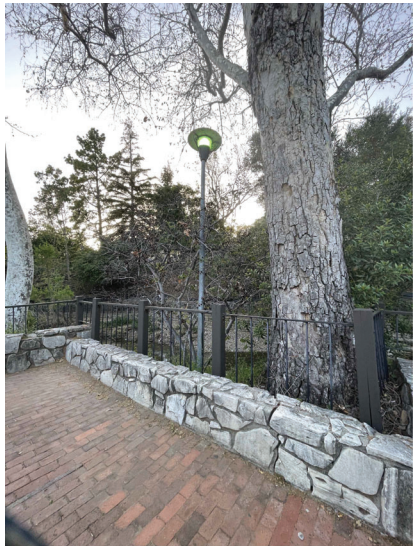
NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

5 PLAZA 13
NOT TO SCALE



NOTE: REMOVE EXISTING PATIO AROUND WOOD POST, DISCONNECT AND REMOVE EXISTING POST LIGHT AT EXISTING NOVO PATIO. NOVO RESTAURANT WILL REPLACE EXISTING WOOD PATIO TO REPLACE OPENING.

3 PLAZA 11
NOT TO SCALE



NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING PULL BOX.

1 PLAZA 9
NOT TO SCALE

8 PLAZA 16
NOT TO SCALE

6 PLAZA 14
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

4 PLAZA 12
NOT TO SCALE

NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.

2 PLAZA 10
NOT TO SCALE

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CITY OF SAN LUIS OBISPO

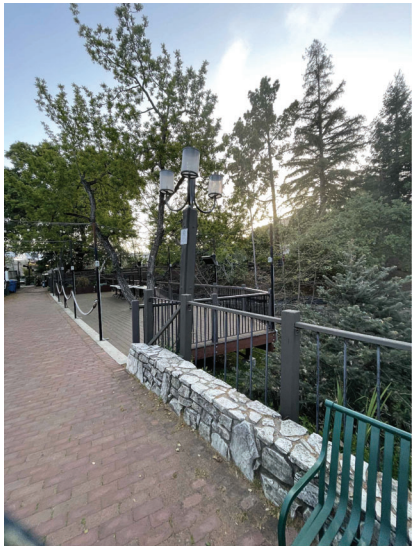
PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: EXISTING SITE POLE IMAGES

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
DRAWN BY:	TR
CHECKED BY:	CJ
APPROVED BY:	CJ
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	E-007

				 NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.		 NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE NEW PULL BOX, GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE NEW PULL BOX.
7		5		3	PLAZA 19 NOT TO SCALE	1	PLAZA 17 NOT TO SCALE
							 NOTE: REPLACE EXISTING POST LIGHT WITH NEW FIXTURE TYPE SP, PROVIDE GROUND ROD, AND 2-AMP FUSE IN ADVANCE OF LIGHT INSIDE EXISTING PULL BOX.
8		6		4		2	PLAZA 18 NOT TO SCALE

CITY OF SAN LUIS OBISPO

PROJECT TITLE:
MISSION PLAZA ENHANCEMENTS

SHEET TITLE:
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SHEET NO.	E-008

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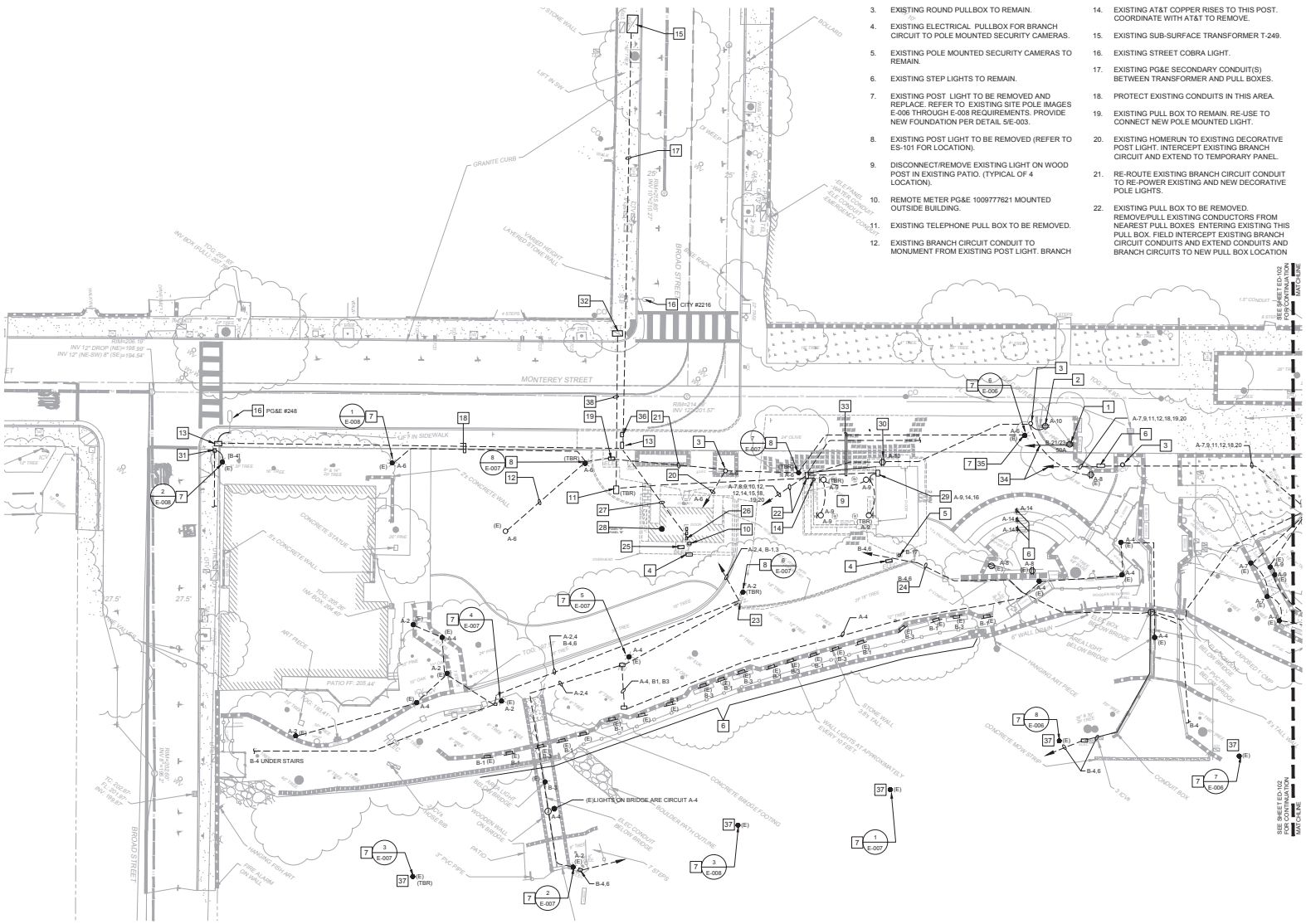

ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1"=20'

NORTH

REFERENCE NOTES

SHEET ED-101

1. EXISTING 50A 120/125V SINGLE PHASE 4W OUTLETS TO REMAIN.
2. EXISTING POST WITH OUTLET TO REMAIN.
3. EXISTING ROUND PULLBOX TO REMAIN.
4. EXISTING ELECTRICAL PULLBOX FOR BRANCH CIRCUIT TO POLE MOUNTED SECURITY CAMERAS.
5. EXISTING POLE MOUNTED SECURITY CAMERAS TO REMAIN.
6. EXISTING STEP LIGHTS TO REMAIN.
7. EXISTING POST LIGHT TO BE REMOVED AND REPLACE. REFER TO EXISTING SITE POLE IMAGES E-006 THROUGH E-008 REQUIREMENTS. PROVIDE NEW FOUNDATION PER DETAIL 5/E-003.
8. EXISTING POST LIGHT TO BE REMOVED (REFER TO ES-101 FOR LOCATION).
9. DISCONNECT/REMOVE EXISTING LIGHT ON WOOD POST IN EXISTING PATIO. (TYPICAL OF 4 LOCATION).
10. REMOTE METER PG&E 1009777621 MOUNTED OUTSIDE BUILDING.
11. EXISTING TELEPHONE PULL BOX TO BE REMOVED.
12. EXISTING BRANCH CIRCUIT CONDUIT TO MONUMENT FROM EXISTING POST LIGHT. BRANCH CIRCUIT WILL NEED TO BE RECONNECTED DUE TO REMOVAL OF POLE LIGHT.
13. EXISTING SECONDARY PG&E PULL BOX TO BE REPLACE WITH NEW. PG&E TO VERIFY SIZE.
14. EXISTING AT&T COPPER RISES TO THIS POST. COORDINATE WITH AT&T TO REMOVE.
15. EXISTING SUB-SURFACE TRANSFORMER T-249.
16. EXISTING STREET COBRA LIGHT.
17. EXISTING PG&E SECONDARY CONDUIT(S) BETWEEN TRANSFORMER AND PULL BOXES.
18. PROTECT EXISTING CONDUITS IN THIS AREA.
19. EXISTING PULL BOX TO REMAIN. RE-USE TO CONNECT NEW POLE MOUNTED LIGHT.
20. EXISTING HOMERUN TO EXISTING DECORATIVE POST LIGHT. INTERCEPT EXISTING BRANCH CIRCUIT AND EXTEND TO TEMPORARY PANEL.
21. RE-ROUTE EXISTING BRANCH CIRCUIT CONDUIT TO RE-POWER EXISTING AND NEW DECORATIVE POLE LIGHTS.
22. EXISTING PULL BOX TO BE REMOVED. REMOVE/PULL EXISTING CONDUCTORS FROM NEAREST PULL BOXES ENTERING EXISTING THIS PULL BOX. FIELD INTERCEPT EXISTING BRANCH CIRCUIT CONDUITS AND EXTEND CONDUITS AND BRANCH CIRCUITS TO NEW PULL BOX LOCATION SHOWN ON SHEET ES-101. PRIOR TO REMOVING, LABEL EACH WIRING WITH BRANCH CIRCUIT NUMBERS FROM EXISTING PANEL. EXTEND NEW BRANCH CIRCUIT TO TEMPORARY PANELBOARD.
23. EXISTING ELECTRICAL PULL BOX LABEL AS WATER VALVE TO BE REPLACE WITH NEW CONCRETE PULL BOX. INTERCEPT EXISTING BRANCH CIRCUITS AND EXTEND TO TEMPORARY PANEL.
24. EXISTING BRANCH CIRCUITS. VERIFY EXACT ROUTING, INTERCEPT EXISTING HOMERUN TO RESTROOM BUILDING, AND EXTEND TO TEMPORARY PANEL.
25. REMOVE AND DISCONNECT EXISTING ELECTRICAL PULL BOX.
26. DISCONNECT AND REMOVE EXISTING 200AMP PANELBOARD WITH (2)100AMP FEED BREAKER TO FEED EXISTING PANEL "A" AND PANEL "B".
27. COORDINATE WITH PG&E TO REMOVE EXISTING SECONDARY SERVICE CONDUITS.
28. DISCONNECT / REMOVE ALL LIGHTS, PLUGS, AND ANY POWER IN BATHROOM. COORDINATE WITH OWNER IF ANY EQUIPMENT IN THE EQUIPMENT ROOM WILL NEED TO BE SALVAGED. COORDINATE WITH LANDSCAPE ARCHITECT FOR LOCATION OF EXISTING IRRIGATION SYSTEM. MUST BE CONNECTED TO TEMPORARY POWER DURING CONSTRUCTION.
29. EXISTING PANEL AND CIRCUITS IN THE ADOBE ROOM TO BE REMAIN. REFER TO NOTE 22 FOR EXISTING HOMERUN BRANCH CIRCUITS.
30. EXISTING OUTLET TO BE REMOVED.
31. EXISTING SITE LIGHTING PULL BOX TO REMAIN.
32. EXISTING AT&T PULL BOX TO REMAIN.
33. FIELD LOCATED EXACT LOCATION OF EXISTING BRANCH CIRCUIT UNDERGROUND IN THIS AREA. INTERCEPT EXISTING BRANCH CIRCUITS AND EXTEND TO NEW PULL BOX SHOWN ON ES-101.
34. FIELD LOCATE ROUTING OF HOME RUN TO EXISTING PULL BOX (NOTE 22)
35. THIS LIGHT WILL NOT BE IN OPERATION WHEN RESTROOM WILL BEING BUILT.
36. EXISTING ELECTRICAL PULL BOX TO BE RELOCATED PER ELECTRICAL PLAN. FIELD VERIFY WHAT THE EXISTING BRANCH CIRCUIT IS FEEDING AND INFORM ENGINEER.
37. VERIFY BRANCH CIRCUIT TO THIS EXISTING POLE. MARK PANEL AND CIRCUIT NUMBER PRIOR TO DEMOLITION OF RESTROOM BUILDING.
38. EXISTING AT&T CONDUIT WITH TELEPHONE DROP TO BE ABANDONED.

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CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ELECTRICAL DEMOLITION SITE PLAN

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
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APPROVED BY:	CJ
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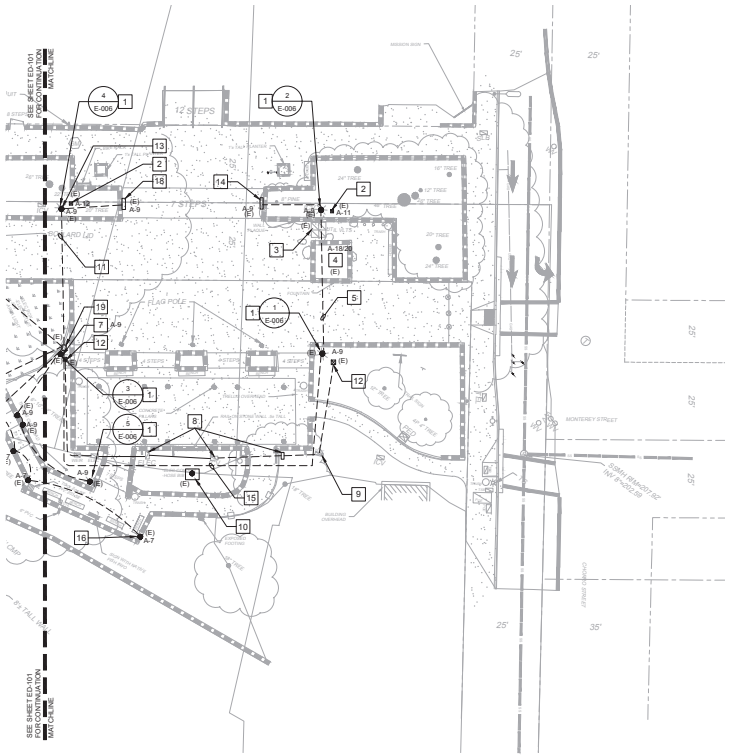
SHEET NO.	ED-101



ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1"=20'

NORTH

REFERENCE NOTES

SHEET ED-102

1. EXISTING POST LIGHT TO BE REPLACE WITH NEW. REFER TO IMAGE FOR REQUIREMENTS.
2. EXISTING RECEPTACLE PEDESTAL TO REMAIN. VERIFY EXACT LOCATION.
3. EXISTING PUMP IS THE SAME CIRCUIT AS THE RECEPTACLE CKT 11.
4. EXISTING FOUNTAIN TO REMAIN.
5. (E)1"BRANCH CIRCUIT CONDUIT PER AS-BUILT.
6. EXISTING OUTLET PEDESTAL TO REMAIN WITH DEDICATED CIRCUIT FROM PANEL "D". VERIFY EXACT LOCATION.
7. ORIGINALLY CIRCUITED TO CIRCUIT A-7. RE-CIRCUIT TO EXISTING LIGHTING CIRCUIT A-9.
8. EXISTING PULL BOXES FROM PANEL "D".
9. (E)METER/PANEL "D".
10. (E)SECURITY CAMERA MOUNTED ON POLE IN THIS LANDSCAPE AREA.
11. EXISTING 1-1/4"C BRANCH CIRCUIT CONDUIT PER AS-BUILT.
12. (E) OUTLET PEDESTAL WITH DEDICATED CIRCUIT FROM PANEL "D".
13. ORIGINALLY CIRCUITED TO CIRCUIT A-12. RE-CIRCUIT TO LIGHTING CIRCUIT A-9.
14. EXISTING STEP LIGHT TO REMAIN. ORIGINALLY CIRCUITED TO A-11. RE-CIRCUIT TO EXISTING LIGHTING CIRCUIT A-9.
15. (E)1-1/2"BRANCH CIRCUIT CONDUIT PER AS-BUILT.
16. EXISTING LIGHT AT STAIRS TO REMAIN. (TYPICAL)
17. EXISTING RECEPTACLE PEDESTAL. VERIFY EXACT LOCATION.
18. EXISTING STEP LIGHT TO REMAIN.
19. EXISTING PULL BOX TO REMAIN.

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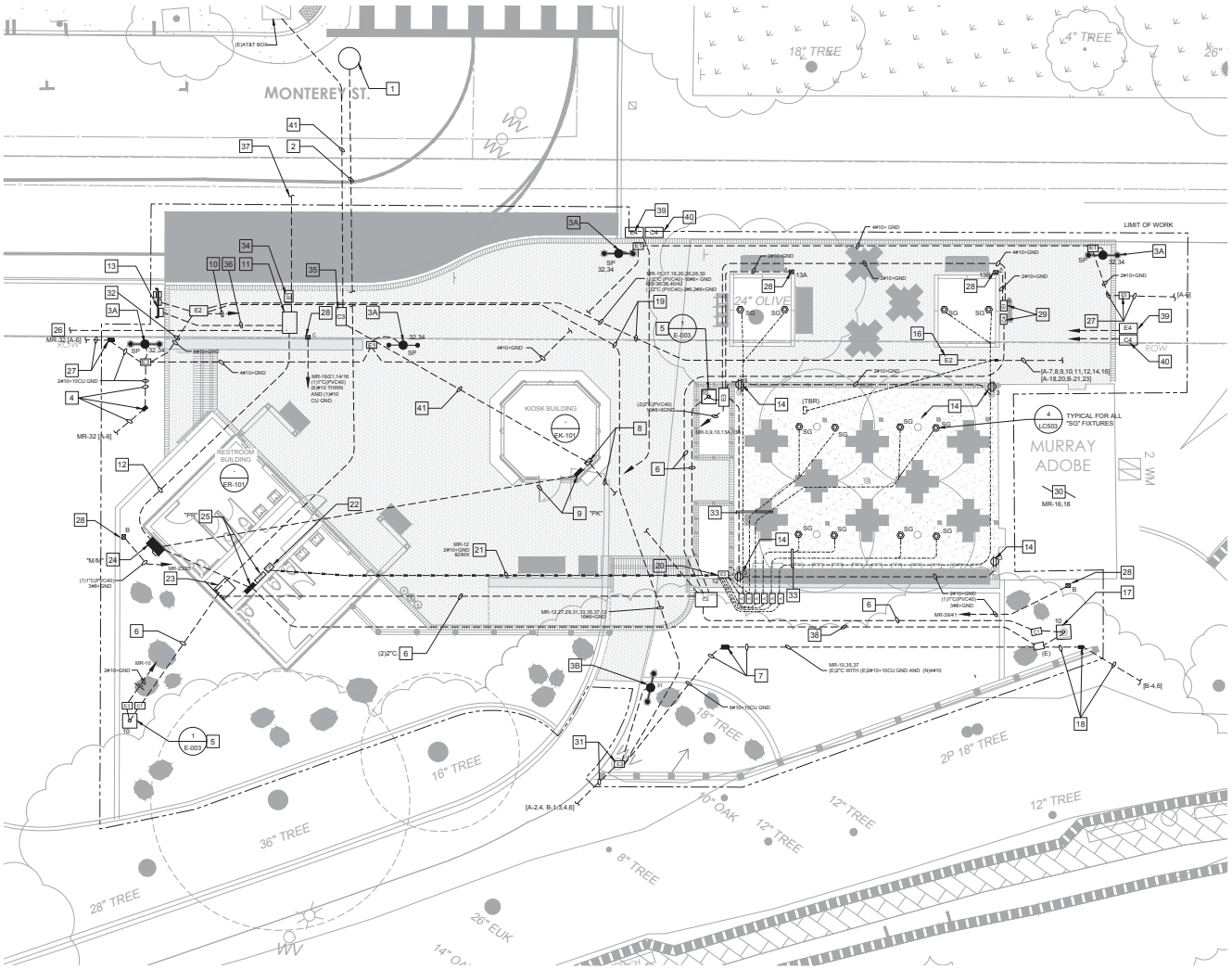
SHEET NO.	ED-102



REFERENCE NOTES

1. EXISTING CITY COMMUNICATION MANHOLE PER CITY STANDARD 9030. FIELD VERIFY EXACT LOCATION.
2. STUB 1-2" FIBER CONDUIT WITH NEW FIBER PER SPECIFICATION AND PULL STRING INTO MANHOLE. INSTALL PER CITY STANDARD 6035.
3. NEW POLE LIGHT WITH NEW 11"X17" PULL BOX. (SEE DETAIL 22/E-005)
   A. PROVIDE SEPARATE CIRCUIT FOR POLE MOUNTED RECEPTACLE.
   B. SHARE CIRCUIT WITH POLE MOUNTED RECEPTACLE.
4. RECONNECT EXISTING POWER AT ART SCULPTURE. REMOVE CONDUCTORS FROM EXISTING POWER AT ART SCULPTURE, INTERCEPT EXISTING BRANCH CIRCUIT CONDUIT AND EXTEND TO NEW PULL BOX AT NEW STREET LIGHT WITH NEW BRANCH CIRCUIT WIRING.
5. NEW 20' GREEN POLE FOR CAMERA BY CITY POLICE. 24" X 24" X 48" DEEP CONCRETE BASE.
6. PROVIDE NEW 2" CONDUIT (UON) TO CAMERA POLE FOR FIBER CABLE PER CITY STANDARD 6035. PROVIDE NEW FIBER CABLE PER SPECIFICATION.
7. INTERCEPT EXISTING 2" BRANCH CIRCUIT CONDUIT AND EXTEND TO NEW PULL BOX ADJACENT TO TEMPORARY POWER.
8. FLUSH MOUNTED TERMINAL CABINET AND 2" FIBER CONDUITS FOR KIOSK. INSTALL CONDUIT PER CITY STANDARD 6035.
9. PANEL AND FEEDER TO KIOSK FROM PANEL "FR".
10. (3)2"C HOME RUN BRANCH CIRCUIT CONDUIT TO PANEL "FR" INTERCEPT AND EXTEND ALL EXISTING BRANCH CIRCUIT WHEN NEW METER SERVICE AND BREAKERS ARE INSTALL IN THE NEW RESTROOM.
11. EXISTING PG&E BOX TO BE REPLACE WITH NEW #3 SECONDARY PULL BOX PER PG&E REQUIREMENTS. PROVIDE PAVER PULL BOX PER WUNDERCOVERS OR APPROVED EQUAL. (ESTIMATE 24"X36" COVER).
12. NEW PG&E 5" SECONDARY SERVICE CONDUIT. TRENCH PER PG&E REQUIREMENTS.
13. PROVIDE 4FT LONG STRUCTURE FOR TEMPORARY 200AMP METER SERVICE (PER PG&E GREEN BOOK 0635374). PROVIDE 200AMP METER/MAIN WITH BYPASS SECTION AND NEW 200AMP, 120/240V SINGLE PHASE, 42 AMP SPACE, NEMA 3R. REFER TO TEMP PANEL SCHEDULE ON SHEET E-006 DETAIL 2/5. RECONNECT ALL SITE BRANCH CIRCUIT AND IRRIGATION CONTROLLER (LOCATED BEHIND BACKBOARD PER IRRIGATION PLANS). PROVIDE LIGHTING RELAY CABINET WITH PHOTOCELL WITH 2-HOUR BY-PASS SWITCH TO TURN ON EXTERIOR RECEPTACLES AND EXTERIOR LIGHTS THROUGH PHOTOCELL DURING RESTROOM CONSTRUCTION. FURNISHED ALL RELAY/CONTACTOR FOR A COMPLETE WORKING SYSTEM. NOTE: CONTRACTOR MUST PROVIDE TEMPORARY POWER FIRST FOR EXISTING LIGHTS AND LIGHTS TO REMAIN BEFORE DEMOLITION OF EXISTING RESTROOM.
14. ADD GFCI WET RATED DUPLEX OUTLET WITH LOCKABLE METAL WHILE -IN-USE COVER AT POLE FOR OWNER FURNISHED STRING LIGHTS. CONNECT TO "LCP". REFER TO POLE WITH LANDSCAPE CONSTRUCTION DRAWINGS LC504 DETAIL 4.
15. (E) RECEPTACLE IN THIS AREA. PROVIDE NEW 6" ROUND PULL BOX. SPLICE EXISTING BRANCH CIRCUIT BELOW PULL BOX. PROVIDE PAVER COVER PULL BOX BY WUNDERCOVER OR APPROVED EQUAL. FIELD VERIFY EXACT LOCATION.
16. NEW PULL BOX, FIELD LOCATE EXISTING CONDUITS, INTERCEPT AND EXTEND ALL BRANCH CIRCUIT FROM EXISTING LOCATION TO TEMPORARY PANELBOARD. REFER TO NOTE 22/ED-101.
17. (E) EXISTING 20' CAMERA POLE. PROVIDE NEW WET RATED DUPLEX OUTLET WITH WHILE IN-USE METAL COVER OUTLET IN EXISTING POLE ABOVE EXISTING CAMERA. REFER TO DETAIL 1/E-003 FOR REQUIREMENTS. CONTRACTOR TO INSTALL 1/2" ENT INSIDE POLE FOR BRANCH CIRCUIT WIRING.
18. INTERCEPT (E) EXISTING BRANCH CIRCUIT CONDUIT AS SHOWN ON DEMOLITION SITE PLAN. WE ARE UNSURE HOW THIS IS ROUTED TO EXISTING RESTROOM. INTERCEPT EXISTING BRANCH CIRCUIT AND EXTEND TO EXISTING PULL BOX. EXTEND BRANCH CIRCUIT TO TEMPORARY POWER PANEL WHILE RESTROOM IS BEING INSTALLED.
19. NEW CONDUITS FOR NEW BRANCH CIRCUITS. INTERCEPT EXISTING BRANCH CIRCUIT AT PULL BOX AND EXTEND NEW BRANCH CIRCUIT WIRING TO TEMPORARY PANEL WHILE RESTROOM IS BEING INSTALLED.
20. PULL BOX FOR IN-GRADE POWER AND CONTROL WIRING FOR FIXTURE TYPE "SG".
21. 1"CONDUIT (PVC40) WITH 120V BRANCH CIRCUIT AND 300V DMX CONTROL WIRING CONDUIT FOR FIXTURE TYPE "SG" PER MANUFACTURER REQUIREMENTS. REFER TO DIAGRAM. PROVIDE 120V AND DMX TO EACH POWER SUPPLY. DAISY CHAIN DMX.
22. FIXTURE TYPE "SG" PROGRAMMABLE CONTROLLER. MOUNT ADJACENT TO LIGHT SWITCH.
23. DATA CABINET FOR FIBER TERMINATION.
24. NEW PG&E APPROVED COMMERCIAL RATED 400AMP SERVICE WITH (2)200AMP METER/MAIN ENCLOSURE, "M/M". REFER TO SINGLE LINE DIAGRAM.
25. PANEL BOARD AND LIGHTING CONTROL PANEL AT RESTROOM CHASE.
26. EXISTING PG&E SECONDARY CONDUIT (ASSUMED STREET LIGHT).
27. INTERCEPT EXISTING BRANCH CIRCUIT CONDUIT, PLACE NEW PULL BOX, AND EXTEND NEW BRANCH CIRCUIT TO EXISTING POLE LIGHTS AS SHOWN ON DEMOLITION PLAN. EXTEND TO NEW PULL BOX.
28. LOCKABLE RECEPTACLE PLUG BOX. FIELD VERIFY EXACT LOCATION WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 20/E-005.
29. CONNECT TO NEW ART KIOSK MONITOR. COORDINATE WITH MANUFACTURER FOR INSTALLATION REQUIREMENTS. PROVIDE 120V CONNECTION AND (1)CITY FIBER FROM DATA CABINET IN RESTROOM BUILDING TERMINATE FIBER TO CAT6 CONVERTER AT KIOSK AND TERMINATE CAT6 CABLE PER KIOSK MANUFACTURER REQUIREMENTS.
30. EXISTING BRANCH CIRCUITS IN THE ADOBE ALL HOME RUN TO EXISTING PULL BOX SHOWN ON NOTE 16.
31. PROVIDE NEW PULL BOX TO REPLACE WATER VALVE COVER. INTERCEPT EXISTING BRANCH CIRCUIT TO EXISTING LIGHTS AS SHOWN ON DEMOLITION PLAN AND EXTEND NEW BRANCH CIRCUITS TO TEMPORARY POWER PANEL VIA PULL BOX WHILE NEW RESTROOM IS BEING INSTALLED.
32. PROVIDE NEW BRANCH CIRCUIT SO EXISTING POLE LIGHTS AND THE ART LIGHTS WILL BE IN OPERATION WHEN NEW RESTROOM IS UNDER CONSTRUCTION.
33. 20AWG 8 CONDUCTOR DIRECT BURIAL LEAD CABLE WITH DISCONNECT TO CONNECT FROM DRIVER TO FIXTURE. INSTALL 2"C (PVC 40) UNDER CONCRETE OR PAVERS BUT AT LANDSCAPE AREA CAN BE DIRECT BURIAL. (1) PER FIXTURE.
34. REPLACE EXISTING ELECTRICAL PULL BOX AND RELOCATE TO NEW PAVER AREA. FIELD VERIFY WHAT THE EXISTING BRANCH CIRCUIT IS FEEDING AND INFORM ENGINEER.
35. NEW TELEPHONE BOX PER AT&T REQUIREMENTS. VERIFY EXACT LOCATION WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN.
36. INSTALL 2"C BETWEEN TEMPORARY 200AMP NEMA3R LOAD CENTER AND PG&E SECONDARY PULL BOX. PROVIDE WITH (3)#3/0 THWN AND (1)#6 CU GROUND. COORDINATE WITH PG&E. PG&E WILL SPLICE A SECONDARY PULL BOX.
37. EXISTING SECONDARY CONDUIT TO EXISTING SUB-SURFACE TRANSFORMER T-249 TO REMAIN.
38. INSTALL 2" (PVC 40) SPARE CONDUIT AND STUB TO EXISTING PULL BOX. SPARE CONDUIT WILL BE FOR FUTURE ADOBE RENOVATION.
39. PROVIDE PULL BOX FOR FUTURE POWER CONNECTION. PROVIDE (2)2"CONDUIT [illegible] "ERP" WITH PULL STRINGS.
40. PROVIDE PULL BOX FOR FUTURE SIGNAL CONNECTION. STUB 2"CONDUIT WITH PULL STRING TO RESTROOM BUILDING PLUMBING SHAFT. LABEL CONDUIT STUBS.
41. PROVIDE NEW 2"CONDUIT (PVC 40) WITH PULL STRING PER AT&T REQUIREMENTS BETWEEN EXISTING AT&T VAULT TO KIOSK BUILDING TERMINAL CABINET.

PULL BOX LEGEND

E1	11"X17"X24" PAVER PULL BOX FLUSH IN GRADE. LABEL LID "ELECTRICAL" (WUNDERCOVERS OR EQUAL)
E2	17"X30"X24" PAVER PULL BOX FLUSH IN GRADE. LABEL LID "ELECTRICAL" (WUNDERCOVERS OR EQUAL)
E3	17"X30"X24" CONCRETE PULL BOX FLUSH IN GRADE. LABEL LID "ELECTRICAL"
E4	17"X30"X24" PAVER PULL BOX FLUSH IN GRADE. LABEL LID "ELECTRICAL"
E5	11"X17"X24" CONCRETE PULL BOX FLUSH IN GRADE. LABEL LID "ELECTRICAL"
C1	11"X17"X24" CONCRETE PULL BOX FLUSH IN GRADE. LABEL LID "SIGNAL"
C2	24"X36"X24" CONCRETE PULL BOX FLUSH IN GRADE. LABEL LID "SIGNAL"
C3	17"X30"X24" PAVER PULL BOX FLUSH IN GRADE. LABEL LID "AT&T" (WUNDERCOVERS OR EQUAL)
C4	17"X30"X24" CONCRETE PULL BOX FLUSH IN GRADE. LABEL LID "SIGNAL"
V	16.5"X9.5" X12" IP68 WET-LISTED DIRECT BURIAL VAULT HOUSING FOR REMOTE POWER SUPPLY. (Q-TRAN #Q-VAULT-5 [PLATE COVER OPTION] [RING OPTION]) OR APPROVED EQUAL OPTIONS SELECTED BY LANDSCAPE ARCHITECT.

POWER CUT-OVER SEQUENCE OF OPERATIONS:
ELECTRICAL CONTACT TO CONTACT PG&E INSPECTOR TO ARRANGE A PRE-CONSTRUCTION MEETING (805-546-5247). INSTALL THE TEMP PANEL AND BACKBOARD, INTERCEPT ALL EXISTING BRANCH CIRCUITS, EXTEND TO TEMPORARY PANELBOARD, AND RUN FEEDER CONDUIT TO NEW SECONDARY PULL BOX. COORDINATE WITH PG&E FOR CUT-OVER TO DISCONNECT THE EXISTING SERVICE AT EXISTING RESTROOM AND PG&E TO SPLICE THE NEW CABLES TO POWER THE TEMP PANEL. PROVIDE METHOD OF PROCEDURE (MOP) FOR EXECUTION OF MEANS AND METHODS IMPLEMINTATION FOR CITY/ARCHITECT/ENGINEER TO REVIEW AND APPROVAL PRIOR TO START OF WORK.

NOTE: FIELD VERIFY EXACT LOCATION OF EACH PULL BOXES SHOWN ON PLAN WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN

FIBER OPTIC CONDUIT BEND MUST HAVE A MINIMUM RADIUS OF 36"

ELECTRICAL SITE PLAN

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

NORTH

CITY OF SAN LUIS OBISPO

MISSION PLAZA ENHANCEMENTS

PROJECT TITLE:

ELECTRICAL SITE PLAN

SHEET TITLE:

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. ES-101

THOMA ENGINEERING INC
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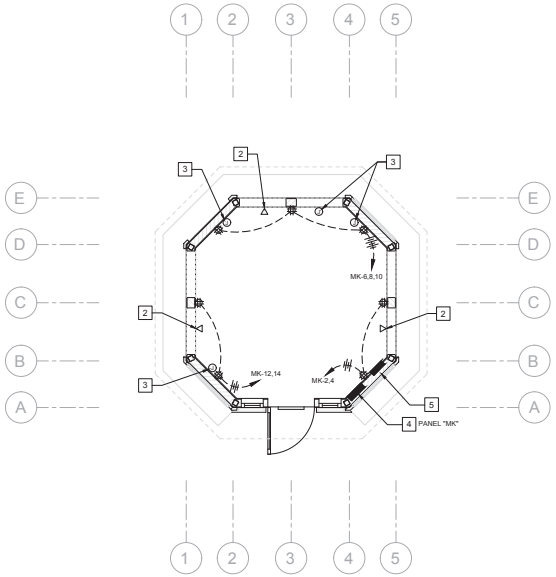
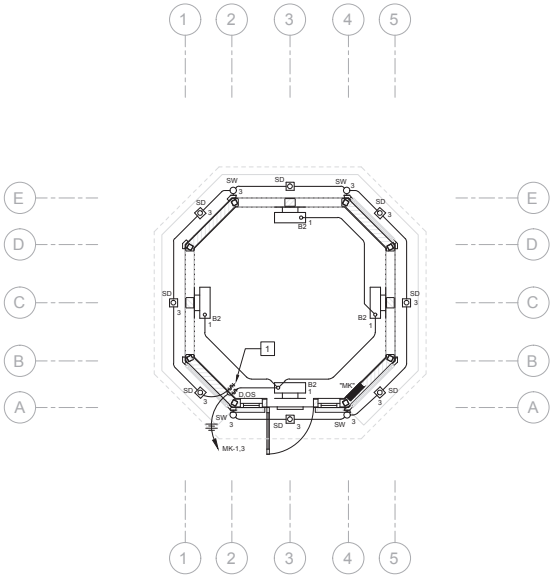


2 KIOSK POWER/SIGNAL PLAN

SCALE: 1/4"=1'0"



1 KIOSK LIGHTING PLAN

SCALE: 1/4"=1'0"

BUS RATING: 100A 120/240V, 1PH, 3W
MAIN: 100A MAIN CIRCUIT BREAKER
SPACES: 30 FULL SIZE PLUG-IN CB SPACES
AIC RATING: 10 KAIC PANEL

(N) LOAD CENTER
MK
CONNECTED VA

FLUSH MOUNT, NEMA 1
LOCATION: KIOSK
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	LOAD NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	LOAD NOTES	DIST (FT)	CKT %VD
			L	1	INTERIOR LIGHTING	20	1	12	360		12	1	20	RECEPTACLES	2	R			
			L	3	EXTERIOR LIGHTING	20	1	12		204	12	1	20	RECEPTACLES	4	R			
				5	SPARE	20	1		360		12	1	20	RECEPTACLES	6	R			
				7	SPARE	20	1			360	12	1	20	RECEPTACLES	8	R			
				9	SPARE	20	1		360		12	1	20	RECEPTACLES	10	R			
				11	SPACE					360	12	1	20	RECEPTACLES	12	R			
				13	SPACE				360		12	1	20	RECEPTACLES	14	R			
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	1478	1284
25%:	8	51
SUB:	0	0
TOT:	1478	1335
AMPS	12	11

LOAD (VA) LOAD TYPE LEGEND

2160	R	RECEPTACLE
234	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

REFERENCE NOTES

1. PROVIDE 24 HOUR PROGRAMMABLE TIMER FOR EXTERIOR LIGHTING CONTROLLERS (LEVITON #021-VPT24-1P2 OR APPROVED EQUAL.)
2. PROVIDE 4S BOX, RING, COVER PLATE AND 3/4" C.O. (EMT)(OVERHEAD TO TERMINAL CABINET FOR FUTURE DATA BY TENANT.
3. PROVIDE 4S BOX, RING, COVER PLATE AND 3/4" C.O. (PVC 40) (U.G.) TO PANEL FOR FUTURE USE.
4. NEW LOAD CENTER PROVIDE PER PANEL SCHEDULE ON THIS SHEET.
5. PROVIDE FLUSH MOUNTED CABINET WITH FOR AT&T AND CITY FIBER, 14"W X 4"D X 18"H.

thoma ENGINEERING
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San Luis Obispo, CA 93406
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Fax: (805) 543-3829
cad@thomaelec.com

CITY OF SAN LUIS OBISPO

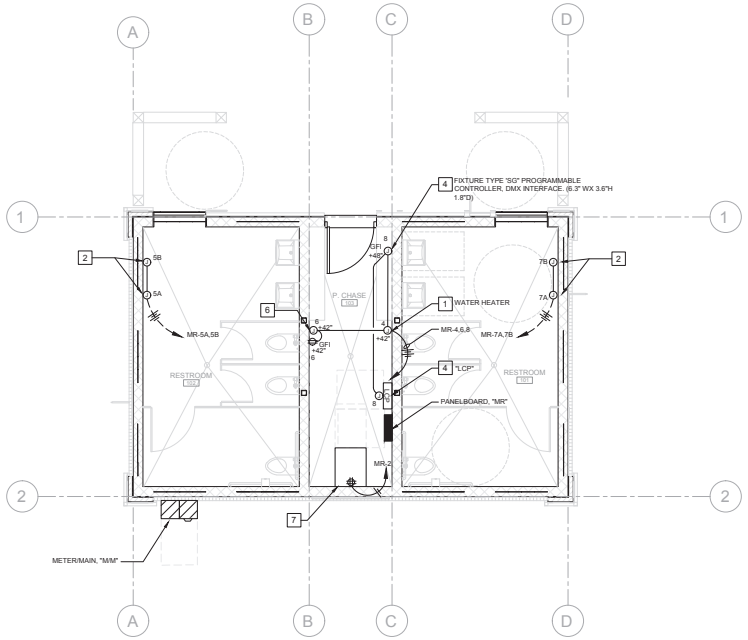
PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ELECTRICAL KIOSK FLOOR PLANS

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

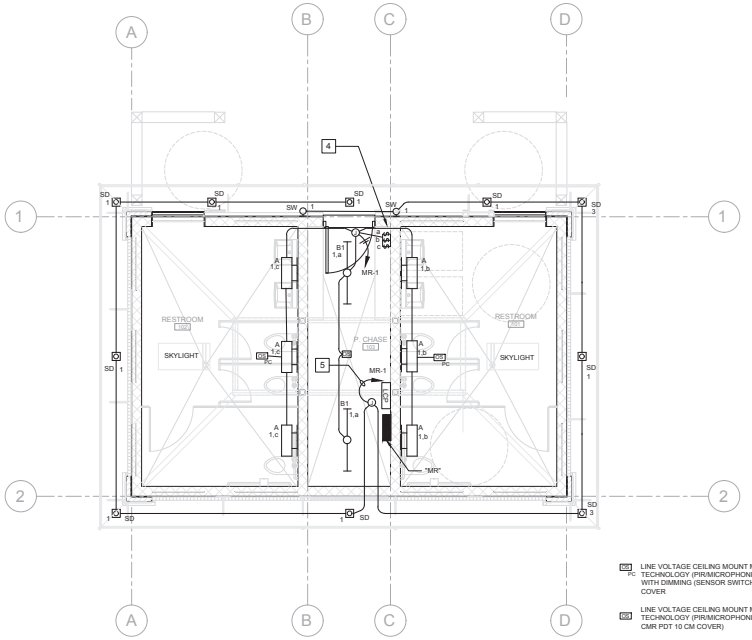
EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. EK-101



2 RESTROOM POWER/SIGNAL PLAN

SCALE: 1/4"=1'0"



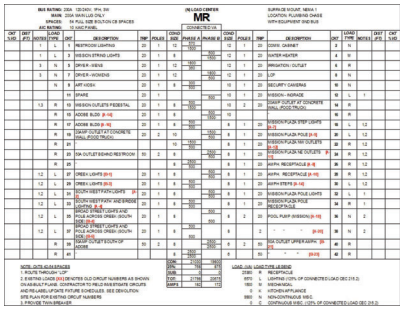
SD/PC LINE VOLTAGE CEILING MOUNT MOTION SENSOR, DUAL TECHNOLOGY (PIR/MICROPHONICS) WITH PHOTOCELL WITH DIMMING (SENSOR SWITCH #CMR PDT 10 ADC CM COVER

SD LINE VOLTAGE CEILING MOUNT MOTION SENSOR, DUAL TECHNOLOGY (PIR/MICROPHONICS) (SENSOR SWITCH CMR PDT 10 CM COVER)

1 RESTROOM LIGHTING PLAN

SCALE: 1/4"=1'0"

NOTE: THE INTERIOR RESTROOM LIGHTS SHALL NOT TURN COMPLETELY OFF. SET OCCUPANCY SENSOR TO DIM DOWN AT 20-50% WHEN SPACE IS UNOCCUPIED.



MR

☐ REFERENCE NOTES

1. CONNECT TO WATER HEATER PER PLUMBING PLANS.
2. CONNECT TO ELECTRIC HAND DRYER VERIFY EXACT LOCATION TO ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
3. CONNECTION TO FIXTURE TYPE SG CONTROLLER.
4. PROVIDE CONNECTION TO LIGHTING CONTROL PANEL ROUTE ALL EXTERIOR LIGHTS AND OUTLETS PER SCHEDULE.
5. ROUTE THROUGH "LCP".
6. CONNECT TO IRRIGATION CONTROL. VERIFY EXACT LOCATION WITH LANDSCAPE CONSTRUCTION PLANS PRIOR TO ROUGH-IN.
7. PROVIDE BLACK FINISH 26U WALL MOUNTED DATA CABINET WITH TEMPERED GLASS DOOR STYLE (CHATSWORTH 48"HX24"WX30"D CUBE-iT CABINET #12419-748 OR APPROVED EQUAL). FURNISH WITH STANDARD FAN AND FILTER KIT (#40972-001), VERTICAL CABLING SECTION (2)1U #40970-711 AND (1)4U #4097-704. REFER TO DETAIL 6/E-003 FOR ADDITIONAL INFORMATION.

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CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ELECTRICAL RESTROOM FLOOR PLANS

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. ER-101

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 5 of 6)
Project Address:		Date Prepared:	10/18/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified		Field Inspector	
			Pass	Fail
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐		
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐		

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-10-18 22:37:21

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 3 of 6)
Project Address:		Date Prepared:	10/18/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required <= 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
RESTROOMS - 101 &102	Restrooms	Auth. Personnel	Exempt*	Occupancy Sensor	Included	Included	No	☐	☐
P CHASE - 103	Electrical Mechanical Telephone Room	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. 13

EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

Plan Sheet Showing Daylit Zones:

RESTROOMS - 101 &102 RESTROOM

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(e) are being used'.

Unconditioned Spaces

01	02	03	04	05	06

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-10-18 22:37:21

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	10/18/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	SAN LUIS OBISPO	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	5	05	Total Unconditioned Floor Area (ft²)	506
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Support Areas					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
	01	02	03	04
My Project Consists of [check all that apply]:	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	0	Area Category Method	506
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	0		506	

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
	Complete Building §140.6(b)1	Area Category §140.6(b)2	Area Category Additional §140.6(c)2(b) (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned						≥			=			
Unconditioned		301.9	0		302	≥	274	0	=	274		COMPLIES

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Indoor Lighting
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 6 of 6)
Project Address:		Date Prepared:	10/18/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: William Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 10.18.2022
Address: 3852 Empleo, Suite C	CEA/ HERS Certification Identification (if applicable): E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: William Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2022-10-18
Address: 3852 Empleo Street, Suite C	License: E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-10-18 22:37:21

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 4 of 6)
Project Address:		Date Prepared:	10/18/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
RESTOOMS	Restrooms	0.65	398	258.7	No	No
ELECTRICAL, MECHANICAL, TELEPHONE ROOMS	Electrical Mechanical Telephone Room	0.4	108	43.2	No	No
			TOTALS:	506	301.9	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-10-18 22:37:21

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - RESTROOM	Report Page:	(Page 2 of 6)
Project Address:		Date Prepared:	10/18/2022

C. COMPLIANCE RESULTS

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	A	No	No	34	Mfr. Spec	6	No	204	☐	☐
B1	B1	No	No	35	Mfr. Spec	2	No	70	☐	☐
						Total Designed Watts: UNCONDITIONED SPACES		274		

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

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

thoma ENGINEERING
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San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

CITY OF SAN LUIS OBISPO

PROJECT TITLE: **MISSION PLAZA ENHANCEMENTS**

SHEET TITLE: **ENERGY COMPLIANCE DOC. - INTERIOR LIGHTING (RESTROOM)**

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY: CJ
DRAWN BY: TR
CHECKED BY: CJ
APPROVED BY: CJ
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO. 91439-01
PLAN FILE NO. / LOCATION 0256-03-CU20
SHEET NO. ET24101

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - KIOSK	Report Page:	(Page 5 of 6)
Project Address:		Date Prepared:	10/18/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-LTI-01-E - Must be submitted for all buildings.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - KIOSK	Report Page:	(Page 3 of 6)
Project Address:		Date Prepared:	10/18/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03 Field Inspector Pass	03 Field Inspector Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)		
Not Required <= 10,000 SF	Whole Building Other	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Sky lit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	12 Field Inspector Fail
KIOSK	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

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

13	
Plan Sheet Showing Daylit Zones:	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment: Area Category	06 Additional Allowance / Adjustment: PAF
UNLEASE TENANT ARE	All Other Space Types	0.4	164	65.6	No	No
		TOTALS:	164	65.6	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - KIOSK	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	10/18/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	SAN LUIS OBISPO	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	5	05	Total Unconditioned Floor Area (ft²)	164
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	01 Conditioned Spaces	02 Conditioned Spaces	03 Conditioned Spaces	04 Unconditioned Spaces	05 Unconditioned Spaces
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System		Area Category Method	0	Area Category Method	164
☐ New Lighting System - Parking Garage					
Total Area of Work (ft²)		0		164	

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts) 01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Additional §140.6(c)2G (+) (See Table J)	04 Tailored §140.6(c)3 (+) (See Table K)	=	05 Total Allowed (Watts)	≥	Adjusted Lighting Power per §140.6(a) (Watts) 06 Total Designed (Watts) (See Table F)	07 Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	08 Total Adjusted (Watts) *Includes Adjustments	Compliance Results 09 05 must be >= 08 §140.6
Conditioned					=		≥			=		
Unconditioned		65.6	0		=	66	≥	28	0	=	28	COMPLIES

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - KIOSK	Report Page:	(Page 6 of 6)
Project Address:		Date Prepared:	10/18/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
William Thoma	
Company:	Signature Date:
Thoma Electric, Inc	10.18.2022
Address:	CEA/HERS Certification Identification (If applicable):
3852 Empleo, Suite C	E10757
City/State/Zip:	Phone:
San Luis Obispo CA 93401	805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
William Thoma	
Company:	Date Signed:
Thoma Electric, Inc.	2022-10-18
Address:	License:
3852 Empleo Street, Suite C	E10757
City/State/Zip:	Phone:
San Luis Obispo CA 93401	805-543-3850

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MISSION PLAZA - KIOSK	Report Page:	(Page 2 of 6)
Project Address:		Date Prepared:	10/18/2022

C. COMPLIANCE RESULTS

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)	

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

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
B	B2	No	No	7	Mfr. Spec	4	No	28	☐	☐
					Total Designed Watts: UNCONDITIONED SPACES			28		

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

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

CITY OF SAN LUIS OBISPO

PROJECT TITLE: MISSION PLAZA ENHANCEMENTS

SHEET TITLE: ENERGY COMPLIANCE DOC. - INTERIOR LIGHTING (KIOSK)

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #20-8170

DESIGNED BY:	CJ
DRAWN BY:	TR
CHECKED BY:	CJ
APPROVED BY:	CJ
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	ET24102

PLUMBING GENERAL NOTES

1. All work shown herein shall comply with the requirements of the following codes:
   - 2019 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (CCR)
   - 2019 California Building Code (CBC): Part 2, Title 24 CCR
   - 2019 California Electrical Code (CEC): Part 3, Title 24 CCR
   - 2019 California Mechanical Code (CMC): Part 4, Title 24 CCR
   - 2019 California Plumbing Code (CPC): Part 5, Title 24 CCR
   - 2019 California Energy Code (CEnC): Part 6, Title 24 CCR
   - 2019 California Fire Code (CFC): Part 9, Title 24 CCR
   - 2019 California Green Building Standards Code (CALGreen): Part 11, Title 24 CCR
2. Contractors are referred to the specifications of the project for more detailed and additional requirements.
3. Furnish all labor, materials, transportation, and perform all required operations to provide a complete and operable system, in accordance with the full intent and meaning of the Drawings, Specifications, and per standard trade practices.
4. The installation of piping and equipment shall be made in such a manner to clear beams and obstructions. Do not cut into or reduce the size of plates or any load carrying members without approval of the Architect. Check drawings and work of others to prevent interference.
5. All plumbing fixtures, fittings and piping shall be "lead-free" per California AB1953 and meet the requirements of ANSI/NSF 61, Section 9.
6. All locations of piping and equipment are shown diagrammatically. Adhere to locations as closely as possible. Vary runs or arrangement of piping as required to meet structural and other interferences or as required by Architect.
7. Pipe sizes shown on drawings shall be installed as shown. Branch line sizes to fixtures when not indicated shall be per minimum branch line size as indicated on fixture schedule. Equipment and appliance supply piping shall be as indicated on drawings. Contractor shall verify size of equipment or appliance connection and provide reducing fittings to suit.
8. No product will be accepted on the job site without prior approval by the Architect. The Contractor shall submit catalog sheets of all plumbing equipment.
9. All piping materials are to be stored and capped in a clean dry location. All piping installed shall be capped at the end of each work day to prevent dust, dirt or foreign material entering the pipe from the time of rough-in installation until the final connection of the piping to fixtures or equipment.
10. Rough-in and/or install plumbing fixtures at heights indicated on plans, or as directed by Architect. If a conflict in fixture location is noted on the drawings, the architectural drawings shall take precedence.

SERVICE WATER HEATING STANDARDS AND CODE MEASURES

Service Water Heating Systems

1. Service water heating systems and equipment may be installed only if the manufacturer has certified that the system or equipment complies with all the requirements of section 110.3 of the CEnC.
2. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 51 of the ASHRAE Handbook, HVAC Applications Volume.
3. All hot water piping shall be insulated in accordance with CEnC section 120.3. (See: Table 120.3-A, For Ref)

WATER HEATER SCHEDULE

MARK	MAKE	MODEL	STORAGE CAPACITY (GALLONS)	DIMENSIONS	FULL WEIGHT (POUNDS)	INLET/ OUTLET (INCHES)	POWER VOLTS	PH	CY	KW (WATTS)	MBTUH	BRANCH SIZE (INCHES)	FLUE SIZE (INCHES)	REMARKS
WH-1	A.O. SMITH	DEL-15	15	26"x18"ø	183	3/4"	120	1	60	1.5	–	–	–	

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MIN. BRANCH SIZE (") W	V	CW	HW	MAKE AND MODEL	FITTINGS	REMARKS
DF-1	ADA DRINKING FOUNTAIN FREE STANDING W/BOTTLE FILLRER	2	1-1/2	1/2	–	MOST DEPENDABLE FOUNTAIN #10140SMSS, 65" TALL, COLOR=BLUE	PROVIDE WITH 10"SS SURFACE CARIER	INSTALL PER ADA REQUIREMENT REFER TO LANDSCAPE PLANS FOR LOCATION
FD-1	FLOOR DRAIN W/ ROUND STRAINER & TRAP PRIMER	2	1-1/2	1/2	–	ZURN #Z415BZ1-2NH-VP-P 5"ø, CAST IRON W/ BRONZE STRAINER	ZURN #Z1022-XL LEAD FREE SANI-GUARD AUTOMATIC TRAP PRIMER	
FS-1	FLOOR SINK W/HALF GRATE & TRAP PRIMER	3	2	–	–	ZURN #Z1901-3NH-2-15, 12"x12"x6" ENAMELED CAST IRON	ZURN #Z1022-XL LEAD FREE SANI-GUARD AUTOMATIC TRAP PRIMER	INSTALL WITH SOLID LOOSE COVER, PROVIDE 1/2 GRATE TO OWNER FOR FUTURE INSTALLATION DURING TI
FS-2	FLOOR SINK W/HALF GRATE & TRAP PRIMER	2	1-1/2	–	–	ZURN #Z1900-2NH-2-15, 12"x12"x6" ENAMELED CAST IRON	ZURN #Z1022-XL LEAD FREE SANI-GUARD AUTOMATIC TRAP PRIMER	INSTALL WITH SOLID LOOSE COVER, PROVIDE 1/2 GRATE TO OWNER FOR FUTURE INSTALLATION DURING TI
GT-1	GREASE TRAP FLOOR MOUNT 35 GPM	3	2	–	–	CANPLAS #3935A03, 31"x23.5"x17" TALL, GREY THERMOPLASTIC	PROVIDED WITH 35 GPM FLOW CONTROL FITTING	SEE DETAIL A/P2.0
HB-1	HOSE BIBB RECESSED W/ VACUUM BREAKER	–	–	3/4	–	ACORN #8104-SSLF, CAST ALUMINUM W/STAINLESS VALVE	PROVIDE W/LOOSE TEE KEY	
HB-2	HOSE BIBB RECESSED W/ VACUUM BREAKER	–	–	3/4	–	ACORN #8151-SSLF, STAINLESS STEEL	PROVIDE WITH LOCKABLE COVER	
L-1	ADA LAVATORY WALL MOUNT 0.50 GPM, 0.16 GPC HARDWIRED SENSOR	2	1-1/2	1/2	–	ACORN "DURA-WARE" 1953LC-1-DMS-9-H34-GE-EE, 20"x22", 304 STAINLESS STEEL	CHICAGO #116.706.AB.1 W/GRID STRAINER, STOPS, SUPPLIES, C.P. BRASS "P" TRAP,	INSTALL PER ADA REQUIREMENTS SEE NOTE #2
JS-1	SERVICE SINK WALL MOUNTED W/VACUUM BREAKER	3	2	3/4	3/4	ZURN Z5900-IP3, 24"X20", ENAMELED CAST IRON	ZURN FAUCET #Z843M1-XL-CS,	
WC-1	ADA WATER CLOSET WALL MOUNTED ELONGATED, 1.28 GPF HARDWIRED SENSOR	4	2	1-1/4	–	ACORN "DURA-WARE" 2105-T-1-1.28-FVBO-CN-ADA 29"x14", 304 STAINLESS STEEL	SENSOR FLUSH VALVE: ZURN #ZEMS6152AV-HET ZURN CARRIER Z1202-1N-4	PROVIDE CARRIER WITH REAR ANCHOR SUPPORT SEE NOTE #1
WC-2	WATER CLOSET WALL MOUNTED ELONGATED, 1.28 GPF HARDWIRED SENSOR	4	2	1-1/4	–	ACORN "DURA-WARE" 2105-T-1-1.28-FVBO-CN-ADA 29"x14", 304 STAINLESS STEEL	SENSOR FLUSH VALVE: ZURN #ZEMS6152AV-HET ZURN CARRIER Z1202-1N-4 OR Z1202-1N-4	INSTALL PER ADA REQUIREMENTS PROVIDE CARRIER WITH REAR ANCHOR SUPPORT SEE NOTE #1

NOTES:
1. PROVIDE WITH 1 ZURN HARDWIRED POWER CONVERTER -HW6 (SERVES UP TO 8 FIXTURES). LOW VOLTAGE WIRING TO BE INSTALLED IN CONDUIT.
2. PROVIDE WITH 1 CHICAGO HARDWIRED POWER TRANSFORMER 243.259.00.1(SERVES UP TO 8 FIXTURES). LOW VOLTAGE WIRING TO BE INSTALLED IN CONDUIT.

UTILITY SIZING

DOMESTIC WATER SERVICE – 989 BROAD ST

TOTAL WSFU	FT/FV	GPM	PIPE SIZE	METER SIZE	STREET PSI	REGULATED PSI	PSI/100' FRICTION
40	FV	47	2"	1-1/2	55	N/A	8

MAXIMUM FIXTURE UNITS ALLOWED

PIPE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
HOT WATER (5 FPS MAX.)	2"	7	17	28	47	115	–	–
COLD WATER (8 FPS MAX.)	3	11	25	55	96	249	459	692
FLUSH VALVES (8 FPS MAX.)	–	–	–	14	31	127	317	631

Piping sized per 2019 California Plumbing Code

SEWER – 989 BROAD ST

TOTAL DFU	PIPE SIZE	BUILDING DRAIN SLOPE	BUILDING SEWER SLOPE
29	4"	2%	SEE CIVIL

Piping sized per 2019 California Plumbing Code

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		GATE VALVE
		BALL VALVE
	TPV	TRAP PRIMER VALVE
		VALVE IN RISER
	YB	SOV IN YARD BOX
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
WCO	WCO	WALL CLEANOUT
		PIPE UP
		PIPE DOWN
		PIPE CONNECTION
		CAPPED/PLUGGED PIPE
		FLOOR DRAIN
	S/W	SOIL OR WASTE BELOW GRADE
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
TP	TP	TRAP PRIMER LINE

PLUMBING ABBREVIATIONS

ABV	ABOVE	IE	INVERT ELEVA
ADA	AMERICAN DISABILITIES ACT	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AG	ABOVE GRADE	LBS	POUNDS
AMP	AMPERAGE	MAX	MAXIMUM
ARCH	ARCHITECT	MBTUH	BTU PER HOUI
BEL	BELOW	MECH	MECHANICAL
BFP	BACKFLOW PREVENTOR	MFR	MANUFACTURE
BLDG	BUILDING	MIN	MINIMUM
CFH	CUBIC FOOT PER HOUR	(N)	NEW
CI	CAST IRON	NPS	NOMINAL PIPE
℄	CENTER LINE	NTS	NOT TO SCALE
CONN	CONNECTION	PH	PHASE
CONT	CONTINUE(D)	PP	POLYPROPYLE
CP	CHROME PLATED	PSI	POUNDS PER
CPVC	CHLORINATED POLYVINYL CHLORIDE	RM	ROOM
CY	CYCLES	RPM	REVOLUTIONS
DFU	DRAINAGE FIXTURE UNITS	RWL	RAIN WATER LEADER
DN	DOWN	RWO	RAIN WATER OVERFLOW
(E)	EXISTING	SOV	SHUT-OFF VALVE
ELEC	ELECTRICAL	TW	TEMPERED WATER
EQPT	EQUIPMENT	TYP	TYPICAL
FLR	FLOOR	UON	UNLESS OTHERWISE NOTED
FR	FROM	V	VENT
FT	FLUSH TANK	VAC	VACUUM
FV	FLUSH VALVE	VTR	VENT THRU ROOF
GA	GAGE OR GAUGE	W	WASTE
GALV	GALVANIZED	W/	WITH
GPC	GALLONS PER CYCLE	W/O	WITHOUT
GPF	GALLONS PER FLUSH	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WSFU	WATER SUPPLY FIXTURE UNIT
HP	HORSEPOWER	WT	WEIGHT

PROJECT TEAM LIST

MANAGING PRINCIPAL	Brandon Rodgers	(805) 548-1443	brandonr@bmaslo.com
PROJECT MANAGER	Chris Schellhase	(805) 548-1446	chriss@bmaslo.com
PLUMBING DESIGNER	Chris Schellhase	(805) 548-1446	chriss@bmaslo.com

MISSION PLAZA ENHANCEMENTS

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & KIOSK CONSTRUCTION DOCUMENTS

PROJECT TITLE:

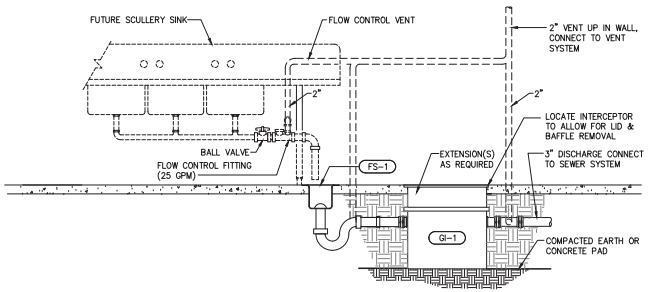
PLUMBING NOTES, SCHEDULES, LEGEND & ABBREVIATIONS

SHEET TITLE:

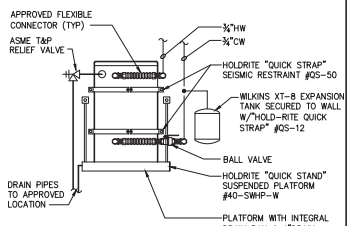
100% CONSTRUCTION DOCUMENTS

BMA Mechanical +
689 Tank Farm Rd., Ste 240
SLO, CA 93405
OFF: (805) 544-4269
BMA JOB# 22.051.00

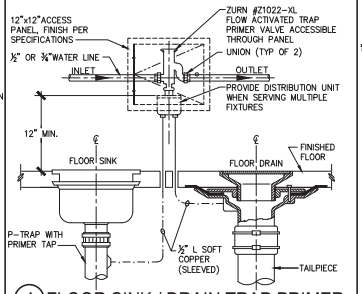
DESIGNED BY: CS
DRAWN BY: ITM
CHECKED BY: CS
APPROVED BY: CS
SCALE: AS NOTED
DATE: 05.14.2024
CITY SPECIFICATION NO.: 91439-01
PLAN FILE NO. / LOCATION: 0256-03-CU20
SHEET NO.: P1.0



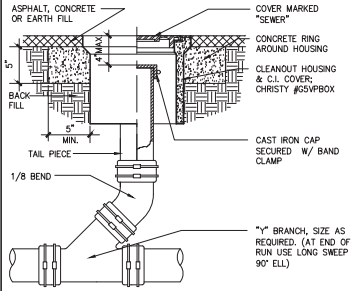
A GREASE INTERCEPTOR



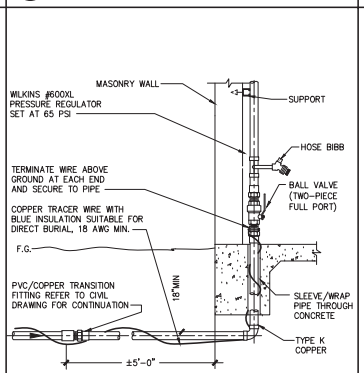
7 WH-1



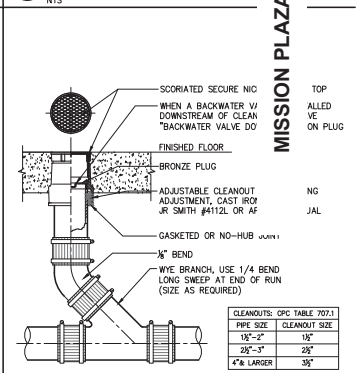
4 FLOOR SINK / DRAIN TRAP PRIMER



1 CLEANOUT TO GRADE

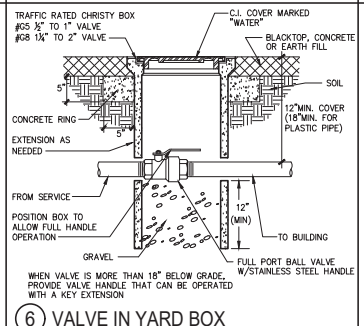


5 BUILDING WATER SUPPLY
NTS

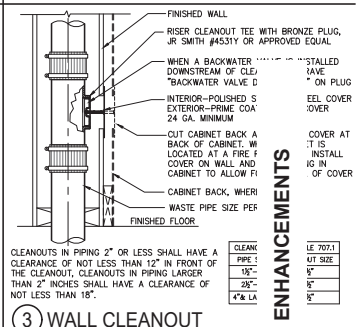


CLEANOUTS: CPC TABLE 707.1	
PIPE SIZE	CLEANOUT SIZE
1¼"–2"	1½"
2½"–3"	2½"
4"& LARGER	3½"

2 FLOOR CLEANOUT



6 VALVE IN YARD BOX



CLEANO	
PIPE	
1½"–	
2½"–	
4"& LA	

3 WALL CLEANOUT
NTS

MISSION PLAZA ENHANCEMENTS

9

8

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & KIOSK
CONSTRUCTION DOCUMENTS

PLUMBING DETAILS

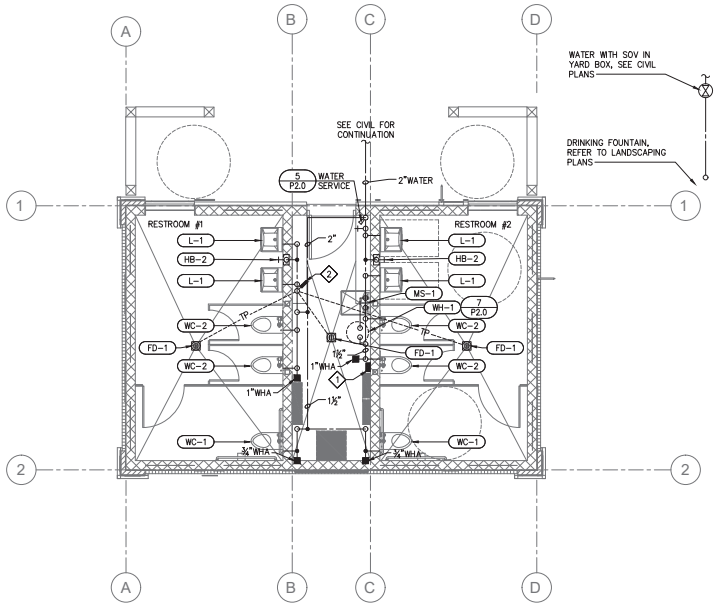
PROJECT TITLE:

SHEET TITLE:

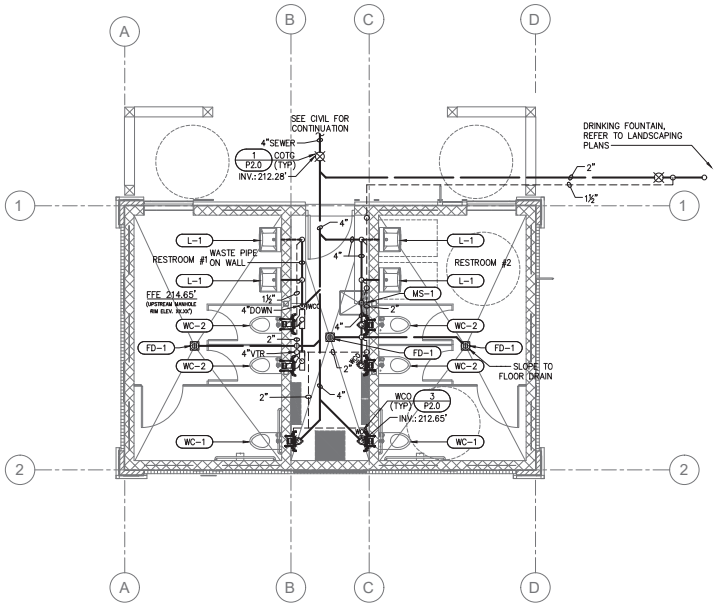
100% CONSTRUCTION DOCUMENTS

BMA Mechanical +
689 Tank Farm Rd., Ste 240
SLO, CA 93405
OFF: (805) 544-4269
BMA JOB# 22203.00

DESIGNED BY:	CS
DRAWN BY:	ITM
CHECKED BY:	CS
APPROVED BY:	CS
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	P2.0



HOT & COLD WATER



WASTE & VENT

MISSION PLAZA ENHANCEMENTS

PLUMBING FLOOR PLANS (RESTROOMS) - WASTE & WATER

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

REFERENCE NOTES

1. 24v transformers for water closets and lavatories. Install low voltage wiring in conduit.
2. Flow activated trap primer, see detail 4/P2.0.

GENERAL NOTES

1. See plumbing fixture schedule for pipe branch size to individual fixtures.
2. Install all waste piping with a minimum 2% slope unless otherwise noted.

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & KIOSK CONSTRUCTION DOCUMENTS

PROJECT TITLE:

PLUMBING FLOOR PLANS (RESTROOMS) WASTE & WATER

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

BMA Mechanical +
689 Tank Farm Rd., Ste 240
SLO, CA 93405
OFF: (805) 544-4269
BMA JOB# 22203.00

DESIGNED BY:	CS
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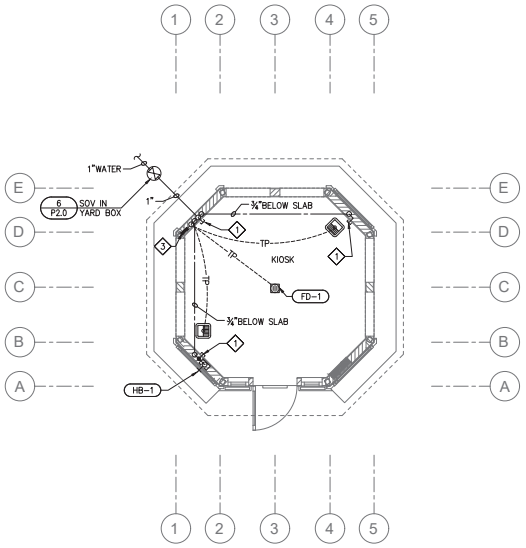
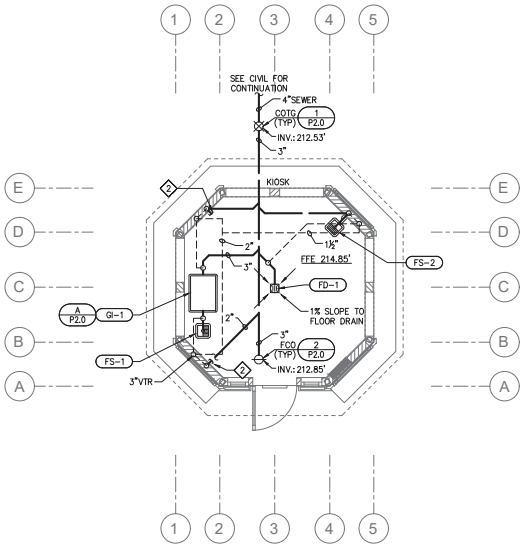
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	P3.0



COLD WATER



WASTE & VENT

MISSION PLAZA ENHANCEMENTS

PLUMBING FLOOR PLANS (KIOSK) - WASTE & WATER

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

REFERENCE NOTES

1. Rough-in ¾" water for future sink. Provide with angle stop and cap.
2. Rough-in 2" waste & 1½" vent for future sink.
3. Flow activated trap primer, see detail 4/P2.0.

GENERAL NOTES

1. See plumbing fixture schedule for pipe branch size to individual fixtures.
2. Install all waste piping with a minimum 2% slope unless otherwise noted.

CITY OF SAN LUIS OBISPO

MISSION PLAZA RESTROOM & KIOSK
CONSTRUCTION DOCUMENTS

PROJECT TITLE:

PLUMBING FLOOR PLANS
(KIOSK) WASTE & WATER

SHEET TITLE:

100% CONSTRUCTION DOCUMENTS

BMA Mechanical +
689 Tank Farm Rd., Ste 240
SLO, CA 93405
OFF: (805) 544-4269
BMA JOB# 22203.00

DESIGNED BY:	CS
DRAWN BY:	ITM
CHECKED BY:	CS
APPROVED BY:	CS
SCALE:	AS NOTED
DATE:	05.14.2024
CITY SPECIFICATION NO.	91439-01
PLAN FILE NO. / LOCATION	0256-03-CU20
SHEET NO.	P3.1