CLOVERDALE REGIONAL LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD., CLOVERDALE, CA 95425
APN 001-141-010

BISBEE ARCHITECTURE+DESIGN

Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

REVIEWED FOR CODE COMPLIANCE BY COASTLAND CIVIL ENGINEERING, INC. IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

Digitally signed by Betty Li
Date: 2024.11.27 15:31:58 -08'00'

CCE: Permit B-23-177 for the Auto Entry Door was not permitted or finaled and must be completed prior to this permit final. See Sheet A-002.

PROJECT NOTES

1. CONTRACTOR SHALL VERIFY (E) CONDITIONS PRIOR TO COMMENCING WORK.

2. THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR TESTING, DISPOSAL, AND CONSTRUCTION DEBRIS MANAGEMENT AND DOCUMENTATION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE BAY AREA AIR QUALITY NOTIFICATION, REPORTING AND PERMITTING OF THE HAZARDOUS MATERIALS MITIGATION WORK.

4. THESE DOCUMENTS HAVE BEEN PREPARED WITH INFORMATION PROVIDED BY THE OWNER. THE OWNER IS SOLELY RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AS THE BASIS OF THE WORK.

5. THE MATERIALS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL COMPLY WITH ALL APPLICABLE INDUSTRY AND PRODUCT MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS FOR STORAGE, INSTALLATION, MAINTENANCE AND PERFORMANCE.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT MATERIALS AND SYSTEMS ARE PROVIDED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND JURISDICTIONAL REQUIREMENTS.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS FOR SITE GRADING, FOUNDATION SUPPORT, UTILITY TRENCHING, DRAINAGE, SITE DRAINS, AND ANY OTHER SITE IMPROVEMENTS, S.L.D., INCLUDING APPROVED SITE MATERIAL DISPOSAL AND IMPORT.

8. OTHER THAN THE ARCHITECTURAL SHEETS, THE DRAWINGS CONTAINED HEREIN HAVE BEEN PREPARED BY OTHERS. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE WORK OF OTHERS.

9. DRAWING DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. DO NOT SCALE DRAWINGS.

10. CALGREEN VERIFICATION SHALL BE PROVIDED BY AN OWNER'S CONSULTANT FROM THE APPROVED GREEN BUILDING SPECIALIST LIST.

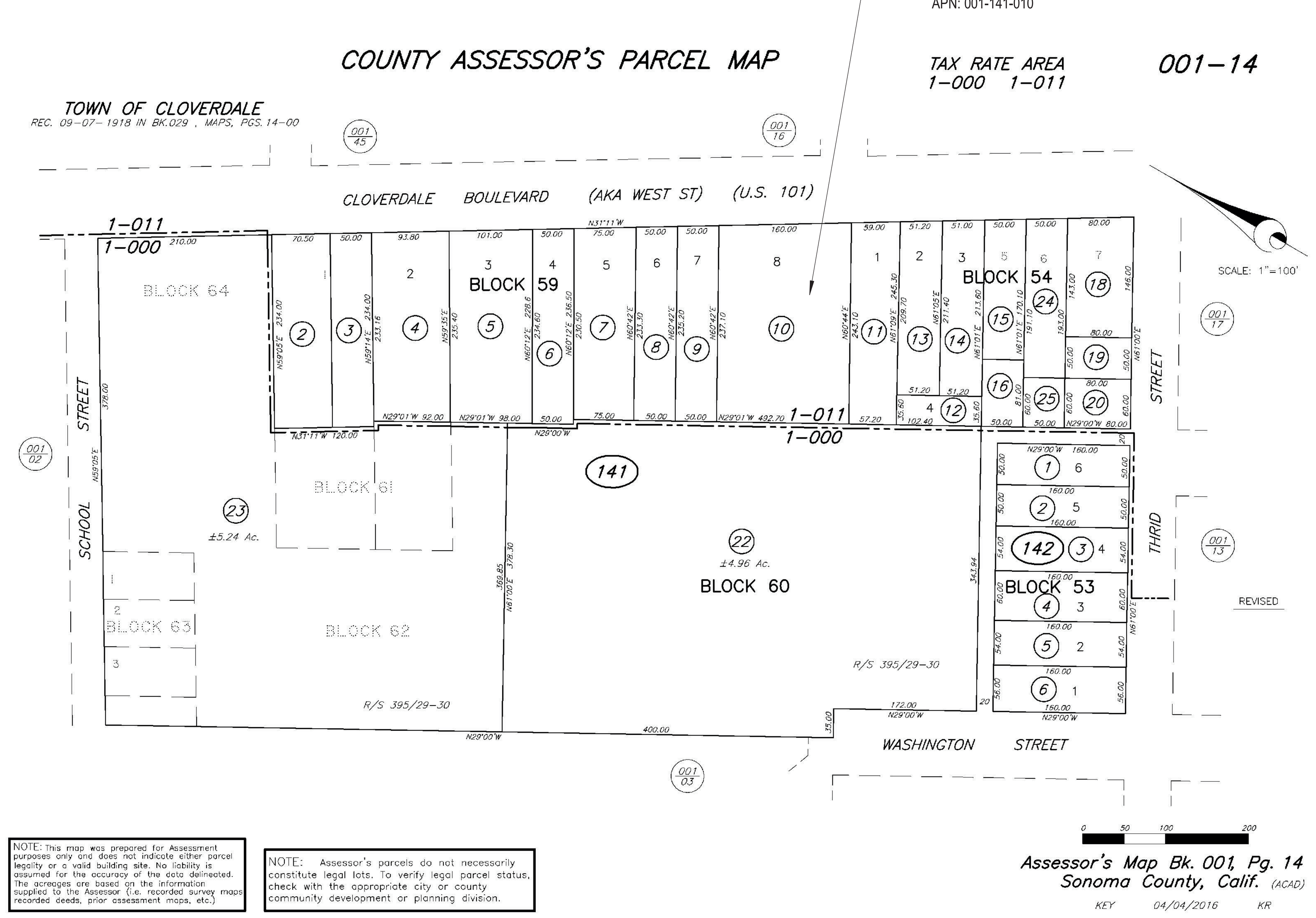
11. CBC 11B-202.4 PATH OF TRAVEL REQUIREMENTS IN ALTERATIONS APPLIES TO THE PROJECT. RESTROOMS, DRINKING FOUNTAINS, AND DOORWAYS AND SIGNAGE SERVING THE AREA OF WORK ARE TO BE IMPROVED, SEE PLANS. PLEASE REVIEW CITY OF CLOVERDALE HARDSHIP FORM SUBMITTED WITH THIS DRAWING PACKAGE. NOTE: EXISTING PARKING AREAS AND MAIN ENTRY HAVE BEEN ALTERED RECENTLY UNDER SEPARATE PERMIT, BY OTHERS.

12. THE EXISTING BUILDING DOES NOT INCLUDE AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM. PER CFC SEC 903, INSTALLATION OF FIRE SPRINKLERS IS NOT REQUIRED. FIRE ALARM SYSTEM CHANGES TO THE AREA OF WORK ARE REQUIRED. FIRE ALARM LAYOUT PLANS, CALCULATIONS, AND PRODUCT DATA SHALL BE DESIGNED AND PERMITTED UNDER SEPARATE SUBMITTAL TO THE CITY SUBMITTAL BY THE CONTRACTOR. INFORMATIONAL SUBMITTAL FOR THE FIRE ALARM DESIGN TO THE ARCHITECT IS REQUIRED.

ABBREVIATIONS

&	AND
<	ANGLE
@	AT
℄	CENTERLINE
Ø	DIAMETER
FL	FLOOR LINE
PL	PROPERTY LINE
#	POUND OR NUMBER
A.B.	ANCHOR BOLT
A.C.P.	ASPHALT CONCRETE PAVING
A/C	AIR CONDITIONING
ACOUS.	ACOUSTIC
AC.T.	ACOUSTICAL TILE
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AGG.	AGGREGATE
AL.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
ASPH.	ASPHALT
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BENCH MARK or BEAM
BOT.	BOTTOM
BRG.	BEARING
BRK.	BRICK
BRZ.	BRONZE
BTWN.	BETWEEN
B.U.R.	BUILT-UP ROOFING
CAB.	CABINET
CARP.	CARPET
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
CER.T.	CERAMIC TILE
C.I.	CAST IRON
CIR.	CIRCLE
C.J.	CONSTRUCTION JOINT
CLG.	CEILING
CLG.J.	CEILING JOIST
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
CLS.	CLOSURE
C.M.U.	CONCRETE MASONRY UNIT
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
COMB.	COMBINATION
COMP.	COMPOSITION
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONV.O.	CONVECTION OVEN
CTR.	CENTER
C.W.	COLD WATER
DET.	DETAIL
DF.	DOUGLAS FIR
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPOSAL
DIV.	DIVISION
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
D.S.	DOWN SPOUT
D.T.	DRAIN TILE
D.W.	DISHWASHER
DWR.	DRAWER
(E)	EXISTING
E.	EAST
EA.	EACH
E.E.	EACH END
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
E.N.	EDGE NAIL
ENCL.	ENCLOSURE
EQUIV.	EQUIVALENT
E.S.	EACH SIDE
E.W.	EACH WAY
EXP.	EXPANSION
EXP.B.	EXPANSION BOLT
EXPO.	EXPOSURE
EXT.	EXTERIOR
F.	FACE
F.A.	FIRE ALARM
F.B.	FACE BRICK
F.BD.	FIREBOARD
F.BELL	FIRE BELL
F.B.O.	FURNISHED BY OTHERS
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FGL.	FIBERGLASS
F.H.	FIRE HYDRANT
FH.M.S.	FLAT HEAD MACHINE SCREW
F.HORN	FIRE HORN
F.H.S.	FIRE HOSE STATION
FH.W.S.	FLAT HEAD WOOD SCREW
FIN.	FINISH
FIXT.	FIXTURE
F.J.	FLOOR JOIST
F.L.	FLOOR LINE
FLASH.	FLASHING
FLR.	FLOOR
F.N.	FACE NAIL
F.O.B.	FACE OF BUILDING
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.R.	FIRE RETARDANT
FTG.	FOOTING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.D.	GARBAGE DISPOSAL
G.E.	GRATE ELEVATION
G.I.	GALVANIZED IRON
GL.	GLASS
GLB.	GLUE LAMINATED BEAM
GND.	GROUND
GR.	GRADE
G.S.M.	GALVANIZED SHEET METAL
GYP.BD.	GYPSUM BOARD
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDR.	HEADER
HDWD.	HARDWOOD
HDWE.	HARDWARE
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
H.S.S.	HOLLOW STRUC. STL.
HTG.	HEATING
H.V.A.C.	HEATING, VENTILATION & AIR CONDITIONING
H.W.	HOT WATER
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
J.H.	JOIST HANGER
JST.	JOIST
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
L.B.	LAG BOLT
L.H.	LEFT HAND
L.L.	LIVE LOAD
L.P.	LOW POINT
LT.	LIGHT
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MFG.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MOD.	MODULAR
M.R.	MOISTURE RESISTANT
M.T.	METAL THRESHOLD
MTL.	METAL
(N)	NEW
N.	NORTH
NAT.	NATURAL
N.I.C.	NOT IN CONTRACT (NOT PART OF OSA APPROVAL)
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OVERFLOW
OFF.	OFFICE
O.F.S.	OUTSIDE FACE OF STUD
O.H.W.S.	OVAL HEAD WOOD SCREW
OPP.	OPPOSITE
P.	PAINT
P.C.F.	POUNDS PER CUBIC FOOT
P.E.N.	PANEL EDGE NAILING
PERF.	PERFORATED
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
P.L.F.	POUNDS PER LINEAR FOOT
PLYWD.	PLYWOOD
P.M.F.	PRESSED METAL FRAME
PR.	PAIR
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.STA.	PULL STATION
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PTN.	PARTITION
P.T.R.	PAPER TOWEL RECEPTACLE
P.V.C.	POLYVINYL-CHLORIDE
Q.T.	QUARRY TILE
RAD.	RADIUS
R.B.	RUBBER BASE
R.C.P.	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
RDWD.	REDWOOD
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCING
RESIL.	RESILIENT
R.H.	ROOF HATCH
RH.M.S.	ROUND HEAD METAL SCREW
RH.W.S.	ROUND HEAD WOOD SCREW
RM.	ROOM
R.O.	ROUGH OPENING
R.W.L.	RAIN WATER LEADER
S.	SOUTH
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.A.F.F.	SELF ADHERED FLEXIBLE FLASHING
S.A.S.M.	SELF ADHERED SHEET MEMBRANE
S.BLKG.	SOLID BLOCKING
S.C.	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
S.D.	STORM DRAIN
S.DISP.	SOAP DISPENSER
SEAL.	SEALANT
SECT.	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SHR.	SHOWER
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
SL.	SLIDING
S.L.D.	SEE LANDSCAPE DRAWINGS
S.M.D.	SEE MECHANICAL DRAWINGS
S.P.	SOUNDPROOF
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ. FT.	SQUARE FOOT (FEET)
S.S.	SANITARY SEWER
S.S.D.	SEE STRUCTURAL DRAWINGS
STA.	STATION
STD.	STANDARD
STL.	STEEL
S. STL.	STAINLESS STEEL
STO.	STORAGE
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
T.B.	TACKBOARD
T&BOT.	TOP AND BOTTOM
TEL.	TELEPHONE
TEMP.	TEMPERED
TER.	TERRAZZO
T&G.	TONGUE AND GROOVE
THK.	THICK
T.J.	TOOL JOINT
T.N.	TOE NAIL
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PAVEMENT
T.O.PL.	TOP OF PLATE
T.O.W.	TOP OF WALL
T.P.D.	TOILET PAPER DISPENSER
TRN.	TRANSOM
T.S.	TUBE STEEL
T.V.	TELEVISION
TYP.	TYPICAL
UNF.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.G.	VERTICAL GRAIN
V.I.F.	VERIFY IN FIELD
V.T.	VINYL TILE
V.T.R.	VENT TO ROOF
V.W.C.	VINYL WALL COVERING
W.	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.F.	WASH FOUNTAIN
W.H	WATER HEATER
W/O	WITHOUT
W.P.	WATER PROOF
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
YD.	YARD
O.F.O.I.	OWNER FURNISH OWNER INSTALL
O.F.C.I.	OWNER FURNISH CONTRACTOR INSTALL
C.F.C.I.	CONTRACTOR FURNISH CONTRACTOR INSTALL
C.F.O.I.	CONTRACTOR FURNISH OWNER INSTALL

ASSESSOR'S PARCEL MAP NTS



SYMBOLS (WHERE USED)

- GRID LINE INDICATION — FACE OF / TOP OF; CENTER OF
- ROOM IDENTIFICATION — ROOM NAME; ROOM NUMBER (ROOM 01)
- ELEVATION — ELEVATION VIEW NUMBER; ELEVATION SHEET (A4.1)
- SECTION — SECTION NUMBER; SECTION SHEET (1 / A4.1)
- DETAIL — DETAIL NUMBER; DETAIL SHEET (1 / A6.1)
- DOOR NUMBER (DR 01) — REFER TO DOOR SCHEDULE
- WINDOW TYPE (W 01) — REFER TO WINDOW TYPES
- PARTITION TYPE (A6) — REFER TO PARTITION LEGEND
- WORK POINT — CONTROL OR DATUM

APPLICABLE CODES

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1)

2022 CALIFORNIA BUILDING CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUMES 1 AND 2)

2022 CALIFORNIA ELECTRICAL CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3)

2022 CALIFORNIA MECHANICAL CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4)

2022 CALIFORNIA PLUMBING CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5)

2022 CALIFORNIA ENERGY CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6)

2022 CALIFORNIA HISTORICAL BUILDING CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 8)

2022 CALIFORNIA FIRE CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9)

2022 CALIFORNIA EXISTING BUILDING CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 10)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11)

2022 CALIFORNIA REFERENCED STANDARDS CODE
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12)

1 CITY OF CLOVERDALE ADOPTED CODE AMENDMENTS, WHERE APPLICABLE
(REF. MUNICIPAL CODE SEC. 15.05)

NATIONAL CODES AND REFERENCE STANDARDS

INTERNATIONAL PROPERTY MAINTENANCE CODE, 2021 EDITION

NPDES PERMIT AND WASTE DISCHARGE REQUIREMENTS NO. CA0025054 AND AMENDMENTS

AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.

ACI-318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES W/ SUPPLEMENTS

ANSI/AWC SDPWS 2021, SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC

ANSI/AWC NDS 2018, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

NFPA 10, 2021 EDITION, PORTABLE FIRE EXTINGUISHERS

NFPA 13, 2022 EDITION, INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS AND CA AMENDMENTS

NFPA 14, 2019 EDITION, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA 24, 2019 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES AND CA AMENDMENTS

NFPA 72, 2022 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE AND CA AMENDMENTS

NFPA 110, 2019 EDITION, EMERGENCY AND STANDBY POWER SYSTEMS

NFPA 111, 2019 EDITION, STORED ELECTRICAL ENERGY EMERGENCY AND STANDBY POWER SYSTEMS

ADA (AMERICANS WITH DISABILITIES ACT, 1990, REVISED 2010)

PROJECT TEAM

OWNER
SONOMA COUNTY LIBRARY
6135 STATE FARM DRIVE
ROHNERT PARK, CA 94928
CONTACT: DAVE TICHAVA
PHONE: 707-545-0831

ARCHITECT
BISBEE ARCHITECTURE + DESIGN
629 FOURTH STREET, #A
SANTA ROSA, CA 95404
CONTACT: NATE BISBEE, AIA
PHONE: 707-492-9960

LANDSCAPE ARCHITECTURE
QUADRIGA LANDSCAPE ARCHITECTURE
1415 21ST STREET, #A
SACRAMENTO, CA 95811
CONTACT: CHRISTINE TALBOT
PHONE: 707-546-3561

MECHANICAL & PLUMBING ENGINEER
TEP ENGINEERING
880 SECOND STREET
SANTA ROSA, CA 95405
CONTACT: BRAD MANNING, P.E.
PHONE: 707-538-0400

CALGREEN COMPLIANCE
SOLDATA, INC.
P.O. BOX 8579
SANTA ROSA, CA 95407
CONTACT: ADAM TURREY
PHONE: 707-545-4440

ELECTRICAL ENGINEER & LIGHTING
BROKAW DESIGN
P.O. BOX 3103
ROHNERT PARK, CA 94927
CONTACT: COURTNEY CHUENYANE, P.E.
PHONE: 707-799-6822

SUMMARY OF WORK

PROJECT DESCRIPTION:
DESCRIPTION: THE PROPOSED PROJECT IS AN ALTERATION TO AN EXISTING OUTDOOR LIBRARY PATIO. NO CHANGE OF OCCUPANCY IS PROPOSED. AS REQUIRED BY CBC 11B-202.4, PATH OF TRAVEL IMPROVEMENTS TO THE SPECIFIC AREA OF ALTERATION ARE INCLUDED. THESE IMPROVEMENTS INCLUDE REPLACEMENT OF EXISTING NON-COMPLIANT PUBLIC RESTROOMS WITH SINGLE-OCCUPANCY RESTROOMS AND DRINKING FOUNTAIN SERVING THE AREA OF WORK WITH NEW. ALSO INCLUDED IS SELECTIVE BARRIER REMOVAL INCLUDING IMPROVEMENTS TO DOORWAYS AND SIGNAGE.

PROPERTY INFORMATION:
APN: 001-141-010, 0.88 ACRES
ADDRESS: 401 N. CLOVERDALE BLVD., CLOVERDALE, CA 95425
LAND USE: CITY BUILDING

PLANNING INFORMATION:
ZONING: P-I - PUBLIC INSTITUTIONAL
EXISTING USE: PUBLIC LIBRARY
PROPOSED USE: NO CHANGE
EXISTING UTILITIES: PUBLIC WATER AND SEWER

AREA SUMMARY:
EXISTING GROSS FLOOR AREAS:
EXISTING LIBRARY: 7,327 GSF
EXISTING PATIO TOTAL OUTDOOR AREA: 1,685 GSF
AREA OF PROPOSED WORK:
PATIO ALTERATION OUTDOOR AREA OF WORK: 1,420 GSF
PATIO ALTERATION OCCUPIED AREA: 645 NSF
RESTROOM ALTERATION AREA: 161 GSF

BUILDING INFORMATION
APPLICABLE BUILDING CODE: 2022 CBC
BUILDING OCCUPANCY: ASSEMBLY GROUP A-3
OCCUPANCY TYPE: LIBRARY
CONSTRUCTION TYPE: V-B, NON-SPRINKLERED
MAX. BUILDING HEIGHT AT RIDGE: APPROX. 24'

ADDITIONAL INFORMATION:
CA CLIMATE ZONE: 02, 38D-47'-57" N LATITUDE
SEISMIC CATEGORY: D
BASIC WIND DESIGN SPEED: 100 MPH, EXP C
FLOOD ZONE: NOT IN FEMA FLOOD ZONE
FIRE HAZARD SEVERITY ZONE: WITHIN LRA, NON-VHFHSZ

SUBMITTAL NOTES

SUBMIT TO ARCHITECT AND ENGINEERING DESIGN TEAM PRODUCT AND MATERIAL SAMPLES, COLORS FOR SELECTION AND DATA SHEETS OF THE FOLLOWING ITEMS, U.O.N.:

1. STUD WALL AND CEILING FRAMING DATA SHEETS.
2. GYPSUM BOARD MATERIAL DATA SHEETS.
3. ACOUSTICAL INSULATION DATA SHEETS.
4. DOOR, FRAME, AND LOUVER SHOP DRAWINGS AND DATA SHEETS.
5. DOOR HARDWARE, COMPLETE DELEGATED DESIGN.
6. GYP. BOARD FINISH AND TEXTURE DATA SHEETS & SAMPLES.
7. TILE CARPETING AND TRANSITIONS DATA SHEETS & SAMPLES.
8. RESILIENT BASE DATA SHEETS & SAMPLES.
9. FLOOR AND WALL TILE, AND BASE DATA SHEETS AND SAMPLES.
10. PAINTED FINISHES AND TEXTURE, DATA AND BRUSH-OUTS, MOCK-UP.
11. BATH ACCESSORIES DATA SHEETS.
12 ACCESSIBLE AND ROOM PANEL SIGNAGE SHOP DRAWINGS & SAMPLES.
13. FIRE EXTINGUISHERS AND CABINET DATA SHEETS.
14. FIRE ALARM SYSTEM DESIGN INFORMATIONAL SUBMITTAL (SEPARATE PERMIT BY CONTRACTOR).
15. MECHANICAL HVAC SUBMITTALS AS REQUIRED, S.M.D.
16. PLUMBING FIXTURE & EQUIPMENT SUBMITTALS AS REQUIRED, S.P.D.
17. ELECTRICAL SUBMITTALS AS REQUIRED, S.E.D.
18. LIGHT FIXTURES SUBMITTALS AS REQUIRED, S.E.D.
19. LANDSCAPE SUBMITTALS AS REQUIRED FOR PATIO, S.L.D.
20. SIDEWALK DRAIN AND SIDEWALK REPLACEMENT DESIGN INFORMATIONAL SUBMITTAL (SEPARATE ENCROACHMENT PERMIT BY CONTRACTOR). 1

SHEET INDEX

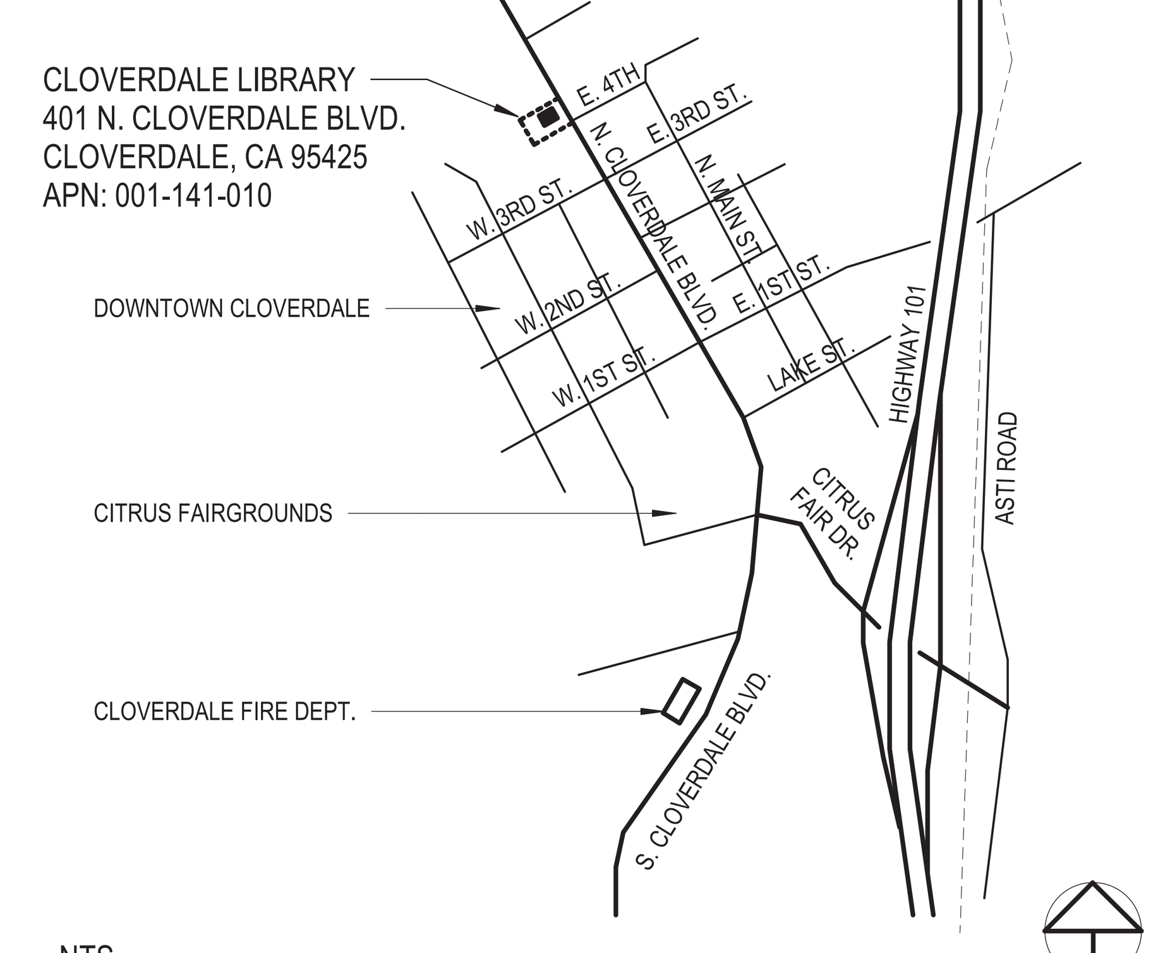
CITY OF CLOVERDALE
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
This set of plans and specifications shall be kept on the job site at all times, and be readily available to the City Inspectors upon demand.
Approval of these plan and specifications shall not be held to permit, or to be an approval to violate any provisions of any City or State law, or Nationally recognized Fire Protection Standard.
Stamped By Betty Li on November 27, 2024
Issued for Permit B-24-175

LICENSED ARCHITECT
NATHAN T. BISBEE
C-29901
REN. 11/30/25
STATE OF CALIFORNIA

DEFERRED SUBMITTALS (AND SEPARATE PERMITS)

1. FIRE ALARM (SEPARATE PERMIT BY CONTRACTOR).
2. SIDEWALK DRAIN (SEPARATE ENCROACHMENT PERMIT BY CONTRACTOR). 1

VICINITY MAP



NTS

SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION
401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

TITLE SHEET

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

G-001

permit SONOMA

County of Sonoma
Permit & Resource Management Department

2022 CALGreen Checklist Nonresidential Construction
Additions and alterations
BPC-069

This checklist is effective January 5, 2023 and applies to nonresidential **building additions of 1,000 square feet or greater and/or building alterations with a permit valuation of $200,000 or above**, and only apply to the portions of the building being added to or altered within the scope of the permitted work. The provisions of this checklist also apply to all tenant improvement projects meeting the criteria listed above. Repairs to existing structures are not subject to the requirements of CALGreen. Sonoma County has only adopted the mandatory measures of the 2022 California Green Building Code.

Newly constructed nonresidential buildings should use the CALGreen checklist for New Nonresidential Buildings (BPC-xxx).

(This checklist is based on 2022 CALGreen and has been revised to include County of Sonoma requirements)

Building Permit Number: _____ Project Name: Cloverdale Regional Library Patio Alterations

Project Address: 401 N. Cloverdale Blvd, Cloverdale CA 95425

Project Description: Alteration of existing building

Instructions:

A. The Owner or the Owner's agent shall employ a qualified CALGreen Special Inspector, listed by the County of Sonoma Building Department, to perform CALGreen Special Inspector services and to verify and assure the Owner and the Building Department that all required work described herein is properly planned and implemented in the project. County listed CALGreen inspectors can be found on the County's web site at http://www.sonoma-county.org/prmd/docs/grnbldg/index.htm

B. All CALGreen Mandatory Measure Locations must be located and identified within the plan set and their locations notated within this document or provide an explanation.

C. The CALGreen Special Inspector shall not be the design professional or contractor for the project and shall not have a financial interest in the project for which services are being provided except for the cost of providing said services.

D. The CALGreen Special Inspector, in collaboration with the owner and the design professional shall review and incorporate all applicable provisions of **Columns 1 and 2** of this checklist into the project, sign and date the **Design Verification** section at the end of this checklist and have the checklist printed on the approved plans for the project. The CALGreen Special Inspector must indicate in **Column 2** of the checklist all applicable measures which must be met and incorporated into the project.

E. Prior to final inspection by Permit Sonoma, the CALGreen Special Inspector shall complete **Column 3** and sign and date the **Implementation Verification** section at the end of this checklist.

CALGREEN CHECKLIST LEGEND

MANDATORY	MANDATORY indicates that the measure is a requirement of the project when applicable.
MEASURE SECTION TITLE	Reference to the section title of a CALGreen measure. The specific Section(s) of CALGreen must be reviewed to fully understand the requirements of a CALGreen measure.
REQUIRED	The **REQ'D** column on the checklist indicates that the CALGreen measure is Required and has been included in the plans and specifications as a requirement of the project.
NOT APPLICABLE (N/A)	The **N/A** column on the checklist indicates that the CALGreen measure is Not Applicable or not a requirement of the project. The CalGreen special inspector shall provide an explanation why a particular measure is Not Applicable.
CODE SECTION	Indicates the referenced or applicable Section(s) of the California Green Building Code (CALGreen) unless otherwise specified.
PLAN SHEET NUMBER OR EXPLANATION	Provides a location for the CALGreen Special Inspector or the design professional to indicate the plan sheet number where the full CALGreen measure or requirement is shown or specified on the construction drawings. Also, provides an area to provide an explanation for non-applicable items.
FIELD VERIFIED	Provides a location for the CALGreen Special Inspector to indicate each measure that has been implemented into the project and installation verified by the CALGreen Special Inspector. *[NOTE: Required prior to Final Inspection approval]*

Mandatory or Elective	Measure Section Title *See Chapter 5 of the 2022 California Green Building Code for complete requirements for measures listed here.*	Code Section	Required ✓	N/A ✓	Plan Sheet Number or Explanation	Field Verified
Division 5.1 - Planning and Design						
Mandatory	Storm water pollution prevention for projects that disturb less than 1 acre of land must comply with City of Cloverdale Code	5.106.1 through 5.106.2	☑	☐	Sheet A-602	☐
Mandatory	Short-term bicycle parking	5.106.4.1.1	☐	☑	N/A: no new parking	☐
Mandatory	Long-term bicycle parking	5.106.4.1.2 through 5.106.4.1.5	☐	☑	N/A: no new parking	☐
Mandatory	Designated parking for clean air vehicles	5.106.5.2	☐	☑	N/A: no new parking	☐
Mandatory	Parking stall marking	5.106.5.2.1	☐	☑	N/A: no new parking	☐
Mandatory	Single charging space requirements	5.106.5.3.1	☐	☑		☐
Mandatory	Grading and paving (exception for additions and alterations not altering the drainage path)	5.106.10	☐	☑		☐
Division 5.2 – Energy Efficiency						
Mandatory	Meet the minimum energy efficiency standard	5.201.1	☑	☐	See Title 24 Report	☐

Mandatory or Elective	Measure Section Title *See Chapter 5 of the 2022 California Green Building Code for complete requirements for measures listed here.*	Code Section	Required ✓	N/A ✓	Plan Sheet Number or Explanation	Field Verified
Division 5.3 - Water Efficiency & Conservation						
Mandatory	Separate meters (new buildings or additions> 50,000 sf that consume more than 100 gal/day)	5.303.1.1	☐	☑	N/A <50,000 SF & < 1,000 GAL CONSUMED	☐
Mandatory	Separate meters (for tenants in new buildings or additions that consume more than 1,000 gal/day)	5.303.1.2	☐	☑		☐
Mandatory	Water closets shall not exceed 1.28 gallons per flush (gpf) P501: <=1.28 gallons per flush	5.303.3.1	☑	☐	P001: <=1.28 gallons per flush	☐
Mandatory	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.1	☑	☐	P001: <= 0.125 gallons per flush	☐
Mandatory	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2	☑	☐	P001: <=0.5 gallons per flush	☐
Mandatory	Single showerhead shall have maximum flow rate of 1.8 gpm (gallons per minute) at 80 psi	5.303.3.3.1	☐	☑	N/A: no showers	☐
Mandatory	Multiple showerheads serving one shower shall have a combined flow rate of 1.8 gpm at 80 psi	5.303.3.3.2	☐	☑	N/A: no showers	☐
Mandatory	Nonresidential lavatory faucets	5.303.3.4.1	☑	☐	P001: </= 0.5 gpm	☐
Mandatory	Kitchen faucets	5.303.3.4.2	☐	☑	N/A: no kitchen	☐
Mandatory	Wash fountains	5.303.3.4.3	☑	☐	P001: </= 1.8 gpm	☐
Mandatory	Metering faucets	5.303.3.4.4	☑	☐	P001: </= 0.20 gpc	☐
Mandatory	Metering faucets for wash fountains	5.303.3.4.5	☑	☐	P001: </= 0.20 gpm	☐
Mandatory	Food waste disposers	5.303.4.1	☐	☑	N/A: no food waste disposer proposed	☐
Mandatory	Areas of additions or alterations	5.303.5	☑	☐		☐
Mandatory	Standards for plumbing fixtures and fittings	5.303.6	☑	☐	P001: See Signoff from Plumber	☐
Mandatory	Outdoor potable water use in landscape areas and applicable provisions of City of Cloverdale Code	5.304.1	☑	☐	Sheet L2.02	☐

Mandatory or Elective	Measure Section Title *See Chapter 5 of the 2022 California Green Building Code for complete requirements for measures listed here.*	Code Section	Required ✓	N/A ✓	Plan Sheet Number or Explanation	Field Verified
Division 5.4 - Material Conservation and Resource Efficiency						
Mandatory	Weather protection	5.407.1	☑	☐	A-602	☐
Mandatory	Moisture control: sprinklers	5.407.2.1	☑	☐	L2.01	☐
Mandatory	Moisture control: exterior door protection	5.407.2.2.1	☑	☐	A-502	☐
Mandatory	Moisture control: flashing	5.407.2.2.2	☐	☑		☐
Mandatory	Construction waste management—comply with either: Sections 5.408.1.1, 5.408.1.2, 5.408.1.3 or more stringent local ordinance (Support documentation required at application submittal)	5.408.1.1, 5.408.1.2, 5.408.1.3	☑	☐	A-602: GC to coordinate & provide final construction waste report	☐
Mandatory	Construction waste management: documentation [A]	5.408.1.4	☑	☐	GC to coordinate & provide final construction waste report	☐
Mandatory	Universal waste	5.408.2	☑	☐	GC to document that Universal waste (such as batteries, e-waste, lamps, cathode ray tubes) are disposed of properly	☐
Mandatory	Excavated soil and land dealing debris (100% reuse or recycle)	5.408.3	☑	☐	L2.02	☐
Mandatory	Recycling by occupants (with exception)	5.410.1	☑	☐	existing recycling infrastructure to be verified	☐
Mandatory	Recycling by occupants: additions (with exception)	5.410.1.1	☑	☐	during CALGreen inspections	☐
Mandatory	Recycling by occupants: sample ordinance	5.410.1.2	☑	☐		☐
Mandatory	Testing and adjusting for new buildings < 10,000 sf or new systems that serve additions or alterations [A]	5.410.4	☑	☐	Future submittal: testing and reporting by installing contractors for HVAC SYSTEMS 1. Indoor & Outdoor	☐
Mandatory	System Testing Plan for renewable energy, landscape irrigation and water reuse [A] (Support documentation required at application submittal)	5.410.4.2	☑	☐	systems, & commissioning	☐
Mandatory	Procedures for testing and adjusting	5.410.4.3	☑	☐		☐
Mandatory	Procedures for HVAC balancing	5.410.4.3.1	☑	☐		☐
Mandatory	Reporting for testing and adjusting	5.410.4.4	☑	☐		☐
Mandatory	Operation and maintenance (O&M) manual	5.410.4.5	☑	☐		☐
Mandatory	Inspection and reports	5.410.4.5.1	☑	☐		☐

Mandatory or Elective	Measure Section Title *See Chapter 5 of the 2022 California Green Building Code for complete requirements for measures listed here.*	Code Section	Required ✓	N/A ✓	Plan Sheet Number or Explanation	Field Verified
Division 5.5 - Environmental Quality						
Mandatory	Fireplaces. For Wood-Burning Appliances see Sonoma County Code Chapter 7C	5.503.1,	☐	☑		☐
Mandatory	Woodstoves	5.503.1.1	☐	☑		☐
Mandatory	Temporary ventilation	5.504.1	☑	☐	M001	☐
Mandatory	Covering of ducts openings and protection of mechanical equipment during construction	5.504.3	☑	☐	M001	☐
Mandatory	Adhesives, sealants, and caulks	5.504.4.1	☑	☐		☐
Mandatory	Paints and coatings	5.504.4.3	☑	☐		☐
Mandatory	Aerosol paints and coatings	5.504.4.3.1	☑	☐		☐
Mandatory	Aerosol paints and coatings: verification	5.504.4.3.2	☑	☐		☐
Mandatory	Carpet systems	5.504.4.4	☑	☐		☐
Mandatory	Carpet cushion	5.504.4.4.1	☑	☐		☐
Mandatory	Carpet adhesives per Table 5.504.4.1	5.504.4.4.2	☑	☐		☐
Mandatory	Composite wood products	5.504.4.5	☑	☐		☐
Mandatory	Composite wood products: documentation	5.504.4.5.3	☑	☐		☐
Mandatory	Resilient flooring systems	5.504.4.6	☑	☐		☐
Mandatory	Resilient flooring: verification of compliance	5.504.4.6.1	☑	☐		☐
Mandatory	Filters (with exceptions)	5.504.5.3	☑	☐	MERV: MERV 13 filters or higher to be confirmed at inspection	☐
Mandatory	Filters: labeling	5.504.5.3.1	☑	☐		☐
Mandatory	Environmental tobacco smoke (ETS) control.	5.504.7	☐	☑		☐
Mandatory	Indoor moisture control	5.505.1	☑	☐	A-602: slab floor & durable wall exterior	☐
Mandatory	Outside air delivery	5.506.1	☑	☐	A-602: See Mechanical Plans for minimum OA	☐
Mandatory	Carbon Dioxide (CO_2) monitoring	5.506.2	☑	☐	A-602: IF CO2 sensors are installed, they must be installed per CA Energy Code	☐
Mandatory	Carbon Dioxide (CO_2) monitoring in classrooms	5.506.3	☐	☑		☐
Mandatory	Acoustical control (with exception) (Support documentation required prior to permit issuance)	5.507.4	☐	☑	N/A: project not located within significant noise contour	☐
Mandatory	Exterior noise transmission, prescriptive method (with exceptions)	5.507.4.1	☐	☑	Sonoma County Airport Noise Contour Map	☐
Mandatory	Noise exposure where noise contours are not readily available	5.507.4.1.1	☐	☑		☐
Mandatory	Performance method	5.507.4.2	☐	☑		☐
Mandatory	Site features	5.507.4.2.1	☐	☑		☐
Mandatory	Documentation of compliance	5.507.4.2.2	☐	☑		☐
Mandatory	Interior sound transmission (with note)	5.507.4.3	☐	☑		☐
Mandatory	Ozone depletion and greenhouse gas reductions	5.508.1	☑	☐	New equipment to be verified as not containing CFCs or Halons A-602	☐
Mandatory	Chlorofluorocarbons (CFCs)	5.508.1.1	☑	☐		☐
Mandatory	Halons	5.508.1.2	☑	☐	A-602	☐

Mandatory	Supermarket refrigerant leak reduction for retail food stores 8,000 square feet or more Sections 5.508.2 through 5.508.2.6.3	5.508.2 through 5.508.2.6.3	☐	☑		☐

GREEN BUILDING ACKNOWLEDGMENTS

Project Address: 401 N. Cloverdale Blvd, Cloverdale CA 95425

Project Description: Alteration of existing building

Section 1 – Design Verification

Complete all lines of Section 1 – "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to Permit Sonoma.

The owner/owner's agent, design professional, Sonoma County Plan's Examiner and the Sonoma County approved CALGreen special inspector have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans in accordance with the requirements set forth in the 2022 California Green Building Standards Code as amended by the Sonoma County Code.

Owner Signature: _____ Date: 5.21.2024

Owner Name: David Tichava

Design Professional Signature: _____ Date: 5/21/24

Design Professional Name: Nate Bisbee, AIA

Signature of Plans Examiner: _____ Date: _____

Per Section 703.1 of the 2022 CALGreen Building Standards Code, the signee below has verified that adequate documentation has been provided to show compliance with the specified mandatory measures of the 2022 CALGreen Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

Signature of County Listed CALGreen Special Inspector: _____

Date: 5/20/2024 Phone: 707-545-4440

County Listed CALGreen Special Inspector's Name: Adam Turrey

CALGreen Special Inspector E-mail Address: Adam@soldata.com

CALGreen Certification No.: ICC #8728491

GREEN BUILDING ACKNOWLEDGMENTS

Project Address: 401 N. Cloverdale Blvd, Cloverdale CA 95425

Project Description: Addition/alteration of existing building

Section 2 – Implementation Verification

Complete all lines of Section 1 – "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to Permit Sonoma.

The signee below has inspected the work and has received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2022 California Green Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

Signature of County Listed CALGreen Special Inspector: _____

Date: _____ Phone: _____

County Listed CALGreen Special Inspector's Name: _____

CALGreen Special Inspector E-mail Address: _____

CALGreen Certification No.: _____

BISBEE
ARCHITECTURE+DESIGN

Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
NATHAN T. BISBEE
C-29501
REN. 11/30/25
STATE OF CALIFORNIA

SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

CALGREEN CODE COMPLIANCE

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

G-002

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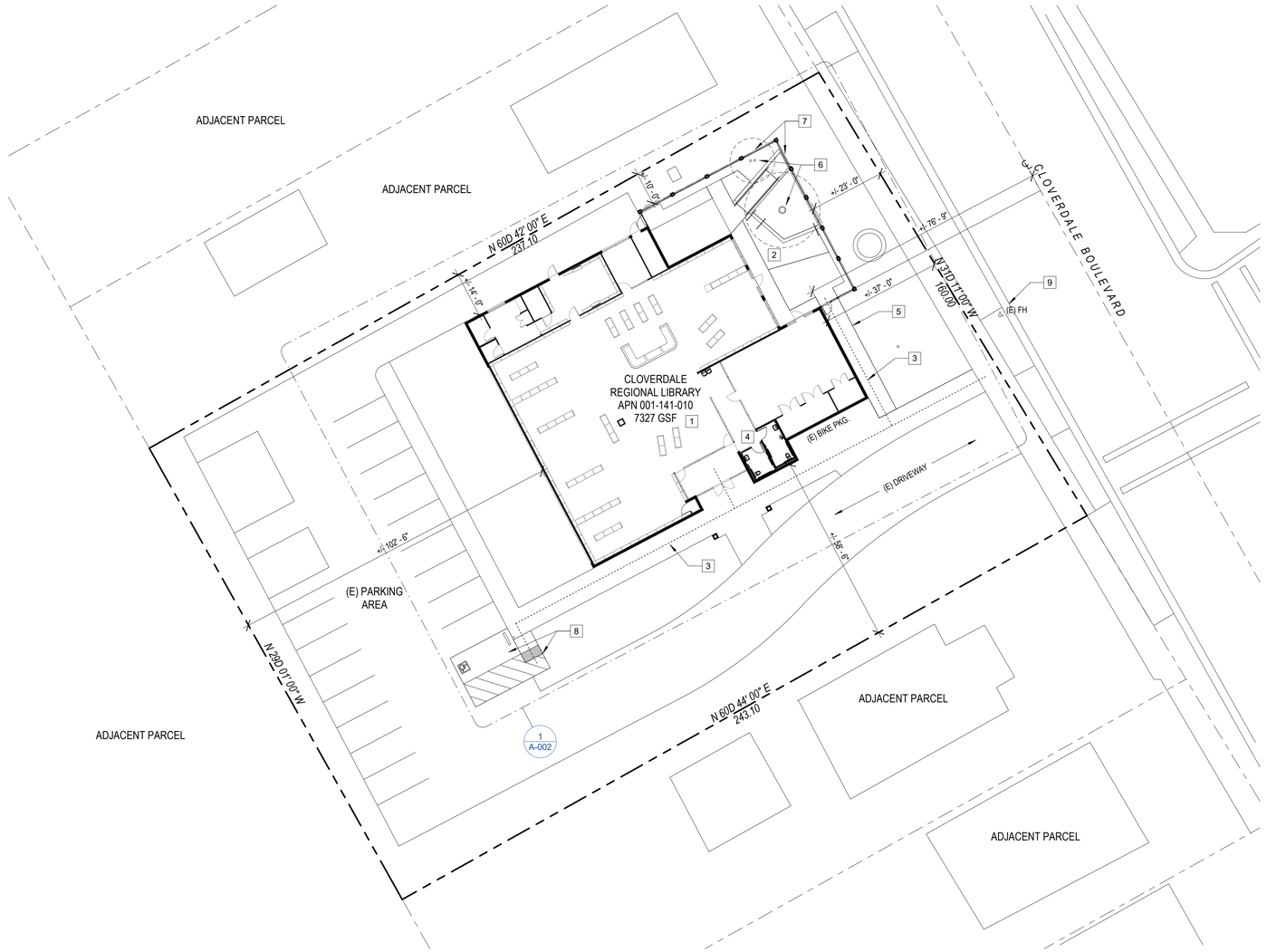

1 SITE PLAN
1" = 20'-0"

SEE CODE COMPLIANCE FLOOR PLAN A-002
FOR ADDITIONAL INFORMATION

SITE PLAN DRAWING NOTES

1. EXISTING 1-STORY CLOVERDALE REGIONAL BRANCH LIBRARY BUILDING, 7,327 GROSS FLOOR AREA, A-3 OCC., TYPE V-B, NON-SPRINKLERED.
2. PROPOSED ALTERATION TO EXISTING OUTDOOR LIBRARY PATIO READING AREA, APPROX. 645 SF OCCUPIED AREA, S.L.D.
3. ACCESSIBLE PATH OF TRAVEL AT SITE TO MAIN BUILDING ENTRY AND AREA OF ALTERATION.
4. PROPOSED REMODELED RESTROOMS FOR BARRIER REMOVAL. NEW RESTROOMS SHALL BE ACCESSIBLE FAMILY TYPE UNISEX, 161 SF.
5. NEW ACCESSIBLE CONCRETE WALKWAY SERVING NEW LIBRARY PATIO EXIT GATE, S.L.D.
6. (E) TREES AT PATIO, PROTECT IN PLACE DURING CONSTRUCTION, S.L.D.
7. REPLACEMENT FENCE INFILL AT (E) PATIO FENCE, S.L.D.
8. (E) VAN ACCESSIBLE PARKING STALL W/ RECENT IMPROVEMENTS BY OTHERS.
9. (E) FIRE HYDRANT, S.C.D.

SITE PLAN GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL NEW SITE WORK W/ EXISTING UTILITIES. PROTECT EXISTING UTILITIES AND EXISTING TRENCHES IN PLACE. REPAIR AND REPLACE ANY UTILITY LINES, EQUIPMENT OR SERVICE BOXES AT NEW SITE WORK. IF REQUIRED, CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK WITHIN THE RIGHT-OF-WAY.

2. PROTECT EXISTING TREES TO REMAIN IN PLACE DURING CONSTRUCTION, SEE LANDSCAPE DRAWINGS.

3. SOIL PREPARATIONS, PAD DESIGN, FOUNDATION DESIGN, FLATWORK, REINFORCING AND INSTALLATION SHALL MEET THE MIN. REQ'MTS. OF THE LANDSCAPE ARCHITECT AND THEIR STRUCTURAL ENGINEER, S.L.D.

4. EXISTING SETBACK REQUIREMENT FOR P-I ZONING IS DETERMINED BY USE PERMIT, NO CHANGES PROPOSED TO EXISTING SETBACK CONDITIONS.
EXISTING YARDS/SETBACKS PROVIDED:
   (E) FRONT: +/- 37'-0"
   (E) REAR: +/- 102'-6"
   (E) SIDE - NORTH; +/- 14'-0"
   (E) SIDE - SOUTH: +/- 58'-6"

5. PROTECT EXISTING DRAINAGE & IRRIGATION FEATURES IN PLACE DURING CONSTRUCTION. REPAIR AND REPLACE ANY UTILITY LINES, EQUIPMENT OR SERVICE BOXES AT NEW SITE WORK, S.L.D.

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

BISBEE
ARCHITECTURE+DESIGN

Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
NATHAN T. BISBEE
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SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

SITE PLAN

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-001

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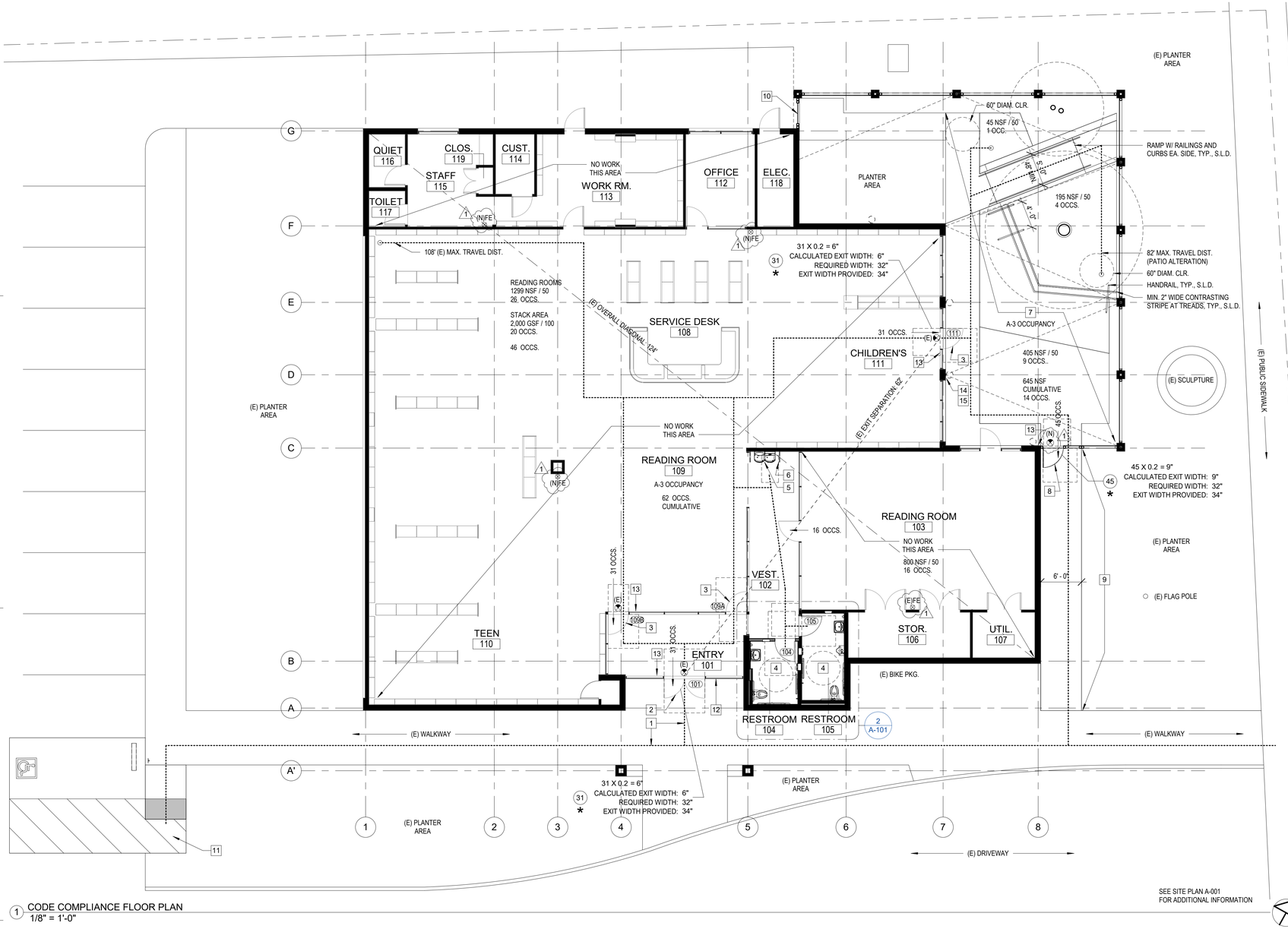

1 CODE COMPLIANCE FLOOR PLAN
1/8" = 1'-0"

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

PLUMBING FIXTURE SUMMARY

2022 CALIFORNIA PLUMBING CODE, CHPT. 4, MIN. PLUMBING FIXTURES

OCC. LOAD FACTORS PER CBC CHPT. 10: LIBRARY:
READING ROOM: 50 NET
STACK AREA: 100 GROSS

OCC. LOAD CALC.: 2,744 NSF READING ROOM / 50 = 56 OCCS.
2,000 GSF STACK AREA / 100 = 20 OCCS.
= 76 TOTAL OCCUPANTS (38 F / 38 M)

MIN. PLUMBING FACILITIES (CPC TABLE 422.1):
WATER CLOSETS: 2 F / 1 M REQUIRED, 1 F / 1 M PROVIDED **[ALT. MEANS]***
LAVATORIES: 1 F / 1 M REQUIRED, 1 F / 1 M PROVIDED **[OK]**
URINALS: 1 REQUIRED, 1 PROVIDED **[OK]**

DRINKING FOUNTAINS: DRINKING FOUNTAINS REQUIRED = 1
DRINKING FOUNTAINS PROVIDED = 1 **[OK]**
SERVICE SINKS: 1 REQ'D. PER TBL. 422.1, 1 PROVIDED **[OK]**

NOTE: FOR THE PURPOSES OF MIN. PLUMBING FIXT. CALCULATION, TOTAL SQUARE FOOTAGE EXCLUDES ACCESSORY AREAS PER TBL. 4-1.

*ALTERNATE MEANS REQUEST SUBMITTED WITH APPLICATION TO PROVIDE 2 ACCESSIBLE UNISEX FAMILY RESTROOMS IN LIEU OF THE EXISTING MEN'S AND WOMEN'S NON-COMPLIANT RESTROOMS.

CODE COMPLIANCE LEGEND

WIDTH OF EGRESS COMPONENT
EGRESS WIDTH PER OCCUPANT
100 X 0.2 = 20"
100 CALCULATED EXIT WIDTH: 20"
REQUIRED WIDTH: 32"
EXIT WIDTH PROVIDED: 80"
CUMULATIVE OCCUPANTS AT THIS EXIT DOOR
PANIC EXIT DEVICE REQUIRED

EXIT ACCESS
MAX. DIST. TO COMMON PATH OF EGRESS TRAVEL
MAX. EXIT ACCESS TRAVEL DISTANCE/ ACCESSIBLE PATH OF TRAVEL TO AREA OF WORK

SEPARATION OF EXITS
OVERALL DIAGONAL DIMENSION OF EA. AREA
EXIT SEPARATION DISTANCE PROVIDED

FIRE EXTINGUISHERS
⊠ FEC FIRE EXTINGUISHER CABINET

CCE: Permit B-23-177 for the Auto Entry Door was not permitted or finaled and must be completed prior to this permit final.

CODE COMPLIANCE DRAWING NOTES

1 ACCESSIBLE PATH OF TRAVEL SERVING AREA OF WORK.
2 (E) ACCESSIBLE AUTO ENTRY DOOR, RECENTLY REPLACED, BY OTHERS.
3 (E) DOOR ON ACCESSIBLE PATH SERVING THE AREA OF WORK. DOOR HARDWARE, OPENING FORCE, AND CLOSING SPEEDS SHALL BE VERIFIED AND ALTERED AND REPLACED FOR ACCESSIBILITY.
4 REMODELED RESTROOMS FOR BARRIER REMOVAL. NEW RESTROOMS SHALL BE ACCESSIBLE FAMILY TYPE UNISEX, SEE RESTROOMS PLANS.
5 REPLACE (E) DRINKING FOUNTAIN W/ NEW HIGH-LOW ACCESSIBLE DRINKING FOUNTAIN AND BOTTLE FILLER, S.P.D.
6 PROVIDE PROTECTIVE RAILS AT EA. SIDE NEW DRINKING FOUNTAIN.
7 PROPOSED ALTERATION TO EXISTING OUTDOOR LIBRARY PATIO READING AREA, APPROX. 645 SF OCCUPIED AREA, S.L.D., PROTECT (E) TREES IN PLACE DURING CONSTRUCTION.
8 NEW ACCESSIBLE PATIO EXIT GATE AND FENCE REPLACEMENT. PROVIDE METAL FENCE INFILL REPLACEMENT PANELS AND FRAMES, TYP., S.L.D.
9 NEW ACCESSIBLE CONCRETE WALKWAY SERVING NEW LIBRARY PATIO EXIT GATE, S.L.D.
10 NEW SERVICE GATE TO MATCH FENCE REPLACEMENT, S.L.D., PROVIDE 'NOT AN EXIT' SIGNAGE ON OR ADJACENT TO THE GATE.
11 (E) VAN ACCESSIBLE PARKING STALL W/ RECENT IMPROVEMENTS BY OTHERS.
12 PROVIDE ACCESSIBLE I.S.A. SIGN AT MAIN ENTRY, TYPE A.
13 PROVIDE ACCESSIBLE TACTILE EXIT SIGN, TYPE L.
14 PROVIDE ASSISTIVE LISTENING SIGN, TYPE E. PROVIDE MIN. 2 PORTABLE, HEARING-AID COMPATIBLE LISTENING SYSTEMS PER CBC 11B-219.
15 PROVIDE MAX. OCCUPANCY SIGN FOR PATIO AREA, TYPE F. SIGNAGE VERBIAGE SHALL BE COORDINATED WITH BUILDING OFFICIAL.

CODE COMPLIANCE GENERAL NOTES

1. SEE CODE COMPLIANCE DETAILS SHT. A-502 FOR ADDT'L. INFORMATION.

2. SEE CODE ANALYSIS SUMMARY SHT. A-602 FOR ADDT'L. INFORMATION.

3. THIS CODE COMPLIANCE SHEET IS INTENDED TO PROVIDE A SUMMARY OF BUILDING OCCUPANCY, ALLOWABLE AREAS, CONSTRUCTION TYPE, AND EXITING ANALYSIS. ADDITIONAL REQUIREMENTS OF THE CBC AND ADA MAY APPLY TO THE PROJECT. APPLICABLE CODES, STANDARDS AND LAWS ARE LISTED ON SHT. G-001.

4. CONTRACTOR SHALL REQUEST INFORMATION FROM ARCHITECT REGARDING ACCESSIBILITY COMPLIANCE IMMEDIATELY IF PLAN CONFLICTS WITH DETAILS PRIOR TO INSTALLATION.

5. ALL ACCESSORIES SHALL COMPLY WITH PROTRUDING OBJECTS LIMITS OF THE CBC AND SHALL NOT PROTRUDE GREATER THAN 4" WHEN THE BTM. IS LOCATED BETWEEN 27-80" A.F.F. OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

6. PROVIDE ACCESSIBLE FLOORING TRANSITIONS AND ACCESSIBLE THRESHOLDS, TYP.

7. VERIFY ALL CODE-REQUIRED SIGNAGE, TACTILE EXIT SIGNAGE, ASSISTIVE LISTENING SIGNAGE AND OCC. LOAD SIGNAGE W/ ARCHITECT.

8. PANIC HARDWARE AND/OR FIRE EXIT HARDWARE SHALL COMPLY WITH CBC 1008.1.10, TYP. ALL DOOR HARDWARE SHALL BE ACCESSIBLE, SEE SCHEDULE.

9. CONTRACTOR SHALL VERIFY EXISTING COMPLIANT, FUNCTIONING ILLUMINATED EXITS. CONTRACTOR SHALL REPLACE EXISTING ILLUMINATED EXITS WITH NEW WHERE NEEDED FOR COMPLIANCE OR AS REQUESTED BY THE CODE OFFICIAL OR FIRE DEPT.

10. SEE LANDSCAPE DRAWINGS FOR PATIO AREA ACCESSIBILITY REQ'MTS.

1 11. FIELD VERIFY FIRE (E) AND (N) FIRE EXTINGUISHER LOCATIONS. PROVIDE MIN. 4 - 2A:10BC EXTINGUISHERS, WALL-MOUNTED 40" A.F.F. TO HANDLE, W/ VALID CERTIFICATION TAG ATTACHED, OR AS DIRECTED BY FIRE DEPT.

BISBEE
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SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

CODE COMPLIANCE FLOOR PLAN

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-002

8/2/2024 7:00:02 PM

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

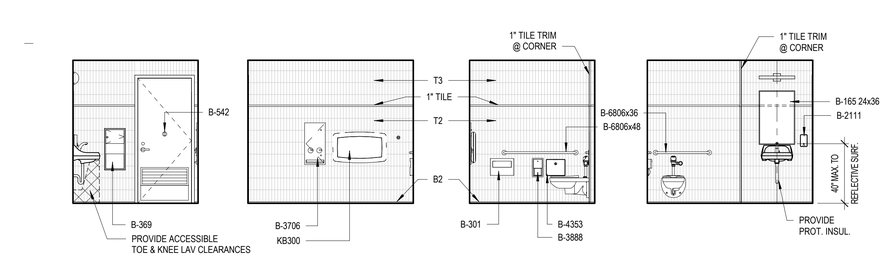
ACCESSIBLE RESTROOM NOTES

1. PROVIDE ACCESSIBLE WALL-MOUNTED LAVATORIES, S.P.D., PROTECT KNEE SPACE FROM PIPING AND ANY ABRASIVE FINISHES, TYP. PROVIDE CLEAR FLOOR SPACE, 30"X48" MIN., PER FIGURE 11B-305.5(a), FORWARD APPROACH. THE CLEAR SPACE INCLUDES KNEE AND TOE CLEARANCES PER 11B-305.4. PROVIDE 36"X48" MIN. CLEAR AT ALCOVES GREATER THAN 24" DEEP PER FIGURE 11B-305.7.1.
2. PROVIDE ACCESSIBLE WALL-MOUNTED WATER CLOSETS, S.P.D., PROVIDE 17"-18" CLR. FROM ADJACENT FIN. TO C.L. WC PER FIG. 11B-604.2(a). PROVIDE MANEUVERING SPACE AT WC PER FIGURE 11B-604.3.1, 60"X56" MIN. AND 48" MIN. IN FRONT OF WATER CLOSET.
3. PROVIDE ACCESSIBLE WALL-MOUNTED URINAL, S.P.D., PROVIDE 17" MAX. RIM HT. ABOVE FINISHED FLOOR PER FIG. 11B-605.2(a). PROVIDE 30"X48" MIN. CLEAR FLOOR SPACE PER 11B-605.3 AND 11B-305 FOR FORWARD APPROACH.
4. PROVIDE 30"X48" CLEAR FLOOR SPACE IN FRONT OF CHANGING TABLE INSTALL PER 11B-305.
5. WHERE REQ'D FOR DOOR SWING AND FIXTURE CLEARANCES OVERLAP EXCEPTION, PROVIDE MIN. CLEAR FLOOR AREA OUTSIDE OF DOOR SWING, 30"X48", PER 11B-603.2.3, EXC. 2.
6. PROVIDE CIRCULAR TURNING SPACE, PER 11B-304.3.1, THE TURNING SPACE SHALL BE 60 INCHES, THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306. OVERLAP OF CLEAR FLOOR SPACE AND TURNING SPACE IS PERMITTED PER 11B-603.2.2. DOOR SWING SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE BY 12" MAX. PER 11B-603.2.3.
7. IN-SWING TOILET ROOM DOORS SHALL BE PER FIGURE 11B-404.2.4.1(a) FOR FRONT APPROACH AT PULL SIDE SIDE OF DOOR. SEE PLAN FOR ADDT'L. CLEARANCES. DOOR HARDWARE ON BOTH SIDES SHALL COMPLY WITH 11B-404.2.7.
8. SEE RESTROOM BATH ACCESSORIES NOTES FOR PRODUCT INFO. SEE CODE COMPLIANCE DETAILS FOR ADDT'L. INFO.

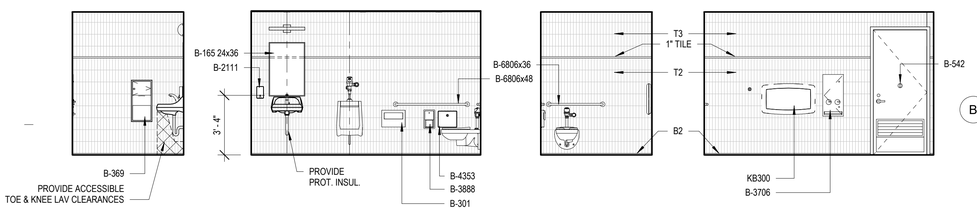
BATH ACCESSORIES

SEE DETAIL 18/A-503 FOR ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES, TYP.

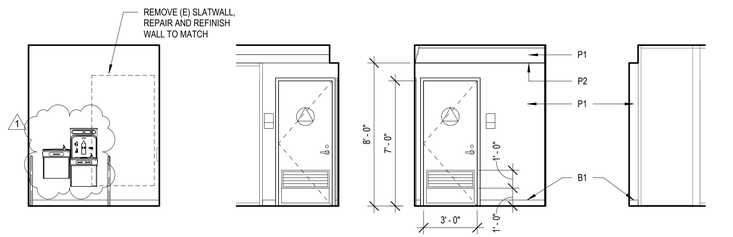
B-165	BOBRICK 24X36 ACCESSIBLE MIRROR UNIT W/ S.S. CHANNEL FRAME
B-301	BOBRICK ACCESSIBLE RECESSED S.S. SEAT COVER DISPENSER
B-369	BOBRICK ACCESSIBLE RECESSED S.S. PAPER TOWEL & WASTE UNIT
B-542	BOBRICK ACCESSIBLE HEAVY-DUTY S.S. CLOTHES HOOK
B-2111	BOBRICK ACCESSIBLE SURFACE-MOUNTED S.S. SOAP DISPENSER
B-3706	BOBRICK ACCESSIBLE RECESSED S.S. SANITARY NAPKIN DISPENSER
B-3888	BOBRICK ACCESSIBLE RECESSED S.S. TOILET TISSUE DISPENSER
B-4353	BOBRICK ACCESSIBLE RECESSED S.S. SANITARY NAPKIN DISPOSAL UNIT
B-6806x36	36" ACCESSIBLE 1-1/2" DIAM. S.S. GRAB BAR
B-6806x48	48" ACCESSIBLE 1-1/2" DIAM. S.S. GRAB BAR
KB300	BABY CHANGING TABLE BY BOBRICK/KOALA KARE
819298	BOBRICK ACCESSIBLE 1-1/2" DIAM. S.S. DRINKING FOUNTAIN PROTECTIVE RAIL



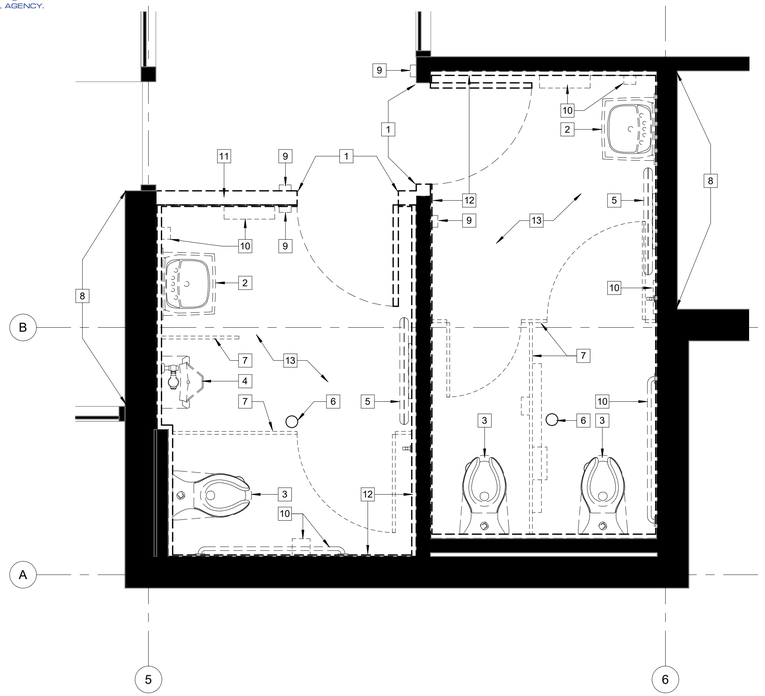
3 RESTROOM 104 N 1/4" = 1'-0"
4 RESTROOM 104 E 1/4" = 1'-0"
5 RESTROOM 104 S 1/4" = 1'-0"
6 RESTROOM 104 W 1/4" = 1'-0"



7 RESTROOM 105 N 1/4" = 1'-0"
8 RESTROOM 105 E 1/4" = 1'-0"
9 RESTROOM 105 S 1/4" = 1'-0"
10 RESTROOM 105 W 1/4" = 1'-0"



11 VEST. 102 N 1/4" = 1'-0"
12 VEST. 102 E 1/4" = 1'-0"
13 VEST. 102 S 1/4" = 1'-0"
14 VEST. 102 W 1/4" = 1'-0"

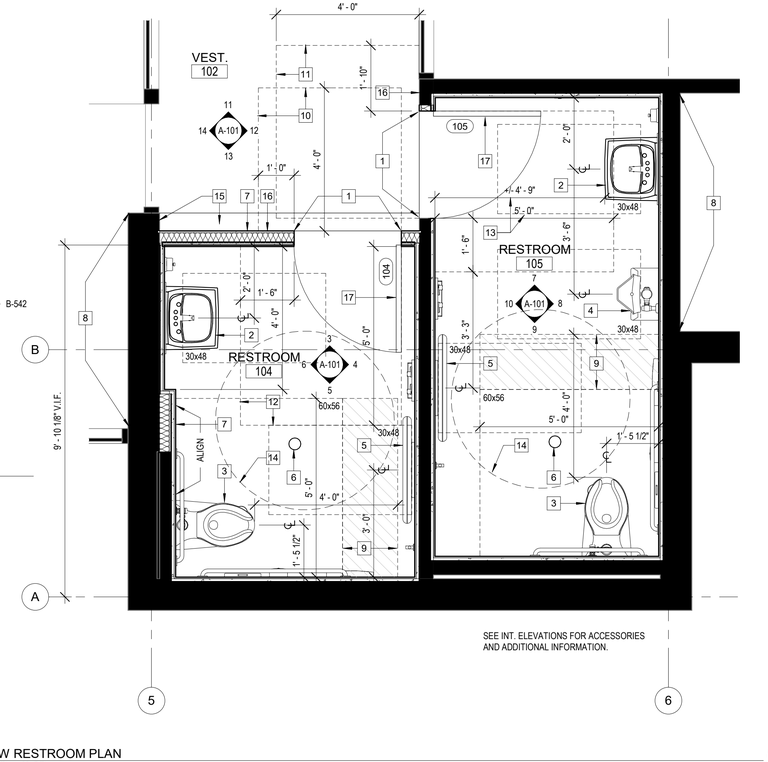


1 DEMO RESTROOM PLAN 1/2" = 1'-0"

SEE DEMOLITION NOTES SHT. A-602

DEMO RESTROOM PLAN DRAWING NOTES

1. REMOVE (E) RESTROOM DOORS AND FRAMES, PROVIDE DISPOSAL.
2. REMOVE (E) WALL-HUNG LAVATORIES, STORE AND PROTECT FOR RE-USE.
3. REMOVE (E) WALL-HUNG W.C.'S, STORE AND PROTECT FOR RE-USE.
4. REMOVE (E) WALL-HUNG URINAL, STORE AND PROTECT FOR RE-USE.
5. REMOVE (E) BABY-CHANGING TABLES, STORE AND PROTECT FOR RE-USE.
6. (E) FLOOR DRAINS, PROTECT IN PLACE, PREP. FOR NEW WORK.
7. REMOVE (E) COMPARTMENT PARTITIONS AND DOORS, PROVIDE DISPOSAL.
8. (E) INTERIOR STRUCTURAL WALLS, PROTECT IN PLACE.
9. REMOVE (E) RESTROOM DOOR AUTO-ACTUATORS, PROVIDE DISPOSAL, PATCH, REPAIR AND REFINISH WALL AS NEEDED.
10. REMOVE (E) TOILET ROOM ACCESSORIES, MIRRORS, AND GRAB BARS, COORDINATE SALVAGED ITEMS FOR RE-USE.
11. REMOVE (E) PARTITIONS, PROVIDE DISPOSAL, PROVIDE SHORING, PROTECT ADJACENT FLOOR, WALL, AND CEILING FINISHES IN PLACE DURING CONSTRUCTION, PREP. FOR NEW WORK.
12. REMOVE (E) RESTROOM WALL FINISHES AND SUBSTRATES, PROVIDE DISPOSAL, PREP. FOR NEW WORK.
13. REMOVE (E) RESTROOM FLOOR FINISHES AND SUBSTRATES, PROVIDE DISPOSAL, PREP. FOR NEW WORK.



SEE INT. ELEVATIONS FOR ACCESSORIES AND ADDITIONAL INFORMATION.

2 NEW RESTROOM PLAN 1/2" = 1'-0"

NEW RESTROOM PLAN DRAWING NOTES

1. NEW RESTROOM DOORS AND FRAMES, SEE SCHEDULE.
2. REPLACE ACCESSIBLE WALL-HUNG LAVATORIES, PROVIDE CLEAR FLOOR SPACE, 30"X48" MIN., PER FIGURE 11B-305.5(a), FORWARD APPROACH. THE CLEAR SPACE INCLUDES KNEE AND TOE CLEARANCES PER 11B-305.4, S.P.D.
3. REPLACE ACCESSIBLE WALL-HUNG W.C.'S, PROVIDE 17"-18" CLR. FROM ADJACENT FIN. TO C.L. W.C. PER FIG. 11B-604.2(a). PROVIDE MANEUVERING SPACE AT W.C. PER FIGURE 11B-604.3.1, 60"X56" MIN., S.P.D.
4. REPLACE ACCESSIBLE WALL-HUNG URINAL, PROVIDE CLEAR FLOOR SPACE, 30"X48" MIN., PER FIGURE 11B-305.5(a), FORWARD APPROACH., S.P.D.
5. REPLACE ACCESSIBLE BABY-CHANGING TABLES, PROVIDE CLEAR FLOOR SPACE, 30"X48" MIN., PER FIGURE 11B-305.5(a), FORWARD APPROACH.
6. PROVIDE NEW FLOOR DRAINS COVERS, FLUSH W/ NEW FLOORING, S.P.D.
7. NEW PARTITIONS AND FRMG. AS REQUIRED, PROVIDE NEW SUBSTRATES AND FINISHES AT FLOORS, WALLS, AND CEILINGS, TYP., PROVIDE SOUND ATTENUATING BATTS. ALIGN FIN. SURFACES, PROVIDE FURRING AS REQ'D.
8. (E) INTERIOR STRUCTURAL WALLS, PROTECT IN PLACE.
9. PROVIDE 48" MIN. IN FRONT OF W.C.'S PER FIGURE 11B-604.3.1, S.P.D.
10. MANEUVERING CLEARANCES SHALL BE PER FIGURE 11B-404.2.4.1(c) FOR FRONT APPROACH AT PUSH SIDE OF DOOR PROVIDED W/ BOTH CLOSER AND LATCH.
11. MANEUVERING CLEARANCES SHALL BE PER FIGURE 11B-404.2.4.1(g) FOR HINGE APPROACH AT PUSH SIDE OF DOOR PROVIDED W/ BOTH CLOSER AND LATCH.
12. MANEUVERING CLEARANCES SHALL BE PER FIGURE 11B-404.2.4.1(a) FOR FRONT APPROACH AT PULL SIDE OF DOOR.
13. MANEUVERING CLEARANCE PER FIGURE 11B-404.2.4.1(a) IN THE DIRECTION OF APPROACH IS TECHNICALLY INFEASIBLE AT RESTROOM DOOR #105 DUE TO (E) INT. STRUCTURAL WALL, ACTUAL CLEARANCE IS APPROX. 57", SEE PLAN, CLEARANCE OF 18" MIN. AT LATCH IS FEASIBLE AND SHALL BE PROVIDED.
14. PROVIDE CIRCULAR TURNING SPACE, PER 11B-304.3.1, THE TURNING SPACE SHALL BE 60" DIAM. MIN., THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306. OVERLAP OF CLEAR FLOOR SPACE AND TURNING SPACE IS PERMITTED PER 11B-603.2.2. DOOR SWING SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE BY 12" MAX. PER 11B-603.2.3.
15. PATCH FINISHES TO MATCH ADJACENT (E) FLOOR, WALL, AND CEILING FINISHES AT NEW PARTITION, ALIGN FINISH SURFACES, TYP., PROVIDE SUBSTRATES AND INSTALLATION PER MANUF. REQ'MTS.
16. PROVIDE ACCESSIBLE WALL SIGNS AT RESTROOMS, SIGN TYPE "J", VERIFY WALL SIGN LOCATION FOR ROOM 105 PRIOR TO INSTALL.
17. PROVIDE ACCESSIBLE DOOR SIGNS AT RESTROOM DOORS, SIGN TYPE "D".

BISBEE
ARCHITECTURE+DESIGN
Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
NATHAN T. BISBEE
C-29501
REN. 11/30/25
STATE OF CALIFORNIA

SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

RESTROOM FLOOR PLANS & INTERIOR ELEVATIONS

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-101

8/20/2024 7:01:55 PM

REVIEWED FOR CODE COMPLIANCE
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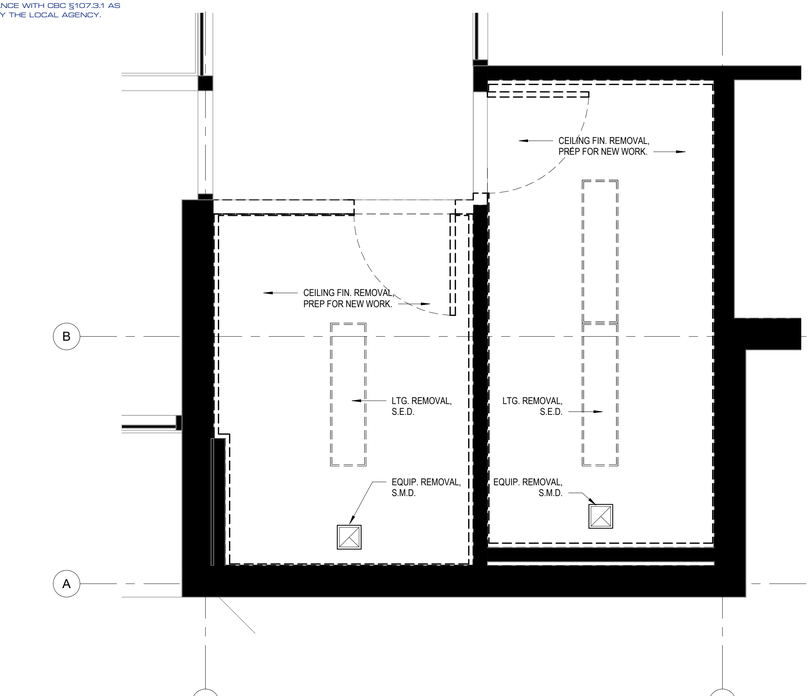
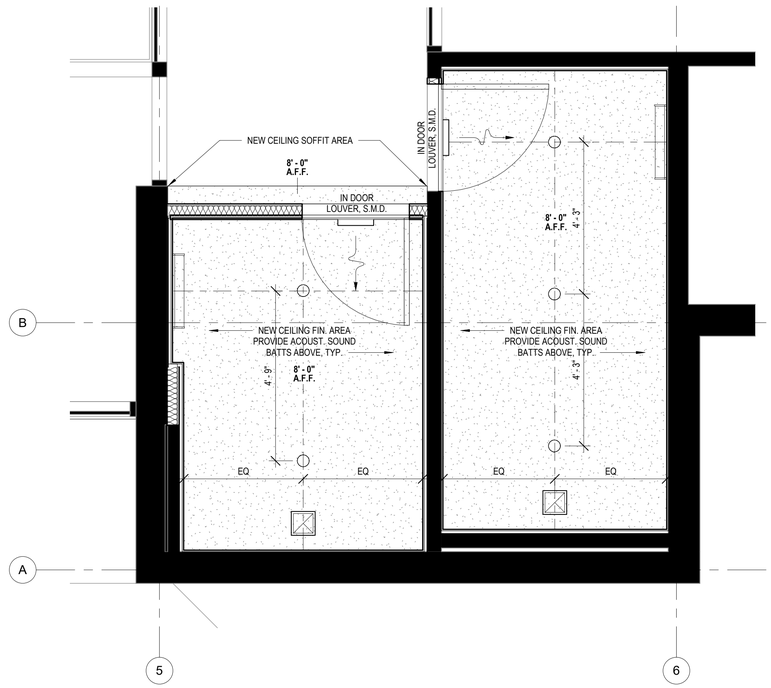


1 DEMO RESTROOM REFLECTED CEILING PLAN
1/2" = 1'-0"

SEE DEMOLITION NOTES SHT. A-602



2 NEW RESTROOM REFLECTED CEILING PLAN
1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- NEW GYPSUM BOARD CEILING, PAINTED FINISH SMOOTH, LEVEL 5 FIN. MIN., TYP. COLOR AND SHEEN AS SELECTED FROM FULL-RANGE
- RECESSED LED LIGHT FIXTURE, CEILING INLAY, S.E.D.
- PENDANT LINEAR LED LIGHT FIXTURE, S.E.D.
- SURFACE-MOUNTED LED LIGHT FIXTURE, S.E.D.
- RECESSED LED DOWNLIGHT FIXTURE, S.E.D.
- INT. WALL-MOUNTED LED LIGHT FIXTURE, S.E.D.
- INT. WALL-MOUNTED LED LIGHT FIXTURE, S.E.D
- 2' X 2' SUPPLY AIR DIFFUSER, CEILING INLAY, S.M.D.
- 2' X 2' RETURN AIR GRILLE, CEILING INLAY, S.M.D.
- SUPPLY / RETURN WALL AIR GRILLE, S.M.D.
- EXHAUST FAN/GRILLE, CEILING INLAY, S.M.D.

EQUIP. LAYOUTS SHOWN FOR REF. AND COORD., S.E.D., S.M.D.
SEE ELECTRICAL PLANS FOR COMPLETE LIGHTING SCHEDULE, FIXTURE TYPES, CONTROLS AND SPECIFICATIONS, TYP.

REFLECTED CLG. PLAN GENERAL NOTES

1. SEE INT. ELEVS AND FINISH SCHEDULE FOR ADDT'L. INFO.
2. INSTALL LED LIGHT FIXTURES PER MANUF. REQUIREMENTS, TYP. FIELD VERIFY LTG. LOCATIONS AND COORDINATE WITH CEILINGS AND OVERHEAD EQUIPMENT PRIOR TO INSTALL. FIXTURES SHALL BE UL LISTED FOR ZERO CLEARANCE INSUL. CONTACT. LIGHTING CONTROLS, TESTING AND VERIFICATION SHALL COMPLY WITH TITLE-24 AND CALGREEN CODE.
3. EXTERIOR LIGHT FIXTURES SHALL BE UL-LISTED FOR OUTDOOR USE, S.E.D.
4. PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, SUPPORT WIRES AND SPLAY BRACING FOR LIGHT FIXTURES, MECH. EQUIPMENT, AND ALL OTHER ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
5. COORDINATE LAYOUT OF ALL CONCEALED ABOVE CEILING EQUIPMENT, SYSTEMS AND DEVICES PRIOR TO INSTALLATION TO AVOID CONFLICTS / INTERFERENCES AND TO PROVIDE CLEAR ACCESS FOR MAINTENANCE, SERVICE AND REPAIRS. FIELD VERIFY LOCATIONS AND COORDINATE WITH OTHER EQUIPMENT AND STRUCTURAL ELEMENTS PRIOR TO INSTALL, S.E.D., S.M.D., S.P.D.
6. FOR ALL (N) MECHANICAL, PLUMBING, ELECTRICAL WORK, PROVIDE ACCESS PANELS AS REQUIRED, TYP. FINISH TO MATCH ADJACENT SURFACE, TYP.
7. ARCH'L. LIGHTING LAYOUTS AND HVAC EQUP. LAYOUTS ARE DIAGRAMMATIC, PROVIDED FOR COORDINATION. FINAL ELECTRICAL SYSTEM DESIGN AND CODE COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER AND THE MECHANICAL ENGINEER, S.E.D., S.M.D.
8. BATHROOM EXHAUST FANS, DUCT TO OUTSIDE, W/ MIN. VENTILATION RATE OF 50 CFM. SIZE DUCTING PER ASHRAE STANDARD 62.2, TBL. 7.1, AND PER CEnC 150.0(o). TERMINATE MIN. 3' FROM OPENINGS AT EXTERIOR, CMC 802.8, OR AS SPECIFIED, S.M.D.
9. IF REQ'D., CEILING FINISHES, OTHER THAN GYP. BD., SHALL BE APPLIED BELOW BELOW THE LAYER(S) OF GYP. BD. REQUIRED FOR RATED ROOF ASSEMBLIES AND RATED CEILING ASSEMBLY, TYPICAL. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECS. 714.3 & 714.4.
10. AUDIO-VISUAL, DATA, AND SECURITY SYSTEMS BY OWNER.

BISBEE
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REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

RESTROOM REFLECTED CEILING PLANS

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-102

8/20/2024 7:02:28 PM

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
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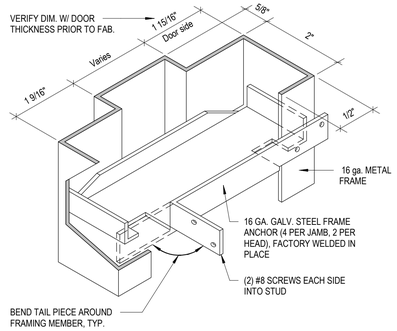
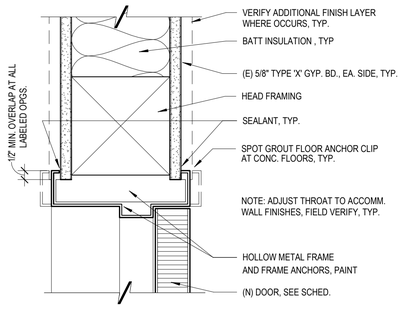
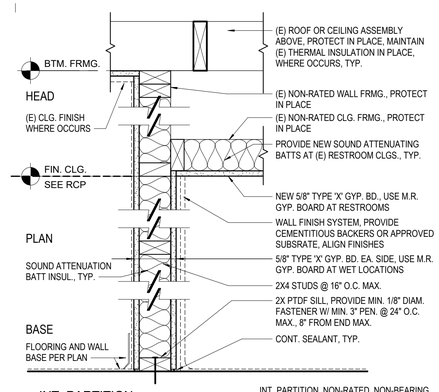


9 H.M. DOOR FRAME
3" = 1'-0"



5 H.M. DOOR FRAME HEAD - JAMB SIM.
3" = 1'-0"



1 INT. PARTITION
1 1/2" = 1'-0"

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629 Fourth Street, #A
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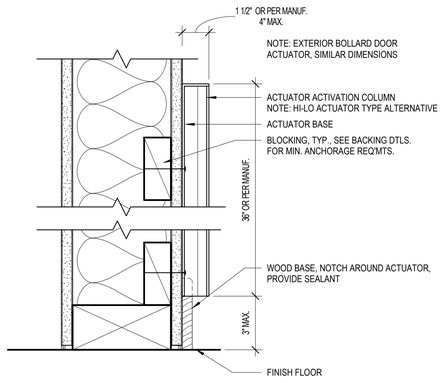
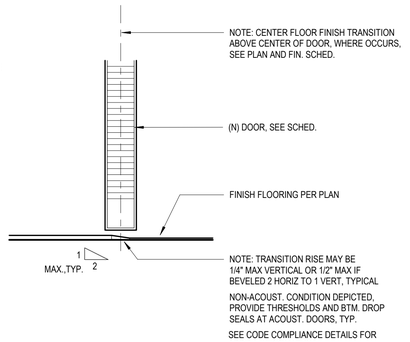
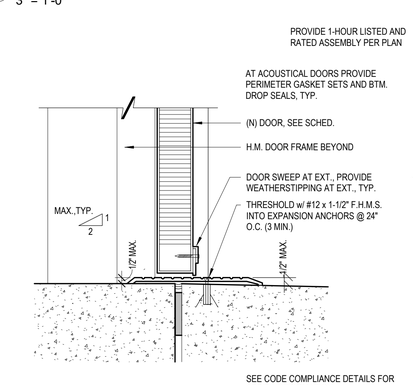


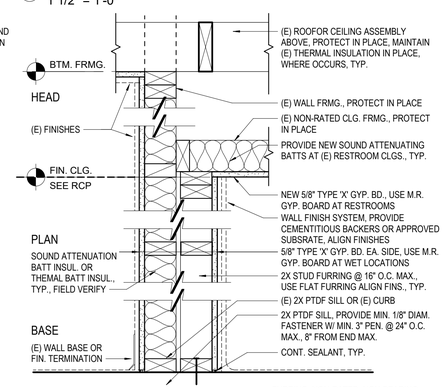
14 DOOR ACTUATOR
3" = 1'-0"



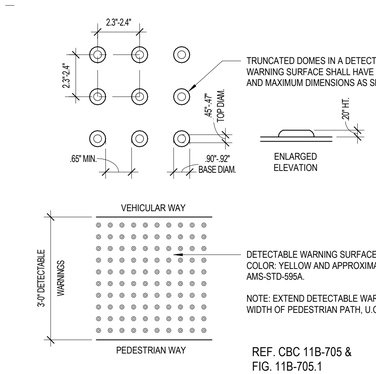
10 TRANSITION AT DOOR
3" = 1'-0"



6 H.M. DOOR FRAME THRESHOLD
3" = 1'-0"

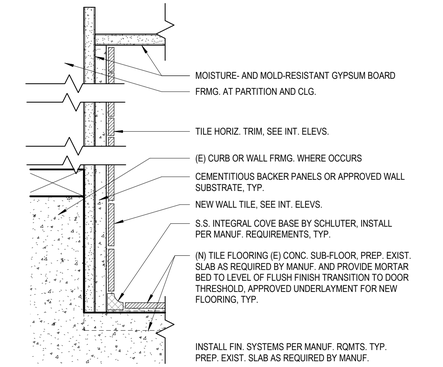


2 INT. FURRING
1 1/2" = 1'-0"

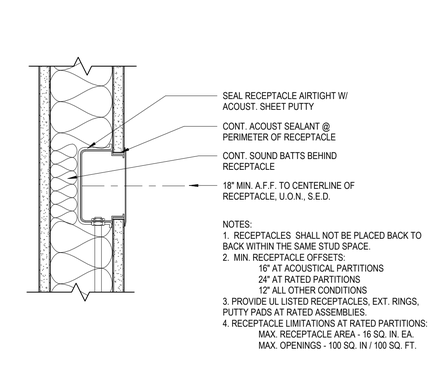


REF. CBC 11B-705 &
FIG. 11B-705.1

19 DETECTABLE WARNINGS
NTS



15 TILE BASE AND WALL FINISHES
3" = 1'-0"



11 RECEPTACLE @ INT. PARTITION
3" = 1'-0"

BLOCKING REQUIREMENTS

1. COORDINATE LOCATION, LENGTH, HEIGHT, WIDTH, AND EXTENT OF BLOCKING W/ ITEMS INDICATED IN THE DRAWINGS. IF BLOCKING IS NOT INDICATED IN THE DRAWINGS OR SPECIFICATION THEN REFER TO THE LIST BELOW AND MANUF. RECOMMENDATIONS. VERIFY REQUIREMENTS WITH ACCESSORY EQUIPMENT MANUFACTURER(S). SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS .
2. USE # 14 MIN. SCREWS 1-1/2" MIN EMBEDMENT (PAN OR FLAT HEAD AS REQ'D) U.O.N. WHEN ATTACHING ITEMS TO WOOD BLOCKING AND INSTALL PER ITEM MFR.
3. BACKING BLOCKS SHALL BE TYPICALLY LOCATED AT THE CENTERLINE OF ANCHORS.
4. REFER TO TYPICAL MOUNTING HEIGHTS ELEVATION FOR THE PROPER MOUNTING HEIGHTS OF EQUIPMENT, FIXTURES, SIGNAGE, ETC.
5. AT EXISTING CONDITIONS REMOVE EXISTING FINISH AS NECESSARY TO INSTALL BACKING BLOCKS AS INDICATED. PATCH AND PAINT TO MATCH ADJACENT FINISH.
6. USE 2X FULL DEPTH STUDS MIN. AT WOOD FRAMED WALLS AND 16 GA MIN AT MT'L FRAMED WALLS WHERE BACKING IS REQUIRED. REFER ALSO TO WALL TYPES SHOWN ON FLOOR PLAN.

TYPE A BACKING REQUIRED FOR THE FOLLOWING:

-WALL MOUNTED GRAB BARS
- WALL MOUNTED HAND RAILS AND GUARD RAILS
- UPPER WALL HUNG CASEWORK AND SHELVING
- FULL HEIGHT CASEWORK AND SHELVING
- HIGH-DENSITY STORAGE UNITS
- OPEN COUNTER TOPS
- WALL MOUNTED SHELVES
- WALL MOUNTED BENCHES
- FLATSCREEN TELEVISIONS
- ANY WALL MOUNTED EQUIPMENT THAT WEIGHS LESS THAN 200 LBS. WHEN FULLY LOADED AND DOES NOT EXCEED 100 LBS. PER LINEAR FOOT LOAD ON THE PARTITION.

USE 4X4 BLKG. TOP AND BTM. BETWEEN ADJACENT STUDS, USE 2-A34 CLIPS EA. END, USE 4-16d END NAILS AT EA. STUD.

TYPE B BACKING REQUIRED (CONTINUED):

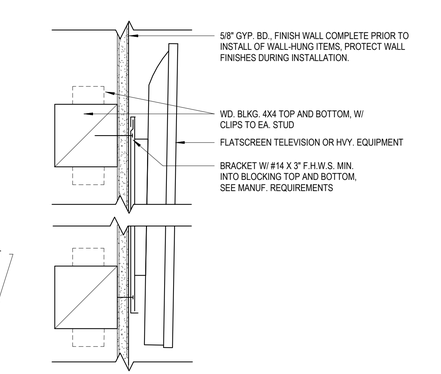
- TOILET ROOM ACCESSORIES
- TOILET SEAT COVER DISPENSERS
- MIRRORS
- SOAP AND PAPER TOWEL DISPENSERS
- MARKER BOARDS/BULLETIN BOARDS
- MOP RACK
- BUMPER RAILS/CRASH RAILS
- DOOR STOPS/DOOR HOLD OPENS
- RECESSED AND SURFACE MOUNTED FIRE EXTINGUISHERS AND THEIR CABINETS
- SIDE SUPPORTED SHELVES (SUCH AS IN COAT CLOSET)
- LOWER CASEWORK NOT EXCEEDING 36" IN HEIGHT AND SUPPORTED AT ITS FRONT EDGE

USE 2X6 BLKG. TOP AND BTM. BETWEEN ADJACENT STUDS, USE A35 CLIP EA. END, USE 3-16d END NAILS AT EA. STUD.

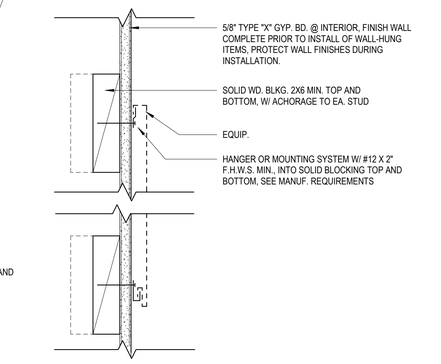
ANCHORAGE REQUIREMENTS

1. FIELD VERIFY REQUIRED DIMENSIONS AND EXISTING CONDITIONS. COORDINATE WITH SUPPORTING CONSTRUCTION TO ENSURE ADEQUATE BLOCKING AND SUPPORT. ADD FULL HEIGHT STUDS IN WALLS AS NECCESARY TO TRANSFER LOADS TO FLOOR AND STRUCTURE ABOVE AND WHERE VERTICAL BLOCKING IS NECESSARY.
2. DO NOT BEGIN UNTIL SUPPORTING CONSTRUCTION AND SUBSTRATES HAVE BEEN PROPERLY PREPARED. NOTIFY ARCHITECT OF UNSATISFACTORY CONDITIONS BEFORE COMMENCING WORK.
3. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING REINFORCED CONCRETE, AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. MAINTAIN MINIMUM CLEARANCE OF 1" BETWEEN REINFORCING AND ANCHORS.
4. ALL PIPING AND DUCTS SHALL BE SECURED TO BUILDING STRUCTURE AS REQUIRED BY SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" AND PER MECHANICAL AND PLUMBING CODES, U.O.N.
5. SUPPORT DEVICES IN ACCORDANCE WITH MOUNTING DETAILS SHOWN ON DRAWINGS. WHERE MOUNTING DETAILS ARE NOT PROVIDED, COMPLY WITH NUSIG - NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES.
6. FOR WATER HEATER SUPPORT AND ANCHORAGE REQ'MTS., REFER TO MANUF. REQ'MTS.

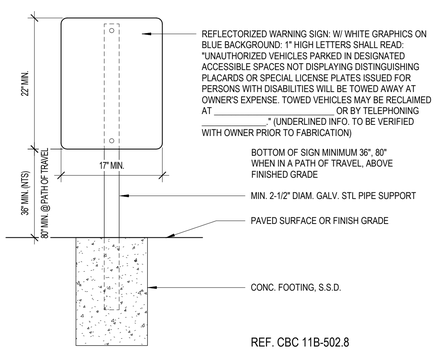
8 BACKING NOTES
1 1/2" = 1'-0"



3 EQUIP. BACKING TYPE A
3" = 1'-0"

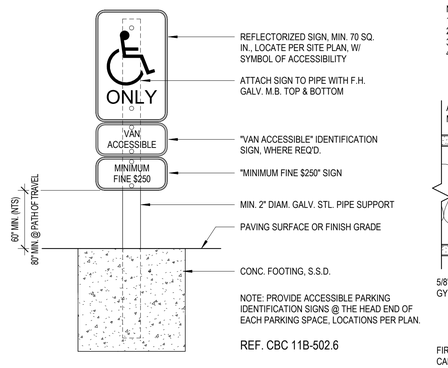


4 EQUIP. BACKING TYPE B
3" = 1'-0"



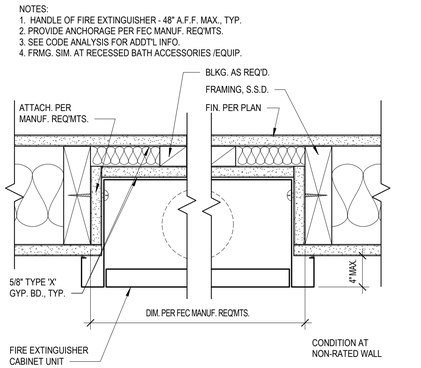
REF. CBC 11B-502.8

20 PARKING WARNING SIGN
1" = 1'-0"



REF. CBC 11B-502.6

16 ACCESSIBLE PARKING SIGN
1 1/2" = 1'-0"



12 FIRE EXTINGUISHER CABINET
3" = 1'-0"

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

DETAILS

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-501

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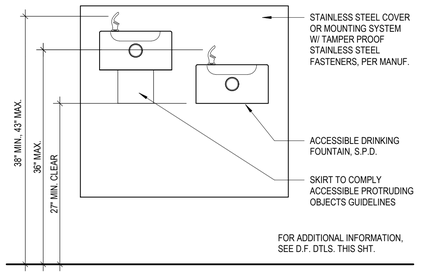


17 D.F. ELEV VIEW
1" = 1'-0"

SIGNAGE NOTES

1. ALL ROOM IDENTIFICATION AND EXIT SIGNS SHALL HAVE BOTH RAISED LETTERS AND DUPLICATED BRAILLE MESSAGES. LETTERS AND NUMERALS SHALL BE RAISED 1/32" AND SANS SERIF UPPERCASE CHARACTERS BETWEEN 5/8" AND 2" IN HEIGHT.

2. LETTER STYLE SHALL BE SANS SERIF UPPERCASE. STROKE THICKNESS SHALL BE 15% MAX. OF CHARACTER HEIGHT (LETTER "I"). CHARACTER WIDTH OF LETTER "O" SHALL BE BETWEEN 60% AND 110% PERCENT OF CHARACTER HEIGHT OF LETTER "I". LETTERS SHALL BE IN CONTRASTING COLORS TO THE BACKGROUND, 70% CONTRAST COLOR SHALL BE AS SELECTED BY THE ARCHITECT. CHARACTER SPACING PER CBC 11B-703.2.7 & 11B-703.2.8.

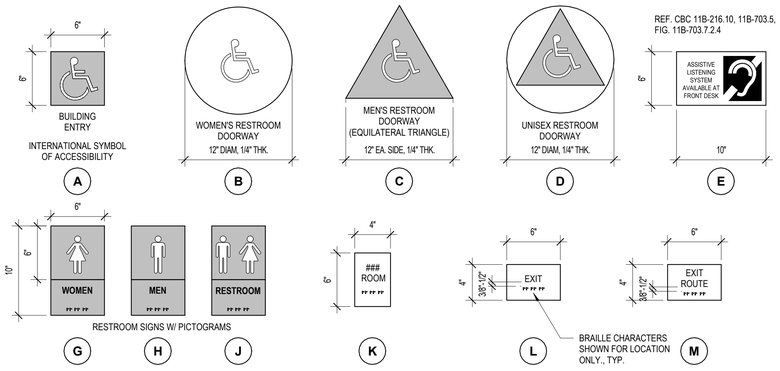
3. BRAILLE SHALL BE CONTRACTED GRADE 2. BRAILLE SHALL COMPLY WITH CBC 11B-703.3 & 11B-703.4 AND BRAILLE DIMENSIONS PER TBL. 11B-703.3.1. ALL BRAILLE COMPONENTS SHALL BE AN INTEGRAL PART OF THE SIGN. APPLIED STRIPS ARE NOT ACCEPTABLE.

4. THE SIGNS INDICATED ARE FOR CONCEPT & CONTENT ONLY. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS SHALL SHOW EXACT LAYOUT & CONTENT.

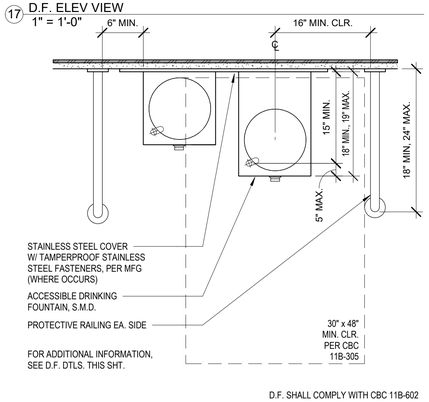
5. SIGNS SHALL HAVE A NON-GLARE FINISH.

6. BRAILLE SHALL BE CENTERED BELOW RAISED CHARACTERS WITH A 3/8" - 1/2" SPACE BETWEEN.

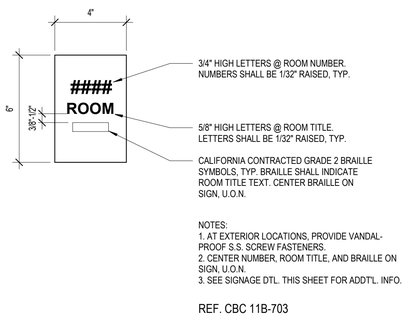
7. GEOMETRIC RESTROOM SYMBOLS: THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 58"-60". THEIR COLORS SHALL BE DISTINCTLY DIFFERENT FROM EACH OTHER AND SHALL CONTRAST THE COLOR OF THE DOOR. REF. CBC 11B-703.7.2.6.



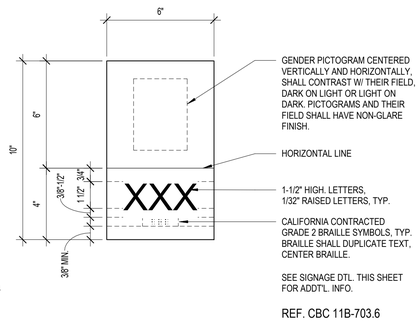
13 SIGNAGE
1 1/2" = 1'-0"



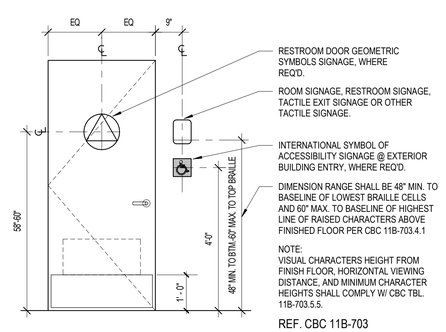
18 D.F. PLAN VIEW
1" = 1'-0"



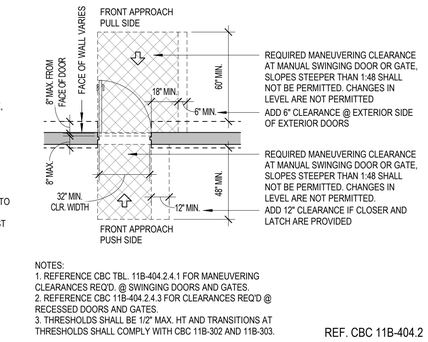
14 ROOM SIGNAGE
3" = 1'-0"



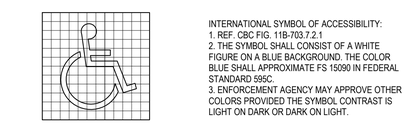
10 TOILET ROOM WALL SIGN
3" = 1'-0"



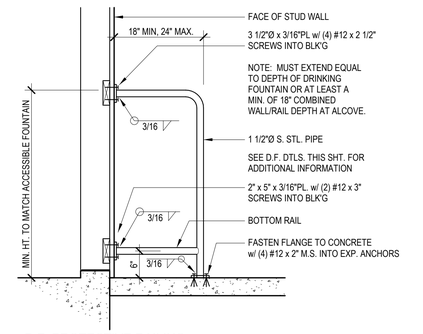
6 TYPICAL DOOR SIGNAGE
1/2" = 1'-0"



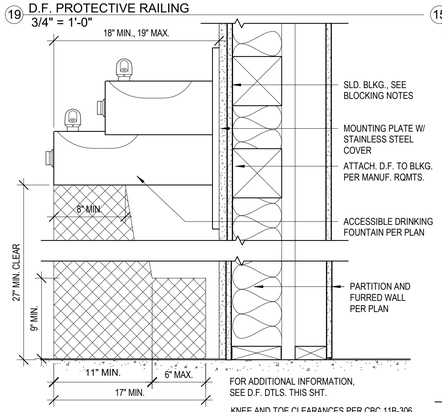
2 ACCESSIBLE CLEARANCES @ DOORS
1/4" = 1'-0"



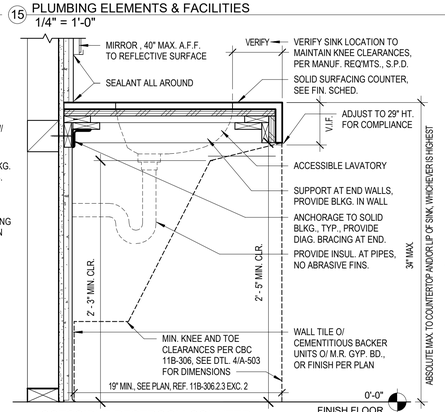
1 SYMBOL OF ACCESSIBILITY
NTS



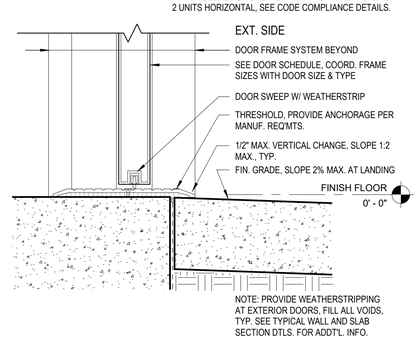
19 D.F. PROTECTIVE RAILING
3/4" = 1'-0"



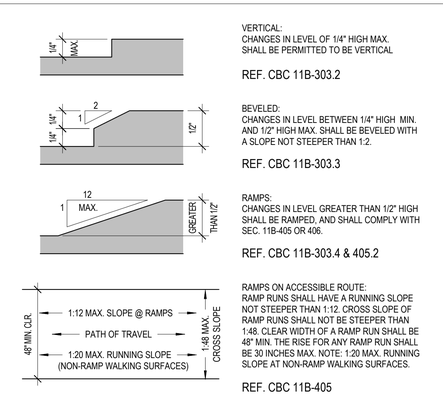
20 D.F. SUPPORT
1 1/2" = 1'-0"



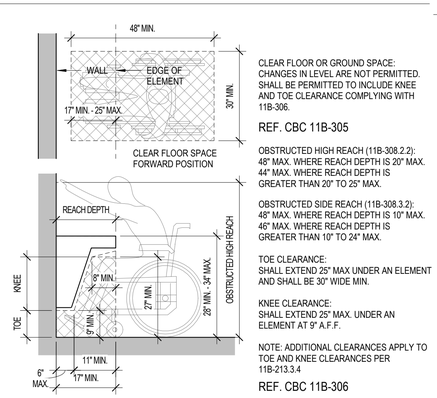
16 ACCESSIBLE RESTROOM COUNTER
1 1/2" = 1'-0"



12 EXT. DOOR @ THRESHOLD
3" = 1'-0"



8 CHANGES IN LEVEL & RAMP RUNS
NTS



4 FLOOR, TOE & KNEE CLEARANCES
1/2" = 1'-0"

PLUMBING ELEMENTS NOTES

1. GENERAL NOTE: THE INSTALLATION OF ALL PLUMBING ELEMENTS & FACILITIES SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS 2022 CALIFORNIA BUILDING CODE, CHPT. 11B. IT IS THE INTENT OF THE DESIGN TO PROVIDE ACCESSIBLE ELEMENTS FOR PERSONS WITH DISABILITIES. HEIGHT, CLEARANCE, AND CONFIGURATION DIMENSIONS INDICATED ON THIS DTL. ARE TYPICAL MAXIMUM OR MINIMUM DIMENSIONS. DIMENSIONS SHOWN ON THIS DTL. TAKE PRECEDENCE OVER MOUNTING HEIGHTS SHOWN ON MECHANICAL OR ELECTRICAL DRAWINGS, U.O.N. SEE PLANS, ELEVATIONS OR UNIQUE PROJECT DETAILS FOR ADDT'L. INFO. FOR TYPICAL REQUIRED FLOOR, TOE & KNEE CLEARANCES, SEE DTL. THIS SHEET.

2. BATHROOM ACCESSORIES: 3" MAX. PROJECTION OF ACCESSORIES INTO THE REQUIRED CLEAR SPACES WHEN LOCATED BELOW 27" A.F.F. PROJECTIONS SHALL COMPLY WITH THE LIMITS OF PROTRUDING OBJECTS CBC 11B-307. STOPS ARE NOT PERMITTED AT TOILET PAPER HOLDER. BOTTOM OF REFLECTIVE SURFACE OF MIRROR SHALL BE 40" MAX. A.F.F., REF. CBC 11B-603.3.

3. LAVATORY: FAUCET CONTROLS, IF USED, SHALL BE ACCESSIBLE LEVER-TYPE AT LAVATORY. APPROVED INSULATION SHALL BE INSTALLED AT HOT WATER LINES AT LAVATORY TOE & KNEE SPACE.

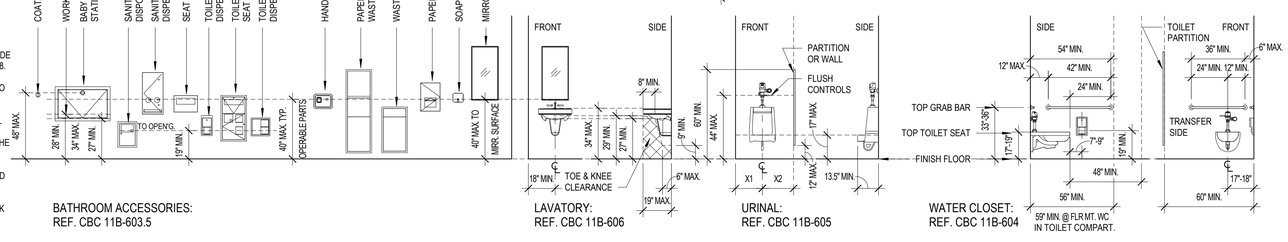
4. WATER CLOSET: LEVER CONTROLS, IF USED, SHALL BE ACCESSIBLE AND LOCATED ON THE TRANSFER SIDE OF WATER CLOSET. FOR ADDITIONAL REQ'MTS. @ TOILET COMPARTMENTS REF. CBC 11B-213.3.1 & 11B-604.8.

5. GRAB BARS: PROVIDE 1-1/2" CLEARANCES ALL-AROUND GRAB BARS, TYP. GRAB BARS MAY ENROACH INTO CLEAR SPACE 3" MAX. 18" MIN. CLEAR WALL SPACE SHALL BE PROVIDED ABOVE GRAB BARS, TYP.

6. OPERABLE PARTS: CLEAR FLOOR SPACE PER CBC 11B-305 SHALL BE PROVIDED. OPERABLE PARTS SHALL BE LOCATED WITHIN REACH RANGE PER CBC 11B-308. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST PER 11B-309.4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAX.

7. SUPPORT: PROVIDE BACKING AT ALL BATHROOM ACCESSORIES, SEE BACKING DTLS. PROVIDE APPROVED MOUNTING AND SUPPORT HARDWARE AT PLUMBING FIXTURES, TYP.

8. THIS SHEET MAY ILLUSTRATE ITEMS OR CONFIGURATIONS WHICH DO NOT OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.



15 PLUMBING ELEMENTS & FACILITIES
1/4" = 1'-0"

BISBEE
ARCHITECTURE+DESIGN
Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
NATHAN T. BISBEE
C-29501
REN. 11/30/25
STATE OF CALIFORNIA

SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC. IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

CODE COMPLIANCE DETAILS

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-502

8/20/2024 10:34:4 PM

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

DOOR SCHEDULE

#	DOOR Width	Height	Thickness	Material	Finish	Hardware	FRAME Material	Finish	Comments
101	6' - 0"	7' - 0"	0' - 2"	ALUM./GLASS	(E)	2	ALUM.	(E)	(E) AUTO SLIDING ENTRY DOOR SYSTEM, BY OTHERS
104	3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	STAINED	1	H.M.	PAINTED	NEW INT. RESTROOM DOOR, MATCH (E) FINISHES, PROVIDE LOUVERS, S.M.D.
105	3' - 0"	7' - 0"	0' - 1 3/4"	SC WOOD	STAINED	1	H.M.	PAINTED	NEW INT. RESTROOM DOOR, MATCH (E) FINISHES, PROVIDE LOUVERS, S.M.D.
109A	3' - 0"	7' - 0"	0' - 2"	ALUM./GLASS	(E)	3	ALUM.	(E)	(E) INT. GLASS DOOR, ADJUST CLOSER SPEED AND MAX. EFFORT AS NEEDED
109B	3' - 0"	7' - 0"	0' - 2"	ALUM./GLASS	(E)	4	ALUM.	(E)	(E) INT. GLASS EXIT DOOR, ADJUST CLOSER SPEED AND MAX. EFFORT AS NEEDED
111	3' - 0"	7' - 0"	0' - 2"	ALUM./GLASS	(E)	5	ALUM.	(E)	(E) EXT. GLASS EXIT DOOR, ADJUST CLOSER SPEED AND MAX. EFFORT AS NEEDED

DOOR HARDWARE

PRELIMINARY DOOR HARDWARE GROUPS:

GROUP 01 PRIVACY LOCKSET, VISUAL INDICATOR, CLOSER, KICKPLATES

GROUP 02 (E) AUTO SLIDING ENTRY DOOR HARDWARE

GROUP 03 ENTRY PUSHPLATE, LOCK, CLOSER, KICKPLATES (12" X FULL WIDTH)

GROUP 04 EXIT PANIC DEVICE, LOCK, CLOSER, KICKPLATES (12" X FULL WIDTH)

GROUP 05 EXIT PANIC DEVICE, LOCK, CLOSER, KICKPLATES (12" X FULL WIDTH)

GROUP 06 GATE PANIC DEVICE, LOCK, CLOSER, KICKPLATES

GROUP 07 GATE LOCKSET, CLOSER, KICKPLATES

DOOR HARDWARE NOTES:

1. DOOR HARDWARE CONSULTANT / SPECIALIST SHALL PREPARE COMPLETE HARDWARE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE HARDWARE SUBMITTAL FOR OWNER AND ARCHITECT REVIEW.

2. BASIS OF DESIGN: SCHLAGE ND SERIES, DESIGN: MATCH (E) BUILDING, FINISH: MATCH (E) BUILDING.

3. DOOR HARDWARE SHALL BE ACCESSIBLE. SEE DOOR & WINDOW GENERAL NOTES FOR ADDT'L. INFO. THIS SHEET.

4. INCLUDE FOUR (4) BUTTS AND ONE (1) STOP PER LEAF, PROVIDE OVERHEAD STOP WHERE REQ'D. HEAVY DUTY HINGES, TYP.

5. INSTALL NON-REMOVABLE (NPR) PIN HINGES, TYP. PROVIDE PIANO HINGES IF REQUIRED BY OWNER. 180-DEGREE HINGES AT HOLDING ROOM EXT. DOORS.

6. PANIC HARDWARE AND/OR FIRE EXIT HARDWARE SHALL COMPLY WITH CBC 1010.1.10.

7. COORDINATE ADDT'L. SECURITY REQ'MTS., CARD READER DEVICES, LOCATIONS AND POWER REQ'MTS. W/ OWNER.

8. PROVIDE ACCESSIBLE, HEAVY-DUTY THRESHOLD ASSEMBLIES.

9. PROVIDE KEYWAY AND KEYING PER OWNER.

10. PROVIDE SELF-CLOSING, SELF-LATCHING HARDWARE AT ALL LOCATIONS INDICATED W/ CLOSER.

11. SEE LANDSCAPE DRAWINGS FOR GATE DESIGN, HARDWARE GROUPS 06 AND 07 ABOVE ARE FOR GATES.

WINDOW & DOOR GENERAL NOTES

1. STEEL DOORS AND LOUVERS: PROVIDE HOLLOW-METAL FULL-WELDED FRAMES BY STEELCRAFT OR EQ., PAINTED FIN., COLOR: AS SELECTED FROM FULL-RANGE OF AVAILABLE COLORS.

2. THRESHOLDS IN ACCESSIBLE PATH OF TRAVEL TO BE IN CONFORMANCE WITH CBC 11B-404.2.5 & 11B-303. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL (50% SLOPE). CHANGE IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.

3. MAXIMUM CLOSER-EFFORT: 5 LBS. EXTERIOR DOORS AND INTERIOR DOORS; NOT TO EXCEED 15 LBS. FOR FIRE DOORS PER CBC 11B-404.2.9. THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING, BUT NOT TO EXCEED 15 LBS. MAXIMUM.

4. DOOR CLOSERS TO COMPLY WITH CBC 11B-404.2.8, CLOSER DELAY TIME; 5 SECONDS MINIMUM TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF THE LATCH.

5. OVERHEAD DOOR STOPS SHALL BE PROVIDED. FLOOR STOPS, IF USED, SHALL NOT BE LOCATED IN THE PATH OF TRAVEL. OVERHEAD DOOR STOPS SHALL BE INSTALLED AT A MINIMUM OF 78 INCHES ABOVE THE FINISH FLOOR OR GROUND PER CBC 11B-307.4, EXC.

6. HAND-ACTIVATED HARDWARE SHALL BE INSTALLED BETWEEN 34" TO 44" A.F.F. PER 11B-404.2.7. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST PER 11B-309.4. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAX.

7. CONCEAL ALL POWER, CONTROL AND SECURITY CONNECTIONS IN WALLS, CEILINGS, STOREFRONT SYSTEM, CURTAIN WALL SYSTEM OR DOOR FRAMES; EXPOSED CONDUITS OR CONDUCTORS WILL NOT BE ACCEPTED.

8. INTERIOR DOORS: BY OSHKOSH OR EQ., PROVIDE 1-3/4" SOLID CORE, SELF-CLOSING, SELF-LATCHING DOORS. W/ LOUVERS, PAINTED FIN., S.M.D.

9. CONTRACTOR SHALL VERIFY ROUGH OPENING DIMENSION REQUIREMENTS PRIOR TO ROUGH FRAMING, COORD. W/ STOREFRONT AND DOOR FRAME MANUF. REQ'MTS., TYP.

BISBEE
ARCHITECTURE+DESIGN

Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
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SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

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REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

DOOR SCHEDULE & NOTES

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-601

8/2/2024 7:04:48 PM

FINISH CODE LIST

MARK	DESCRIPTION / LOCATION	MANUFACTURER	COLOR / NOTES
FLOORING			
CPT1	CARPET TILE	MATCH (E)	MATCH (E), PROVIDE SUBSTRATE PREP & FLUSH ALUM TRANSITION BY SCHLUTER
T1	PORCELAIN TILE	DALTILE	STYLE: KEYSTONES, SIZE: HEXAGON 2", 1/4" THK., MATTE, COLOR: URBAN PUTTY SPECKLE D201, EPOXY GROUT BY CUSTOM, COLOR: CHATEAU 183, VERIFY COLORS THRU SUBMITTAL
BASE			
B1	RESILIENT BASE	MATCH (E)	MATCH (E) TYPE, SIZE, AND COLOR
B2	METAL COVE BASE	SCHLUTER	DILEX EHK U9/O9 INTEGRAL COVE, STAINLESS STEEL
WALL			
P1	PAINTED FINISH: (E) VESTIBULE AREAS, WALL	MATCH (E)	MATCH (E) TEXTURE, COLOR, AND SHEEN
PP1	PLASTIC PANELING	INPRO OR EQ.	TO BE DETERMINED
T2	CERAMIC TILE: NEW RESTROOMS	DALTILE	STYLE: COLOR WHEEL LINEAR, SIZE: 2X8 VERTICAL, COLOR: DESERT GRAY X114, EPOXY GROUT BY CUSTOM, COLOR: CAPE GRAY 546, VERIFY COLORS THRU SUBMITTAL
T3	CERAMIC TILE: NEW RESTROOMS	DALTILE	STYLE: COLOR WHEEL LINEAR, SIZE: 2X8 VERTICAL, COLOR: ARCTIC WHITE 0190, EPOXY GROUT BY CUSTOM, COLOR: BRIGHT WHITE 381, VERIFY COLORS THRU SUBMITTAL
CEILING			
P2	PAINTED FINISH: (E) VESTIBULE AREAS, CEILING	BENJAMIN MOORE	MATCH (E) TEXTURE, COLOR, AND SHEEN
P3	PAINTED FINISH: NEW RESTROOMS, CEILING	BENJAMIN MOORE	COLOR: OC-17 WHITE DOVE, SHEEN: EGGSHELL
MISCELLANEOUS			
DR1	DOOR FINISH	SC WOOD	MATERIAL: MATCH (E) WOOD DOOR SPECIES AND FINISH, PROVIDE LOUVERS, S.M.D.
FR1	DOOR FRAME FINISH, PAINTED	BENJAMIN MOORE OR EQ.	COLOR: MATCH (E) COLOR, SHEEN: SEMI-GLOSS

FINISH SCHEDULE

RM #	RM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
101	ENTRY	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
102	VEST.	CPT1	B1	P1	P2	PROTECT (E) FINISHES IN PLACE, PATCH & REPAIR AS NEEDED, NEW FINISHES TO MATCH (E)
103	READING ROOM	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
104	RESTROOM	T1	B2	T2, T3	P3	PROVIDE 5/8" TYPE 'X' MOISTURE RES. GYP. BOARD & CEMENTITIOUS BACKER UNITS, TYP.
105	RESTROOM	T1	B2	T2, T3	P3	PROVIDE 5/8" TYPE 'X' MOISTURE RES. GYP. BOARD & CEMENTITIOUS BACKER UNITS, TYP.
106	STOR.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
107	UTIL.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
108	SERVICE DESK	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
109	READING ROOM	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
110	TEEN	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
111	CHILDREN'S	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
112	OFFICE	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
113	WORK RM.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
114	CUST.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
115	STAFF	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
116	QUIET	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
117	TOILET	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
118	ELEC.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM
119	CLOS.	(E)	(E)	(E)	(E)	NO WORK THIS ROOM

CODE ANALYSIS

NOTE: ALL SECTIONS OF THE CBC APPLY WHERE REQUIRED. THE SUMMARY BELOW HIGHLIGHTS PORTIONS OF THE APPLICABLE CODE SECTIONS.

OCCUPANCY CLASSIFICATION AND USE (CBC CHPT. 3)

BUILDING OCCUPANCY: ASSEMBLY A-3
OCCUPANCY TYPE: LIBRARY
CONSTRUCTION TYPE: V-B, 1-STORY, NON-SPRINKLERED
EXISTING GROSS FLOOR AREAS:
- EXISTING LIBRARY: 7,327 GSF
- EXISTING PATIO TOTAL OUTDOOR AREA: 1,685 GSF

AREA OF PROPOSED WORK:
- PATIO ALTERATION OUTDOOR AREA OF WORK: 1,420 GSF
- PATIO ALTERATION OCCUPIED AREA: 645 NSF
- RESTROOM ALTERATION AREA: 161 GSF (RESTROOMS)

GENERAL BUILDING HEIGHTS AND AREAS (CBC CHPT. 5)

TYPE OF CONSTRUCTION: V-B, 1-STORY, NON-SPRINKLERED
BUILDING HEIGHT ABOVE GRADE PLANE:
- ALLOWABLE BUILDING HEIGHT: 40' (TBL. 504.3), 1-STORY (TBL. 504.4)
- ACTUAL BUILDING HEIGHT: 24' / 1-STORY **[OK]**

BASIC ALLOWABLE AREA: 9,500 SF (TBL. 506.2.2):
- ACTUAL BUILDING AREA: 7,327 GSF **[OK]**

TYPE OF CONSTRUCTION (CBC CHPT. 6)

TYPE OF CONSTRUCTION: V-B, 1-STORY, NON-SPRINKLERED
FIRE-RESTISTANCE RATING FOR BUILDING ELEMENTS (TBL. 601):
- PRIMARY STRUCTURAL FRAME: 0
- EXTERIOR BEARING WALLS: 0
- INTERIOR BEARING WALLS: 0
- EXTERIOR NON BEARING WALLS AND PARTITIONS: 0* (TBL. 705.5)
- INTERIOR NON BEARING WALLS AND PARTITIONS: 0
- FLOOR CONSTRUCTION: 0
- ROOF CONSTRUCTION: 0

FIRE AND SMOKE PROTECTION FEATURES (CBC CHPT. 7)

MAXIMUM AREA OF EXTERIOR WALL OPENINGS (TBL. 705.8)
- 10' TO LESS THAN 15': UNPROTECTED, NONSPRINKLERED: 15%
- 15' TO LESS THAN 20': UNPROTECTED, NONSPRINKLERED: 25%
- 30' OR GREATER: UNPROTECTED, NONSPRINKLERED: NO LIMIT

FIRE PARTITIONS (SEC. 708): NOT APPLICABLE
PENETRATIONS SHALL COMPLY W/ SEC. 714.
JOINTS SHALL COMPLY W/ SEC. 715.
DUCT PENS. AND AIR TRANSFER OPENINGS SHALL COMPLY 717.
OPENINGS SHALL BE PROTECTED PER SEC. 716, WHERE REQUIRED.
THERMAL AND SOUND-INSULATING MATERIALS (SEC. 720)
- CONCEALED INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 (720.2)

MATERIALS AND CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE (CBC CHPT. 7A)

NON-VHFHSZ, LOCAL RESPONSIBILITY AREA FOR FIRE HAZARD SEVERITY.

INTERIOR FINISHES (CBC CHPT. 8)

INTERIOR WALL AND CEILING FINISH REQ'MTS. BY OCCUPANCY (TBL. 803.13)
- INTERIOR EXIT STAIRWAYS, RAMPS, EXIT PASSAGEWAYS: CLASS A
- CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRS, RAMPS: CLASS A
- ROOMS AND ENCLOSED SPACES: CLASS C

INTERIOR FLOOR FINISH: SHALL BE TESTED PER ASTM E648 OR NFPA 253
- FLOOR FINISHES SHALL BE CLASS II MINIMUM. (804.4.2)
- SMOKE DEVELOPED INDEX SHALL NOT EXCEED 450. (804.4.1)

THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY W/ SEC 720 (807.1)

FIRE PROTECTION AND LIFE SAFETY SYSTEMS (CBC CHPT. 9)

AUTOMATIC FIRE SPRINKLER SYSTEM: NONE IN (E) BUILDING
FIRE EXTINGUISHERS: HAZARD CLASSIFICATION: ORDINARY (MODERATE)
F.E. PLACEMENT FOR CLASS A HAZARDS (TBL. 906.3(1))
- MIN. RATED SINGLE EXTINGUISHER: 2-A
- MAX. FLOOR AREA PER "A": 1,500 SF
- MAX. FLOOR AREA FOR EXTINGUISHER: 11,250 SF
- MAX. TRAVEL DISTANCE TO EXTINGUISHER: 75 FT.

TYPICAL ALL F.E.'S: VALID CERTIFICATION TAG ATTACHED
FIRE ALARM AND DETECTIONS SYSTEMS: SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH 907 AND NFPA 72.
CARBON MONOXIDE DETECTION SHALL BE PER SEC. 915.

MEANS OF EGRESS (CBC CHPT. 10)

MEANS OF EGRESS SIZING:
MAX. FLOOR AREA PER OCCUPANT CALC. (TBL. 1004.5)
- OCCUPANT LOAD FACTOR, LIBRARY READING ROOM: 50 NET
- OCCUPANT LOAD FACTOR, LIBRARY STACK AREA: 100 GROSS

FOR CALCULATED OCC. LOADS: SEE CODE COMPLIANCE PLAN
MIN. WIDTH OF EGRESS COMPONENT CALC. (1005.3.2):
- OCCUPANT LOAD: 45 MOST RESTRICTIVE, SEE CODE COMPLIANCE PLAN
- EGRESS WIDTH REQUIRED: 45 X .2 IN. = 9 INCHES (32" MIN. REQ'D.)
- ACTUAL WIDTH PROVIDED AT MAIN EXIT: 34" **[OK]**

NUMBER OF EXITS REQUIRED MOST RESTRICTIVE: 2 (TBL. 1006.3.3)
- NUMBER OF EXITS PROVIDED: 2 **[OK]**

EXIT ACCESS AND CONFIGURATION, REF. 1007:
- BUILDING DIAGONAL = 124-0" / 2 = 62' MIN. SEPARATION REQ'D.
- ACTUAL EXIT SEPARATION PROVIDED = 62' **[OK]**

STAIRWAYS SHALL HAVE MIN WIDTH OF 48". (1009.3.2)
SIZE OF DOORS SHALL COMPLY WITH 1010.1.1
DIRECTION OF DOOR SWING SHALL BE IN DIRECTION OF TRAVEL WHERE A ROOM OR AREA CONTAINS AN OCCUPANT LOAD OF 50 OR MORE PERSONS (1010.1.2.1)
DOOR OPENING FORCE SHALL COMPLY WITH 1010.1.3
LANDINGS AT DOORS SHALL COMPLY WITH 1010.1.5
THRESHOLDS AT DOORWAYS SHALL COMPLY WITH 1010.1.6
DOOR HARDWARE OPERATION SHALL COMPLY WITH 1010.2.2.
PANIC AND FIRE EXIT HARDWARE SHALL COMPLY WITH 1010.1.10
EXIT SIGNS SHALL COMPLY WITH SECTION 1013.
HANDRAILS AND GUARDS SHALL COMPLY WITH SECS. 1014 AND 1015
EXIT ACCESS TRAVEL DISTANCE:
- MAX. EXIT ACCESS TRAVEL DIST.: 200' (TBL. 1017.2)
- ACTUAL MOST RESTRICTIVE MAX. EXIT ACCESS TRAVEL DIST.: 82' **[OK]**
- AT PATIO ALTERATION AREA: 82' **[OK]**

THE EXIT DISCHARGE SHALL PROVIDE A DIRECT AND UNOBSTRUCTED ACCESS TO A PUBLIC WAY PER 1028.5.

ACCESSIBILITY TO COMMERCIAL BUILDINGS (CBC CHPT. 11B)

DIVISION 2 - SCOPING REQUIREMENTS
PATH OF TRAVEL IMPROVEMENTS IN ALTERATIONS 11B-202.4 APPLIES:
TOILET FACILITIES 11B-213 APPLIES, WHERE REQUIRED.
PLUMBING FIXTURES AND ACCESSORIES 11B-213.3 APPLIES, WHERE REQUIRED.
FIRE ALARMS SYSTEM 11B-215 APPLIES, WHERE REQUIRED.
SIGNS AT MAIN ENTRANCE AND TOILET ROOMS 11B-216.5, 216.6 & 216.8 APPLY.

DIVISION 3 - BUILDING BLOCKS
DIVISION 3 APPLIES, WHERE REQUIRED.
PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF ACCESSIBLE ROUTES 11B-307.5.

DIVISION 4 - ACCESSIBLE ROUTES
DIVISION 4 APPLIES, WHERE REQUIRED.
WALKING SURFACES 11B-403 APPLIES.
DOORS, DOORWAYS AND GATES 11B-404 APPLIES.
- MANEUVERING CLEARANCES 11B-404.2.4, TABLE 11B-404.2.4.1 APPLIES.
- DOOR AND GATE OPENING FORCE 11B-404.2.9 APPLIES.

DIVISION 5 - GENERAL SITE AND BUILDING ELEMENTS
DIVISION 5 APPLIES, WHERE REQUIRED.

DIVISION 6 - PLUMBING ELEMENTS AND FACILITIES
DIVISION 6 APPLIES, WHERE REQUIRED.

DIVISION 7 - COMMUNICATION ELEMENTS AND FEATURES
DIVISION 7 APPLIES, WHERE REQUIRED.
SIGNS 11B-703 APPLIES, WHERE REQUIRED.

CALGREEN COMPLIANCE NOTES

1. REFER TO CALGREEN CHECKLIST SHT. G-002 FOR ALL REQUIRED MEASURES. S.E.D., S.M.D., S.P.D. FOR ADDT'L. INFO.
2. WATER CONSERVING PLUMBING FIXTURES MEASURES (5.303.3): WATER CLOSETS SHALL BE WATERSENSE COMPLIANT W/ MAX. 1.28 GPF. URINALS SHALL MAINTAIN MAX. 0.125 GPF. LAVATORIES SHALL MAINTAIN MAX. 0.5 GPM @ 60 PSI. FLUSH VALVES, FAUCETS AND AUTO-SENSING EQUIP. SHALL BE CALGREEN COMPLIANT.
3. CONSTRUCTION WASTE RECYCLING, MANAGEMENT PLAN AND VERIFICATION SHALL BE PROVIDED BY THE CONTRACTOR (5.408.1). UNIVERSAL WASTE DISPOSAL AND VERIFICATION SHALL BE PROVIDED BY THE CONTRACTOR (5.408.2).
4. RECYCLING AREA FOR NON-HAZARDOUS WASTE SHALL SERVE THE BUILDING, INCLUDING PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS (5.410.1).
5. BUILDING ADHESIVES, SEALANTS AND CAULKS, PAINTS AND COATINGS, CARPET, CARPET CUSHION AND ADHESIVE, COMPOSITE WOOD SYSTEMS, RESILIENT FLOORING, INSULATION, AND ACOUSTICAL CEILING AND WALL PANELS, IF USED, SHALL COMPLY WITH VOC LIMITS AND OTHER STANDARDS OF FINISH MATERIAL POLLUTANT CONTROL MEASURES (5.504.4). VERIFICATION SHALL BE PROVIDED BY THE CONTRACTOR.
6. ENVIRONMENTAL TOBACCO SMOKE CONTROL: WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, SMOKING SHALL BE PROHIBITED WITHIN 25 FEET OF BUILDING ENTRIES AND OPENINGS (5.504.7).
7. VERIFICATION OF HVAC EQUIPMENT AND SYSTEMS FOR TEMPORARY VENTILATION (5.504.1), DUCT COVERINGS (5.504.3), MIN. MERV 13 FILTERS (5.504.5.3), OUTSIDE AIR DELIVERY (5.506.1), CO2 MONITORING (5.506.2), AND OZONE DEPLETING OR GREENHOUSE GASES COMPLIANCE (5.508.1).

FINISH NOTES

1. STORE, HANDLE, AND INSTALL MATERIALS AND SYSTEMS PER MANUFACTURER REQ'MTS.
2. PROVIDE COMPLETE, MANUF. APPROVED SUBSTRATE FOR WALL AND FLOORING FINISHES, AND OTHER FINISHES, TYP.
3. GYP. BD. WALL AND CEILING FINISHES, PROVIDE LEVEL 5 FINISH, MATCH (E) WALL TEXTURE, SMOOTH TEXTURE AT NEW CEILINGS, PAINTED FIN., TYP. PROVIDE MOISTURE RESISTENT WALLBOARD AT TOILET ROOMS AND WET LOCATIONS, TYP.
4. ALIGN FACE OF INTERIOR FINISHES WHEN CONSTRUCTION INVOLVES MORE THAN ONE FINISH AT CONTINUOUS WALL SURFACES, U.O.N.
5. PAINT COLORS AND SHEEN TO BE CONFIRMED BY ARCHITECT PRIOR TO COMMENCING WORK. PAINT ALL EXPOSED INTERIOR GYP. BD. WALL AND CEILING SURFACES, TYP., U.O.N. PAINTS SHALL BE BY BENJAMIN MOORE, TYP. STAINS SHALL BE BY SANSIN, TYP.
6. PROVIDE ACCESSIBLE TRANSITIONS @ FLOORING, TYP. COORDINATE W/ FLOORING THICKNESSES.
7. FOR ALL (N) MECHANICAL AND ELECTRICAL WORK, PROVIDE ACCESS PANELS AS REQUIRED, TYP., FINISH ACCESS PANELS TO MATCH ADJACENT SURFACE, TYP.
8. VERIFY BASE TYPE AND LOCATIONS, TYP., OMIT BASE AT BRICK AND INT. WINDOW WALLS.
9. CONC. FLOORS, CURBS AND WALL SURFACES SHALL RECEIVE DENSIFIER AND SEALER, VERIFY FIN. W/ OWNER.
10. INTERIOR FINISHES SHALL COMPLY WITH CBC CHPT. 8 AND THE CFC. INTERIOR WALL AND CEILING FINISHES SHALL BE MINIMUM CLASS C FOR FLAME SPREAD RATING (76-200) AND SMOKE-DEVELOPED INDEX (0-450) PER SEC. 803 AND TBL 803.13. FLOORS SHALL BE CLASS I OR CLASS II IN ACCORDANCE W/ CBC SEC. 804. UPON REQUEST, SUBMITTAL OF INTERIOR WALL AND CEILING FINISHES INCLUDING FIRE CLASSIFICATION, FLAME SPREAD INDEX, SMOKE DEVELOPED INDEX, COMPLIANCE W/ ASTM E648, OPTICAL DENSITY SMOKE RATING, AND MIN. CRITICAL RADIANT FLUX FOR FLOOR COVERINGS.
11. 34" COUNTER AND/OR LAV. HEIGHT IS A MAX. HEIGHT ABOVE FINISH FLOOR, COUNTER AND/OR LAV. SURFACE SHALL BE NO HIGHER THAN 34" A.F.F. TYP.
12. PROVIDE BACKING FOR ALL WALL-MOUNTED ITEMS, TYP.
13. FOR ALL MECHANICAL, PLUMBING, ELECTRICAL WORK, S.M.D., S.P.D., S.E.D.

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

DEMOLITION NOTES

1. PROTECT MATERIALS TO REMAIN IN PLACE DURING DEMOLITION.
2. DRAWING DIMENSIONS ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED BY THE OWNER, CONTRACTOR SHALL VERIFY (E) CONDITIONS PRIOR TO COMMENCING DEMOLITION.
3. THESE DOCUMENTS HAVE BEEN PREPARED WITH INFORMATION PROVIDED BY THE OWNER AND LIMITED EXISTING DOCUMENTATION. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AS THE BASIS OF THE WORK.
4. COORDINATE DISPOSAL OF DEMO AND DELIVERY OF ITEMS TO BE SALVAGED FROM DEMO. VERIFY SALVAGE ITEMS WITH OWNER PRIOR TO COMMENCING THE WORK.
5. COORDINATE ALL DEMO WORK W/ EXISTING UTILITIES. CAP AND PROTECT EXISTING UTILITIES IN PLACE.
6. COORDINATE ALL DEMO WORK W/ EXISTING STRUCTURAL SYSTEMS AND PROVIDE ALL NECESSARY SHORING. CONSULTATION W/ THE PROJECT STRUCTURAL ENGINEER IS REQ'D. PRIOR TO REMOVAL OF STRUCTURAL ELEMENTS AND PRIOR TO INSTALL OF SHORING.
7. THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARADOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR TESTING, DISPOSAL, AND CONSTRUCTION DEBRIS MANAGEMENT AND DOCUMENTATION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF HAZARADOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE BAY AREA AIR QUALITY NOTIFICATION, REPORTING AND PERMITTING OF THE HAZARDOUS MATERIALS MITIGATION WORK. INITIAL NOTIFICATION BY THE CONTRACTOR SHALL BE COMPLETED PRIOR TO INITIATING THE WORK.
9. THE MATERIALS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL COMPLY WITH ALL APPLICABLE INDUSTRY AND PRODUCT MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS FOR STORAGE, INSTALLATION, MAINTENANCE AND PERFORMANCE.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT MATERIALS AND SYSTEMS ARE PROVIDED AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES AND JURISDICTIONAL REQUIREMENTS.
11. PROTECT AND MAINTAIN IN OPERATION THE (E) FIRE ALARM SYSTEMS DURING DEMOLITION.
12. IF REQ'D., CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK WITHIN THE RIGHT-OF-WAY.
13. CONTRACTOR SHALL PROVIDE BAY AREA AIR QUALITY NOTIFICATION AND/OR PERMITTING AND DOCUMENTATION AS REQ'D., PRIOR TO COMMENCING THE WORK.
14. THE WORK SHALL COMPLY WITH CALGREEN CODE.
15. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF FIELD CONDITIONS FOR ACCESSIBILITY VARY FROM CONDITIONS REPRESENTED IN PLANS.
16. S.M.D., S.P.D., S.E.D. FOR ADDT'L. DEMOLITION INFO.

BISBEE
ARCHITECTURE+DESIGN
Nate Bisbee, AIA
629 Fourth Street, #A
Santa Rosa, CA 95404
(707) 492-9960

LICENSED ARCHITECT
NATHAN T. BISBEE
C-29901
REN. 11/30/25
STATE OF CALIFORNIA

SONOMA COUNTY LIBRARY

PERMIT SUBMITTAL

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA 95425
APN 001-141-010

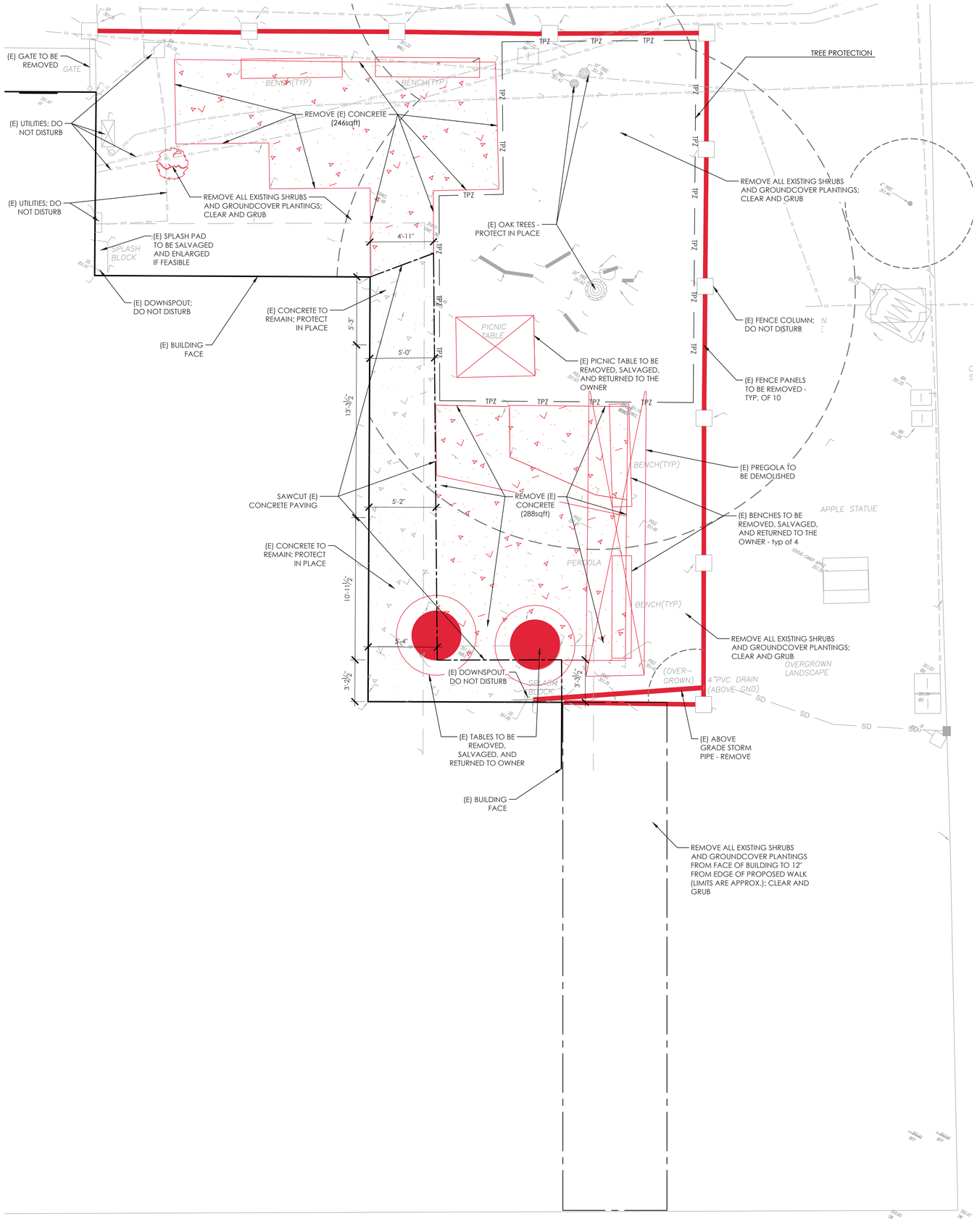
REV. #	DESCRIPTION	DATE
1	PERMIT RE-SUBMITTAL 1	8/9/24

FINISH SCHEDULE & NOTES

PROJECT NUMBER	21017.00
DATE	MAY 20, 2024
DRAWN BY	NB
CHECKED BY	-

A-602

8/2/2024 7:04:31 PM



DEMOLITION NOTES

1. Hand trench within dripline of trees.
2. If roots larger than 2" are encountered contact project arborist and landscape architect.
3. No equipment to be stored within tree dipline - or to be leaned against trunk.
4. Provide Tree Protection Fencing at the TPZ indicated on the Demolition plans
   - 4.1. TPZ fence to be 4ft tall orange construction fence (ULINE S-22226O or equal) with metal safety posts (ULINE H-9484) every 6ft.
   - 4.2. TPZ fence to stay up as much as feasible and when work is not being performed within the tree driplines.
5. Minimize compaction within dripline by using laydown walkways (ACX plywood or similar) when machinery, skid-steers or foot traffic is within tree driplines.
6. Contractor to call USA (call before you dig) prior to any excavation (811)
7. Utility locations shown are general - an attempt has been made to locate underground utilities (subtronics) per the survey, but Contractor to pothole in areas of excavation to confirm location(s).

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BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

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

QUADRIGA
landscape architecture and planning, inc.
SACRAMENTO | SANTA ROSA
916.441.2129 | www.quadriga-inc.com

Sonoma County Library
Cloverdale Library Courtyard

100% CD/PERMIT SET

401 N Cloverdale Blvd
Cloverdale, CA 95425

Stamp

REGISTERED LANDSCAPE ARCHITECT
CHRISTINE TALBOT
#5226
SIGNATURE
1/31/25
RENEWAL DATE
5/22/24
DATE
STATE OF CALIFORNIA

Issuances & Revisions

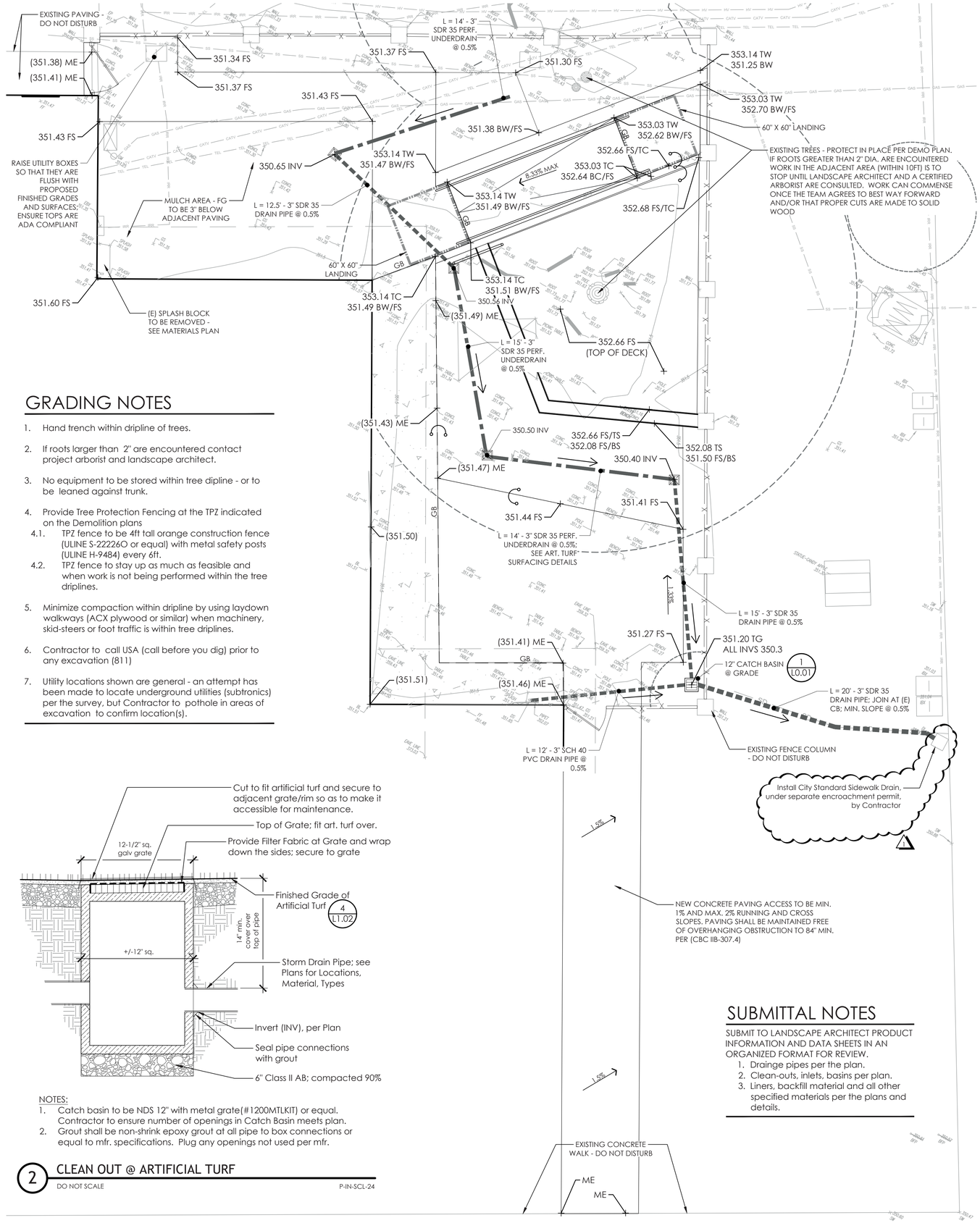
No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

DEMOLITION PLAN

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L0.00



GRADING NOTES

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NOTES:
1. Catch basin to be NDS 12" with metal grate(#1200MTLKIT) or equal. Contractor to ensure number of openings in Catch Basin meets plan.
2. Grout shall be non-shrink epoxy grout at all pipe to box connections or equal to mfr. specifications. Plug any openings not used per mfr.

2 CLEAN OUT @ ARTIFICIAL TURF

DO NOT SCALE P-IN-SCL-24

SUBMITTAL NOTES

SUBMIT TO LANDSCAPE ARCHITECT PRODUCT INFORMATION AND DATA SHEETS IN AN ORGANIZED FORMAT FOR REVIEW.

1. Drainge pipes per the plan.
2. Clean-outs, inlets, basins per plan.
3. Liners, backfill material and all other specified materials per the plans and details.

GRADING & DRAINAGE LEGEND

EXISTING SPOT ELEVATIONS PER SURVEY — CONCL 351.48; GS 351.79; 20" TREE 351.63

SOLID DRAIN PIPE - MATERIAL AND SIZE PER PLAN; SLOPE DIRECTION

PERFORATED UNDERDRAIN - HOLES AT 180DEG PERP. TO SUBGRADE - MATERIAL AND SIZE PER PLAN; SLOPE DIRECTION

CATCH BASIN - TYPE AND SIZE PER PLAN — 1 L0.01

CLEAN OUT - TOP OF CLEANOUT TO BE 3" BELOW FG/FS - SEE DETAIL — 2 L0.01

FLUSH SURFACES

SLOPE DIRECTION AND PERCENTAGE — 1.33%

SPOT ELEVATION - (EXISTING SPOT ELEVATION PER SURVEY) MATCH EXISTING — (351.46) ME

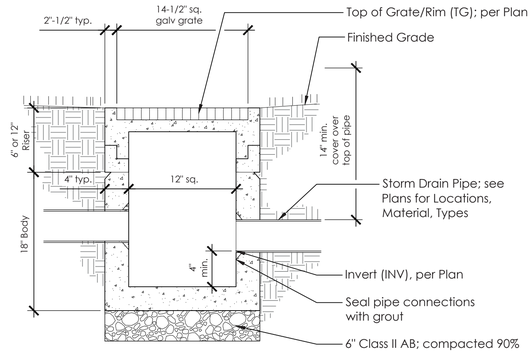
SPOT ELEVATION - TOP OF WALL (TW) BOTTOM OF WALL (BW) — 353.14 TW / 351.47 BW

PROPOSED SPOT ELEVATION — 351.33 FS

BS = BOTTOM OF STEPS	HP = HIGH POINT
CB = CATCH BASIN	INV = INVERT ELEVATION
CO = CLEAN OUT	MH = MANHOLE
DI = DRAIN INLET	RIM = RIM ELEVATION
FF = FINISH FLOOR	TB = TOP OF BERM
FG = FINISHED GRADE	TC = TOP OF CURB
FS = FINISHED SURFACE	TF = TOP OF FOOTING
FL = FLOW LINE	TG = TOP OF GRATE
GB = GRADE BREAK	TP = TOP OF PAVING
GP = GRADE POINT	TS = TOP OF STEPS
GS = GRADE SPOT	TW = TOP OF WALL

NOTE:
UNLESS NOTED, NEW CONCRETE PAVING TO BE MIN. 1% AND MAX. 2% RUNNING AND CROSS SLOPES AWAY FROM BUILDING INTO DRAINAGE SYSTEM OR PLANTING AREAS. PAVING SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" MIN. PER (CBC IIB-307.4); CONTRACTOR TO CONFIRM MIN. AND MAX. AND TO ENSURE POSITIVE DRAINAGE INTO DI'S AND PLANTING AREAS.

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.



NOTES:
1. Catch basin to be precast concrete - Old Castle CB-121218 or equal.
2. Contractor to verify riser height so overall CB accommodates inverts as noted on the Grading & Drainage Plan.
3. Grout shall be non-shrink epoxy grout at all pipe to box connections.

1 CATCH BASIN @ GRADE

DO NOT SCALE P-IN-SCL-20

REFER TO LAYOUT AND MATERIALS PLAN FOR SURFACES, FINISHES, AND ADDITIONAL DETAILS

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

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REGISTERED LANDSCAPE ARCHITECT — CHRISTINE TALBOT — #5226 — SIGNATURE — 12/31/25 RENEWAL DATE — 5/03/24 DATE — STATE OF CALIFORNIA

Issuances & Revisions

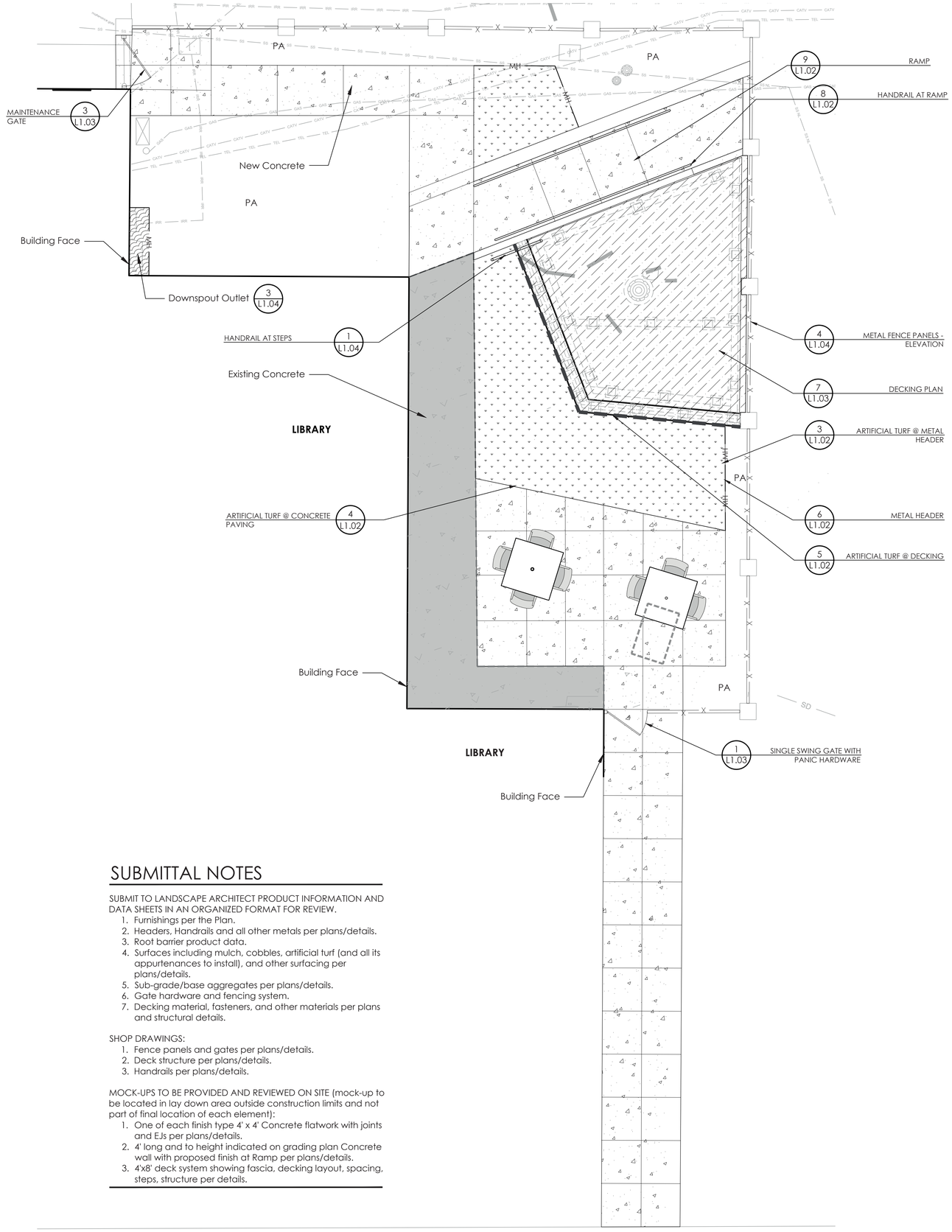
No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

GRADING & DRAINAGE PLAN

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L0.01



SUBMITTAL NOTES

SUBMIT TO LANDSCAPE ARCHITECT PRODUCT INFORMATION AND DATA SHEETS IN AN ORGANIZED FORMAT FOR REVIEW.

1. Furnishings per the Plan.
2. Headers, Handrails and all other metals per plans/details.
3. Root barrier product data.
4. Surfaces including mulch, cobbles, artificial turf (and all its appurtenances to install), and other surfacing per plans/details.
5. Sub-grade/base aggregates per plans/details.
6. Gate hardware and fencing system.
7. Decking material, fasteners, and other materials per plans and structural details.

SHOP DRAWINGS:

1. Fence panels and gates per plans/details.
2. Deck structure per plans/details.
3. Handrails per plans/details.

MOCK-UPS TO BE PROVIDED AND REVIEWED ON SITE (mock-up to be located in lay down area outside construction limits and not part of final location of each element):

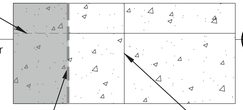
1. One of each finish type 4' x 4' Concrete flatwork with joints and EJs per plans/details.
2. 4' long and to height indicated on grading plan Concrete wall with proposed finish at Ramp per plans/details.
3. 4'x8' deck system showing fascia, decking layout, spacing, steps, structure per details.

MATERIALS LEGEND

CONCRETE PAVING 01

INTEGRAL COLORS (provide 4'x4' mock-up of each for review): Davis - Outback & Pebble
FINISH: Grace Top Cast 15 & 100
Refer to Details for reinforcing, jointing, thickness
Extend joints from existing joints through new paving; confirm layout with Architect

(E) Control joint; reference only



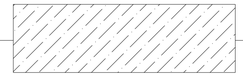
2 L1.02 | 1 L1.02

Control joints shown are for reference only; extend from existing

Existing Concrete Delineation; see Demo Plan; EJs per Layout Plan

DECKING

MATERIAL: TREX Composite Decking with Hideaway Fasteners
COLOR: Transcend-Gravel Path
See Details for layout and material sizes. Refer to Structural Drawings for framing and footings. Provide 4'x8' mock-up showing fascia, structure, decking layout, spacing, and steps for review by Landscape Architect AFTER shop drawing review.



7 L1.03

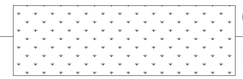
FENCE & GATES

Laser cut Metal Panel; custom lengths and pattern
MODEL: Custom per Details; submit RAL colors available
MFR: BoK Modern

1 L1.03 | 3 L1.03
4 L1.04

ARTIFICIAL TURF

MODEL: Playground Grass Discovery
MFR: ForeverLawn
Refer to Manufacturer's Specifications



3 L1.02 | 4 L1.02
5 L1.02

DOWNSPOUT OUTFALL

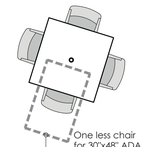
Metal Header with 5" plus Noyo Cobble
Submit samples for review. See Detail.

3 L1.04

TABLE & CHAIRS

Table - Qty = 2
MODEL: Avivo Table, 40x40", FSC 100% Cumaru hardwood slat inset with umbrella hole
MFR: Forms + Surfaces
MOUNT: Movable/Set on Grade
COLOR: White Frame

Chairs - Qty = 7 (one less than available for ADA)
MODEL: SCAVO-A Avivo Chair, with armrests (x7) Riva Perforation Back Option
MFR: Forms + Surfaces
MOUNT: Free Standing
COLOR: White Frame
See manufacturer's specifications.



2 L1.04

METAL HEADER

Steel header per Mfr. Refer to manufacturer's specifications and details.

MH — MH

6 L1.02

ROOT BARRIER

Root barrier per detail

2 L1.03

PLANTING AREA

Remove lime-treated soil, construction debris per specs. Amend per specs.

PA

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BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

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

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Issuances & Revisions

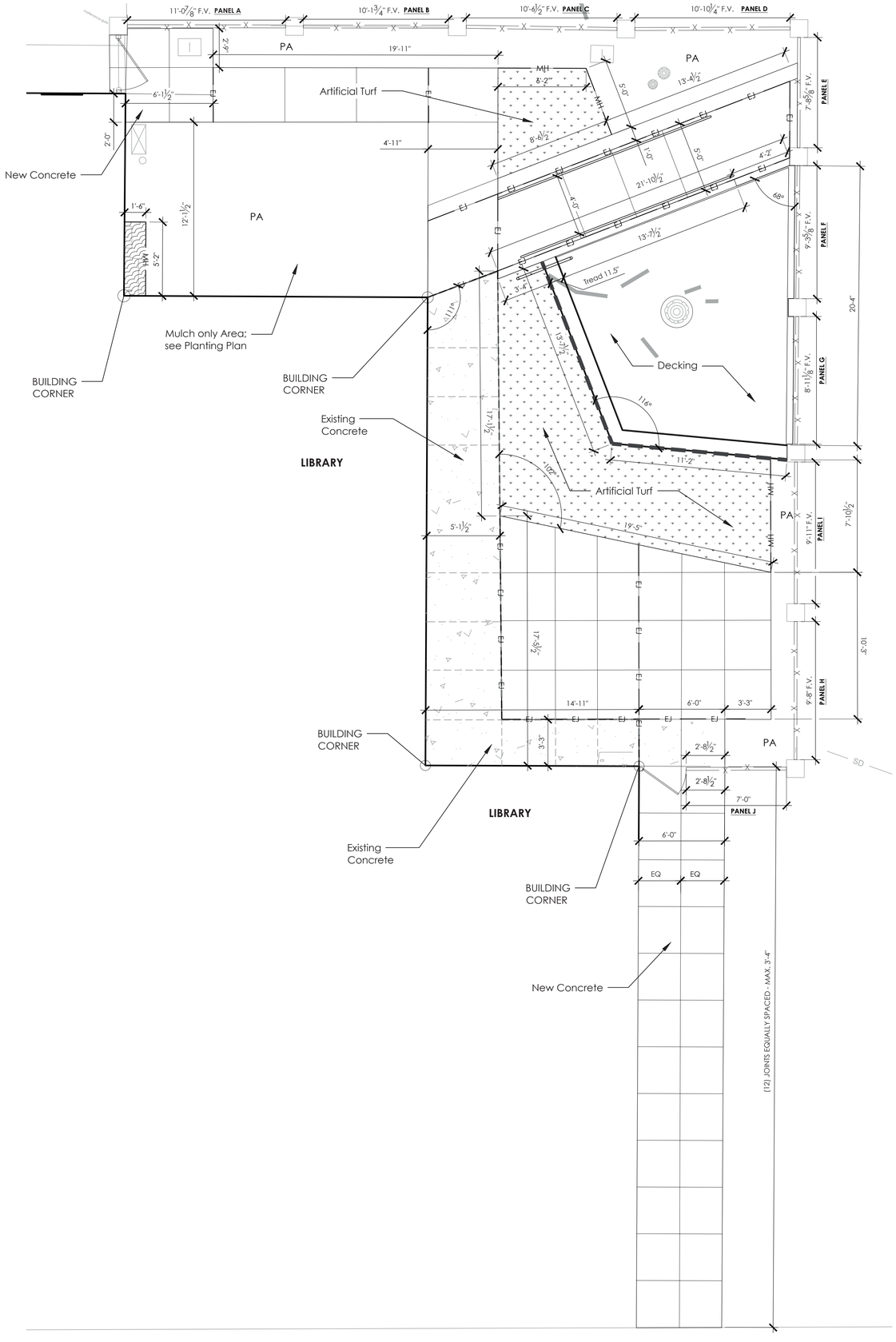
No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

MATERIALS PLAN

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

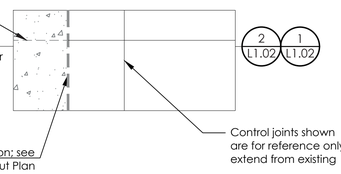
L1.00



LAYOUT LEGEND

CONCRETE PAVING 01

INTEGRAL COLORS (provide 4'x4' mock-up of each for review): Davis - Outback & Pebble
FINISH: Grace Top Cast 15 & 100
Refer to Details for reinforcing, jointing, thickness
Extend joints from existing joints through new paving; confirm layout with Architect

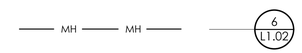


FENCE & GATES

Laser cut Metal Panel; custom lengths and pattern
MODEL: Custom per Details; submit RAL colors available
MFR: BoK Modern

METAL HEADER

Steel header per Mfr. Refer to manufacturer's specifications and details.



LAYOUT NOTES

1. Verify all dimensions and conditions in the field. Notify the Owner's representative of any discrepancies on drawings requiring clarification or revision before commencing with the work.
2. Contractor shall protect all existing conditions that are to remain, and secure the property during construction.
3. All critical dimensions for existing conditions shall be verified in the field before fabrication or construction of new work.
4. All work is new unless otherwise noted as "existing", "existing to remain", "(E)".
5. Any discrepancy discovered by Contractor in these plans or any field conditions discovered by contractor that may delay or obstruct the proper completion of the work per these plans shall be brought to the attention of the Owner's representative immediately upon discovery. Said notification shall be in writing.
6. Contractor shall independently review ground, topography, and tree conditions throughout the site, and assume wholly and unconditionally the risk of completing the work set out on these plans, regardless of rock, water table, or other conditions which contractor may encounter in the course of the work.
7. Any excess materials shall be considered the property of the Contractor and shall be disposed of away from the job site in accordance with applicable local, state and federal regulations, at all times during construction and until final completion.
8. It is the Contractor's responsibility to maintain and use current contract documents for this project, copies of these contract documents shall be available for review by Landscape Architect during site observation.
9. Contractor to locate and install pipe sleeves under paving as needed in order to install irrigation piping according to irrigation plan. Coordinate with Paving Contractor prior to paving installation.
10. Contractor to review, adhere to, and comply with all Construction Documentation including written General and Technical Specifications.

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BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

SEE L1.00 FOR SUBMITTAL REQUIREMENTS

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Key Plan/Consultant Stamp

LAYOUT PLAN

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L1.01

SEE L1.00 FOR SUBMITTAL REQUIREMENTS

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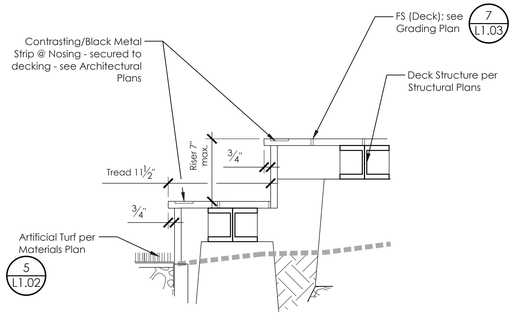
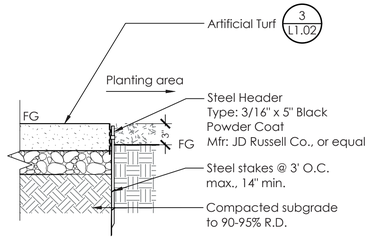


NOTES:
1) Refer to Demo Plan for tree protection and notes.
2) Refer to Materials Plan for decking material.
3) Refer to Structural Plans for deck structure, footings, and other information.
4) Refer to Grading & Drainage Plan for finished surfaces, drainage.
5) Refer to Artificial Turf Mfr. for additional information and details.

7 DECK NOSING

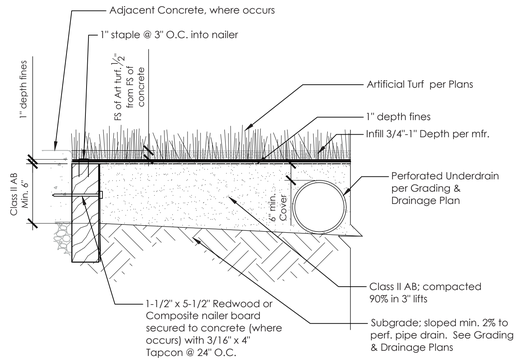
NOT TO SCALE P-IN-SCL-74



NOTES:
1. Compact grades adjacent to edging to avoid settling.
2. Corners - Cut base of edging up half way and form a continuous corner.
3. Stake on inside of planting area when adjacent to artificial turf areas.

6 METAL HEADER

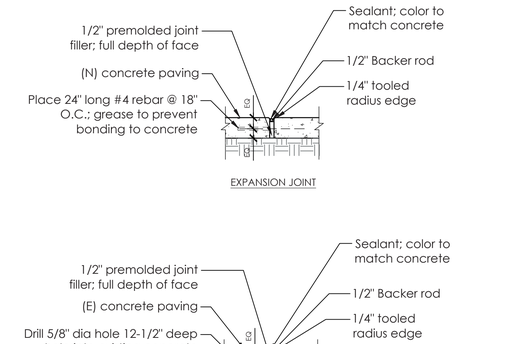
NOT TO SCALE P-IN-SCL-05



NOTES:
1. Installation to be completed in accordance with manufacturer's specifications.

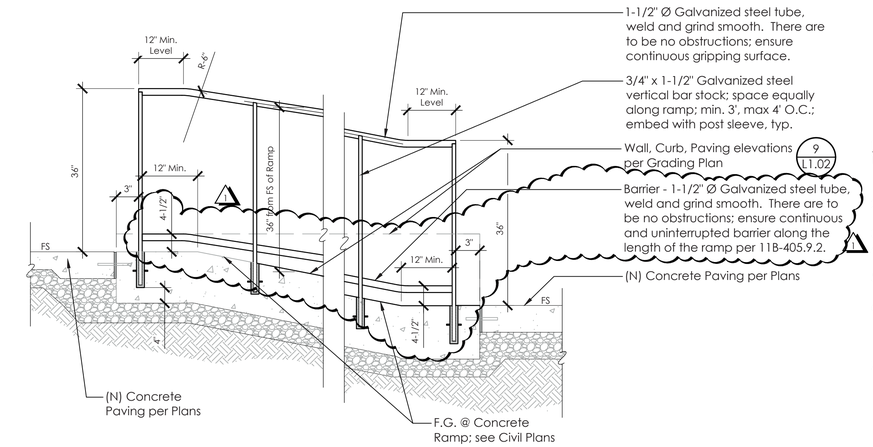
4 ARTIFICIAL TURF @ CONCRETE PAVING

DO NOT SCALE P-IN-SCL-23



1 EXPANSION JOINTS

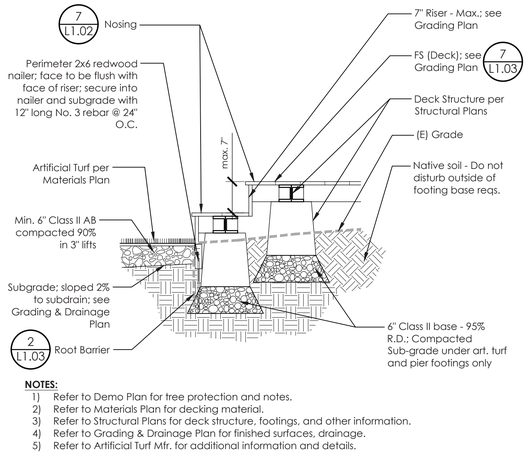
NOT TO SCALE P-IN-SCL-67



NOTES:
1. Refer to Materials Plans for alignments, finishes, locations of walls, curbs and handrails.
2. Refer to Grading and Drainage Plans for spots, slopes, grades.
3. Grind all welds smooth.
4. All railings to be electro-polished 304SS.
5. Radius all bends and cope to fit pipes at all intersections.
6. Ramp and Handrails to meet current (at time of installation) CBC section 11B504 and 505 for accessibility requirements.
7. Contractor to provide shop drawings for review by Landscape Architect.

8 HANDRAIL AT RAMP

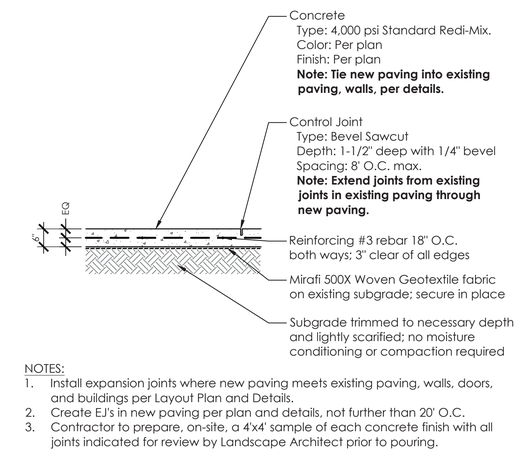
DO NOT SCALE



NOTES:
1) Refer to Demo Plan for tree protection and notes.
2) Refer to Materials Plan for decking material.
3) Refer to Structural Plans for deck structure, footings, and other information.
4) Refer to Grading & Drainage Plan for finished surfaces, drainage.
5) Refer to Artificial Turf Mfr. for additional information and details.

5 ARTIFICIAL TURF @ DECKING

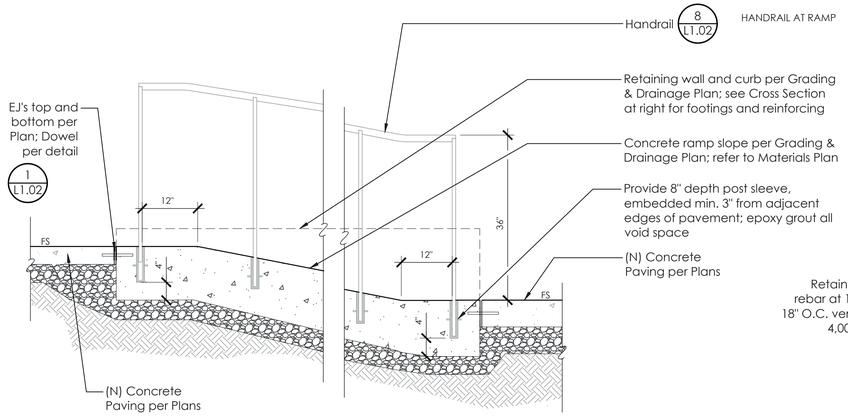
DO NOT SCALE P-IN-SCL-22



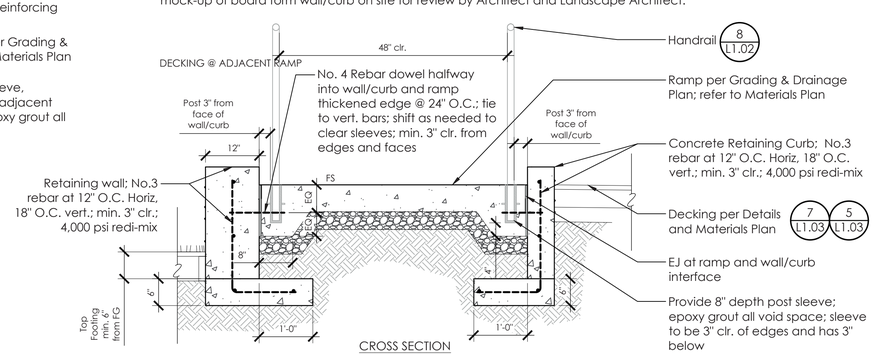
NOTES:
1. Install expansion joints where new paving meets existing paving, walls, doors, and buildings per Layout Plan and Details.
2. Create EJ's in new paving per plan and details, not further than 20' O.C.
3. Contractor to prepare, on-site, a 4'x4' sample of each concrete finish with all joints indicated for review by Landscape Architect prior to pouring.

2 CONCRETE PAVING

NOT TO SCALE P-IN-SCL-26

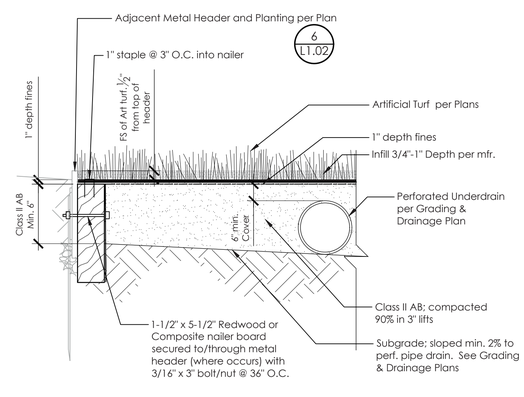


NOTES:
1. Refer to Materials Plans for alignments, ramp finish/color, locations of walls, curbs and handrails.
2. Refer to Grading and Drainage Plans for spots, slopes, grades.
3. Ramp slope not to exceed 1:12/8.33% or 2% cross slope. See Grading Plan.
4. Ramp and Handrails to meet current (at time of installation) CBC section 11B504 and 505 for accessibility requirements.
5. Color to match Concrete Paving 01
6. Finish of retaining wall and curbs and all vertical faces to be Board Form and match across the project. Provide 6ft long mock-up of board form wall/curb on site for review by Architect and Landscape Architect.



9 RAMP

DO NOT SCALE



NOTES:
1. Installation to be completed in accordance with manufacturer's specifications.

3 ARTIFICIAL TURF @ METAL HEADER

DO NOT SCALE P-IN-SCL-54

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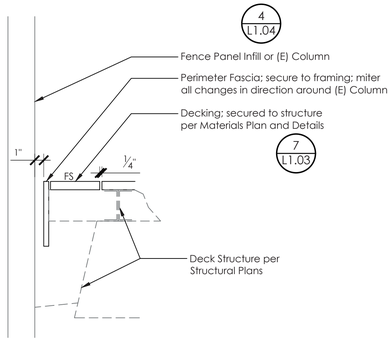
Key Plan/Consultant Stamp

LAYOUT DETAILS

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L1.02

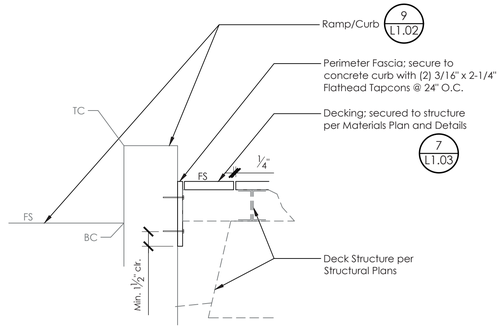
NOTES:
1. Refer to Grading and Drainage Plan for elevations and finished surfaces.
2. Refer to Materials and Layout Plans for additional information
3. Provide 4'x8' mock-up showing fascia, structure, decking layout, spacing, and steps for review by Landscape Architect



6 DECKING @ ADJACENT FENCE PANEL OR (E) COLUMN

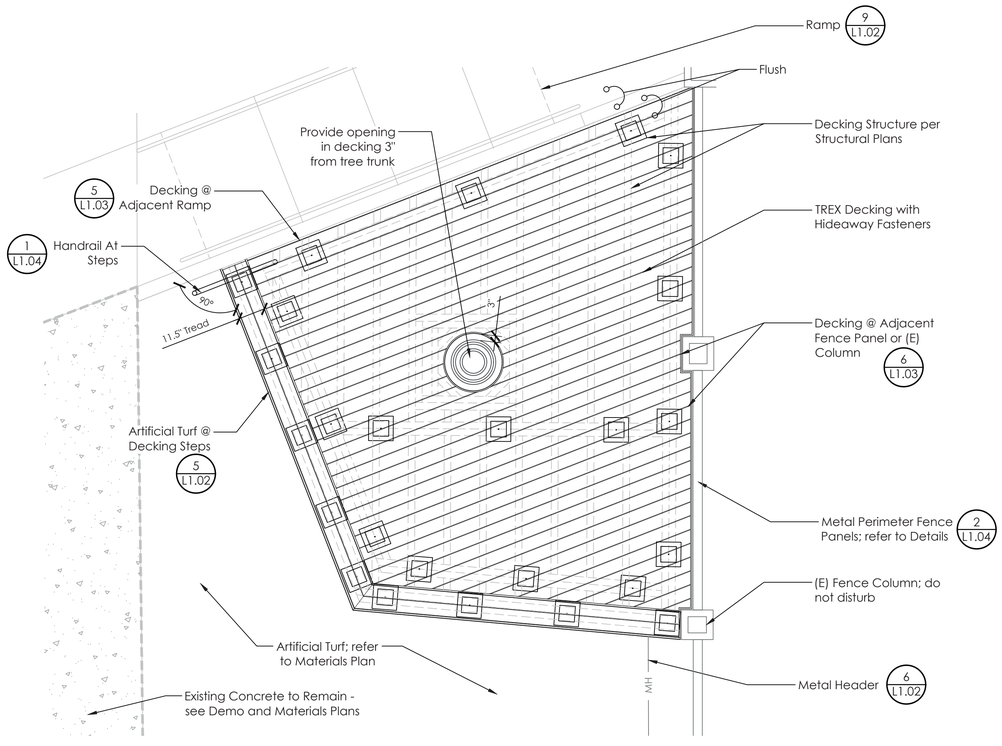
DO NOT SCALE P-IN-SCL-45

NOTES:
1. Refer to Grading and Drainage Plan for elevations and finished surfaces.
2. Refer to Materials and Layout Plans for additional information
3. Provide 4'x8' mock-up showing fascia, structure, decking layout, spacing, and steps for review by Landscape Architect



5 DECKING @ ADJACENT RAMP

DO NOT SCALE P-IN-SCL-33

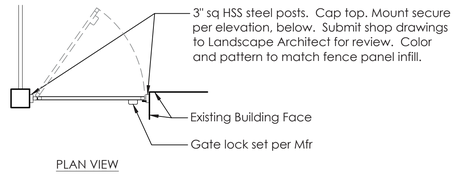


NOTES:
1. Refer to Materials and Layout Plan for decking materials and decking layout/dims.
2. Contractor to provide shop drawings for review by Landscape Architect.
3. Provide 4'x8' mock-up showing fascia, structure, decking layout, spacing, and steps for review by Landscape Architect AFTER shop drawing review/approval.
4. All deck boards to be 1" Nominal grooved to receive Trex Hideaway Fasteners.
5. ALL FRAMING AND STRUCTURE IS PER STRUCTURAL PLANS.
6. Provide additional blocking as needed at joints and edges.
7. All deck board gaps to be 1/4".
8. Space off adjacent infill panels max. 1"
9. Material & Sizes
   TREX Transcend - Gravel Path
   SIZES:
   Deck Board - 1"x6" grooved edge
   Fascia - 8" solid
   Step Riser - match Fascia; rip as needed
   Step Deck Board - match Deck Board

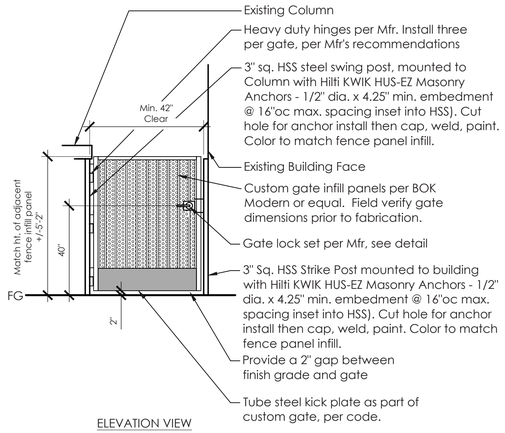
7 DECKING PLAN

NOT TO SCALE P-IN-SCL-99

SEE L1.00 FOR SUBMITTAL REQUIREMENTS



PLAN VIEW

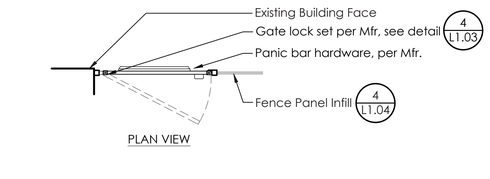


ELEVATION VIEW

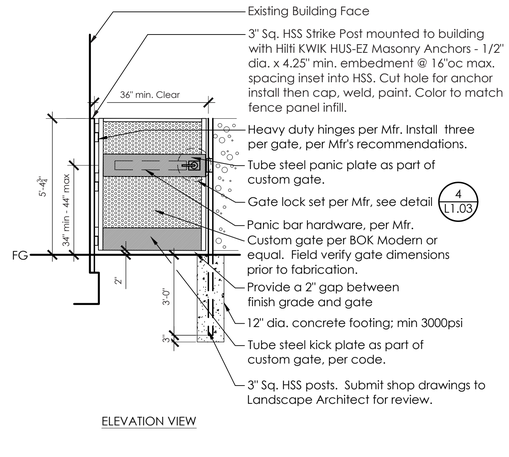
NOTES:
1. Gate lock set to meet California Building Code.
2. Field verify all measurements and existing conditions prior to fabrication.
3. Submit Shop Drawings to Landscape Architect for review, prior to fabrication.
4. All gate components are to match the fence panel infill color as best possible. If color is not available (i.e., hardware) provide brushed SS finished. Submit color chip to Landscape Architect for approval prior to Fabrication.
5. Perforated metal panel per BOK Modern.
6. Contractor to coordinate fabrication and dimensions of custom gate with BOK Modern.

3 MAINTENANCE GATE

DO NOT SCALE P-IN-SCL-30



PLAN VIEW

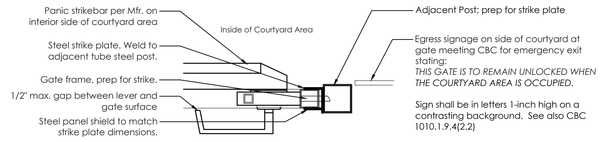


ELEVATION VIEW

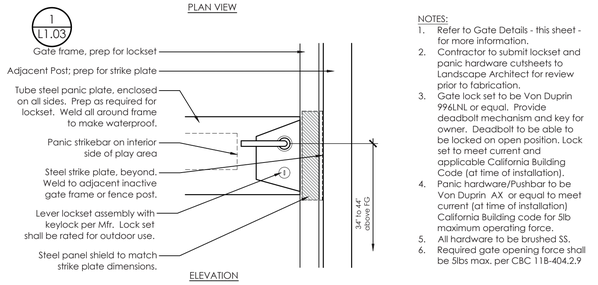
NOTES:
1. Gate lock set and panic hardware to meet California Building Code.
2. Field verify all measurements and existing conditions prior to fabrication.
3. Submit Shop Drawings to Landscape Architect for review, prior to fabrication.
4. All gate components are to be finished to match adjacent Fence Panel finish and color as best possible. Submit color chip to Landscape Architect for approval prior to Fabrication.
5. Perforated metal panel provided by BoK Modern after coating and before shipping.
6. Contractor to coordinate fabrication and dimensions of custom gate with BoK Modern

1 SINGLE SWING GATE WITH PANIC HARDWARE

DO NOT SCALE P-IN-SCL-21



PLAN VIEW

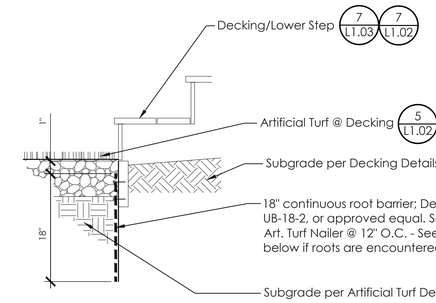


ELEVATION

NOTES:
1. Refer to Gate Details - this sheet - for more information.
2. Contractor to submit lockset and panic hardware cutsheets to Landscape Architect for review prior to fabrication.
3. Gate lock set to be Von Duprin 996LNL or equal. Provide deadbolt mechanism and key for owner. Deadbolt to be able to be locked on open position. Lock set to meet current and applicable California Building Code (at time of installation).
4. Panic hardware/Pushbar to be Von Duprin AX or equal to meet current (at time of installation) California Building code for Slb maximum operating force.
5. All hardware to be brushed SS.
6. Required gate opening force shall be 5lbs max. per CBC 11B-404.2.9

4 GATE LATCH DETAIL

NOT TO SCALE P-IN-SCL-32



NOTES:
1. **Do not prune roots over 3" if encountered. Cut root barrier around these roots as needed. Roots less than 3" may be pruned with the direction and assistance of the arborist and landscape architect.**
2. Refer to Demo Plan Tree Protection Notes if roots 2" and larger are encountered while placing barrier.
3. Place root barrier per Plans.

2 ROOT BARRIER

NOT TO SCALE P-IN-SCL-03

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Cloverdale, CA 95425

Stamp

Issuances & Revisions

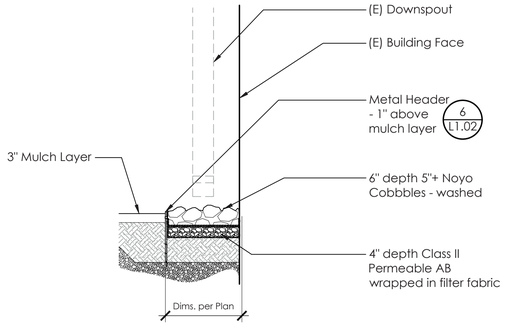
No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

LAYOUT DETAILS

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

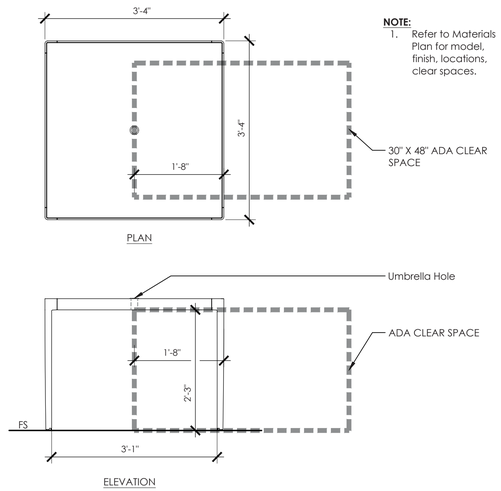
L1.03



NOTES:
1. Refer to Demolition, and Grading and Drainage Plans.
2. Place rock splash areas per Plans after planting areas are fully prepped.

3 DOWNSPOUT OUTLET AREA

DO NOT SCALE P-IN-SCL-72

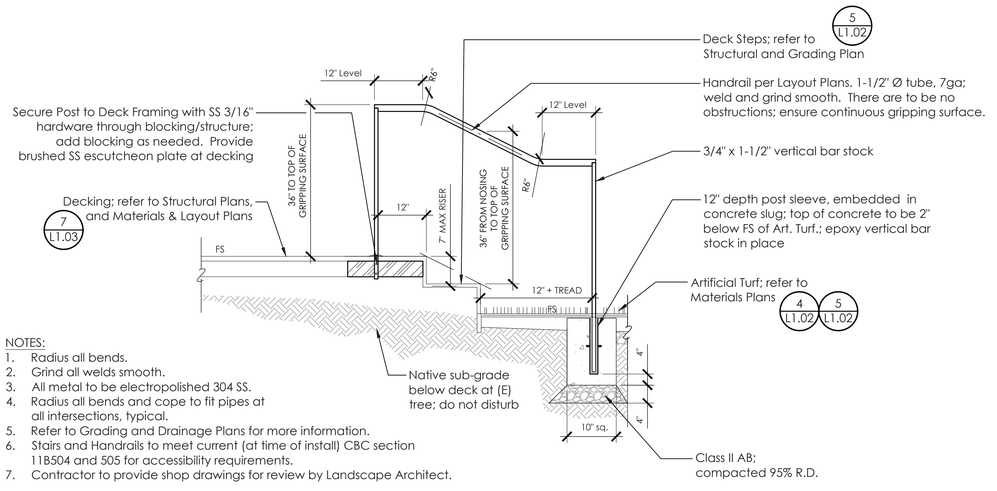


NOTE:
1. Refer to Materials Plan for model, finish, locations, clear spaces.

30" X 48" ADA CLEAR SPACE

2 TABLE - ACCESSIBLE

DO NOT SCALE P-IN-SCL-93



NOTES:
1. Radius all bends.
2. Grind all welds smooth.
3. All metal to be electropolished 304 SS.
4. Radius all bends and cope to fit pipes at all intersections, typical.
5. Refer to Grading and Drainage Plans for more information.
6. Stairs and Handrails to meet current (at time of install) CBC section 11B504 and 505 for accessibility requirements.
7. Contractor to provide shop drawings for review by Landscape Architect.

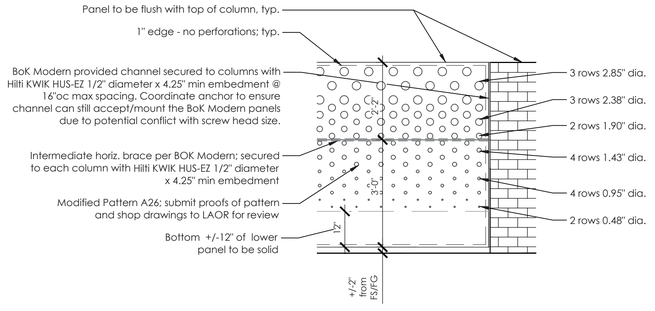
1 HANDRAIL AT STEPS

DO NOT SCALE

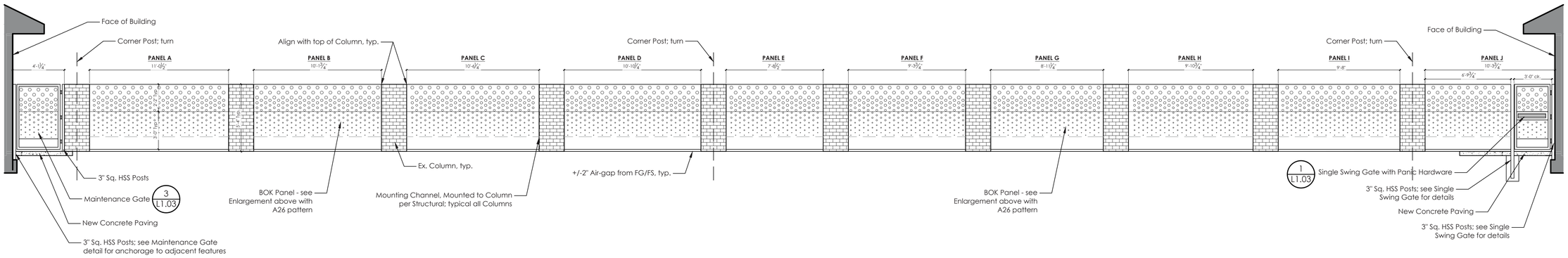
REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

SEE L1.00 FOR SUBMITTAL REQUIREMENTS

NOTES:
1. ELEVATION INDICATED BELOW IS FROM THE INSIDE OF THE COURTYARD STARTING AT THE MAINTENANCE GATE IN THE NW CORNER.
2. Coordinate mounting hardware between Landscape Architec, Structural and BoK modern to ensure panels mount per the intent.
3. Contractor to provide shop drawings for review by Structural Engineer and Landscape Architect.
4. Field verify all openings between existing features (building, columns) prior to fabrication and alert Landscape Architect to any discrepancies prior to fabrication.



ENLARGEMENT OF A26 PANEL WITH SOLID BASE



4 METAL FENCE PANELS - ELEVATION

DO NOT SCALE P-IN-SCL-53

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REGISTERED LANDSCAPE ARCHITECT
CHRISTINE TALBOT
#5226
SIGNATURE
12/31/25
RENEWAL DATE
5/22/24
DATE
STATE OF CALIFORNIA

Issuances & Revisions

No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

LAYOUT DETAILS

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L1.04

MWELO COMPLIANCE NOTES

1. Prior to the planting of any materials, compacted soils shall be transformed to a friable condition.
2. Soil amendments shall be incorporated according to recommendations of the soil report and what is appropriate for the plants selected.
3. Incorporate compost into the soil to a minimum depth of eight inches at a minimum rate of six cubic yards per 1,000 square feet. Soils with greater than 6% organic matter in the top 6 inches of soil are exempt from adding compost and tilling.
4. A minimum three-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers or direct seeding applications.
5. Submit soil samples to a laboratory for analysis and recommendations. Soil analysis requirements further detailed in specifications.
   - 5.1. Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants.
   - 5.2. The soil analysis shall include: Soil texture; Infiltration rate determined by laboratory test or soil texture infiltration rate table; PH; Total soluble salts; Sodium; Percent organic matter; and Recommendations.
6. The soil analysis report shall be made available, in a timely manner, to the Landscape Architect preparing the landscape design plans and irrigation design plans to make any necessary adjustments to the design plans.
7. The Certificate of Completion shall be accompanied by an irrigation audit, irrigation schedule, maintenance schedule, and the soil analysis report as described by the City ordinance. If a grading permit is required, the soil analysis report shall be submitted to the City with the Certificate of Completion. If a grading permit is not required, the soil analysis report shall be submitted to the City with the Landscape Documentation Package.
8. The contractor shall submit documentation verifying implementation of soil analysis report recommendations to the City with Certificate of Completion"
9. Upon completion of the installation, the contractor shall submit to the Engineering Development Services inspector a completed and signed "Certificate of Completion" stating that the project has been installed as designed.
10. A final City inspection shall be performed. The installation contractor shall attend this inspection and make all required repairs and adjustments to achieve approval and completion from the city. To schedule an inspection, contact Cloverdale Building Department at (707) 894-1701.
11. Water Conservation inspections (196) may not be requested online and through the Selectron automated response system. All Water Conservation inspections must be scheduled directly with Building Inspector.

IRRIGATION NOTES

1. The Landscape Contractor shall inspect the site and verify conditions and dimensions prior to construction.
2. Install irrigation system in accordance with all local codes and ordinances.
3. See details and specifications for procedures, material and installation requirements.
4. Prior to cutting into soil, locate all cables, conduits, sewers, and other utilities or architectural features that are commonly encountered underground and take proper precautions not to damage or disturb such improvements. Any damage made during the installation of the irrigation system of the aforementioned items shall be repaired and/or replaced at the Contractor's own expense.
4. Contractor to minimize disturbance to existing tree roots on site. Cut minor roots (less than 2" in diameter) of trees indicated to remain in a clean and careful manner where such roots obstruct installation of new construction. If any roots greater than 2" are encountered stop work and contact the project arborist immediately.
5. The irrigation design is diagrammatic. All piping, valves, etc., shown within paved areas are for design clarification only and shall be installed in planting areas. Main and valves shall be installed in shrub/ground cover areas only. Avoid conflicts with utilities, new planting, new site or architectural elements.
7. All valves for shrub/groundcover areas shall be placed in Carson 1419B-12B, or equal, brown valve box, located in shrub/groundcover areas whenever possible, and bolted.
8. Station operation times shall not exceed the soil's infiltration rate as determined by the soils report.
9. All lateral end runs shall be 3/4" size unless otherwise noted.
10. Where pipe sizes have been omitted or there is a conflict, refer to the lateral pipe sizing chart for sizes.
11. Contractor shall coordinate sleeving for irrigation piping with Paving Contractor prior to paving installation. It is the contractor's responsibility for providing appropriate sleeving under hardscape.
12. The landscape Contractor shall coordinate their work with other trades involved (I.E. Grading, Plumbing and Electrical Contractors).
13. Contractor shall verify all locations and function of existing irrigation equipment and points of connection that are to remain or to connect to new irrigation systems, upon notification of award of contract. Contractor to immediately notify Landscape Architect if any discrepancies are found between plans and existing irrigation conditions.
14. The irrigation systems are designed to operate at 30 psi at new valve. Landscape Contractor shall test pressure at the existing system point of connection (POC) to domestic water line prior to installation of any irrigation equipment. Notify Landscape Architect immediately if pressure at the system POC is below 35 psi or over 80 psi to determine needed pressure regulation devices. (i.e. boost pump or regulating valve.)

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Hunter ICZ-101-40 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.	2/L2.02
	Area to Receive Dripline Netafim TLCV-06-18 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. 17mm. Contractor to install on-grade and cover with 3" layer of bark mulch.	7/L2.02
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**	**DETAIL**
	Hunter HQ-44LRC Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	8/L2.02
EC	Existing Controller Located in wall-mounted box. Irritrol MC-18E to be retained and used	
	Irrigation Lateral Line: PVC Schedule 40 Size Per Plan.	
	Irrigation Mainline: Existing Mainline Existing Mainline; repair as needed. Assume 30psi at Valve(s)	
	Pipe Sleeve: PVC Schedule 40 Size per Plan	

Valve Callout

SUBMITTAL NOTES

SUBMIT TO LANDSCAPE ARCHITECT PRODUCT INFORMATION AND DATA SHEETS IN AN ORGANIZED FORMAT FOR REVIEW.

1. Valves, joints, solvents, connections, piping, backfill, blocking, valve boxex, sleeving, and all other fixtures per the plans and details.

MAWA CALCULATIONS

ETWU (Estimated Total Water Use) *Annual Gallons Required*

Valve #	Plant Type (Hydrozone)	Plant Factor	Irrigation Method	Irrigation Efficiency	ETAF (PF/IE)	Area (ft²)	ETAF x Area	ETWU (Eto)(0.62)(ETAF)(Area)
1	Low	0.3	In-line Drip	0.81	0.37	163	60	1,523
					0.37	**163**	**60**	**1,523**

MAWA (Maximum Applied Water Allowance) *Annual Gallons Allowed*

	Eto	0.62	ETAF	Area (ft²)	MAWA (Eto)(0.62)(ETAF)(Area)
	40.7	0.62	0.45	163	**1,851**

The ETWU (1,523 gallons) is less than the MAWA (1,851 gallons), therefore this design complies with the California Code of Regulations Title 23, Waters - Model Water Efficient Landscape Ordinance.

HYDROZONE SUMMARY

Plant Type	AREA (Sq. Ft.)	% of Total Landscape
HW	0	0.0%
MW	0	0.0%
LW	163	100.0%
Total	**163**	**100%**

STATEMENT OF COMPLIANCE

I have complied with the criteria of the California Department of Water Resources Model Water Efficient Landscape Ordinance as established by Chapter 2.7, Title 23 of the 2015 California Building Code and have applied them for the efficient use of water in the landscape design plan.

PREPARER NAME: Christine Talbot

PREPARER SIGNATURE:

PROFESSIONAL LICENSE: #5226

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

HYDROZONE

LOW WATER

DRIP SUPPLY/EXHAUST HEADER SIZING GUIDE

ZONE FLOW	HEADER SIZE	HEADER TYPE
0-5 GPM	1/2"	POLY TUBING
5-8 GPM	3/4"	POLY TUBING
8-13 GPM	1"	POLY TUBING

LATERAL SIZING GUIDE

CIRCUIT GPM	PIPE SIZE	PIPE CLASS
0-8 GPM	3/4"	SCH. 40 PVC
9-12 GPM	1"	SCH. 40 PVC
13-22 GPM	1-1/4"	SCH. 40 PVC
23-30 GPM	1-1/2"	SCH. 40 PVC
31-50 GPM	2"	SCH. 40 PVC
51-70 GPM	2-1/2"	SCH. 40 PVC
71-110 GPM	3"	SCH. 40 PVC

IRRIGATION WATERING SCHEDULE

Location: Cloverdale **Eto:** 40.7 **Soil Type:** Clay **Cycles per Week:** 3 days per week

Station	GPM	Soil Type	Plant Type	Area SF	Irrigation Type	Kc (PF)	IE	Precip Rate	No. of Cycles	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total In/Yr
										MINUTES PER CYCLE AT 100% ET												
1.0	1.08	0.3	Low	163	In-line Drip	0.3	0.81	0.64	1	2.2	3.8	6.9	10.6	13.8	15.8	16.7	14.7	11.3	7.5	3.6	2.1	15.07

Note: During Maintenance Period irrigation times may be incrased by 20% to allow for establishment of newly planted material

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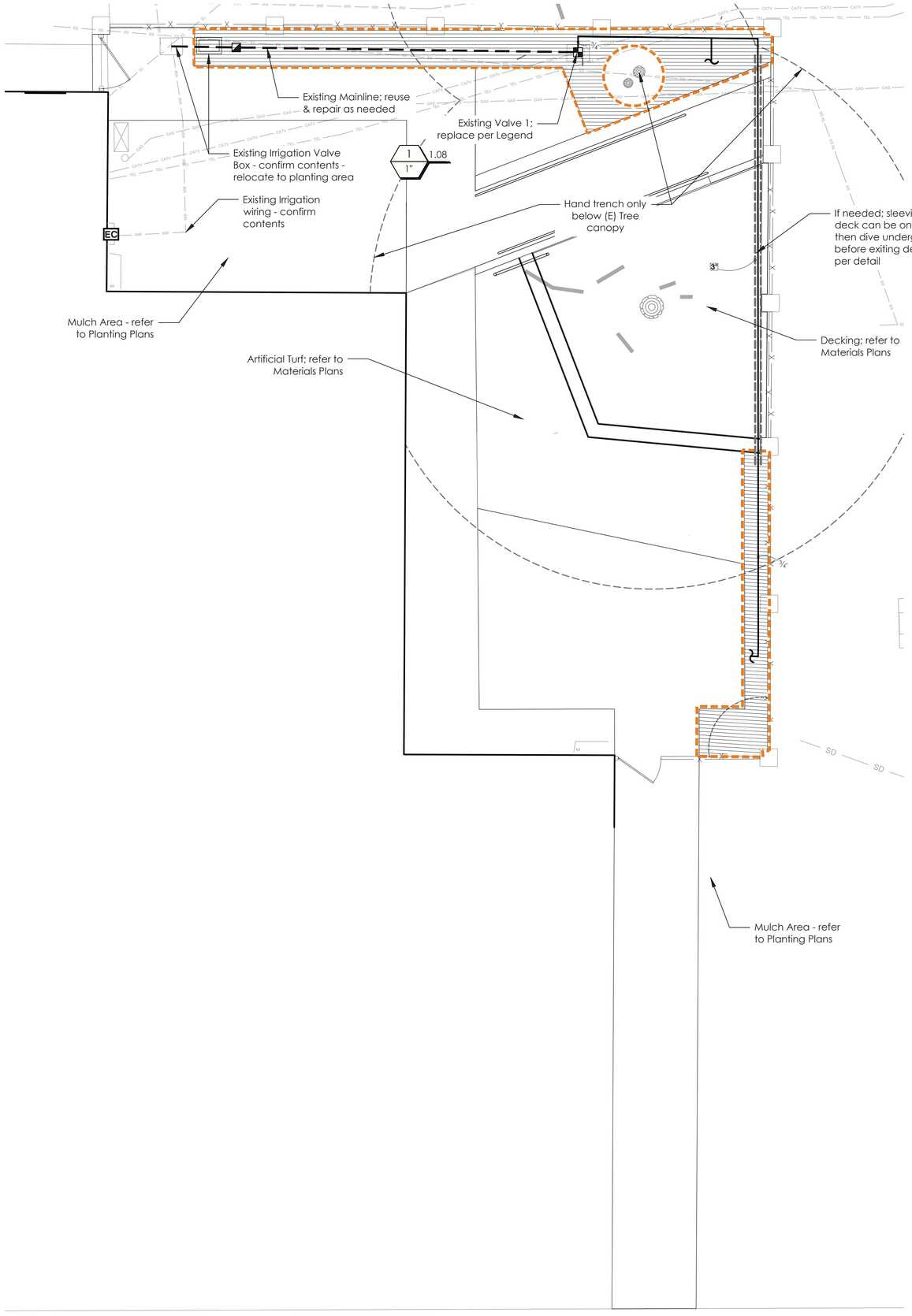
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

IRRIGATION NOTES & LEGEND

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L2.00



IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
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	Area to Receive Dripline Netafim TLCV-06-18 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. 17mm. Contractor to install on-grade and cover with 3" layer of bark mulch.	7/L2.02
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**	**DETAIL**
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EC	Existing Controller Located in wall-mounted box. Irritrol MC-18E to be retained and used	
	Irrigation Lateral Line: PVC Schedule 40 Size Per Plan.	
	Irrigation Mainline: Existing Mainline Existing Mainline; repair as needed. Assume 30psi at Valve(s)	
	Pipe Sleeve: PVC Schedule 40 Size per Plan	

Valve Callout
Valve Number
Valve Flow
Valve Size

SEE L2.00 FOR SUBMITTAL REQUIREMENTS

HYDROZONE DELINEATION

LOW WATER

REVIEWED FOR CODE COMPLIANCE
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SCALE: 3" = 1' - 0"

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Stamp

REGISTERED LANDSCAPE ARCHITECT
CHRISTINE TALBOT
#5226
SIGNATURE
1/31/25
RENEWAL DATE
5/22/24
DATE
STATE OF CALIFORNIA

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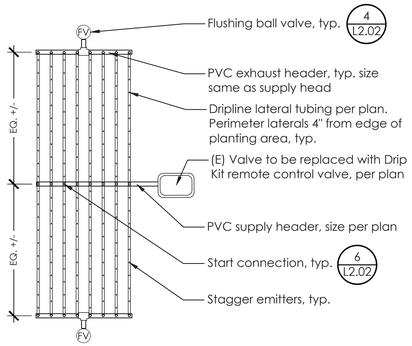
IRRIGATION PLAN & LEGEND

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

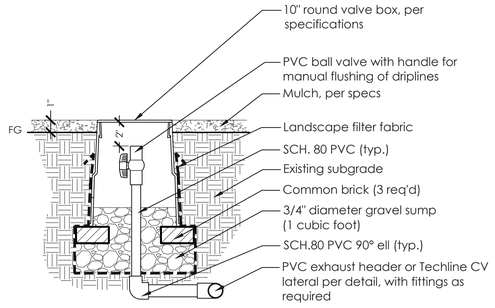
L2.01



NOTES:
1. Affix all lines to ground using soil staples every 3' from drip valve.
2. Dripline emitters shall be pressure compensating and have check valves.
3. See legend for emitter and row spacing.
4. Install check valves on supply and exhaust headers where elevation meets/exceeds 4-1/2' & as needed to prevent low-head drainage.

7 DRIPLINE LINEAR LAYOUT

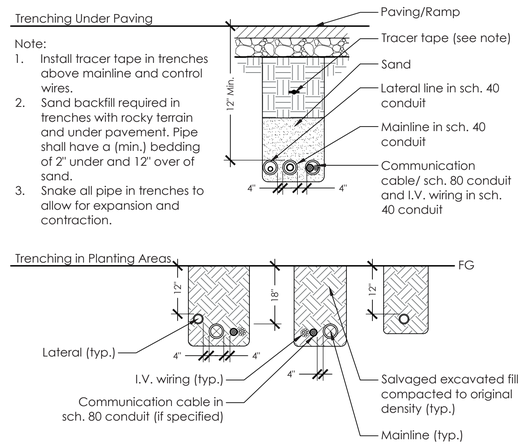
NOT TO SCALE P-IN-SCL-58



NOTE:
Locate flushing ball valves as shown on dripline layout details, and at low points as req'd by manufacturer.

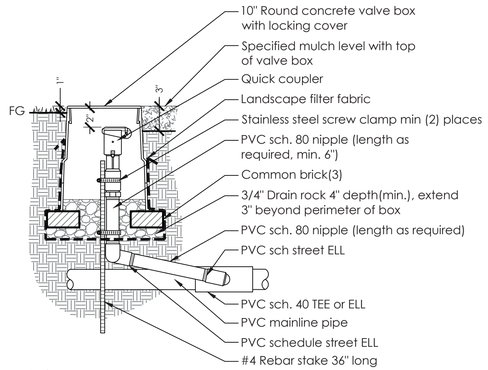
4 IRRIGATION DRIPLINE FLUSH VALVE

NOT TO SCALE P-CO-FIS5-51



1 PIPE AND TRENCHING

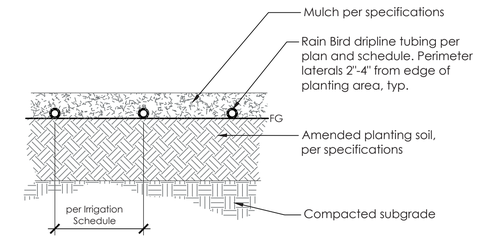
NOT TO SCALE P-IN-SCL-43



Notes:
1. Furnish fittings and piping nominally sized identical to nominal quick coupling valve inlet size.
2. All PVC threads shall have Teflon tape, except at ELL to ELL or ELL to TEE connections.

8 QUICK COUPLER - REBAR

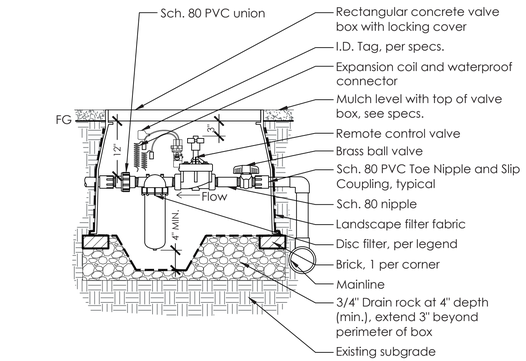
NOT TO SCALE P-IN-SCL-49



NOTE:
Install dripline tubing at finish grade, staple in place, per layout detail, then cover with mulch layer per planting details and specifications.

5 DRIPLINE ON-GRADE INSTALLATION

NOT TO SCALE P-IN-SCL-70

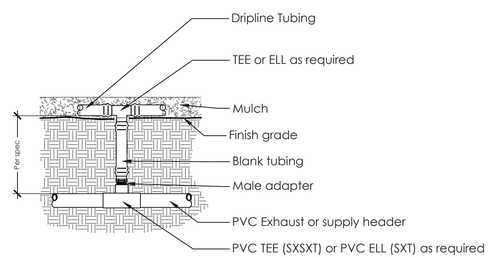


Notes:
1. Filter position as shown preferred to minimize debris in housing when servicing. Filter may be mounted horizontally or upside-down if needed due to space constraints.
2. Supply jumbo valve box and/or housing extensions as required to fit equipment.
3. Each RCV to receive a permanent tag with controller and station number.

2 REMOTE CONTROL VALVE - DRIP

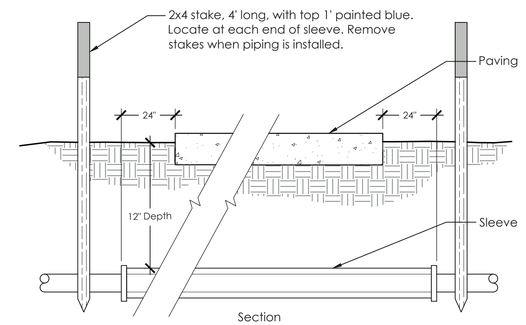
NOT TO SCALE P-IN-SCL-46

SEE L2.00 FOR SUBMITTAL REQUIREMENTS



6 DRIPLINE START CONNECTION ABOVE GRADE

NOT TO SCALE P-IN-SCL-69



Notes:
1. All pipe and fittings to be sch. 40 PVC, see plan for location.
2. Sleeves to be large enough to accept the pipe and fittings to be encased.
3. Provide a separate sleeve for each lateral or main crossing.
4. Provide a separate sleeve for control wire.
5. Tape all ends with duct tape to prevent entry of soil.

3 SLEEVE DETAIL

NOT TO SCALE P-IN-SCL-37

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IRRIGATION DETAILS

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
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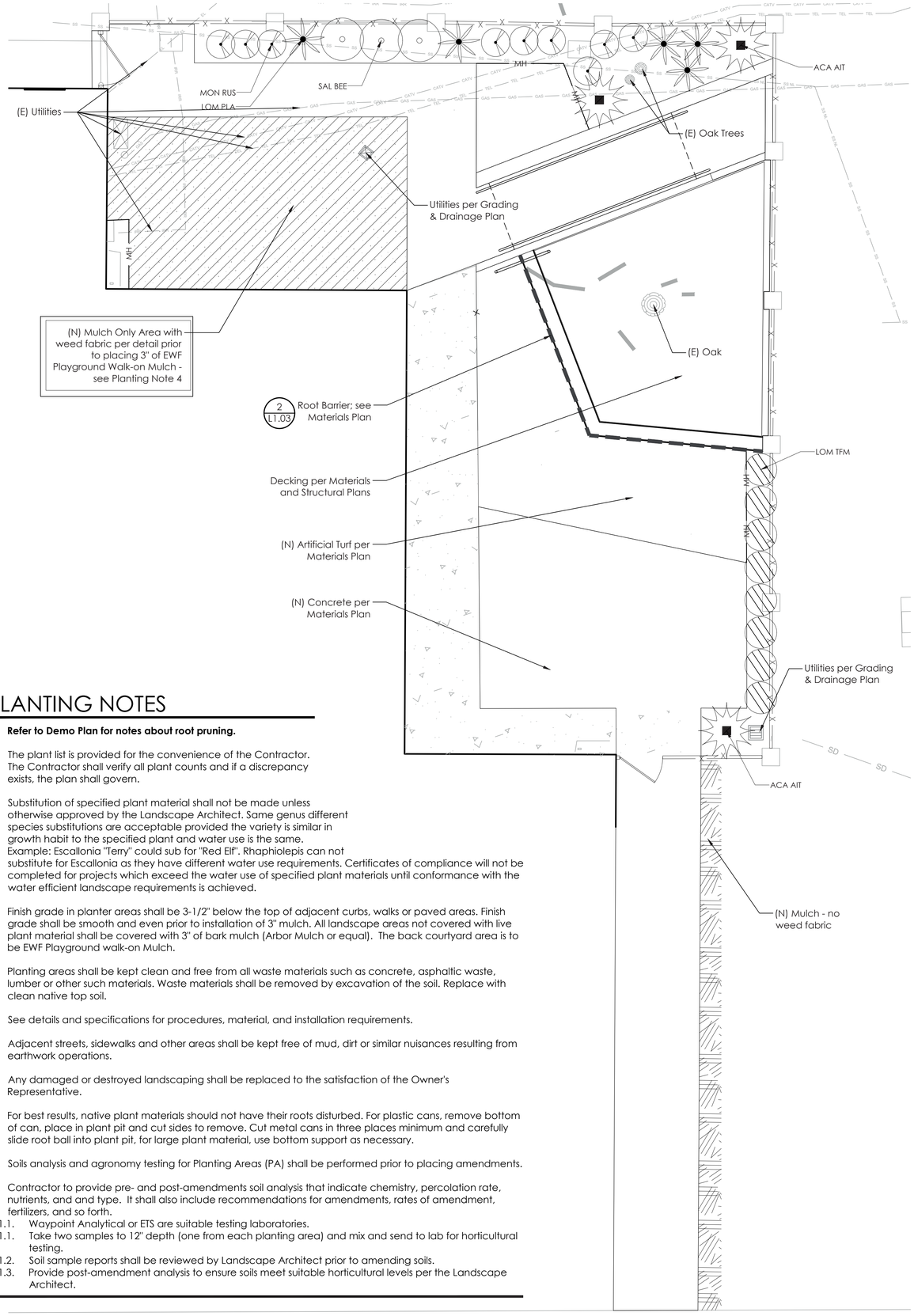
Scale: AS SHOWN

L2.02



PLANT LEGEND

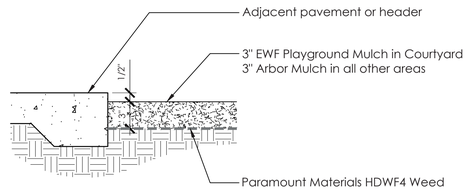
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING	QTY
SHRUBS						
	ACA AIT	Acacia cognata 'Cousin Itt' / Cousin Itt Acacia	10 gal	Low	Per Plan	3
	LOM PLA	Lomandra longifolia `Platinum Beauty` / Platinum Beauty Mat Rush	5 gal	Low	Per Plan	5
	LOM TFM	Lomandra x 'Little Lime' / Little Lime Mat Rush	5 gal	Low	Per Plan	8
	MON RUS	Monardella villosa 'Russian River' / Russian River Coyote Mint	5 gal	Low	Per Plan	9
	SAL BEE	Salvia x 'Bee's Bliss' / Bee's Bliss Sage	5 gal	Low		3

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

SUBMITTAL NOTES

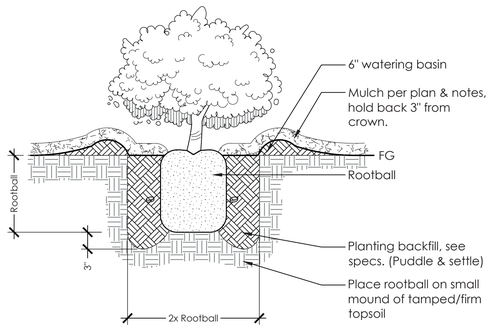
SUBMIT TO LANDSCAPE ARCHITECT PRODUCT INFORMATION AND DATA SHEETS IN AN ORGANIZED FORMAT FOR REVIEW.

1. Plant Quality Images per Legend prior to delivery.
2. Headers, Handrails and all other metals per plans/details.
3. Root barrier product data.
4. Surfaces including mulch, cobbles and others per plans/details.
5. Pre- and Post- amendment Soil analyses and associated amendments per the plans and reports; see Planting Notes.



1 MULCH

N.T.S. P-IN-SCL-57



Note:
Planting pit shall be the depth and two times the width of the root ball. Plant so that top of rootball is 1" above finished grade. Remove all nursery stakes.

2 SHRUB PLANTING

NOT TO SCALE P-IN-SCL-02

PLANTING NOTES

1. **Refer to Demo Plan for notes about root pruning.**
2. The plant list is provided for the convenience of the Contractor. The Contractor shall verify all plant counts and if a discrepancy exists, the plan shall govern.
3. Substitution of specified plant material shall not be made unless otherwise approved by the Landscape Architect. Same genus different species substitutions are acceptable provided the variety is similar in growth habit to the specified plant and water use is the same. Example: Escallonia "Terry" could sub for "Red Elf". Rhaphiolepis can not substitute for Escallonia as they have different water use requirements. Certificates of compliance will not be completed for projects which exceed the water use of specified plant materials until conformance with the water efficient landscape requirements is achieved.
4. Finish grade in planter areas shall be 3-1/2" below the top of adjacent curbs, walks or paved areas. Finish grade shall be smooth and even prior to installation of 3" mulch. All landscape areas not covered with live plant material shall be covered with 3" of bark mulch (Arbor Mulch or equal). The back courtyard area is to be EWF Playground walk-on Mulch.
5. Planting areas shall be kept clean and free from all waste materials such as concrete, asphaltic waste, lumber or other such materials. Waste materials shall be removed by excavation of the soil. Replace with clean native top soil.
6. See details and specifications for procedures, material, and installation requirements.
7. Adjacent streets, sidewalks and other areas shall be kept free of mud, dirt or similar nuisances resulting from earthwork operations.
8. Any damaged or destroyed landscaping shall be replaced to the satisfaction of the Owner's Representative.
9. For best results, native plant materials should not have their roots disturbed. For plastic cans, remove bottom of can, place in plant pit and cut sides to remove. Cut metal cans in three places minimum and carefully slide root ball into plant pit, for large plant material, use bottom support as necessary.
10. Soils analysis and agronomy testing for Planting Areas (PA) shall be performed prior to placing amendments.
11. Contractor to provide pre- and post-amendments soil analysis that indicate chemistry, percolation rate, nutrients, and and type. It shall also include recommendations for amendments, rates of amendment, fertilizers, and so forth.
    - 11.1. Waypoint Analytical or ETS are suitable testing laboratories.
    - 11.1. Take two samples to 12" depth (one from each planting area) and mix and send to lab for horticultural testing.
    - 11.2. Soil sample reports shall be reviewed by Landscape Architect prior to amending soils.
    - 11.3. Provide post-amendment analysis to ensure soils meet suitable horticultural levels per the Landscape Architect.

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Cloverdale, CA 95425

Stamp

REGISTERED LANDSCAPE ARCHITECT
CHRISTINE TAKAMOTO
#5226
SIGNATURE
1/31/25
RENEWAL DATE
5/31/24
DATE
STATE OF CALIFORNIA

Issuances & Revisions

No.	Description	Date
1	Permit Re-submittal 1	08/09/24

Key Plan/Consultant Stamp

PLANTING PLAN, NOTES, & LEGEND

Drawn By: BNK/CT
Checked By: CT
Date: 2024/08/09
Project Number: 22-1758
Scale: AS SHOWN

L3.00

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

COLD-FORMED METAL FRAMING

1. ALL STUD NOMENCLATURE AND PROPERTIES MAY BE FOUND IN THE STEEL FRAMING MANUALS OF THE METAL STUD MANUFACTURER'S ASSOCIATION.
2. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE LATEST EDITION OF THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
3. METAL STUDS, RUNNER TRACK AND ALL MANUFACTURED MISCELLANEOUS ITEMS FOR STUD CONSTRUCTION SHALL BE MANUFACTURED BY A MEMBER COMPANY OF THE METAL STUD MANUFACTURER'S ASSOCIATION. STUDS OF OTHER MAKE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL BY STRUCTURAL ENGINEER.
4. ALL LIGHT GAGE STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE GALVANIZED AND SHALL MEET THE REQUIREMENTS OF ASTM A653, STRUCTURAL QUALITY, GRADE 50, CLASS 1 (FY = 50 KSI) FOR STEELS THICKER THAN 18 GAUGE (43 MILS) AND ASTM A653, STRUCTURAL QUALITY, GRADE 33 (FY = 33 KSI) FOR 18 GAUGE (43 MILS) AND THINNER STEELS FOR THE ITEM AND USE INTENDED.
5. ALL MEMBERS SHALL BE CUT SQUARELY OR AS REQUIRED, FITTED AND SEATED PROPERLY TO ABUTTING MEMBERS. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED AT FLANGES OR WEBS OF TRACKS.
6. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
7. FASTENING OF COMPONENTS SHALL BE WITH TEKS SCREWS OR EQUIVALENT SELF DRILLING, SELF TAPPING SCREWS OR WELDING. SCREWS OR WELD SIZES SHALL BE SHOWN ON THE DRAWINGS.
8. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.3.
9. PROVISIONS FOR POSSIBLE VERTICAL MOVEMENT OF FLOORS AT WALLS SHALL BE BY USE OF "SLIDE CLIPS".
10. TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED UNTIL ERECTION IS COMPLETE AND SAFELY SECURED TO STRUCTURE.

STEEL STUD STRUCTURAL PROPERTIES

SECTION (MILS)	GAUGE	Fy (KSI)	GROSS A (in^2)	EFFECTIVE Sx (in^3)	EFFECTIVE Ix (in^4)	INTENDED USE	REMARKS
800S250 -97	12	50	1.372	3.054	12.789	TYP JOIST	
800S250 -97	12	50	1.372	3.054	12.789	HEADERS	
800S350 -68	14	50	1.174	2.596	12.046	HEADERS	

1. STUD AND TRACK DESIGNATIONS ARE BASED ON METAL STUD MANUFACTURERS ASSOCIATION, ICBO REPORT NO. 4943.
2. SEE ICBO REPORT NO. 4943 FOR TYPICAL METAL STUD INSTALLATION.
3. FOR STUD SIZE AND LOCATION SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

STRUCTURAL ABBREVIATIONS

@	AT	HDR	HEADER
AB	ANCHOR BOLTS	HK	HOOK
ABV	ABOVE	HORIZ	HORIZONTAL
AC	ASPHALTIC CONCRETE	HSA	SEE HAS
ADDNL	ADDITIONAL	HSB	HIGH STRENGTH BOLT
AFF	ABOVE FINISH FLOOR	ID	INSIDE DIAMETER
AGG	AGGREGATE	IN (")	INCH
ALT	ALTERNATE	INT	INTERIOR
ALUM	ALUMINUM	JST	JOIST
APPROX	APPROXIMATE	JT	JOINT
ARCH	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
BN	BOUNDARY NAILING	LLV	LONG LEG VERTICAL
BLW	BELOW	LONG	LONGITUDINAL
BEV	BEVELED	LS	LAG SCREW
BLDG	BUILDING	LT WT	LIGHT WEIGHT
BLK	BLOCK	LG	LONG
BLKG	BLOCKING	L.W.C.	LIGHT WEIGHT CONCRETE
BM	BEAM	MAX	MAXIMUM
BOC	BOTTOM OF CONCRETE	MB	MACHINE BOLT
BOF	BOTTOM OF FOOTING	M.C.J.	MASONRY CONTROL JOINT
BOTT	BOTTOM	MECH	MECHANICAL
BRCG	BRACING	MEZZ	MEZZANINE
BRG	BEARING	M.I.	MALLEABLE IRON
BRG PL	BEARING PLATE	MISC	MISCELLANEOUS
BTW	BETWEEN	MIW	MALLEABLE IRON WASHER
CC	CENTER TO CENTER	MFR	MANUFACTURER
CIP	CAST IN PLACE	MRD	METAL ROOF DECK
CJ	CONSTRUCTION JOINT	MTL	METAL
CTR	CENTER	NIC	NOT IN CONTRACT
CL	CENTER LINE	NO	NUMBER
CLG	CEILING	NOM	NOMINAL
CLR	CLEAR	NSG	NON- SHRINK GROUT
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONN	CONNECTION	OJ	OPEN WEB METAL JOIST
CONSTR JT	CONSTRUCTION JOINT	OPG	OPENING
CONT	CONTINUOUS	OPH	OPPOSITE HAND
DBL	DOUBLE	PCC	PRECAST CONCRETE
DEPR	DEPRESSED	PC	PIECE
DF	DOUGLAS FIR	PERP	PERPENDICULAR
DIA,	DIAMETER	PL	PLATE
DIAG	DIAGONAL	PLWD	PLYWOOD
DIM	DIMENSION	PN	PERIMETER NAILING
DN	DOWN	PSF	POUNDS PER SQUARE FOOT
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING	PT	POINT
EA	EACH	R	RADIUS
EF	EACH FACE	REINF	REINFORCING
EN	EDGE FASTENER	REQ	REQUIRED
EW	EACH WAY	SAD	SEE ARCHITECTURAL DRAWINGS
EW EF	EACH WAY EACH FACE	SHTHG	SHEATHING
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SJ	SHRINKAGE JOINT
EOS	EDGE OF SLAB	SLH	SHORT LEG HORIZONTAL
EQ	EQUAL	SLV	SHORT LEG VERTICAL
EXP B	EXPANSION BOLT	SM	SHEET METAL
EXT	EXTERIOR	SOG	SLAB ON GRADE
FAB	FABRICATE	SQ	SQUARE
FD	FLOOR DRAIN	SP	STRUCTURAL PANEL
FF	FINISH FLOOR	STAG	STAGGER
FFE	FINISH FLOOR ELEVATION	STD	STANDARD
FG	FINISH GRADE	STIFF	STIFFENER
FHWS	FLAT HEAD WOOD SCREW	STL	STEEL
FLG	FLANGE	STRUC	STRUCTURAL
FN	FIELD FASTENER	SYM	SYMMETRICAL
FND	FOUNDATION	T24	TITLE 24 CALIFORNIA CODE
FOC	FACE OF CONCRETE	THRD	THREADED
FOM	FACE OF MASONRY	THK	THICK
FOS	FACE OF STUD	TOC	TOP OF CONCRETE
FT (')	FOOT/FEET	TOF	TOP OF FOOTING
FTG	FOOTING	T.O.SLAB	TOP OF SLAB
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GL	GLUE LAMINATED LUMBER	TRAN	TRANSVERSE
GT	GROUT	TS	TUBE STEEL
GWB	GYPSUM WALL BOARD	TYP	TYPICAL
HAS	HEADED ANCHOR STUD	T&B	TOP AND BOTTOM
HC	HANDICAP	UNO	UNLESS NOTED OTHERWISE
		WWF	WELDED WIRE FABRIC

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.

EXPANSION ANCHORS
NORMAL WEIGHT CONCRETE

F'c = 3000 PSI

EXPANSION ANCHORS — STAINLESS STEEL Fy = 36 KSI
HILTI KWIK BOLT TZ2-SS 304 — ICC ESR No. 4266

ANCHOR DIAMETER	EFFECTIVE EBMED DEPTH (INCHES)	NOMINAL EBMED DEPTH (INCHES)	INSTALLATION TORQUE (FT-LBS)
1/2"	3 1/4"	3.625"	40

EXPANSION ANCHORS DETAIL
2 / LS1.0 — NTS

CONCRETE AND REINFORCING STEEL

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19 AND 2022 CALIFORNIA BUILDING CODE.
2. THE MINIMUM 28 DAY STRENGTH SHALL BE AS FOLLOWS:
   SLABS ON GRADE . . . . . 150 PCF, F'c = 3000 PSI
   FOUNDATIONS . . . . . 150 PCF, F'c = 3000 PSI
   (CONCRETE DESIGNED FOR 2500 PSI, THEREFORE NO INSPECTIONS REQUIRED) ⚠1
3. CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR II.
4. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C-33.
5. REINFORCING SHALL CONFORM TO ASTM A615 – GRADE 60 INCLUDING SUPPLEMENTARY REQUIREMENTS S1,Fy = 60 KSI.
6. WELDING OF REINFORCING STEEL SHALL CONFORM TO ANSI / AWS D1.4-(LATEST EDITION) USING PROPER LOW HYDROGEN ELECTRODES. TACK WELDING TO REBAR IS STRICTLY PROHIBITED. SEE REBAR WELDING NOTE BELOW.
7. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
8. WIRE FABRIC SHALL CONFORM TO ASTM A185.
9. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO ON DRAWINGS:
   CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) 3"
   CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS 2"
   SLABS (ON GROUND). . . . . POSITION IN CENTER OF SLAB
10. A) ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNLESS OTHERWISE NOTED. SEE TABLE "REINFORCEMENT LAP SPLICES" ON THIS SHEET.
    B) SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART.
    C) DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH THE SAME SIZE REINFORCING.
11. GENERAL:
    A) NO PIPES OR DUCT SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
    B) REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
12. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING, OR HOSING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
13. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
14. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
15. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
16. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO SQUARES MIN. EACH DIRECTION.
17. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE.

REINFORCEMENT LAP SPLICE LENGTHS (IN INCHES)

F'C = 3000 PSI AT 28 DAYS

SPLICE CLASS	REINF LOCATION	REINFORCEMENT SIZE (GR60, UNO) #3	#4	#5	#6	#7	#8	#9	#10	#11
A	TOP	21	28	37	46	63	82	104	132	162
	BOTTOM	16	22	27	35	48	63	80	102	125
B	TOP	27	36	45	60	82	107	135	172	210
	BOTTOM	21	20	37	46	63	82	104	132	162

TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN TWELVE INCHES OF CONCRETE PLACED BELOW IT.

LAP SPLICE LENGTHS ABOVE ARE BASED ON CRSI CATEGORY 3.

WHERE CENTER TO CENTER SPACING BETWEEN BARS BEING LAP SPLICED IS LESS THAN OR EQUAL TO 3 BAR DIAMETERS OR CLEAR BAR COVER IS LESS THAN OR EQUAL TO 1 BAR DIAMETER, INCREASE LAP SPLICE LENGTH 45% (CRSI CATEGORY 1).

ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY.

POST INSTALLED ANCHORS:

EXPANSION & ADHESIVE ANCHORS (NON-T24).dwg

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ESR REPORTS:
   HILTI KWIK HUS-EZ ..... ESR-3027 (IN CONCRETE)
   HILTI KWIK BOLT TZ2 ..... ESR-4266 (IN CONCRETE)
2. SPECIAL INSPECTION IS REQUIRED FOR ESR ALLOWABLE TENSION VALUES LISTED IN ESR REPORTS ABOVE.
3. DESIGN LOADS ON ANCHORS ARE NOT TO EXCEED 100% OF THE TENSION & SHEAR VALUES LISTED IN THE ESR REPORT NOTED ABOVE – COMBINED LOADING.
4. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.

EXPANSION ANCHORS
NORMAL WEIGHT CONCRETE

F'c = 3000 PSI

EXPANSION ANCHORS — STAINLESS STEEL Fy = 36 KSI
HILTI KWIK HUS -EZ — ICC ESR No. 3027

ANCHOR DIAMETER	EFFECTIVE EBMED DEPTH (INCHES)	NOMINAL EBMED DEPTH (INCHES)	INSTALLATION TORQUE (FT-LBS)
1/2"	4 1/4"	4.25"	34

EXPANSION ANCHORS DETAIL
1 / LS1.0 — NTS

MARTIN CONSULTING GROUP, INC.
PROVIDING STRUCTURAL DESIGN
2351 SUNSET BLVD, STE 170-402
ROCKLIN, CA 95765
PHONE (916)256-4816 CELL (916)612-1045
EMAIL: JONM@MARTINCONSULTINGGROUP.BIZ

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE AND CITY OF SONOMA ORDINANCE, LATEST EDITION.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
4. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL REINFORCING STEEL, STEEL FRAMING, AND CONCRETE MIX PROPORTIONS.
   SHOP DRAWINGS: SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
5. SAFETY NOTE:
   A) IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B) THE ARCHITECT, STRUCTURAL ENGINEER, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.

DESIGN CRITERIA:

CODE
2022 CALIFORNIA BUILDING CODE
LIVE LOADS
DECKING . . . . . 100.0 PSF (UNREDUCIBLE)

LATERAL LOADS
SEISMIC
NA

Ss= 187.8%
S1= 71.0%
SITE CLASS = D
I = 1.00
Fa = 1.2
Fv = 1.8
OCCUP. CAT. = II
SEIMSIC DESIGN CAT. = D

WIND
SIMPLIFIED DESIGN PROCEDURE
BASIC WIND = 92 MPH
EXPOSURE C

SNOW
NA

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON 2022 CALIFORNIA BUILDING CODE (TABLE 1806.2) WITH AN ALLOWABLE BEARING PRESSURE OF 1500 PSF AND LATERAL PRESSURE OF 250 PSF.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SHORE AND BRACE AS REQUIRED. SEE SAFETY NOTES FOR ADDITIONAL INFORMATION.
3. ALL FOUNDATIONS ARE SHOWN AND DIMENSIONED AS BEING FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED FOOTINGS ARE INCREASED 2" IN WIDTH,
4. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS AND LOOSE SOIL. STANDING WATER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.
5. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAILS.
6. FOOTINGS SHALL BE CENTERED UNDER WALLS AND/OR COLUMNS UNLESS OTHERWISE INDICATED ON DRAWINGS.
7. CONTRACTOR SHALL CHECK FOOTING FORMS TO VERIFY THAT THEY ARE SQUARE & PLUMB. THE CONTRACTOR SHALL ALSO VERIFY THAT ALL INSERTS & EMBEDS ARE IN THEIR CORRECT LOCATION & ORIENTATION PRIOR TO PLACING CONCRETE.
8. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS IN ADVANCE OF PLACING CONCRETE.

INSPECTION NOTES:

1. GENERAL: IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 108 OF THE 2022 CBC, THE OWNER SHALL EMPLOY AN CBC APPROVED SPECIAL INSPECTOR TO PERFORM SPECIAL INSPECTIONS & TESTS AS INDICATED IN THE SCHEDULE BELOW.
2. INSPECTORS: ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY WHICH IS IN THE EMPLOYMENT OF THE OWNER.
3. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329 AND APPROVED BY CITY OF SACRAMENTO.
4. PROVIDE INSPECTION REPORTS TO BUILDING DEPARTMENT, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE INSPECTION OR TEST.
5. REFER TO CHAPTER 17 OF THE CODE FOR OTHER REQUIRED SPECIAL INSPECTIONS AND TESTS NOT LISTED IN THE SCHEDULE BELOW.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THE TESTS AND INSPECTIONS ARE PERFORMED. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS.
7. WHERE THE CONTRACTOR CHOOSES TO USE OPTIONAL OR ALTERNATIVE MEANS OF FASTENING OR ANCHORING MATERIALS AS SHOWN ON THE PLANS AND DETAILS AND REQUIRES SPECIAL FIELD INSPECTION, SUCH AS FIELD WELDING, ADHESIVE OR EXPANSION ANCHORS, ETC. ALL ADDITIONAL SPECIAL INSPECTION AND TESTING COSTS SHALL BE PAID BY THE OWNER AND DEDUCTED FROM THE CONTRACT AMOUNT.

SPECIAL STRUCTURAL INSPECTION AND TESTING SCHEDULE:

SPECIAL STRUCTURAL T&I SCHEDULE.dwg

1. CONCRETE
   [ ] CONTINUOUS PLACEMENT INSPECTION
   [ ] 4 CYLINDERS PER 150 CY
   TEST: 1 @ 7 DAYS 2 @ 28 DAYS 1 HOLD
2. BOLTS INSTALLED IN CONCRETE
   [ ] ALL BOLTS
   [ ] LOCATION: _____
3. SPECIAL MOMENT-RESISTING CONCRETE FRAMES
   [ ] AS INDICATED
   [ ] LOCATION: _____
4. REINFORCING STEEL AND PRESTRESSING TENDONS
   [ ] PLACEMENT INSPECTION
   [ ] STRESSING AND GROUTING OF TENDONS
5. STRUCTURAL MASONRY: f'm = 1500 STRESSES
   VERIFICATION OF f'm: [ ] PRISM TESTS [ ] PRISM TEST RECORD [ ] UNIT STRENGTH
   [ ] CONTINUOUS INSPECTION
   [ ] PERIODIC INSPECTION: LEVEL 1 INSPECTION

TEST	BEFORE	DURING
PRISMS	[ ]	[ ]
UNITS	[ ]	[ ]
GROUT	[ ]	[ ]
MORTAR	[ ]	[ ]

6. SPECIAL GRADING, EXCAVATION, AND FILLING
   [X] PERIODIC INSPECTION (per SEOR observations)
   [ ] SUBGRADE TESTS
   [ ] COMPACTION TEST
   [X] VERIFY BEARING STRATA (per SEOR observations)
7. SPECIAL CASES
   [ ] SHEAR WALL / DIAPHRAGM NAILING (4" or less)
   EXPANSION OR ADHESIVE ANCHORS
   INSTALLATION IN EXISTING CONCRETE/MASONRY
   [X] INSTALLATION INSPECTION
   [X] PROOF LOAD TESTING (TORQUE TEST)
   [ ] SHORING
   [ ] UNDERPINNING
   [ ] WOOD FRAMING
   [ ] GROUTED DOWELS INSTALLATION

NOTES:
1. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329.
2. PROVIDE INSPECTION REPORTS TO BUILDING DEPARTMENT, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE OF INSPECTION OR TEST.
3. THE ABOVE SCHEDULE DOES NOT INCLUDE ALL SPECIAL INSPECTIONS AND TESTS REQUIRED BY CHAPTER 17 OF THE CODE.

QUADRIGA
landscape architecture and planning, inc.
SACRAMENTO | SANTA ROSA
916.441.2129 | www.quadriga-inc.com

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401 N Cloverdale Blvd
Cloverdale, CA 95425

Stamp

REGISTERED PROFESSIONAL ENGINEER
JONATHAN JAMES MARTIN
No. SE4900
EXP. 6/30/26
STRUCTURAL
STATE OF CALIFORNIA

Issuances & Revisions

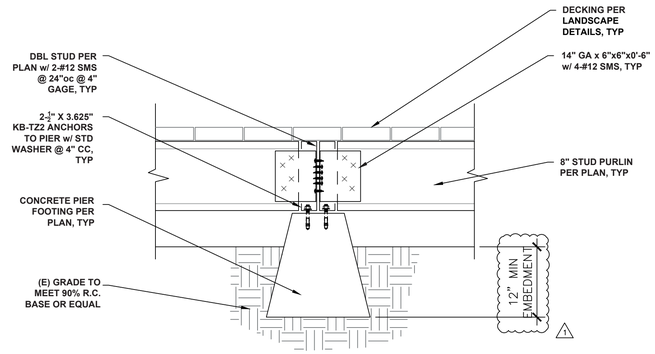
No.	Description	Date
⚠1	PLAN REVIEW	08/09/24

Key Plan/Consultant Stamp

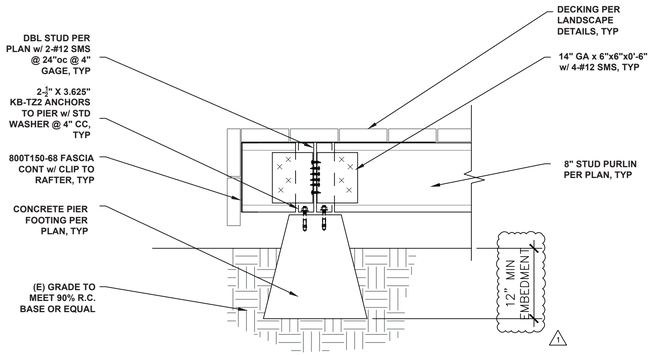
STRUCT. NOTES PLANS & DETAILS

Drawn By: JM
Checked By: JJM
Date: 2024/05/10
Project Number: MCG 24077
Scale: AS SHOWN

LS1.0



GIRDER SECTION DETAIL
1 LS2.0
1 1/2"=1'-0"



EDGE SECTION DETAIL
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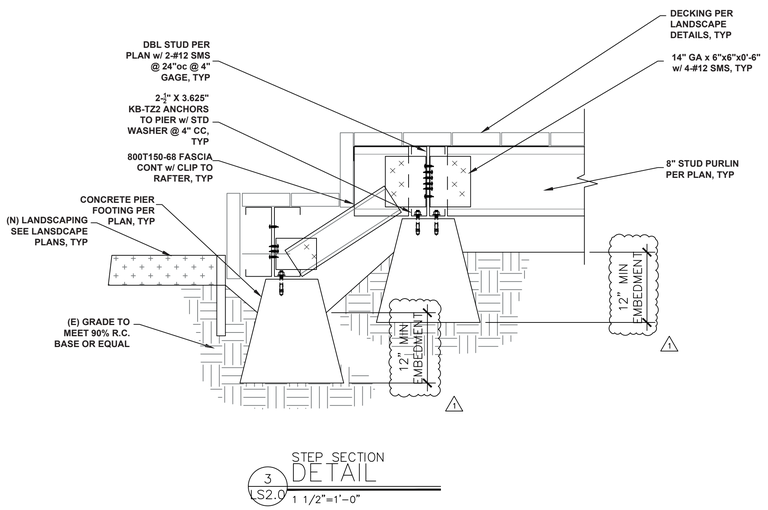

STEP SECTION DETAIL
3 LS2.0
1 1/2"=1'-0"

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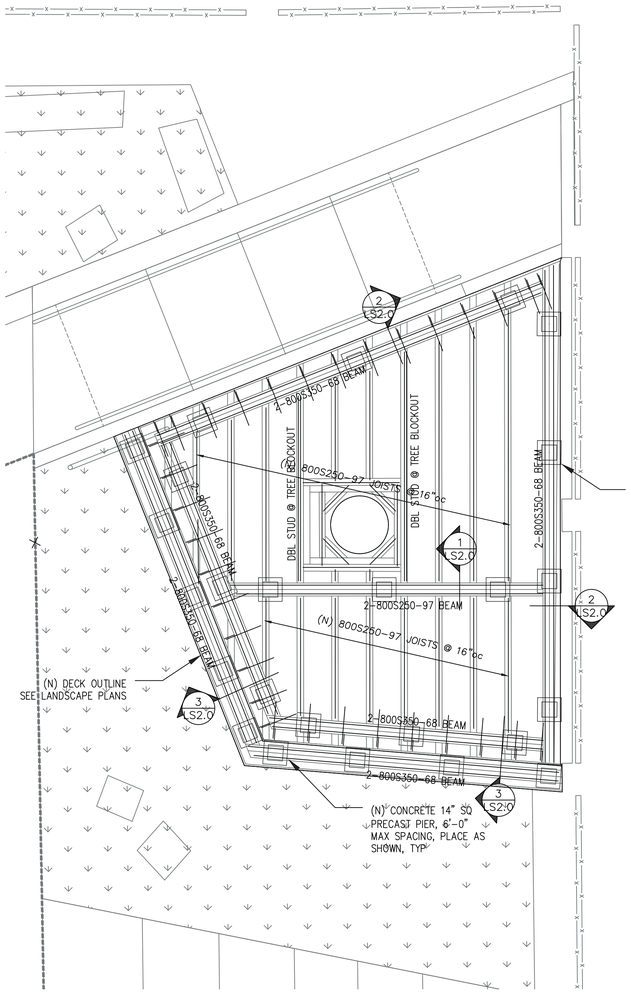

DECK FND. & FRMING PLAN
3/8"=1'-0"

MARTIN CONSULTING GROUP, INC.
PROVIDING STRUCTURAL DESIGN
2351 SUNSET BLVD., STE 170-402
ROCKLIN, CA 95765
PHONE (916)256-4816 CELL (916)612-1041
EMAIL: JON@MARTINCONSULTINGGROUP.BIZ

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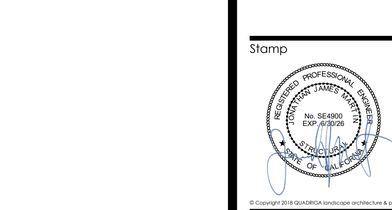


Issuances & Revisions

No.	Description	Date
1	PLAN REVIEW	08/09/24

Key Plan/Consultant Stamp

STRUCT. PLANS
PLANS & DETAILS

Drawn By: JM
Checked By: JJM
Date: 2024/05/10
Project Number: MCG 24077
Scale: AS SHOWN

LS2.0

MECHANICAL SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
	CD	CEILING SUPPLY DIFFUSER
	CR, RG, EG	RETURN/EXHAUST AIR GRILLE
	CR, DL, SG	AIR OUTLET MOUNTED IN WALL OR DOOR
	VD	VOLUME DAMPER
14x12		DUCT SIZE, FIRST DIM IN PLANE OF PAGE
14x12L	L	LINED DUCTWORK
		DEMOLITION
		TURNING VANES
	FC	FLEXIBLE CONNECTION
	FD	FIRE DAMPER
		SUPPLY DUCT UP
		RETURN/EXHAUST DUCT UP
T	T	THERMOSTAT
	POC	POINT OF CONNECTION
SD	SD	DUCT SMOKE DETECTOR
M		MOTOR-ACTUATOR
		MECHANICAL EQUIPMENT TAG
		MECHANICAL DETAIL CALLLOUT
	AFF	ABOVE FINISHED FLOOR
	BDD	BACK DRAFT DAMPER
	CTE	CONNECT TO EXISTING
	DG	DOOR GRILLE
	DN	DOWN
	DWG	DRAWING
	(E)	EXISTING
	FLA	FULL LOAD AMPS
	FSD	FIRE SMOKE DAMPER
	IJS	IN JOIST SPACE
	MBH	THOUSAND BTU PER HOUR
	MCA	MINIMUM CIRCUIT AMPS
	MOCP	MAXIMUM OVER CURRENT PROTECTION
	NTS	NOT TO SCALE
	OA	OUTSIDE AIR
	(RE)	RELOCATE EXISTING
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	SAD	SEE ARCHITECTURAL DRAWINGS
	SCD	SEE CIVIL DRAWINGS
	SED	SEE ELECTRICAL DRAWINGS
	SFD	SEE FOOD SERVICE DRAWINGS
	SHD	SEE HYDRONIC DRAWINGS
	SMD	SEE MECHANICAL DRAWINGS
	SPD	SEE PLUMBING DRAWINGS
	SRD	SEE REFRIGERATION DRAWINGS
	SSD	SEE STRUCTURAL DRAWINGS
	TYP	TYPICAL
	U/C	UNDERCUT DOOR 5/8"
	UON	UNLESS OTHERWISE NOTED
	VIF	VERIFY IN FIELD
	VTR	VENT THROUGH ROOF

DIVISION 23 00 00
MECHANICAL

1. GENERAL

1.1 SCOPE
A. THE WORK IN THIS SECTION INCLUDES, BUT IS NOT LIMITED TO, PROVIDING ALL MECHANICAL WORK AS SHOWN AND NOTED ON THE MECHANICAL DRAWINGS AND SPECIFICATIONS, INCLUDING THE FOLLOWING ITEMS:
1. MECHANICAL EQUIPMENT AND APPURTENANCES.
2. DUCTWORK, DUCT INSULATION AND APPURTENANCES.
3. CONTROLS & CONTROL WIRING.

1.2 CODES AND STANDARDS
A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING DOCUMENTS:
1. 2022 CALIFORNIA BUILDING CODE (CBC)
2. 2022 CALIFORNIA PLUMBING CODE (CPC)
3. 2022 CALIFORNIA MECHANICAL CODE (CMC)
4. 2022 CALIFORNIA ELECTRICAL CODE (CEC)
5. 2022 CALIFORNIA FIRE CODE (CFC)
6. 2022 CALIFORNIA ENERGY CODE (TITLE 24)
7. 2022 CALIFORNIA GREEN BUILDING CODE (CALGREEN)
8. NATIONAL ELECTRIC CODE (NEC)
9. AMERICANS WITH DISABILITIES ACT (ADA)
10. SHEET METAL CONTRACTORS AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA), HVAC DUCT CONSTRUCTION STANDARDS AND SEISMIC RESTRAINT MANUAL.
11. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
12. LOCAL CODES AND ORDINANCES

B. WHENEVER THIS SPECIFICATION CALLS FOR MATERIAL, WORKMANSHIP, ARRANGEMENT OR CONSTRUCTION OF HIGHER QUALITY AND/OR CAPACITY THAN THAT REQUIRED BY GOVERNING CODES, HIGHER QUALITY AND/OR CAPACITY TAKES PRECEDENCE.

1.3 DRAWINGS AND SPECIFICATIONS
A. WHERE A CONFLICT EXISTS BETWEEN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE ARCHITECT FOR INTERPRETATION AND RESOLUTION. THE MOST STRINGENT REQUIREMENTS SHALL BE USED FOR BID.

1.4 PERMITS
A. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES AND FEES THAT ARE REQUIRED TO PERFORM THE WORK. PROVIDE THE ARCHITECT WITH THE ORIGINAL CERTIFICATES, PERMITS, LICENSES AND RECEIPTS FOR FEES.

1.5 SUBMITTALS
A. PROVIDE COMPLETE PRODUCT SUBMITTALS AND SHOP DRAWINGS IN ELECTRONIC FORMAT (PDF), AS ONE COMPLETE PACKAGE, PRIOR TO COMMENCING WORK OR PRIOR TO ORDERING ANY MATERIALS.

1.2 QUALITY ASSURANCE
A. REGULATORY REQUIREMENTS: WORK AND MATERIALS INSTALLED TO CONFORM WITH ALL LOCAL, STATE, FEDERAL AND OTHER APPLICABLE LAWS AND REGULATIONS.

B. DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT DIMENSIONS, OR DETAILS OF EQUIPMENT OR PROPOSED SYSTEMS LAYOUT. VERIFY ACTUAL DIMENSIONS OF SYSTEMS (I.E., PIPING) AND EQUIPMENT PROPOSED TO ASSURE THAT SYSTEMS AND EQUIPMENT WILL FIT IN AVAILABLE SPACE.

C. MANUFACTURER'S INSTRUCTIONS: FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS. IF IN CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN CLARIFICATION. NOTIFY ENGINEER/ARCHITECT, IN WRITING, BEFORE STARTING WORK.

D. UL COMPLIANCE: PROVIDE ELECTRICAL PANELS AND EQUIPMENT WHICH ARE UL OR ETL LISTED.

E. INSTALLER QUALIFICATIONS: INSTALLER SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF MECHANICAL SYSTEMS BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM MECHANICAL INSTALLATION WHERE UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL MECHANICAL SYSTEMS.

1.3 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT
A. THE NAMED MATERIALS AND EQUIPMENT ARE CONSIDERED THE BASIS FOR DESIGN; HOWEVER EQUAL MATERIALS AND EQUIPMENT MAY BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. THE DECISION OF THE OWNER AND ENGINEER SHALL BE FINAL AND SHALL GOVERN AS TO WHAT MATERIALS AND EQUIPMENT MAY BE SUBSTITUTED, BUT THE BURDEN OF PROOF AS TO THE QUALITY, PERFORMANCE AND SPACE REQUIREMENTS OF ANY PROPOSED SUBSTITUTION SHALL REST WITH THE CONTRACTOR.

1.4 WARRANTY
A. THE CONTRACTOR SHALL PROVIDE A ONE-YEAR WARRANTY FOR THE WORK OF THIS SECTION. DURING THIS PERIOD THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO REPAIR OR REPLACE DEFECTIVE SYSTEMS. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF FINAL ACCEPTANCE, PER SECTION 3 BELOW.

B. ADDITIONAL WARRANTY CONDITIONS: WHERE APPLICABLE, PROVIDE ADDITIONAL WARRANTY TIME PERIOD AND/OR CONDITIONS IN ACCORDANCE WITH THE GENERAL CONDITIONS SECTION OF THE PROJECT SPECIFICATIONS MANUAL.

2. PRODUCTS

2.1 DUCTWORK
A. DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET METAL IN ACCORDANCE WITH THE LATEST EDITION OF "SMACNA HVAC DUCT CONSTRUCTION STANDARDS".

2.2 DUCT SPECIALTIES
A. DUCT JOINT SEALER: HARDCAST DUCT SEAL 321 OR EQUAL UNITED MCGILL, INDOOR AND OUTDOOR DUCT SEALER, GRAY SMOOTH FINISH, WATER BASED LOW VOCS. UP TO 10" WG DUCT PRESSURE RATED. INSTALL 20 MIL THICKNESS MINIMUM. WHERE DUCT SEALER IS INSTALLED OUTDOORS AND INSTALLED DURING WET CONDITIONS, USE HARDCAST METAL BOND.

B. DUCT FLEX CONNECTORS: 24 GAGE GALVANIZED IRON WITH GRIP LOCK SEAMS MEETING NFPA 701, 90A & 90B. INDOORS, DURO DYNE EXCELON #10210 MBX, COLOR BLACK OR APPROVED EQUAL. OUTDOORS, DURO DYNE DUROLON #10159 (OR #10210 AT TDC CONNECTORS), COLOR WHITE OR APPROVED EQUAL.

C. DUCT TAPE: POLYKEN 558CA AIR DUCT CLOSURE SYSTEM, 14 MILS THICK. CEC APPROVED.

2.4 CONTROLS
A. PROVIDE COMPLETE AUTOMATIC CONTROLS FOR ALL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS, INCLUDING ROOM THERMOSTATS, CONTROL VALVES AND ALL NECESSARY CONTROL WIRING, TRANSFORMERS, AND PANELS. REFER TO THE "CONTROL DESCRIPTION" ON THE DRAWINGS FOR CONTROL SEQUENCES AND SPECIFICATIONS.

B. INSTALL ALL LOW VOLTAGE WIRING, WHICH IS NOT CONCEALED IN ANY WALLS OR ATTICS, SHALL BE INSTALLED IN CONDUIT (EMT). ALL OUTDOOR CONTROL WIRING SHALL BE INSTALLED IN EITHER RIGID OR SEALTIGHT CONDUIT.

C. INSTALL ALL THERMOSTATS, SWITCHES AND CONTROLS AT ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS. WHERE NOT SHOWN ON ARCHITECTURAL DRAWINGS, INSTALL DEVICES SUCH THAT ALL CONTROLS ARE WITHIN 48" OF THE FINISHED FLOOR. WHERE POSSIBLE MATCH CENTERLINE OF LIGHTING CONTROLS IN THE SAME ROOM.

2.5 ADHESIVES, SEALANTS, CAULKS, PAINTS AND COATING
A. ALL PRODUCTS SHALL COMPLY WITH THE VOC LIMITS REQUIREMENTS IN CALGREEN CODE SECTION 5.504. IF A NON-CONFORMING PRODUCT IS FOUND IN THESE BID DOCUMENTS, NOTIFY THE ARCHITECT IMMEDIATELY FOR AN ALTERNATE PRODUCT.

2.6 EQUIPMENT
A. PROVIDE EQUIPMENT OF THE MANUFACTURER AND MODEL NUMBERS SHOWN ON THE DRAWINGS, COMPLETE WITH ALL REQUIRED TRIM AND OTHER ITEMS NECESSARY FOR PROPER OPERATION.

B. ALL EQUIPMENT, FIXTURES AND FITTINGS SHALL CONFORM TO CALIFORNIA ENERGY COMMISSION CERTIFICATION PER CEC SUBCHAPTER 2, FOR ENERGY USAGE AND WATER USAGE COMPLIANCE. SEE EQUIPMENT SCHEDULES FOR SPECIFIC RATINGS.

2.7 OTHER MATERIALS
A. OTHER MATERIALS NOT SPECIFIED, BUT REQUIRED FOR A COMPLETE INSTALLATION, SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO ACCEPTANCE BY THE ENGINEER.

3. EXECUTION

3.1 GENERAL
A. VERIFY THAT THE WORK OF THIS SECTION MAY BE COMPLETED IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, THE CONSTRUCTION DOCUMENTS, APPROVED SUBMITTALS, AND THE MANUFACTURERS' RECOMMENDATIONS. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ENGINEER. DO NOT PROCEED IN AREAS OF DISCREPANCY UNTIL ALL DISCREPANCIES HAVE BEEN RESOLVED.

B. PROVIDE ACCESS TO ALL COMPONENTS REQUIRING ADJUSTMENT. PROVIDE ACCESS PANELS WHERE THESE COMPONENTS ARE CONCEALED BEHIND NON-ACCESSIBLE CONSTRUCTION. LABEL ACCESS PANELS WITH DESCRIPTION OF SERVICE.

C. COVER ALL DUCT OPENINGS AND PROTECT MECHANICAL EQUIPMENT DURING CONSTRUCTION AT TIME OF ROUGH INSTALLATION AND DURING STORAGE ON CONSTRUCTION SITE UNTIL FINAL STARTUP ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. AND IN ACCORDANCE WITH THE CALGREEN SECTION 5.504.3.

D. PROVIDE APPROVED FLEXIBLE CONNECTIONS BETWEEN FANS AND DUCTS.

E. DUCT SIZES SHOWN ON THE DRAWINGS ARE CLEAR AIRFLOW DIMENSIONS, INSIDE THE INSULATION.

F. SEAL ALL DUCT SEAMS AND JOINTS WITH APPROVED JOINT SEALANT. SEAL DUCTS EXPOSED TO WEATHER WATERTIGHT. SLOPE TOP OF EXTERIOR DUCTS TO SHED RAIN.

G. PROVIDE SEISMIC BRACING PER SMACNA / PPIC "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS".

3.2 REQUIREMENTS FOR ACCEPTANCE
A. MAKE ARRANGEMENTS WITH THE ENGINEER AND THE BUILDING INSPECTOR TO OBSERVE THE WORK PRIOR TO COVERING OR ENCLOSING THE WORK.

B. CLEAN ALL MECHANICAL SYSTEMS TO REMOVE ALL CONTAMINANTS. AT THE COMPLETION OF WORK, PROVIDE NEW, CLEAN AIR FILTERS IN ALL FILTER BANKS.

C. AT COMPLETION OF CONSTRUCTION, PRIOR TO TAB AIR BALANCING, PROVIDE ALL SYSTEMS WITH NEW FILTERS PER THE EQUIPMENT SCHEDULE SPECIFICATIONS.

D. TEST AND BALANCE ALL AIR MOVING SYSTEMS. TESTING SHALL BE DONE BY AN AABC LICENSED TAB CONTRACTOR OR INDEPENDENT CERTIFIED NEBB CONTRACTOR WHICH IN NOT AFFILIATED WITH A MECHANICAL CONTRACTOR, DESIGN ENGINEER OR EQUIPMENT MANUFACTURER.

E. THE CONTRACTOR SHALL TEST ALL MECHANICAL EQUIPMENT SHOWN ON THE DRAWINGS. TESTING AND DOCUMENTATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CALIFORNIA ENERGY CODE NRCC-MCH CERTIFICATE OF COMPLIANCE FORMS.

F. PROVIDE OPERATION AND MAINTENANCE MANUALS ON ALL EQUIPMENT INCLUDE EQUIPMENT WARRANTIES CERTIFICATES.

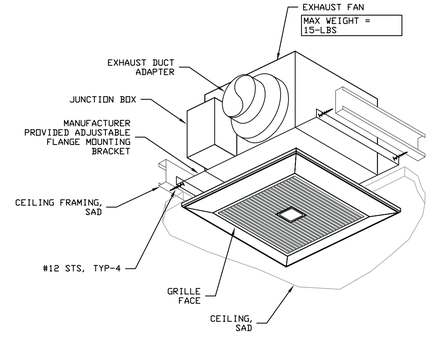
G. INSTRUCT THE OWNER ON HOW TO OPERATE AND MAINTAIN ALL SYSTEMS THAT ARE A PART OF THIS SECTION.

END OF SECTION

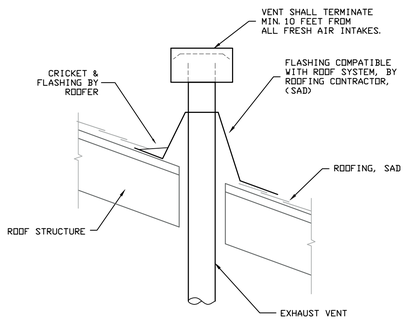
MECHANICAL EQUIPMENT SCHEDULE

EF-1, EF-2
EXHAUST FAN, CEILING MOUNTED (PRIVATE RESTROOM)
MODEL: PANASONIC FV-05-11VK2
AIRFLOW: TWO SPEED 50-CFM LOW/110-CFM HIGH, 100 CFM @ 0.25"ESP, 0.3-SONES
ELECTRICAL: 120 VOLTS, 9.8 WATTS
WEIGHT: 15-LBS
NOTES: WITH BACKDRAFT DAMPER, DISCONNECT, OCCUPANCY SENSOR WITH 5-MIN DELAY TIMER, 6" DUCT OUTLET, 13"x13" GRILLE.

DL-1 DOOR LOUVER
MODEL: TITUS T700L
NOTES: 20 GAUGE STEEL DOOR RETURN GRILLE WITH INVERTED-V SIGHT-PROOF BLADES PARALLEL TO LONG DIMENSION, BORDER TYPE 1 (SURFACE MOUNT WITH EXTERNAL FASTENING SCREWS), MOUNT 12"AFF (SAD)



CEILING EXHAUST FAN SUPPORT 1
NTS



EXHAUST VENT THROUGH ROOF 2
NTS

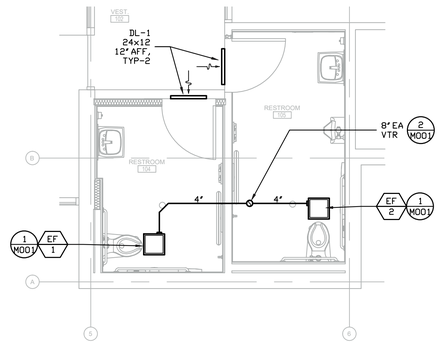
MECHANICAL NOTES

1. BALANCE OUTSIDE AIR TO HVAC UNITS AS NOTED IN VENTILATION SCHEDULE.
2. PROVIDE FLEXIBLE PIPE AND DUCT CONNECTORS TO ALL EQUIPMENT WHICH IS SUSPENDED OR MOUNTED ON VIBRATION ISOLATORS.
3. MAINTAIN A MINIMUM 10'-0" CLEAR BETWEEN HVAC EQUIPMENT AIR INTAKES AND PLUMBING VENTS, VENTS SERVING FUEL BURNING EQUIPMENT OR EXHAUST OUTLETS WITH OBJECTIONABLE ODORS, FUMES OR FLAMMABLE VAPORS; OR 10 FEET ABOVE THE SURFACE OF ANY ABUTTING PUBLIC WAY OR DRIVEWAY; OR WHEN IT IS IN A HORIZONTAL POSITION IN A SIDEWALK, STREET, ALLEY OR DRIVEWAY.
4. SUPPLY FANS IN HVAC EQUIPMENT WITH SMOKE DETECTORS SHALL BE WIRED FOR AUTOMATIC SHUT DOWN UPON DETECTION OF PRODUCTS OF COMBUSTION. SEE EQUIPMENT SCHEDULE AND PLANS FOR EQUIPMENT WITH SMOKE DETECTORS.
5. HVAC UNIT SUPPLY AND RETURN PLENUMS SHALL BE FULL SIZE OF UNIT OPENING (UON) AND SHALL BE INTERNALLY LINED.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR OUTLETS.
7. PROVIDE UL-LISTED FIRE STOPPING, INSTALLED PER LISTING, WHERE PIPES OR DUCTS PASS THROUGH FIRE RATED CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED ASSEMBLES.
8. ALL INDOOR LOW VOLTAGE WIRING SHALL BE INSTALLED IN EMT CONDUIT, EXCEPT WHERE CONCEALED IN ATTIC SPACES. ALL OUTDOOR CONTROL WIRING SHALL BE INSTALLED IN EITHER RIGID OR SEALTIGHT CONDUIT. ALL WIRING IN ATTIC SPACES SHALL BE NEATLY ATTACHED TO FRAMING AT MINIMUM 10' INTERVALS.
9. LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC TAGS 1"x2-1/2" WITH EQUIPMENT TAG NUMBERS.
10. DUCT LINER TO HAVE MOLD, HUMIDITY AND EROSION RESISTANT INTERIOR SURFACES THAT MEET OR EXCEED REQUIREMENTS IN ACCORDANCE WITH CMC SECTION 605.0.
11. INSULATION APPLIED TO THE EXTERIOR SURFACES OF DUCTS LOCATED IN THE BUILDING SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE- DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION IN ACCORDANCE WITH CMC SECTION 605.0.
12. INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
13. INSTALL ALL THERMOSTATS WITH TOP OF BOX AT 48"AFF, OR 46"AFF TO CENTERLINE. INSTALL ALL CONTROLS WITH ACCESSIBLE COMPONENTS BETWEEN 42" AND 48" AFF.
14. REVIEW PROJECT ENERGY COMPLIANCE DOCUMENTS AND PROVIDE ALL ACCEPTANCE TESTING AND REPORTS REQUIRED FOR MECHANICAL SYSTEMS.

CALGreen COMPLIANCE NOTES

1. COMPLY WITH PROVISIONS OF THE CALIFORNIA GREEN BUILDING CODE (CGBC). BELOW ARE REQUIREMENTS DIRECTLY RELATED TO MECHANICAL SYSTEMS. SEE ARCHITECTURAL PLANS AND SPECIFICATION FOR FURTHER REQUIREMENTS INCLUDING ANY VOLUNTARY MEASURES. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR.
2. COMPLY WITH ALL PROVISIONS OF SECTION 5.408 - CONSTRUCTION WASTE REDUCTION DISPOSAL AND RECYCLING. SEE ARCHITECTURAL PLANS AND SPECIFICATION FOR REQUIREMENTS. COORDINATED ALL REQUIREMENTS WITH GENERAL CONTRACTOR.
3. PROVIDE TESTING AND ADJUSTING FOR SYSTEMS IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS AND CGBC SECTION 5.410.4.
4. BALANCE ALL AIR AND WATER SYSTEMS IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS AND CGBC SECTION 5.410.4.3.1.
5. PROVIDE OPERATION AND MAINTENANCE MANUALS PER MECHANICAL SPECIFICATIONS AND CGBC SECTION 5.410.4.5.
6. TEMPORARY OPERATION OF THE PERMANENT HVAC SYSTEM FOR CONDITIONING OR VENTILATION OF THE SPACE SHALL BE IN ACCORDANCE WITH CGBC SECTION 5.504.1.
7. ALL DUCTWORK, EQUIPMENT AND RELATED MECHANICAL COMPONENTS SHALL BE COVERED WITH PLASTIC AND TAPE, OR SHEET METAL DURING STORAGE AT THE CONSTRUCTION SITE, DURING ROUGH INSTALLATION, AND UP UNTIL STARTUP TO PREVENT DEBRIS OR DUST FROM ENTERING DUCTWORK. CGBC SECTION 5.504.3
8. ALL FINISH MATERIALS INCLUDING ADHESIVES, SEALANTS, CAULKS, PAINTS, AND COATINGS SHALL COMPLY WITH CGBC SECTION 5.504.4.
9. OUTSIDE AIR TO BE PROVIDED IN ACCORDANCE WITH THE CALIFORNIA ENERGY CODE, LOCAL CODES, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. SEE ENERGY REPORTS, VENTILATION NOTES AND MECHANICAL EQUIPMENT SCHEDULE. CGBC SECTION 5.506.1
10. PROVIDE MINIMUM LEVEL MERV-8 EFFICIENCY FILTERS FOR RETURN AND OUTSIDE AIR. CGBC SECTION 504.5.3
11. FOR BUILDINGS OR ADDITIONS WITH DEMAND CONTROL VENTILATION CARBON DIOXIDE MONITORS SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA ENERGY CODE 120.1(C)4. CGBC SECTION 5.506.2.
12. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS. CGBC SECTION 702.1
13. WHEN REQUIRED BY THE ENFORCING AGENCY THE OWNER OR OWNERS AGENT SHALL EMPLOY SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES TO SUBSTANTIATE COMPLIANCE WITH THE CGBC. CGBC SECTION 702.2

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS AMENDED BY THE LOCAL AGENCY.



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

TEP ENGINEERING
880 Second Street
Santa Rosa, CA 95404-4810
707.538.0400 office
707.538.0406 fax

SONOMA COUNTY LIBRARY
Cloverdale Library Patio Alteration
401 N. CLOVERDALE BLVD
CLOVERDALE, CA 95425

REGISTERED PROFESSIONAL ENGINEER
BRAD MANNING
No.M30815
EXP.12-31-24
MECHANICAL
STATE OF CALIFORNIA

Date	05.20.24
Drawn By	SS
Checked By	BM
Project No.	TEP #4100
Date	Issue
05/20/2024	Issued for Permit

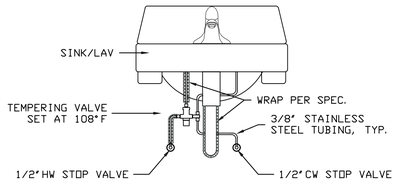
MECHANICAL TITLE SHEET

SCALE: AS NOTED

M001

PLUMBING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
———	W	WASTE PIPE ABOVE GRADE
— — — — —	W, SS	WASTE PIPE BELOW GRADE
----------	V	VENT PIPE
—— - ——	CW	COLD WATER PIPE
—— - - ——	HW	HOT WATER PIPE
——HWR——	HWR	HOT WATER RETURN PIPE
—— G ——	G	GAS PIPE
—— TW ——	TW	TEMPERED HOT WATER PIPE
—+—+—+—		PIPE DEMOLITION
—— F ——		FILTERED WATER PIPE
⋈		GATE VALVE
⋈		GLOBE VALVE
IOI		BALL VALVE
⋈		CHECK VALVE
⋈		BALANCING VALVE
⋈	PRV	PRESSURE REDUCING VALVE
⋈	TV	TEMPERING VALVE
⊣⊢		UNION
		PRESSURE GAUGE AND NEEDLE VALVE
		PUMP
		THERMOMETER
⊣	CO	CLEANOUT
⊗	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
⊣	HB	HOSE BIBB
○		PIPE UP
C		PIPE DOWN
●		PIPE CONNECTION
D	FD	FLOOR DRAIN
A		AQUASTAT
TS		TIME SWITCH
PT	PT	PRESSURE AND TEMPERATURE RELIEF VALVE
	POC	POINT OF CONNECTION
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	BFF	BELOW FINISHED FLOOR
	CA	COMPRESSED AIR
	CD	CONDENSATE DRAIN
	CDC	COORDINATE WITH DENTAL CONTRACTOR
	CTE	CONNECT TO EXISTING
	DFU	DRAIN FIXTURE UNITS
	DI	DEIONIZED WATER
	DN	DOWN
	DWG	DRAWING
	(E)	EXISTING
	IE	INVERT ELEVATION
	FWP	FORCED WASTE PIPE
	FW	FILTERED WATER
	IJS	IN JOIST SPACE
	L.F.	LINEAR FEET
	N20	NITROUS OXIDE
	NTS	NOT TO SCALE
	OD	OVERFLOW DRAIN
	O2	OXYGEN
	(RE)	RELOCATE EXISTING
	RO	REVERSE OSMOSIS
	SD	STORM DRAIN
	SS	SANITARY SEWER
	TP	TRAP PRIMER
	TYP	TYPICAL
	VIF	VERIFY IN FIELD
	VTR	VENT THROUGH ROOF
	WCO	WALL CLEANOUT
	SAD	SEE ARCHITECTURAL DRAWINGS
	SCD	SEE CIVIL DRAWINGS
	SDD	SEE DENTAL DRAWINGS
	SED	SEE ELECTRICAL DRAWINGS
	SFD	SEE FOOD SERVICE DRAWINGS
	SFW	SUBMICRON FILTERED WATER
	SHD	SEE RADIANT HEATING DRAWINGS
	SMD	SEE MECHANICAL DRAWINGS
	SPD	SEE PLUMBING DRAWINGS
	SRD	SEE REFRIGERATION DRAWINGS
	SSD	SEE STRUCTURAL DRAWINGS
	UNO	UNLESS NOTED OTHERWISE
	VAC	VACUUM
	WSFU	WATER SUPPLY FIXTURE UNITS



NOTE:
PROTECT ALL HW/CW AND DRAINS FROM CONTACT UNDER ACCESSIBLE SINKS AND LAVATORIES PER CBC 11B-606.5

TEMPERING VALVE AT LAV/SINK — 1

NTS

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

PLUMBING EQUIPMENT SCHEDULE

DF-1 DRINKING FOUNTAIN (DOUBLE) - (ACCESSIBLE)
- MODEL: ELKAY EZSTLBWSLK
- DESCRIPTION: LIGHT GREY FINISH, DUAL LEVEL ADA ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, NON-FILTERED, REFRIGERATION CONDENSER, ANTI-MICROBIAL PROTECTION, FLEX GUARD VANDAL RESISTANT BUBBLER
- ELECTRICAL: 115 VOLT, 1 PHASE, 5 AMPS
- ACCESSORIES: ELKAY MLP200 WALL CARRIER
- WEIGHT: 100-LBS
- NOTES: CONFIRM ACCESSIBILITY REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

(E)FD-1 EXISTING FLOOR DRAIN (NEW TOP)
- MODEL: ZURN #ZN-415-P
- DESCRIPTION: 5" DIAMETER NICKEL BRONZE TOP.

(E)L-1 EXISTING (RELOCATED) LAVATORY, WALL MOUNTED - ACCESSIBLE
- MODEL: EXISTING
- DESCRIPTION: ADA COMPLIANT WALL MOUNT LAVATORY, GRID DRAIN, ADA WRAP PIPING UNDER LAVATORY, ZURN #Z-1231 CONCEALED ARM SYSTEM, FLOOR MOUNTED UPRIGHT, TEMPERING VALVE.
- FAUCET: SENSOR OPERATED, 0.5 GPM MAX FLOW RATE, 0.19 GPC @ 20 SECONDS CONFIRM POWER REQUIREMENT IN FIELD, DECK MOUNT, SINGLE HOLE
- NOTES: INSTALL FIXTURE MANUFACTURER RECOMMENDED WALL CARRIER. CONFIRM ACCESSIBILITY REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

TV-1 TEMPERING VALVE (UNDER HAND SINK/LAVATORY)
- MODEL: LEONARD #270-LF
- DESCRIPTION: LEAD FREE, BRONZE BODY WITH INTEGRAL CHECK VALVES AND ADJUSTMENT CAP WITH LOCKING FEATURE. SET AT 108F. ASSE 1017, 1070 CERTIFIED.

WA-1 WATER HAMMER ARRESTOR - DOMESTIC PIPING
- MODEL: SIOUX CHIEF "HYDRARESTER" 650 SERIES
- NOTES: SIZE AS NOTED ON PLANS, PROVIDE WITH BALL SHUTOFF VALVE

(E)WC-1 EXISTING (RELOCATED) WATER CLOSET, WALL MOUNTED, FLUSH VALVE TYPE - ACCESSIBLE
- MODEL: EXISTING, 1.28-GPF VITREOUS CHINA, WALL MOUNTED, TOP SPUD, ELONGATED BOWL WITH OPEN FRONT SEAT.
- FLUSH VALVE: SENSOR OPERATED, 1.28-GPF, CONFIRM POWER REQUIREMENT IN FIELD.
- NOTES: INSTALL MANUFACTURER RECOMMENDED WALL CARRIER. CONFIRM ACCESSIBILITY REQUIREMENTS WITH ARCHITECTURAL DRAWINGS. INSTALL FIXTURE AND FLUSH VALVE TO MEET ACCESSIBLE REQUIREMENTS.

FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	W	PIPE SIZE IN INCHES V	HW	CW
DF-1	DRINKING	1-1/2	1-1/2	-	1/2
(E)L-1	LAVATORY	1-1/2	1-1/2	1/2	1/2
U-1	URINAL	2	1-1/2	-	3/4
(E)WC-1	WATER CLOSET	3	2	-	1-1/2

PIPE MATERIAL SCHEDULE

COLD WATER (CW):
ABOVE GRADE: TYPE "L" COPPER WITH LEAD FREE SOLDERED JOINTS. INSULATE ABOVE GROUND PIPING OUTSIDE BUILDING WITH 3/4" AP ARMACELL ARMAFLEX WITH 0.03" WHITE PVC JACKET - SEAL ALL SEAMS, JOINTS, AND ENDS WATER TIGHT WITH APPROVED ADHESIVE.
BELOW GRADE: SHALL BE AQUAPEX PEX-a. USE FULL LENGTH RUNS WITH TRANSITION FITTING ABOVE FLOOR. NO UNDERGROUND JOINTS INSIDE BUILDING OR UNDER SLAB. PROVIDE SCHEDULE 40 PVC LONG SWEEPING ELBOW FROM 6" BELOW SLAB TO 6' ABOVE SLAB. DO NOT USE GLUE, SEALANTS & OTHER PRODUCTS NOT COMPATIBLE WITH PEX PIPING. USE CLOSED-CELL SPRAY FOAM INSULATION ON UPONOR AQUAPEX WHERE ANNULAR SPACE IS 1" MAXIMUM.

HOT WATER (HW):
ABOVE GRADE: TYPE "L" COPPER WITH LEAD FREE SOLDERED JOINTS. INSULATE ABOVE GRADE PIPING, INSIDE BUILDINGS, WITH OWENS CORNING TYPE ASJ/SSL-II HEAVY DENSITY FIBER GLASS WITH ALL SERVICE VAPOR JACKET.
BELOW GRADE: AQUAPEX PEX-a WITH 1"LSP PRODUCTS GROUP INNOFOAM INSULATION, CABLE TIE OR WRAP INSULATION WITH 10 MIL TAPE AT 3'-0" ON CENTERS. USE FULL LENGTH RUNS WITH TRANSITION FITTING ABOVE FLOOR. NO UNDERGROUND JOINTS INSIDE BUILDING OR UNDER SLAB. PROVIDE SCHEDULE 40 PVC LONG SWEEPING ELBOW FROM 6"BELOW SLAB TO 6'ABOVE SLAB, DO NOT USE GLUE, SEALANTS & OTHER PRODUCTS NOT COMPATIBLE WITH PEX PIPING. USE CLOSED-CELL SPRAY FOAM INSULATION ON UPONOR AQUAPEX WHERE ANNULAR SPACE IS 1" MAXIMUM.

SANITARY WASTE (W), AND VENT (V):
POLYVINYL CHLORIDE (PVC) TYPE 1, GRADE 1, PER ASTM D2665 SOLID CORE (CELLULAR CORE WILL NOT BE ACCEPTED) AND ASTM F891, SCHEDULE 40 MANUFACTURED BY CHARLOTTE PIPE, HARVEL PLASTICS, OR MUELLER INDUSTRIES. UNDERGROUND TO BE INSTALLED PER ASTM D2321 TO ENSURE PROPER BEDDING AND BACKFILLING SO DEFLECTION IS LIMITED TO 5%. WORKING TEMPERATURE NOT TO EXCEED 140 F. FLAME SPREAD RATING OF 0-25 WHEN TESTED PER ULC-S102-2-M88. PVC PIPING SHALL NOT BE THREADED. SOLVENT CEMENT SHALL BE IN ACCORDANCE WITH ASTM FOR USE WITH PVC.

PLUMBING NOTES

1. ALL PIPES, FITTINGS, FIXTURES AND ALL OTHER END-USE DEVICES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION THROUGH DRINKING OR COOKING SHALL BE "LEAD FREE" IN COMPLIANCE WITH CALIFORNIA AB1953. PRIOR TO CONSTRUCTION, SUBMIT TO THE ENGINEER A STATEMENT INDICATING ALL PRODUCTS SUPPLIED ARE IN COMPLIANCE WITH THE LAW.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FIXTURE MOUNTING HEIGHTS AND FLOOR DRAIN LOCATIONS.
3. PLUMBING FIXTURES AND INSTALLATIONS THAT SERVE PUBLIC BUILDINGS SHALL COMPLY WITH CBC SECTION 11B-213 "ACCESSIBILITY TO PUBLIC BUILDINGS, BATHING AND TOILET FACILITIES" SEE ARCHITECTURAL DRAWINGS FOR INSTALLATION DETAILS.
4. ALL PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. PHYSICALLY VERIFY ELEVATION OF SEWER CONNECTION AND EXACT LOCATION BEFORE STARTING ANY WORK.
6. WHERE PIPES PASS THROUGH FIRE RATED CONSTRUCTION AND AT SHAFT FLOOR PENETRATIONS PROVIDE FIRE STOPPING PER CBC CHAPTER 7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED ASSEMBLIES. .
7. INSULATION, COVERINGS OR INSULATION FACING, SHALL BE OF MATERIAL SUITABLE FOR OPERATING TEMPERATURE OF SYSTEM AND SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH BUILDING CODE STANDARDS. (CMC 1201.2).
8. INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
9. SEISMIC SUPPORT AND BRACING FOR ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH CBC CHAPTER 16A. STANDARDS FOR SUPPORT AND ANCHORAGE METHOD AND MATERIALS PUBLISHED BY SMACNA MAY BE USED.
10. WHERE CEILING SPACES ARE USED AS A RETURN AIR PLENUM, MATERIALS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN TWENTY-FIVE (25) AND A SMOKE DEVELOPMENT INDEX NOT GREATER THAT FIFTY (50) IN ACCORDANCE CMC 602.2 AND NFPA 90A.
11. PROVIDE 16 GAUGE STAINLESS STEEL PROTECTIVE COVER ON PIPING, WHERE PIPING IS LOCATED IN AN AREA WHERE IT MAY BE SUBJECT TO DAMAGE PER CPC 312.
12. INSTALL ALL FLOOR SINKS FLUSH WITH FINISHED FLOOR UNLESS OTHERWISE NOTED. INDIRECT WASTE RECEPTACLES SHALL BE LOCATED WHERE THEY ARE READILY VISIBLE FOR INSPECTION & CLEANING PER CPC 804.1.
13. PROVIDE BACKFLOW PREVENTION FOR WATER LINES AT EQUIPMENT CONNECTIONS IN ACCORDANCE WITH CPC 603.
14. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 120°F PER CPC 407.3.
15. ALL HORIZONTAL WASTE PIPING IS TO BE AT A 2% SLOPE UNLESS OTHERWISE NOTED ON THE DRAWINGS PER CPC 708.1.
16. ALL POTABLE WATER SHALL BE DISINFECTED PER CPC 609.10.
17. REFER TO SPECIFICATION SECTION 22 00 00 FOR ADDITIONAL REQUIREMENTS.

CALGreen COMPLIANCE NOTES

1. COMPLY WITH PROVISIONS OF THE 2022 CALIFORNIA GREEN BUILDING CODE (CGBC). BELOW ARE REQUIREMENTS DIRECTLY RELATED TO MECHANICAL SYSTEMS. SEE ARCHITECTURAL PLANS AND SPECIFICATION FOR FURTHER REQUIREMENTS INCLUDING ANY VOLUNTARY MEASURES. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR.
2. PLUMBING FIXTURES SHALL MEET THE MAXIMUM FLOW RATE VALUES IN 2022 CGBC SECTION 5.303.3.
3. PLUMBING FIXTURES AND FITTINGS INCLUDING WATER CLOSETS, URINALS, FAUCETS, AND SHOWER HEADS SHALL COMPLY WITH REQUIREMENTS OF 2022 CGBC SECTION 5.303.3.
4. ALL PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE STANDARDS OF TABLE 1701.1 OF THE CPC PER 2022 CGBC SECTION 5.303.6
5. COMPLY WITH ALL PROVISIONS OF 2022 CGBC SECTION 5.408 - CONSTRUCTION WASTE REDUCTION DISPOSAL AND RECYCLING. SEE ARCHITECTURAL PLANS AND SPECIFICATION FOR REQUIREMENTS. COORDINATED ALL REQUIREMENTS WITH GENERAL CONTRACTOR.
6. PROVIDE TESTING AND ADJUSTING FOR SYSTEMS IN ADDITIONS, ALTERATIONS AND BUILDINGS UNDER 10,000 SQUARE FEET. 2022 CGBC SECTION 5.410.4
7. PROVIDE OPERATION AND MAINTENANCE MANUALS PER MECHANICAL SPECIFICATIONS AND 2022 CGBC SECTION 5.410.4.5.
8. ALL FINISH MATERIALS INCLUDING ADHESIVES, SEALANTS, CAULKS, PAINTS, AND COATINGS SHALL COMPLY WITH 2022 CGBC SECTION 5.504.4.
9. WHEN REQUIRED BY THE ENFORCING AGENCY THE OWNER OR OWNERS AGENT SHALL EMPLOYEE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES TO SUBSTANTIATE COMPLIANCE WITH THE CGBC 2022 CGBC SECTION 702.2

DRAWING INDEX

TEP ENGINEERING
880 Second Street
Santa Rosa, CA 95404-4810
707.538.0400 office
707.538.0406 fax

SONOMA COUNTY LIBRARY
Cloverdale Library Patio Alteration

401 N. CLOVERDALE BLVD
CLOVERDALE, CA 95425

REGISTERED PROFESSIONAL ENGINEER
BRIAN MANNING
No.M30815
EXP.12-31-24
MECHANICAL
STATE OF CALIFORNIA

Date	05.20.24
Drawn By	SS
Checked By	BM
Project No.	TEP #4100

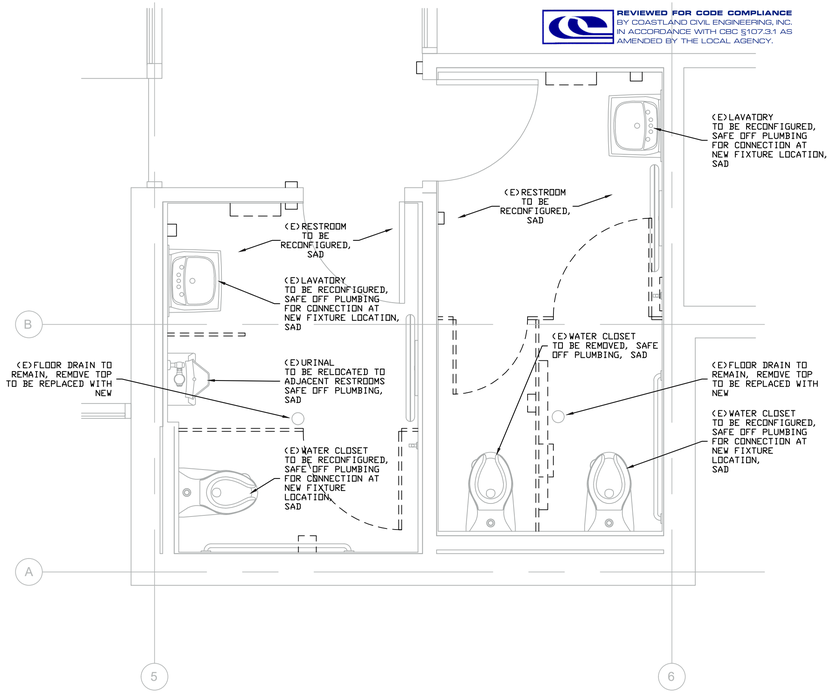
Date	Issue
05/20/2024	Issued for Permit

PLUMBING
TITLE SHEET

SCALE: AS NOTED

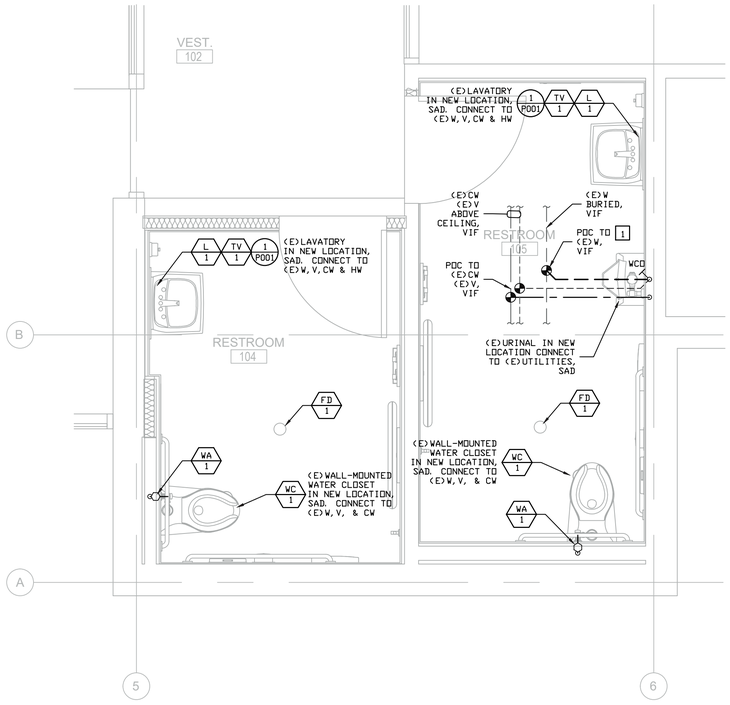
P001

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.



PLUMBING DEMO FLOOR PLAN

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



PLUMBING FLOOR PLAN

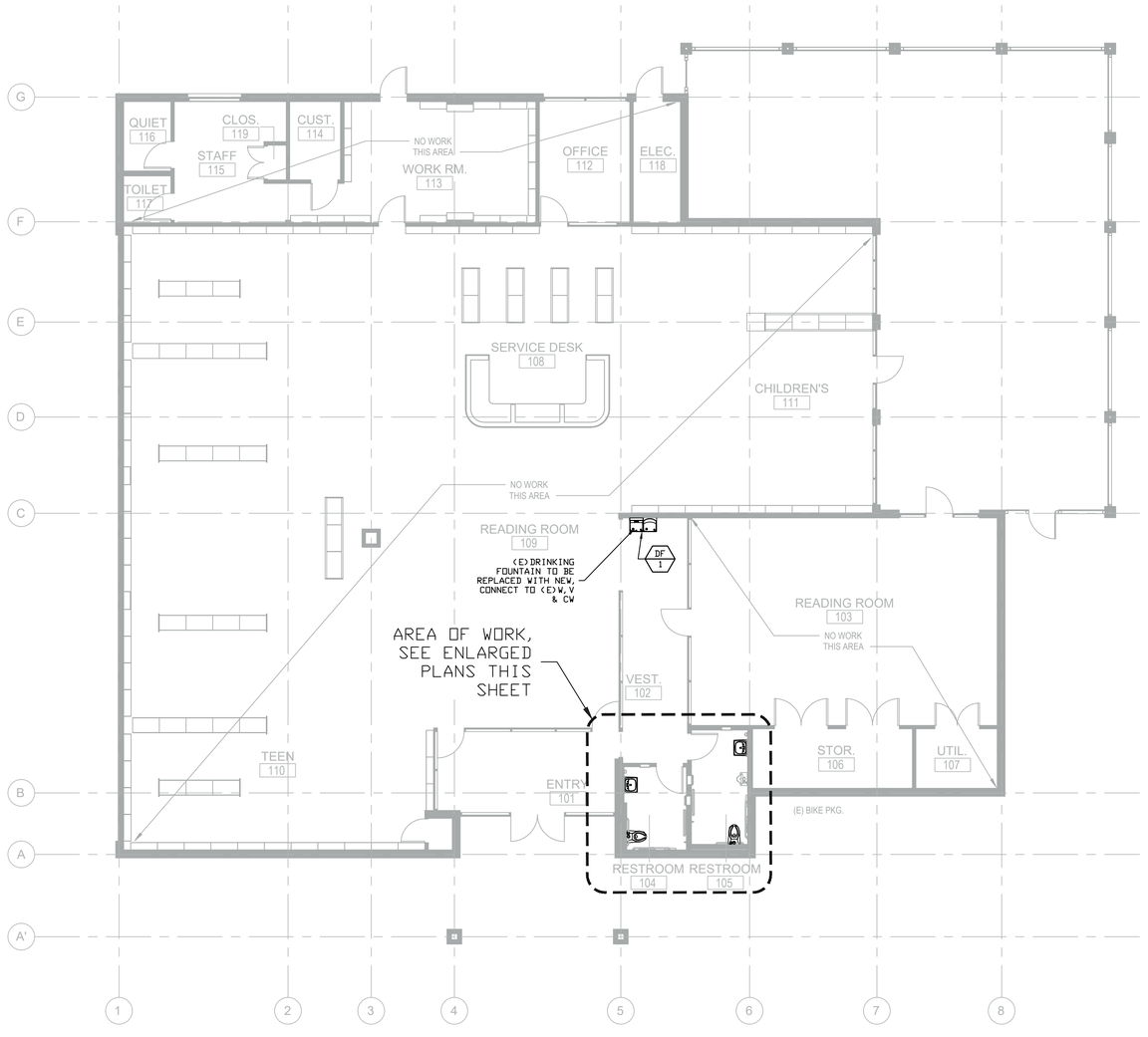
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. PRIOR TO CONSTRUCTION - VERIFY WITH CAMERA AND ELECTRONIC PIPE DETECTOR EXISTING WASTE PIPE LOCATION, PIPE DEPTH, PIPE CONDITION, PIPE MATERIAL & PIPE SLOPE IN FIELD, TYPICAL.
2. CONFIRM ALL SITE UTILITY POINT OF CONNECTION LOCATIONS AND INVERTS.
3. ALL PIPING HUNG WITHIN 12" OR LESS FROM STRUCTURE, FOR ENTIRE RUN OF PIPE.
4. FIRESTOP ALL PIPE PENETRATIONS OF FIRE RATED WALLS & FLOORS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED ASSEMBLIES.

SHEET NOTES

1 POC TO (E)W PRIOR TO CONSTRUCTION, VERIFY EXISTING WASTE PIPE LOCATION, PIPE DEPTH, PIPE CONDITION, PIPE MATERIAL & PIPE SLOPE IN FIELD



PLUMBING OVERALL FLOOR PLAN

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

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880 Second Street
Santa Rosa, CA 95404-4810
707.538.0400 office
707.538.0406 fax

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REGISTERED PROFESSIONAL ENGINEER
BRAD MANNING
No.M30815
EXP.12-31-24
MECHANICAL
STATE OF CALIFORNIA

Date	05.20.24
Drawn By	SS
Checked By	BM
Project No.	TEP #4100
Date	Issue
05/20/2024	Issued for Permit

PLUMBING FLOOR PLAN

SCALE: AS NOTED

P101

1. GENERAL

1.1 SCOPE

A. The work in this section includes, but is not limited to, providing all plumbing work as shown and noted on the plumbing Drawings and Specifications, including the following items:
1. Plumbing fixtures, equipment and piping.
2. Sanitary waste and vent system to five feet from the building.
3. Domestic hot and cold water distribution to five feet from the building.
4. Service water heating and distribution.
5. Cleaning, sterilization and testing for work in this section.
6. Grease waste and vent system to five feet from the building.
7. Grease interceptors and sampling boxes.
8. Fuel gas distribution.
9. Flues and combustion air piping (PVC) for water heating equipment.
10. Condensate drains from mechanical equipment.
11. Pipe hangers and supports.
12. Pipe insulation.
13. Piping markers and equipment nameplates.
14. Energy code testing, adjusting and reporting

B. Work of other sections, includes the following:
1. All trenching and backfilling associated with the plumbing installation.
2. Site piping and utilities beyond five feet from the building.
3. Fire protection systems.
4. Waste water treatment and disposal systems.
5. Water supply system including tanks and pumps.
6. Line voltage wiring and disconnect switches. The Electrical Contractor will provide all line voltage wiring & conduit, disconnect switches & magnetic starters (except those furnished under this Section as a part of equipment).

1.2 CODES AND STANDARDS

A. All work and materials shall be in full accordance with the latest adopted edition of the following documents:
1. 2022 California Building Code (CBC)
2. 2022 California Plumbing Code (CPC)
3. 2022 California Mechanical Code (CMC)
4. 2022 California Electrical Code (CEC)
5. 2022 California Fire Code (CFC)
6. 2022 California Energy Code (Title 24)
7. 2022 California Green Building Code (CALGreen)
8. National Electric Code (NEC)
9. Americans with Disabilities Act (ADA)
10. Sheetmetal Contractors and Air Conditioning Contractors' National Association (SMACNA) Seismic Restraint Manual.
11. National Fire Protection Association (NFPA)
12. Local codes and ordinances

B. Accessible (ADA) plumbing fixtures shall comply with all of the accessibility requirements of CBC Chapters 11A and 11B and Federal ADA requirements.

C. Whenever this Specification calls for material, workmanship, arrangement or construction of higher quality and/or capacity than that required by governing codes, higher quality and/or capacity takes precedence.

D. All potable water system components, devices, materials, or equipment containing a weighted average of greater than 0.25 percent lead are prohibited, and shall be certified in accordance with the current editions of the Safe Drinking Water Act (SDWA), NSF 61, NSF 372 & California AB1953. Endpoint devices used to dispense water for drinking shall meet the requirements of NSF 61 & California AB1953.

1.3 DRAWINGS AND SPECIFICATIONS

A. Where a conflict exists between Drawings and Specifications, promptly notify the Architect for interpretation and resolution. The most stringent requirements shall be used for bid.

1.4 PERMITS AND FEES

A. The Contractor shall obtain all permits, licenses and fees that are required to perform the work. Provide the Architect with the original certificates, permits, licenses, and receipts for fees.

1.5 SUBMITTALS

A. Provide complete product submittals and shop drawings in electronic format (PDF), as one complete package, prior to commencing work or prior to ordering any materials. **Piecemealed product submittals may be rejected.** Clearly identify/mark each submittal in detail. Note what differences, if any, exist between the submitted Item and the specified Item. Failure to identify the differences will be considered cause for disapproval. If differences are not identified and/or not discovered during the submittal review process, Contractor remains responsible for providing equipment and materials that meet the Specifications and Drawings. Items, other than those specified, will not be allowed unless they are approved in writing via the submittal process. Include cut sheets and drawings for the following items in the submittal:
1. All plumbing components, including pipe hangers, pipe supports & appurtenances that are a part of the plumbing contract documents.
2. Insulating Contractor's current C-2 “Insulation and Acoustical Contractor” license issued by the California State License Board.
3. Testing, Adjusting and Balancing (TAB) Contractor's current AABC license issued by the Associated Air Balance Council or current NEBB license issued by the National Environmental Balancing Bureau and sample TAB report for all plumbing systems.
4. Drawings for installation details that differ from the details in the contract documents.

B. “No Exception Taken” constitutes that review is for general conformance with the design concept expressed in the Contract Documents for the limited purpose of checking for conformance with information given. Any action is subject to the requirements of the Contract Documents. Contractor is responsible for the dimensions and quantity and will confirm and correlate at the job site, fabrication processes and techniques of construction, coordination of the work with that of all other trades, and the satisfactory performance of the work.

C. All details shown on the Drawings are schematic in nature; the Contractor is responsible for determining actual installation requirements. Contractor shall include in his bid all materials and appurtenances for a complete and operable installation. Provide shop drawings for the proposed installation when coordination with other trades is required.

D. In checking Drawings and Submittals data, the reviewer makes effort to detect errors and omissions. Failure of the reviewer to detect errors or omissions during the review of Drawings and Submittals data shall not relieve the vendors and/or Contractor of his/her responsibility to comply with the Contract Documents.

E. Upon completion of work, provide one set of reproducible as-built drawings and two operation and maintenance manuals. The operation and maintenance manuals shall be in a binder and contain manufacturers' data, manufacturers' warranties and maintenance instructions for the equipment, fixtures and appurtenances installed. The Contractor is responsible for all materials, equipment and appurtenances not reviewed and approved by the Engineer.

1.6 QUALITY ASSURANCE

A. Regulatory Requirements: Work and materials installed to conform with all local, State, Federal and other applicable laws and regulations.

B. Drawings are diagrammatic. They are not intended to show every item in its exact dimensions, or details of equipment or proposed systems layout. Verify actual dimensions of systems (i.e., piping) and equipment proposed to assure that systems and equipment will fit in available space.

C. Manufacturer's Instructions: Follow manufacturer's written instructions. If in conflict with Contract Documents, obtain clarification. Notify Engineer/Architect, in writing, before starting work.

D. UL Compliance: Provide electrical panels and equipment which are UL or ETL listed.

E. Installer Qualifications: Installer shall be trained and certified in the proper installation of plumbing systems by a nationally or regionally recognized training or certification program. Uncertified persons may perform plumbing installation where under the direct supervision and responsibility of a person trained and certified to install plumbing systems. Installers of AquaPEX, ProPress and other specialty systems, shall be trained and certified by the respective manufacturer.

F. Pipe insulation and jacketing must be installed by a Contractor normally engaged in this type of work and holds a current C-2 Insulation Contractor license issued by the California State Licensing Board. Contractor must provide license information with submittals.

1.7 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT

A. The named materials and equipment are considered the basis for design; however equal materials and equipment may be submitted to the Architect and Engineer for review. The decision of the Owner and Engineer shall be final and shall govern as to what materials and equipment may be substituted, but the burden of proof as to the quality, performance and space requirements of any proposed substitution shall rest with the Contractor.

1.8 WARRANTY

A. The Contractor shall provide a one-year warranty for the work of this Section. During this period the Contractor shall provide all labor and materials necessary to repair or replace defective systems. The warranty period shall begin at the date of final acceptance, per section 3 below.

B. Additional Warranty conditions: Where applicable, provide additional warranty time period and/or conditions in accordance with the General Conditions Section of the project Specifications manual.

1.9 GENERAL

A. The locations, sizes, capacities and types of all piping, equipment and appurtenances shown on the Drawings as existing are approximate and may not have been independently verified. The Contractor shall determine the exact locations, sizes, capacities and types of existing piping, equipment and appurtenances. If necessary use electronic pipe locating devices to locate existing piping below grade. The Contractor shall include in his bid allowances for minor modifications to pipe routing necessitated by actual field conditions.

B. The Contractor shall verify all building dimensions with Architectural Drawings and all site dimensions with Civil Drawings prior to submitting a bid. The submission of a bid or proposal will be construed as evidence that the Contractor has familiarized himself with the Drawings and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

C. Provide Turnkey operation of all plumbing systems described in the Drawings and Specifications. Provide all materials and labor required for complete operational systems, unless specifically noted as provided by others on the Drawings and Specifications; or specifically excluded in the bid. Provide all cleaning, test, balance & commissioning of systems to guarantee proper operation at project completion. Inform the Owner and General Contractor of the timing of all work to be done and the requirements of other trades so the work can be completed in a timely fashion. With the bid, provide a list of all equipment and material that have lead times exceeding 4 weeks. Clearly indicate expected lead times for such equipment and material.

D. In these Drawings and Specifications "Exposed" defines plumbing systems that are visible, such as in equipment rooms, vaulted building spaces, on roofs and where not concealed. "Concealed" refers to plumbing systems that are not normally visible, such as above ceilings and in shafts/walls.

2. PRODUCTS

2.1 PIPE

A. See “PIPE MATERIALS SCHEDULE” on sheet P001

2.2 PIPING SPECIALTIES

A. Pipe hangers: Tolco, Uni-Strut, Super-Strut or B-Line with zinc electroplated finish. Provide with cushioned clamps inserts. Piping supports shall be felt lined J-type hangers. Use beam clamps at hangers from steel beams. All miscellaneous steel, bolts, rods, nuts and washers shall be cadmium electroplated finish. Use materials that are consistent throughout each space.

B. No-Hub Pipe & Fittings Restraints shall meet CISPI 301-12 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications; and International Plumbing Code 2015 - 308.7.1 Location.

C. Roof flashings: At TPO roof flashings to be by roofing contractor. At built up roofs provide 4 pound lead, 12” high by 12” base and stainless steel draw band. At shingle roofs, provide 24 gauge galvanized steel metal jack with neoprene top seal by Oatey or equivalent.

D. Pipe Seals: Pipes passing through walls underground provide Link-Seal modular seal assemble WS series, color Black or approved equal by MetraSeal. At fire rated assemblies, provide MetraSeal 120 or approved equal.

E. Firestopping Sealant: Hilti FS-ONE MAX firestop intumescent sealant or 3M Fire Barrier CP25WB + Caulk. At PEX tubing, Wirsbo Aquapex Firestop sealant listed and tested to ASTM E-814.

2.3 VALVES & STRAINERS

A. Use full line size ported valves, types and models as follows:
1. Ball Valves: 4 inch and smaller, UL 258 listed, AGA/CGA/UL/FM approved, bronze body with standard ported hard chrome plated brass ball, lever handle, lead free Apollo Valves 70LF-100 or 70LF-200 series for water systems, unless otherwise noted or approved equivalent by Nibco, Jomar or Milwaukee. Provide extended handle shaft where pipes are insulated.

D. Check Valves:
1. T-Pattern Swing Check Valves:
   a. 3 inch and smaller: Bronze and lead free, Milwaukee Valve UP509 or UP1509 or equivalent by Apollo Valves, Nibco or Jomar.
2. Silent Check Valves:
   a. 2 inch and smaller: Bronze and lead free, Milwaukee Valve UP548T or UP1548T or equivalent by Apollo Valves, Nibco or Jomar.
   b. 2-1/2 inch and larger: Cast iron wafer style, lead free, stainless steel trim, class 125 Milwaukee 1400 Series or equivalent by Apollo Valves, Nibco or Jomar.
3. Where installed on the discharge of a pump:
   a. 2 inch and smaller: Bronze and lead free, Milwaukee Valve UP548T or UP1548T or equivalent by Apollo Valves, Nibco or Jomar.
   b. 2-1/2 inch and larger: Bronze NPT Spirax Sarco LCV1 lift check valve or equivalent by Apollo Valves, Nibco, Milwaukee or Jomar.

E. Strainers: Bronze, lead free, wye patter, Watts LF777S/LFS777S or equivalent by Apollo Valves, Nibco or Jomar, Provide ball valve with plug at cleanout connection.

2.4 CLEANOUTS

A. General:
1. Floor cleanout, non-traffic areas: Zurn no. ZN-1400 with membrane flange and bronze plug.
2. Floor cleanout, traffic areas: Zurn no. ZN-1400-HD with membrane flange and bronze plug.
3. Grade cleanouts: Zurn no. Z-1400 with membrane flange, ABS threaded plug. Provide Christy F08 utility box and lid in non-traffic areas & G05 with cast iron lid in traffic areas.
4. Wall cleanouts: Zurn Z-1445 and Z-1468, Cast iron tee with plug, chrome plated cover.

B. Finishes: All exposed parts of floor cleanouts in finished areas shall be scoriated nickel bronze.

2.5 INSULATION

A. Pipe insulation thickness shall be per California Mechanical Code and California Energy Code (Section 120.3) or as indicated below, whichever is greater. Pipe insulation thickness indicated below, based on a minimum insulation K-value of 0.24. Service Water Heating Systems. At all recirculating sections, electric trace tape, and first eight feet of hot and cold outlet piping for nonrecirculating storage systems, and all hot water piping on residential systems.
1. Fluid Range 105-140 F:
   a. Nominal pipe diameter: less than 1 inch, provide 1.0 inches of insulation wall thickness.
   b. Nominal pipe diameter: 1 inch to less than 2 inch, provide 1.5 inches of insulation wall thickness.
   c. Nominal pipe diameter: 2 inch and larger, provide 2.0 inches of insulation wall thickness.

B. Above grade, inside building: Cover all piping, fittings, valves and appurtenances with Owens Corning SSL II with ASJ Max 3.5-5.5 lbs/sqft density, preformed, fiberglass with all service vapor jacket. Butt ends shall be tightly pressed together. Butt joints shall be covered with ASJ tape. Cover all fittings with Proto or Speedline 20 mil thick PVC fitting covers, color white, verify color with Architect and Owner; and coordinate color with other trades, attached with adhesive recommended by the manufacturer. Insulation in buildings shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 450 when tested in accordance with UBC Standard 8-1, CBC Section 720.2. Exposed pipe and fittings or where routing in return air plenum spaces shall be covered with 25/50 rated Proto or Speedline 20 mil thick PVC jacketing and fitting covers, color white, attached with adhesive recommended by the manufacturer. PVC covers shall be installed watertight; all jackets, penetrations and ends, seams and joints shall be sealed water tight with approved adhesive. Cover all pumps with 1” thick neoprene cover with glued joints. Verify jacketing color with Architect and Owner.

C. Insulation blocks at pipe supports shall be pipe shields calcium silicate blocks, size to match pipe insulation. The insulation jacket shall be butted to the support and sealed watertight to the metal shield. Provide 360 degree 12”long (8” long for piping less than 3" diameter) 18 ga galvanized sheet metal shields at each hanger. Provide 360 degree saddles. Top saddle should overlap bottom saddle. 180 degree saddles at clevis and J-hangers are acceptable.

D. Lavatory and sink traps: Manufactured insulators with smooth, white, PVC outer covering, complying with ADA and state accessibility requirements, Truebro Lav Guard 2 or Plumberex Pro-Extreme series. Also insulate the hot water supply valve and pipe. There shall be no sharp or abrasive surfaces under sinks or lavatories.

2.6 ADHESIVES, SEALANTS, CAULKS, PAINTS AND COATING

A. All products shall comply with the VOC limits requirements in California Green Building Code (CALGreen). If a non-conforming product is found in these bid documents, notify the Engineer immediately for an alternate product.

2.7 ACCESS PLATES AND DOORS

A. Wall cleanouts: Zurn #ZANB-1460-7 nickel bronze with polished stainless steel cover or #Z1460-8 stainless steel; with bronze cleanout plug (at cast iron) or plastic cleanout plug (at PVC or ABS).

B. Access doors:
1. Access doors at dry wall surfaces: ELMDOR #DWB 16 gage galvannealed steel construction with prime finish, or approved equal. Minimum size 10”x10”.
2. Fire rated ceiling or walls, ELMDOR FRC or FR series or approved equal.

2.8 FIXTURES AND EQUIPMENT

A. Provide fixtures and equipment of the manufacturer and model numbers shown on the Drawings, complete with all required carriers, stops, supplies, trim, and other items necessary for proper operation.

B. Fixture tailpieces and traps for lavatories and sinks shall be KEENEY 17-gauge brass tubing or semi-cast brass with heavy duty chrome plated finish.

C. Sink, lavatory, and tank toilet supply stop valves and supply kits: BRASSCRAFT KTS 1/4 turn ball valves, chrome plated brass finish, lock shield with loose key, stainless steel or chrome plated copper supply tubing.

D. All equipment, fixtures and fittings shall conform to California Energy Commission Certification per CEC subchapter 2, for energy usage and water usage compliance. See equipment schedules for specific ratings.

2.9 PIPE MARKERS AND EQUIPMENT NAMEPLATES

A. QUALITY ASSURANCE: Meet ANSI A13.1 2007 Scheme for identification of piping systems.

B. Piping Markers: Provide Seton Opti-Code or approved equal by MSI, self-adhesive pipe markers for all piping. Pipe markers shall include direction of fluid flow arrows, color coded field and lettering height in accordance with OSHA and ASME (ANSI) Standard A13.1-2007. As a minimum, pipes shall be marked with service and direction at both sides of wall penetration, and every 20 feet but not less than once per room, and shall be visible from the floor level.

C. EQUIPMENT NAMEPLATES: Provide Seton custom engraved acrylic (plastic), Black with white border and lettering, 3” wide by 1” high with minimum 1/4” lettering, attached with two small screws. Provide a label at each piece of major equipment for equipment identification.

2.10 OTHER MATERIALS

A. Other materials not specified, but required for a complete installation, shall be as selected by the Contractor subject to acceptance by the Engineer.

3. EXECUTION

3.1 GENERAL

A. Verify that the work of this Section may be completed in accordance with all pertinent codes and regulations, the Construction Documents, approved Submittals, and the manufacturers' recommendations. In the event of discrepancy, immediately notify the Engineer. Do not proceed in areas of discrepancy until all discrepancies have been resolved.

B. Install all equipment per manufacturer's instructions and recommendations.

C. Install all equipment level. Install all equipment in accordance with manufactures installation instructions, where plans or detail differ from manufactures' instructions, contact Engineer for clarification before proceeding with installation.

D. See Structural Drawings for details of underground piping beneath and through building footings.

E. Do not cut into or reduce the size of any load-carrying member without the prior approval of the Architect.

F. Anchor piping subject to expansion or contraction in a manner permitting strains to be evenly distributed. Provide offsets and expansion compensation devices as required to prevent undue stress on the piping and building components. Allow for pipe expansion of 1 inch per 100 feet.

G. Piping shall be securely held in place by hangers, supports & trapezes in accordance with CA Plumbing Code Section 313.0. All hangers shall be designed to support the pipe, including fluid and insulation. Provide hangers and supports at intervals per CPC table 313.3

H. Pipe Supports: All materials shall be new and manufactured for the specific purpose of supporting systems, equipment, pipes and accessories.

I. All overhead primary pipe supports shall meet the following minimum standards: ANSI/MSS SP-58: Materials, Design, Manufacture, Selection, Application, and Installation; ANSI/MSS SP-69: Selection & Application; ANSI/MSS SP-89: Fabrication & Installation Practices.

J. All in-wall secondary supports shall meet IAPMO PS 42-2013 Pipe Alignment & Secondary Support Systems.

K. Provide Link-Seals for protection against water penetration where underground pipes pass through finished floors, ceilings or walls. Provide chrome plated brass split escutcheons where pipes pass through finished floors, ceilings or walls.

L. Where piping passes through foundations, footings or bearing walls, provide PVC pipe sleeves two sizes larger than the pipe passing through the structure. Caulk the annular space between the pipes or provide Link-Seals at foundation walls. Provide chrome plated brass split escutcheons where pipes pass through finished floors, ceilings, or walls.

M. Foam pipe wrap all unsleeved piping passing through or in concrete: Benjamin Mfg. Co. in-sul wrap #6200. Apply in spiral wrap with one third overlap. Provide minimum of 3/8”annular space (between concrete and pipe).

N. Make allowances for building and support structure movement.

O. Provide 1/2" minimum separation between piping and building construction.

P. Provide seismic bracing per SMACNA / PPIC "Seismic Restraints Manual: Guidelines for Mechanical Systems and Plumbing Piping Systems".

Q. Place a hanger within 12 inches of each horizontal elbow.

R. Piping shall not be in contact with hangers or building members.

S. Do not support piping from other pipes, ductwork or other equipment that is not building structure.

T. All steel piping and appurtenances exposed to weather shall be galvanized or zinc plated.

U. Isolate all dissimilar metals with dielectric unions and dielectric flanges, except that brass or bronze valves do not need to be isolated from steel pipe.

V. Provide means of preventing dissimilar metal contact such as plastic coated hangers, copper colored epoxy paint, or non-adhesive isolation tape - B-Line Iso-pipe.

W. Paint any PVC piping and fittings where exposed to direct sunlight with light colored, water based latex paint which compatible with PVC.

X. Where threaded piping connects between plastic and metal materials, provide metal female connection. Do not provide a metal male connection at these types of transitions.

Y. All wetted materials for valves and appurtenances shall be the same material of the piping, unless noted otherwise.

Z. All valves and appurtenances shall be full line size.

AA. Provide accessible shutoff valves at all fixtures, equipment, and appliances. Provide access doors where valves are installed behind or above non-removable construction. Install all below-grade valves in concrete valve boxes. Install boxes flush with the finished grade. Install water hammer arrestors, valves, air vents and other appurtenances in accessible locations, or provide access doors.

BB. Provide unions at 2-1/2" and smaller equipment connections. Provide flanges at larger equipment connections.

CC. Provide straight pipe with a minimum length of six times the pipe diameter upstream of pumps.

DD. Provide UL listed fire stopping, installed per manufacturer's recommendations, where pipes pass through fire rated construction.

EE. All horizontal waste piping is to be at a 2% slope unless otherwise noted on the Drawings.

FF. Seal all vapor barriers and insulation jacketing watertight, per manufacturer's instructions. Use approved materials to seal ends of insulation watertight.

GG. Ends of insulation shall be tightly butted together and held in place with bands at a max of 24" on centers

HH. Insulate all piping components, including but not limited to flexible connectors/expansion joints, valves, pumps, fittings and appurtenances.

I I. Test plugs must be installed to clear insulation.

KK. Valve handles shall be installed to clear insulation/jacket by 3/4" (minimum).

LL. Finish insulation neatly at pipe supports.

MM. Provide pre-molded fitting covers for all pumps, fittings, valves and appurtenances. Fitting covers must be easily removable for access to equipment and valves.

NN. All insulation jacketing laps and band seals to be placed in such a way as to be hidden when viewed from the most traveled locations. Insulation located outdoors where exposed to weather, must be installed with the jacket seams on bottom of piping. All banding and support shields are to be installed with equal spacing and in a uniform manner. Applications of caulking at any joints are to be kept at an absolute minimum.

OO. Insulate and jacket cold water piping, outside the building, where exposed to exterior ambient conditions, for freeze protection.

PP. All piping in trenches shall have bedding from 6 inches below pipe to 4 inches above pipe. Bedding material to be 1/4 inch min. fill sand by Canyon Rock Company or approved equivalent. Bedding must be clean and compacted so as to protect and uniformly support the pipe enclosure. Provide backfill above bedding. Backfill material specification is provided by Others. Prior to construction - verify backfill material specification with General Contractor. Bedding and backfill materials must not contain boulders, cinder fill, construction debris or materials that will damage or break the piping or cause corrosive action. Provide bedding material submittal for review and approval.

3.2 ENERGY CODE TESTING, ADJUSTING AND REPORTING

A. The Contractor shall test and commission all plumbing equipment shown on the Plumbing Drawings. Testing and documentation shall be in accordance with manufacture's installation instructions and California Energy Code NRCC-PLB certificate of compliance forms.

3.3 REQUIREMENTS FOR ACCEPTANCE

A. Make arrangements with the Engineer and the Building Inspector to observe the Work prior to covering or enclosing the work.

B. Clean and flush all piping systems and equipment to remove all contaminants.

C. Sterilize all domestic hot and cold water piping with chlorine solution for a minimum of 24 hours. The residual chlorine concentration shall not be less than 50 PPM. Thoroughly flush the piping systems after the sterilization is completed. Coordinate times of sterilization with the Owner. Provide warning signs during sterilization to prevent system use during sterilization. Provide documentation that indicates when the sterilization was completed.

D. Adjust and test all tempering valves to the scheduled temperature (where not scheduled provide 105 F at public lavatories and hand sinks, and all others provide at 120 F).

E. Test the plumbing systems as outlined below. Isolate all equipment, instruments, and gauges that are not rated for test pressure. If the piping fails the test, repair faulty sections and retest. Provide documentation that all piping systems passed pressure test, indicate day of test and ambient temperature. Piping must be pressure tested and inspected prior to being insulated.
1. DWV systems: Test with a 10 foot water head for a minimum of one hour.
2. Water lines: Test with water at 100 PSIG for 24 hours.

F. An “as-built” red lined drawing set shall be kept on site and updated daily. These “as-builts” shall include the full scope of the design documents and specifications in this section of work. For underground systems include piping depth/invert elevations and exact dimension to grid lines for underground mains. Submit “As-builts” to General Contractor and Owner.

G. Prior to job completion, submit redlined as-built drawings in PDF format (color, 200 to 300 DPI resolution) to the Engineer and Owner.

H. Provide operation and maintenance manuals on all equipment include equipment warranties certificates.

I. Instruct the Owner on how to operate and maintain all systems and equipment that are a part of this Section.

END OF SECTION

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

TEP ENGINEERING
880 Second Street
Santa Rosa, CA 95404-4810
707.538.0400 office
707.538.0406 fax

SONOMA COUNTY LIBRARY
Cloverdale Library Patio Alteration
401 N. CLOVERDALE BLVD
CLOVERDALE, CA 95425

REGISTERED PROFESSIONAL ENGINEER
BRIAN MANNING
No.M30810
EXP.12-31-24
MECHANICAL
STATE OF CALIFORNIA

Date	05.20.24
Drawn By	SS
Checked By	BM
Project No.	TEP #4100
Date	Issue
05/20/2024	Issued for Permit

PLUMBING SPECIFICATIONS

SCALE: AS NOTED

P701

APPLICABLE CODES & STANDARDS REFERENCES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023*

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators *(per 2022 CBC Part 2 Ch 35)*
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2022 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2019 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2021 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2021 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2019 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2018 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and
Their Appurtenances (CA amended).....2019 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2022 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2019 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2018 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for
Protection of Commercial Cooking Equipment.....2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems,
Including Accessories.....2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2022 California Building Code become effective January 1, 2023 except the effective date for the use of the 2022 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2023 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is March 5, 2022.

ELECTRICAL DEVICES

- JUNCTION BOX - WALL MOUNTED +18" A.F.F. U.O.N.
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - CEILING MOUNTED
- POWER OUTLET , DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SWITCHED DUPLEX - +18" A.F.F. U.O.N.
- POWER OUTLET, FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DUPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED DUPLEX - CEILING MOUNTED
- POWER OUTLET, FOURPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED FOURPLEX - CEILING MOUNTED

CONTROLS

- SWITCH, SINGLE CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, 3-WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, 4 WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, MOTOR RATED - NOTED MOUNTING
- SWITCH, DIMMER CONTROL - WALL MOUNTED +42" A.F.F U.O.N.
- SWITCH, DIMMER WITH VACANCY CONTROL - WALL MOUNTED +42" A.F.F U.O.N.
- SWITCH, VACANCY CONTROL - SINGLE POLE - WALL MTD +42" A.F.F U.O.N.
- SWITCH, VACANCY CONTROL - DUAL POLE - WALL MOUNTED +42" A.F.F U.O.N. (FAN CONTROL SHALL BE PROVIDED WITH TIME DELAY)
- LV SWITCH, UP TO FOUR ZONES, EACH WITH ON/OFF AND DIMMER CONTROL - WALL MOUNTED +42" A.F.F U.O.N.
- LV SCENE SWITCH - WALL MOUNTED +42" A.F.F U.O.N. (NUMBER OF SCENE BUTTONS AS INDICATED)
- LV MASTER CONTROL - WALL MOUNTED +42" A.F.F U.O.N.
- LV VACANCY SENSOR CONTROL - CEILING MOUNTED
- LV OCCUPANCY SENSOR CONTROL - CEILING MOUNTED
- LV DAYLIGHTING SENSOR CONTROL - DUAL ZONE - CEILING MOUNTED
- PLUG LOAD CONTROLLER - MOUNT IN ACCESSIBLE LOCATION
- ROOM LIGHTING CONTROLLER - MOUNT IN ACCESSIBLE LOCATION (NUMBER OF ZONES AS INDICATED)
- SWITCH, PHOTO CELL
- ASTRONOMICAL TIME CLOCK

LOW VOLTAGE

- CEILING SPEAKER
- WALL MOUNTED SPEAKER: +96" A.F.F. U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- WP EXTERIOR SPEAKER: +96" A.F.F. U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- SPEAKER/ CLOCK: +96" A.F.F. U.O.N., 1" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- DATA OUTLET - WALL MOUNTED +18" A.F.F.
- DATA OUTLET - NOTED MOUNTED
- WP WAP DATA OUTLET FOR EXTERIOR WIRELESS ACCESS POINT, +10'-0" A.F.F.
- VOICE/DATA OUTLET - WALL MOUNTED +18" A.F.F.
- VOICE/DATA OUTLET - NOTED MOUNTING
- VOICE OUTLET - WALL MOUNTED +18" A.F.F.
- VOICE OUTLET - +48" A.F.F. TO CENTER WITH PHONE MOUNT KEYSTONE WALL PLATE, SINGLE GANG, 1-PORT STAINLESS STEEL
- DATA OUTLET - FLOOR MOUNTED
- VOICE OUTLET - FLOOR MOUNTED
- VOICE/DATA OUTLET - FLOOR MOUNTED
- DATA OUTLET - CEILING MOUNTED
- WAP DATA OUTLET - CEILING MOUNTED FOR WIRELESS ACCESS POINT.
- TV OUTLET, WALL MOUNTED +18" A.F.F., U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- AV1 4-GANG IN-WALL A/V CONNECTION ENCLOSURE (HUBBELL #NSAV124M) WITH (1) RECEPTACLE POWER KIT MOUNTED AT +60" AT FLAT PANEL LOCATION. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE

SECURITY

- MS SECURITY MOTION SENSOR: +84" AFF TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING
- K INTRUSION ALARM KEYPAD: +44" TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING
- SINGLE GANG BOX FOR SECURITY CAMERA: 3/4" CONDUIT TO ACCESSIBLE SPACE ABOVE CEILING, MOUNT HIGH ON WALL, VERIFY BOX LOCATIONS AND HEIGHTS WITH DISTRICT PRIOR TO ROUGH-IN
- SECURITY DOOR CONTACT: 1/2" CONDUIT FROM DOOR FRAME STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

CIRCUITING

- CIRCUIT - CONCEALED
- CIRCUIT - EXPOSED
- CIRCUIT - UNDER FLOOR, GROUND OR SLAB
- CIRCUIT - HOME RUN
- CIRCUIT - STUB OUT
- CIRCUIT - STUB DOWN
- CIRCUIT - STUB UP
- CIRCUIT - COMPLETE CONNECTION

EQUIPMENT

- DISCONNECT, NON-FUSED
- DISCONNECT, WITH FUSE
- STARTER, NON-FUSED
- STARTER, WITH FUSE
- DIVISION 15 FAN
- STARTER, WITH CIRCUIT BREAKER
- PANELBOARD FLUSH
- PANELBOARD SURFACE
- ENCLOSURE FLUSH
- ENCLOSURE SURFACE
- DISTRIBUTION BOARD
- METER SECTION
- MOTOR
- MTTB
- SITE PULL BOX / VAULT
- T TRANSFORMER

LIGHT FIXTURES

- LIGHT FIXTURE, 1 x 4 - PENDANT MOUNTED
- LIGHT FIXTURE, 1 x 8 - PENDANT MOUNTED
- LIGHT FIXTURE, 1 x 4 - RECESSED MOUNTED
- LIGHT FIXTURE, 1 x 8 - RECESSED MOUNTED
- LIGHT FIXTURE, 1 x 4 - SURFACE MOUNTED
- LIGHT FIXTURE, 1 x 8 - SURFACE MOUNTED
- LIGHT FIXTURE, 2 x 2 - RECESSED MOUNTED
- LIGHT FIXTURE, 2 x 4 - RECESSED MOUNTED
- LIGHT FIXTURE, 2 x 2 - SURFACE MOUNTED
- LIGHT FIXTURE, 2 x 4 - SURFACE MOUNTED
- LIGHT FIXTURE, 4' STRIP - SURFACE MOUNTED
- LIGHT FIXTURE, 8' STRIP - SURFACE MOUNTED
- LIGHT FIXTURE, EXIT WITH EGRESS - WALL/CEILING MOUNTED
- LIGHT FIXTURE, EGRESS - WALL MOUNTED
- LIGHT FIXTURE, EXIT DOUBLE FACE - CEILING MOUNTED
- LIGHT FIXTURE, EXIT DOUBLE FACE - WALL MOUNTED
- LIGHT FIXTURE, EXIT SINGLE FACE - CEILING MOUNTED
- LIGHT FIXTURE, EXIT SINGLE FACE - WALL MOUNTED
- LIGHT FIXTURE - PENDANT MOUNTED
- LIGHT FIXTURE - RECESSED MOUNTED
- LIGHT FIXTURE, WALL WASH - RECESSED MOUNTED
- LIGHT FIXTURE - SURFACE MOUNTED
- LIGHT FIXTURE - WALL MOUNTED
- LIGHT FIXTURE - POLE MOUNTED
- LIGHT FIXTURE, NO ARM - POLE MOUNTED OR BOLLARD

ADA REQUIREMENTS

A. ALL HEIGHTS CALLED OUT ON PLANS ARE TO CENTERLINE OF DEVICE, U.O.N.

B. FOLLOW ALL ADA REQUIREMENTS FOR DEVICE MOUNTING:
- MAX UNOBSTRUCTED FORWARD REACH 48-INCHES TO TOP OF DEVICE.
- MIN UNOBSTRUCTED FORWARD REACH 15-INCHES TO BOTTOM OF DEVICE.
- MAX OBSTRUCTED FORWARD REACH 44-INCHES TO TOP OF DEVICE.
- MAX OBSTRUCTED SIDE REACH 46-INCHES TO TOP OF DEVICE.

ACCEPTANCE TESTS

ACCEPTANCE TESTS ARE REQUIRED TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ADMINISTRATION CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

DIAGRAMS

- ATS ATS
- PANEL 1LA PANEL
- 100A 3P CIRCUIT BREAKER
- XXXA XXP FUSE
- XXXA XXP UTILITY FUSE
- GROUND ROD
- M METER
- M METER CT
- TRANSFORMER

MISCELLANEOUS

- XX DEMO KEYED NOTE TAG
- X ELECTRICAL EQUIPMENT TAG
- 1 KEYED NOTE TAG
- X / X MECHANICAL EQUIPMENT TAG
- X REVISION DELTA
- 1 EQUIPMENT MANUFACTURER'S IDENTIFICATION NUMBER
- X / E- DETAIL REFERENCE
- X / E1 | E2 DETAIL REFERENCE
- PLAN NORTH PLAN NORTH ARROW

ELECTRICAL SHEET INDEX

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
A.F.F.	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
APPROX	APPROXIMATE
ARF	ABOVE RAISED FLOOR
ATS	AUTOMATIC TRANSFE SWITCH
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BFG	BELOW FINISH GRADE
CATV	CABLE TELEVISION
℄	CENTERLINE
C, CND	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CO	CONDUIT ONLY
COMM.	COMMUNICATIONS
CONST	CONSTRUCTION
CONT	CONTINUED
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EXHAUST FAN
EGU	ENGINE GENERATOR UNIT
EM	EMERGENCY LIGHT W/BATTERY BACKUP
EMT	ELECTRICAL METALLIC CONDUIT
ENT	ELECTRICAL NON-METALLIC CONDUIT
EP	EXPLOSION PROOF
EQ	EQUAL
EQUIV	EQUIVALENT
EWC	ELECTRIC WATER COOLER
(F)	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FAN COIL
FDR	FEEDER
FLUOR	FLUORESCENT
FU	FUSE
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
HID	HIGH INTENSITY DISCHARGE
HO	CONTROL SWITCH, "HAND - OFF"
HOA	CONTROL SWITCH, "HAND - OFF- AUTO"
HOR	CONTROL SWITCH, "HAND - OFF- REMOTE"
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION & AIR-COND.
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KV	KILO VOLT
KVA	KILO VOLT-AMP
KW	KILO WATT
KWH	KILO WATT-HOUR
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL-CLAD
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR, MFGR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MDP	MAIN DISTRIBUTION BOARD
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
(N)	NEW
N, NEUT	NEUTRAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PB	PULL BOX, ELECTRICAL
R	RADIUS
RECEPT	RECEPTACLE, OUTLET
REQD	REQUIRED
RGS, RSG	RIGID GALVANIZED STEEL CONDUIT
RTU	REMOTE TERMINAL UNIT
SD	STORM DRAIN
SP	SPACE, SPARE
SS	STAINLESS STEEL
STD	STANDARDS, APPLICABLE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
T	THERMOSTAT
TP	TAMPER PROOF
TV	TELEVISION
TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDER GROUND
U.O.N.	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VA	VOLT-AMP
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W/O	WITHOUT
WH	WATER HEATER
WHM	WATT-HOUR METER
WP	WEATHER PROOF
XFMR	TRANSFORMER

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

REGISTERED PROFESSIONAL ENGINEER
RODNEY A. CLINE
No. E18225
Exp. 12-31-25
ELECTRICAL
STATE OF CALIFORNIA

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

ELECTRICAL LEGEND AND ABBREVIATIONS

ISSUE DATE: 03/22/2024
PREPARATION AND REVIEW
DRAWN BY: CB
DESIGNER: CB
PROJ MGR: CAC
PEER REVIEW:

SHEET NUMBER:

E001

ELECTRICAL SPECIFICATIONS 26 00 00

ELECTRICAL

1.01- RELATED DOCUMENTS
A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.

1.02 - WORK INCLUDES
A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified hereinafter, including, but not limited to the following:
1. Distribution system, including main switchboard, panelboards, and feeders.
2. Branch circuit wiring, wiring devices and connections to all equipment requiring electrical service.
3. Lighting fixtures with hangers, anchors and supports. Lighting Controls.
4. Electrical equipment grounding system.
5. Telecommunication boxes, outlets, raceways and cabletrays.
6. Mechanical equipment power and control connections as stated in the mechanical and electrical specifications and as shown on the mechanical and electrical drawings.
7. Fire alarm system shall be Design Build by a Fire Alarm contractor.
8. Security and access control.
9. Raceways, outlet boxes and power connections for security and access control system. Coordinate all requirements with Owner.
10. Sleeves, inserts and blocking in cast concrete as required for work in this section.
11. All required incidental work, such as excavating and backfilling, roof flashing, and testing.
12. Any other electrical work as might reasonably be implied as required, even though not specifically mentioned herein or shown on the drawings.

1.03 - INCORPORATED DOCUMENTS
A. Requirements of the general conditions, supplementary conditions, and division 1. sections apply to all work in this section, unless modified herein.
B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work of this section where cited by abbreviations noted below, unless modified herein.
1. NATIONAL ELECTRICAL CODE, LATEST EDITION, (NEC).
2. NEMA STANDARDS
3. UNDERWRITERS' LABORATORIES, INC. (UL).
4. LOCAL UTILITY COMPANY REGULATIONS.
5. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

1.04 - CONDITIONS AT SITE:
A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.

1.05 - QUALITY ASSURANCE
A. Conformance:
1. All work shall conform to the applicable requirements of Article 1.03 above.
2. The Contractor shall notify the Architect, prior to submission of bid, about any part of the design which fails to comply with abovementioned requirements.
3. If after contract is awarded, minor changes and additions are required by aforementioned authorities, even though such work is not shown on drawings or covered in specifications, they shall be included at Contractor's expense.
B. Coordination:
1. The Contractor shall become familiar with the conditions at the job site, and with the drawings and specifications and plan the installation of the electrical work to conform with the existing conditions and that shown and specified so as to provide the best possible assembly of the combined work of all trades.
2. The Contractor shall work out in advance all "tight" conditions, involving all trades and if found necessary, supplementary drawings shall be prepared by this Contractor, for the Architect's approval, before work proceeds in these areas. No additional costs will be considered for work which must be relocated due to conflicts with the work of other trades.

1.06 - SUBMITTALS
A. Product Data:
1. Comply with the General Provisions of the Contract.
2. Within 15 days after award of the Contract, submit:
a. Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
b. Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.
c. Manufacturers' recommended installation procedures which, when approved by the Architect, shall become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.
3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
a. Light Fixtures
b. Switchboard
c. Panelboards
d. Motor Starters, Control Equipment, and Control Relays
e. Disconnect Switches
f. Fire Alarm System
g. Lamps
h. Ballasts
i. Lighting Control System
j. Security and access Control
k. Switches, receptacles and faceplates.
4. Test Reports:
a. Factory Tests where indicated for specific equipment.
b. Field Tests: Performance tests as specified for specific equipment.
c. When series rated circuit breakers are used, provide a letter from the manufacturer of the equipment confirming that U.L. series rating exists for all protective devices. State the available fault current from the Utility Company and indicate that the overcurrent devices exceed the available fault current at the respective point of protection.

1.07- MATERIALS
A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

1.08 - ACCEPTABLE MANUFACTURERS
A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.
B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.

1.09 - DELIVERY, STORAGE AND HANDLING
A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.
C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.
D. This Contractor shall personally, or through an authorized representative, check all materials upon receipt at jobsite for conformance with approved shop drawings and/or plans and specifications.

1.10 - SCHEDULING/SEQUENCING
A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.

1.11 - REQUIREMENTS
A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.
B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-WITH NO DEVIATIONS PERMITTED.
C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne by the Contractor under this section.

1.12 - IDENTIFICATION
A. Switchboards, feeder circuit breakers in switchboards, panels, disconnect switches, motor starters and motor disconnect switches, cabinets, and other apparatus used for the operation of, or control of circuits, appliances or equipment, shall be properly identified by means of engraved laminated plastic descriptive nameplates mounted on apparatus using stainless steel screws. Nameplates shall have white letters with black background and be submitted to the Architect for approval. Cardholders in any form are not acceptable.
B. Each branch circuit of panelboards to have a permanently fixed number with directory, mounted under celluloid on inside of cabinet door, showing circuit numbers, room number feed and typewritten description of equipment supplied by breakers.
C. Each Panelboard, Switchboard and Motor Control Center shall be provided with an Arc-Flash warning label per NEC requirements.

PART 2 - PRODUCTS:

2.01 - GENERAL
A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects.
B. Materials shall bear Underwriters' Laboratory label.
C. Furnish equipment and materials for any one system by same manufacturer.

2.02 - MATERIALS
A. Conduit
1. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
2. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
3. Rigid Steel: Hot dipped galvanized, used exposed and in concrete slab, with completely watertight fittings.
4. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire with "Schedule 80" elbows and stub-ups.
5. All rigid steel conduit, couplings and elbows in soil or under membrane to be 1/2 tape wrapped with touch #50 tape and threaded ends coated with red lead prior to installation of couplings.
6. Use flexible conduit for all motor connections; Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.
7. Conduit Bends - Long Radius.
8. Provide conduit seals at all concrete slab penetrations.
9. Contractor shall xray all existing concrete slab before core drilling.
10. All indoor conduit shall be installed concealed in walls or above ceiling unless noted otherwise
11. Installation:
a. Outdoor Locations:
- Above Grade: Provide rigid steel conduit. Provide cast metal outlet, pull, and junction boxes.
- In Soil: Provide Sched 40 or 80 PVC with Sched 80 PVC elbows (in marine/high moisture environments) or Rigid Steel elbows wrapped.
- In Concrete: Provide hot dipped galvanized rigid steel or Sched 40 PVC Conduit.
- Flexible Connection: WP Flexible metal conduit.
- Watertight and corrosion resistant fittings, couplings, boxes, etc.

b. Indoor Locations:
- Exposed Dry Locations: Provide galvanized rigid steel conduit or Intermediate metal conduit. Provide cast boxes. Electric Metallic Tubing may be provided in unfinished areas.
- Concealed Dry Locations: Provide electrical metallic tubing for sizes less than 2-inches. Provide galvanized rigid steel or intermediate steel conduit in sizes 2-inches or larger. Provide cast or sheet metal boxes.
  - Electric non-metallic tubing may be used from data/voice outlet to above non plenum ceiling only, otherwise it is unacceptable.
  - Flexible Conduit/MC cable may be used for the following applications only if allowed by the latest NEC publications:
    - Between light fixtures / light switches (not for homerun)
    - Between general 20A receptacles within walls (not for homerun)

  Cable must be the same size as the IMC or EMT conduit to which it is connected. Both the flexible metal conduit and it's fittings are to be listed for grounding. A green grounding conductor shall be installed. All connections are to be of a NEMA approved type.
- Electric non-metallic tubing may be used from data/voice outlet to above non plenum ceiling only, otherwise it is unacceptable.
- Locations subject to corrosive atmosphere: Provide PVC coated, galvanized rigid steel or intermediate steel conduit. Provide PVC coated cast or sheet metal boxes.
- Hazardous Locations (Per NEC Article 500): Galvanized rigid steel conduit. Cast iron boxes with threaded hubs for conduit entry. Conduit seals.

B. Conduit Fittings:
1. Fittings for rigid steel and flexible type conduit shall be of a type as required, malleable iron or steel, galvanized or sheradized.

C. Outlet Boxes and Junction Boxes:
1. Galvanized one piece steel knockout type, unless otherwise noted, sizes as required for conditions at each outlet or as noted, not smaller than 2 inches wide by 4 inches high, ganged where multiple switch locations are indicated.
2. Outlet boxes located on exterior to be flush type (unless notes otherwise) with Weatherproof extra duty In-Use cover with lockable covers for receptacles.
3. All connectors from conduit to junction or outlet boxes shall have integral insulated throats.
4. Flush Service Floor Boxes: Multi-gang, cast iron, watertight, with corrosion resistant finish, exterior levelling screws, removable partitions, adjustable before and after concrete pour, with gasketed cover, meeting U.L 514. Coordinate with Owner's Representative and provide brass or black carpet plate (per owners preference) where required.
5. Outlet boxes for telephone and cable TV outlets shall be 4" square minimum with single gang plaster rings.

D. Power Wire and Cable:
1. Copper 90% conductivity. Solid copper for conductors smaller than No. 8 AWG. Stranded copper for conductors No. 8 AWG and larger. No conductors smaller than No. 12 AWG, except as noted.
2. Insulation type: #12 to #1 AWG: THWN for wet locations and THHN for dry locations. #1/0 through #4/0 AWG: XHHW (55 Mils). 250MCM and larger: XHHW (65 Mils).
3. Conductors No. 8 and larger and as otherwise noted on drawings shall be stranded.
4. Connections to devices from "through_feed" branch circuit conductors to be made with pigtails, with no interruption of the branch circuit conductors.
5. Neutral conductor identified by white outer covering braid, with different tracers of "EZ" numbering tags used where more than one neutral conductor is contained in a single unit.
6. Neatly arrange and "marlin" wired in panels and other equipment with "T and B Ty-rap" or approved equal plastic type strapping.
7. Label each wire of each electrical system in each pull box, junction box, outlet box, terminal cabinet, and panelboard in which it appears with "EZ" numbering tags.
8. All wire and cable shall bear the Underwriters' Label, brought to the job in unbroken packages; wire color coded as follows:

Voltage	Phasing	A Phase	B Phase	C Phase	Neutral
120|240	1p3w	Black	Red	-	White
120|208	3p 4w	Black	Red	Blue	White
208	3w	Black	Red	Blue	-
277|480	3p 4w	Brown	Orange	Yellow	White
480	3w	Brown	Orange	Yellow	-

E. Telecommunication Wiring/ Receptacles:
1. Category 6 UTP cable: Unshielded, 4 twisted-pair, 24 AWG copper, Category 6
2. Indoor Fiber Optic backbone cable: 12 strand, 62.5/125 m, multi-mode, riser type, NEC rated OFNR/FT4, color coded, ripcord, 900 m buffer coating
2. Telephone single port: Leviton 40644-00W or equal.
3. For Indoor TV outlets: single gang with cable TV jack.
4. Route in cable tray or on J-hooks (max 8ft on center where above accessible ceiling) or conduit (where non accessible).

F. Receptacles: Leviton Decora style or equal, 125 volts, specification grade, conventional style, white color, unless otherwise noted:
1. 15A 3PG 125 volt duplex TP - Leviton T5325-W or equal
2. 15A 3PG 125 volt duplex TP with USB - Leviton T5632-W
3. 20A 3PG 125 volt duplex TP - Leviton T5825-W or equal
2. 20A 3PG 125 volt duplex TP with USB - Leviton T5832-W
3. 15A 3PG 125 volt duplex AFCI TP - Leviton AFTR1-W or equal
4. 20A 3PG 125 volt duplex AFCI TP - Leviton AFTR2-W or equal
3. 20A 3PG 125 volt duplex GFCI/AFCI TP - Leviton AGTR2-W or equal
4. 20A 3PG 125 volt duplex GFCI TP - Leviton GFWT2-W or equal
5. 15A 3PG 125 volt duplex TP Pop-up floor box - Leviton PFTR1 (verify color)
5. 15A 3PG 125 volt duplex TP with USB Pop-up floor box - Leviton PFUS1 (verify color)
6. 20A 3PG 125 volt duplex TP Pop-up floor box - Leviton PFTR2 (verify color)
6. 20A 3PG 125 volt duplex TP with USB Pop-up floor box - Leviton PFUS2 (verify color)
7. 20A 3PG 125 volt isolated ground receptacle, 3 wire, orange color 1 I.G.
8. Special appliances receptacles: Match NEMA configuration of equipment plug.

H. Plates: Leviton white, or equal, except as noted:
1. For Indoor flush outlet boxes: Decora Style
1.1. Single gang: Leviton 80301-SW (snap) or equal
1.2. Double gang: Leviton 80309-SW (snap) or equal
2. Plates for surface mounted outlets: galvanized steel unless otherwise noted.
3. Exterior Locations - Weatherproof extra duty In-Use cover - Leviton 5980-UCL or equal.

I. Motor Disconnect Switches and Safety Switches: Heavy Duty Type, cover interlocked with operating handle so that cover cannot be opened with switch in closed position and switch cannot be closed with cover in open position, 240 or 480 volt rating, as required or as noted on drawings, in Nema 1 enclosure indoors, 3R enclosure outdoors, or as otherwise noted. All motor circuit fuses shall be dual element type.

J. Lugs and Connectors: Thomas and Betts "lock-tite", for No. 4 and larger wire; "Scotchlock" with insulator for No. 6 and smaller wire.

K. Splice Insulation: "Scotch" electrical tape with vinyl plastic backing or rubber tape with protective friction tape for interior work.

L. Grounding:
1. Install ground wires in rigid conduit. Provide physical protection for grounding electrode and bonding conductors in accordance with nec 250-64. Grounding conductors shall be in conduit and installed in accordance with NEC 250-64(e).
2. All grounding electrode conductor connections "thermite" or "cad_weld" welded.
3. Use approved pressure type solderless connector or use fusion welding for all connections to and bonding of grounding electrode system. All connections shall be visible, readily accessible for testing purposes.
4. Terminate grounding conduits at equipment with ground bushing, with ground wire connected through bushing.
5. Provide No. 12 stranded (green) THHN conductor from outlet box to ground screw of every receptacle except isolated ground receptacles.
6. Ground all isolated sections of metallic raceways.
7. Provide #12 minimum stranded (green) THHN conductor sized per NEC, or as noted, connected continuously throughout branch circuit for all circuits, bonded to panel ground bus, and to all electrical devices and equipment enclosures.
8. After installation, test system, using the three-point fall of potential method only. Record results and submit to Architect for approval. If resistance to ground exceeds three (3) ohms, install additional ground rods, bonded and interconnected to grounding electrode system. Provide additional grounding until resistance is less than three (3) ohms.

M. Panelboards:
1. Surface or flush mounted, with branch circuits as shown on drawings.
2. Enclosures: code gauge galvanized sheet steel with welded full flange end pieces, stretcher_ leveled steel trim, backpan and door.
3. Bussing of copper with silver_plated contact surfaces.
4. Trims on surface_mounted cabinets secured with nickel_plated screws with cup washers, bottom of all trims to have lugs for resting on cabinet flange.
5. Panels shall be 20 inches minimum in width, provided with approved gutter space, barriers and adjustable supports. Doors mounted with concealed hinges provided with combination spring latch and lock. Doors and trims and surface mounted cabinets primed and finished with one coat baked on gray enamel.
6. Breakers on same phase to be aligned horizontally. Each panel provided with 5_handle locks.
7. Each branch circuit of panelboards to have a permanently fixed number with one word directory, mounted under celluloid on inside of cabinet door, showing circuit numbers and typewritten description of outlets controlled by breakers. Color code mains and each breaker terminal, same as conductor insulation.
8. Each panel shall be equipped with a copper ground bus.

N. Circuit Breakers:
1. General: Circuit breakers shall be molded case rated for 480 or 240 volts, multiple or single pole and amperage rating as shown on the drawings, bolt on, manually operated with "de-ion" arc chutes.
2. Distribution circuit breakers shall be rated for the amps interrupting capacity noted on the drawings or U.L. series rated with the main circuit breaker.
3. Branch circuit breakers shall be rated for the amps interrupting capacity or U.L. series rated with the distribution and main circuit breakers, General Electric type TEB or equal, minimum 22,000 A.I.C for 120/208 volt, type TED or equal, minimum 42,000 A.I.C for 277/480 volt.
4. Where mechanical equipment is U.L. listed for overcurrent protection with fuses or HACR type circuit breakers, provide fuses where a fused switch is shown. Where the overcurrent protection is a circuit breaker provide HACR, (HACR means Heating, Air-Conditioning and Refrigeration) type.
5. Provide type "SWD" circuit breakers were the circuit breaker is going to be used as a switching device in a panelboard.
6. Provide GFCI rated circuit breakers in all locations within 6-feet of water.

O. Starters:
1. Magnetic starters shall be rated in accordance with latest published NEMA standards for size and horsepower rating, Westinghouse A-200 series or equal. Provide with overload sensor in each phase, hand-off-auto switch, red "run" pilot light, in Indoor NEMA 1,Outdoor NEMA 4X, or NEMA 3R enclosure as shown. Coil shall be rated 120 VAC. Starters shall be across-the-line non-reversing unless otherwise noted.
2. Contacts: Across-the-line magnetic starters shall be equipped with double break silver alloy contacts. All contacts shall be replaceable without removing power wiring or removing starter from panel. The starter must have straight-through wiring.
3. Coils: Coils shall be of molded construction. All coils shall be replaceable from the front without removing the starter from the panel.
4. Overload Relays and Thermal Units: Overload relays shall be the melting

P. Motor Connections:
1. Install motor circuits complete for all motors by other trades as shown on drawings.
2. Furnish and install all disconnect switches, outlet boxes, starters, timeswitches etc., where noted.
3. All motor and temperature control low voltage wiring shall be installed and connected by Division 15 Section of specifications, unless otherwise indicated on electrical and mechanical drawings.

Q. Motor / Equipment Switches: Rated 20 amp, 277 volt, quiet type, white color, specification grade; unless otherwise noted.
1. Single Pole , toggle or rocker switch
2. Wall mounted Occupancy Sensors- Dual Technology

R. Lighting Controls: Provide full room controls to provide the control requirements shown. Manufacturer shall have min 10yrs in manufacturing of similar products. All accessory items such as switches, light fixtures etc shall be specifically designed and approved by the manufacturer to function together. Manufacturer's include Wattstopper, Leviton, Lutron or equal. Provide detailed wiring diagrams, device layout locations, and devices controlled for approval.
As listed in fixture schedule, and on drawings as indicated by type letter, completely lamped with new lamps, properly operating at time of acceptance of electrical work. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
a) Standards:
- ENERGY STAR certified.
- California Title 24 compliant.
- UL Listing: Listed for damp location.
- Recessed luminaires shall comply with NEMA LE 4.

1. Lamps:
a. Unless otherwise noted, lamps described on the Drawings and in these Specifications, are ANSI nomenclature; lamps shall be manufactured by Osram/Sylvania, North American Philips, or approved equal.
b. All incandescent lamps and tungsten halogen lamps shall be 125 -130 volt rated extended life or 2,000 hour life whenever such designs are available.
c. T8 fluorescent lamps shall be 3500K-4100K color temperature, energy saving type suitable.
d. Compact fluorescent lamps shall be 3500K-4100K color temperature, twin-tube and double twin tube (as required for each fixture), as manufactured by North American Philips, approved equal.
e. LED lamps shall be 3500K-4100K color temperature. All LED shall be 0-10V dimming unless specifically stated otherwise. If contractor finds a fixture is not available with 0-10V dimming and the contractor shall alert the GC prior to Bid.
f. CRI of minimum 80. CCT
g. Rated lamp life of 35,000 hours to L70.
h. Lamps dimmable from 100 percent to 1 percent of maximum light outpu
3. Ballasts:
a. Fluorescent Lamp Ballasts: Solid State full light output Class P, ETL certified to CBM standards, high power factor one, two, three, or four lamp types; minimum starting temperature 50 degrees F. unless otherwise noted. Ballasts containing "PCB" are not permitted. The allowable total harmonic distortion shall be equal to or less than 10%. Maximum crest factor 1.4. Power factor .97 or greater. Advance, Magnetek, Lutron or Motorola.
b. Sound Ratings: "A", or the lowest rating available, for the number and types of lamps ballasted. Replace noisy ballasts at no cost to the Owner.
c. All ballasts shall be high power factor energy efficient type.
d. Ballasts in refrigerated spaces or outdoors shall be zero (0) degree F. temperature rated.
e. All ballasts shall be operated without excessive or unusual noise. Noisy or otherwise defective ballasts shall be replaced.
f. Contractor shall burn in lamps per manufacturer's instructions.
4. Plastic:
a. Translucent Plastic Components: Translucent plastic shall be made of smooth, white, 100 percent virgin acrylic material.
b. Plastic Lenses: Lenses shall be uncolored 100 percent virgin acrylic plastic.
5. Finish on Metal Parts:
a. Steel Reflectors: Unless otherwise specified, the reflector surface finish shall be of synthetic white enamel or polyester powder coating.
b. Aluminum Reflectors: Reflecting surfaces shall be provided with either a specular or diffuse finish as indicated.
c. Non_Reflecting Surfaces: Unless otherwise specified, the finish on all non_reflecting exterior surfaces shall be aluminum oxide or aluminum; white, gray or aluminum paint on steel; nickel or chromium plating on copper alloy. Fastening devices shall be nickel, chromium, cadmium or zinc plated.

PART 3 - EXECUTION

3.01 - INSPECTION
A. Examine the areas and conditions under which the work of this Section will be installed. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 - PREPARATION
A. Drawings
1. The general arrangement and location of wiring and equipment is shown on the electrical drawings and shall be installed in accordance therewith, except for minor changes required by conflict with the work of other trades.
2. Drawings indicate the circuit and panel which supplies each device or fixture. Provide and install conduit and conductors to make all connections from panel to nearest device and from first device to additional devices on same circuit. Conduit size and fill shall satisfy NEC requirements. Two or three different phases supplied by a 3_phase panel may share a single neutral only if circuit positions are adjacent in the panel and the breakers will have to be provided with a handle tie or multi-pole breaker per NEC requirements. Do not exceed 4 #12 or 3 #10 conductors in a 1/2" conduit, 7 #12 or 5 #10 in a 3/4" conduit, or 11 #12 or 9 #10 in a 1" conduit, unless otherwise noted. If more than three current carrying conductors are installed in one conduit, conductor size shall be increased as required per Note 8 to Table 310_16 of the NEC.
3. Drawings indicate the location of all light switches. Where fixtures in a room are controlled by more than one switch, the same lower case letter is drawn adjacent a switch and each fixture controlled by that switch. Where no lower case letter is adjacent to a switch, all fixtures in the room are controlled by that switch. Provide and install conduit and wire from fixture to switch and between fixtures as required to accomplish switching shown. Do not route branch circuit wiring for light fixtures through switch boxes.
4. Control wiring is generally not shown on the plans. Contractor shall refer to control diagrams and provide and install all wiring and raceways required to make all interconnections.
5. All branch circuit wiring No. 12 or larger as noted, all control wiring No. 14 or larger.
6. All dimensions, together with locations of doors, partitions, etc. are to be taken from the Architectural Drawings, verified at site by this Contractor.
7. Maintain "as-constructed" Record Drawings at all times, showing the exact location of concealed conduits and feeders installed under this contract, and actual numbering of each circuit. Upon completion of work and before acceptance can be considered, this Contractor must forward to the Owner's Representative corrected Record Drawings in Autocad format indicating the electrical work as installed.

3.03 - FIELD QUALITY CONTROL
A. All workmanship shall be first class and carried out in a manner satisfactory to and approved by the Architect.
B. This Contractor shall personally, or through an authorized and competent representative, constantly supervise the work and so far as possible keep the same foreman and workmen on the job throughout.

3.04 - INSTALLATION/APPLICATION/ERECTION
A. Cutting, repairing and structural reinforcing for the installation of this work shall be done by the General Contractor in conformance with the Architect's requirements.
B. Provide and place in form work all conduit, inserts and sleeves in time to prevent any delay in the concrete work.

3.05 - ADJUSTING AND CLEANING
A. Main switchboard, panelboards and all other electrical equipment not "finish painted" under other sections shall be touched up where finished surface is marred or damaged. Panelboards in finished areas shall be painted to match wall.
B. All equipment, lighting fixtures, etc., shall be left in clean condition, with all shipping and otherwise unnecessary labels removed therefrom.
C. Excavate and trench as necessary for the electrical installation, and when the work has been installed, inspected and approved, backfill all excavations with imported sandy soil in maximum 8" (eight inch) layers, moisten and machine tamp to 95% compaction, and restore the ground and/or paving or floor surfaces to their original condition. Comply with requirements of Division 2.

3.06 - SCHEDULES
A. Coordination: Coordinate installation of electrical items with the schedule for other work to prevent unnecessary delays in the total Work.

3.07 - TESTING
A. Grounding System:
1. All ground connections shall be checked and the entire system shall be checked for continuity. The resistance of the ground system shall be measured using a 3 point fall_of_potential method. The maximum ground resistance shall be three ohms. If the measured ground resistance exceeds three ohms, additional ground rods shall be installed until a value of three ohms or less is obtained.
2. Ground tests shall meet the requirements of the National Electric Code.
B. Lighting Systems:
1. The interior and exterior lighting systems shall be checked for proper local controls and operation of entire installation, including the operation of the low voltage lighting control system.
C. Power Distribution System:
1. Tests: Test main switchboard, distribution boards,and panelboards for grounds and shorts with mains disconnected from feeders, branch circuits connected and circuit breakers closed, all fixtures in place and permanently connected and grounding jumper to neutral lifted and with all wall switches closed.
2. Test each individual circuit at each panelboard with equipment connected for proper operation. Inspect the interior of each panel.
3. Check verification of color coding, tagging, numbering, and splice make up.
4. Verify that all conductors associated with each circuit are in same conduit.
5. Demonstrate that all lights, jacks, switches, outlets,and equipment operate satisfactorily and as called for.

D. Fire Alarm System: Verify that all equipment, components, and devices function as specified and to the satisfaction of the Authority Having Jurisdiction.

WIRING NOTES

1. IF MORE THEN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED PER RACEWAY. CONTRACTOR SHALL DEMONSTRATE COMPLIANCE WITH NEC TABLE 310.15(B) (3) (a).
1.1. MAX (9) #12 AWG FOR 20A CIRCUITS.
1.2. MAX (6) #10 AWG FOR 30A CIRCUITS.
1.3. MAX (6) #8 AWG FOR 40A CIRCUITS.

2. FOR BRANCH CIRCUITS DO NOT EXCEED NEC CONDUIT FILL REQUIREMENTS, PROVIDE MAX:
2.1. MAX (9) #12 AWG THHN PER 3/4"EMT CONDUIT.
2.2. MAX (6) #10 AWG THHN PER 3/4" EMT CONDUIT.
2.3. MAX (4) #8 AWG THHN PER 3/4" EMT CONDUIT.
2.4. MAX (3) #6 AWG THHN PER 3/4"EMT CONDUIT.
2.5. MAX (2) #4 AWG THHN PER 3/4"EMT CONDUIT.
2.6. MAX (3) #4 AWG THHN PER 1" EMT CONDUIT.
2.6. MAX (2) #2 AWG THHN PER 1" EMT CONDUIT.
2.7. MAX (3) #2 AWG THHN PER 1 1/4" EMT CONDUIT.

3. FOR 20A CIRCUITS PROVIDE MINIMUM:
3.1. UP TO 75FT - #12 AWG
3.2. 75FT TO 150FT - #10 AWG
3.3. 150FT TO 250FT - #8 AWG

4. ADHERE TO VOLTAGE DROP LIMITS AS SHOWN BELOW:

SUMMARY OF VOLTAGE DROP LIMITS

CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	TOTAL LOSS (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

VOLTAGE DROP FOR COMMON COPPER WIRE GAUGES AND CURRENT LOADS

WIRE	CIRCUIT AMPS	MAXIMUM FEEDER LENGTH					MAXIMUM BRANCH CIRCUIT LENGTH				
		120	208	240	277	480	120	208	240	277	480
14	12	39	67	78	90	156	58	101	117	135	233
12	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250 (kcmil)	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	672	776	1344

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

REGISTERED PROFESSIONAL ENGINEER
RODNEY A. BROKAW
No. E18225
Exp. 12-31-25
ELECTRICAL
STATE OF CALIFORNIA

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

ELECTRICAL SHEET SPECIFICATION

ISSUE DATE:	03/22/2024
	PREPARATION AND REVIEW
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	CAC
PEER REVIEW:	

SHEET NUMBER:

E002

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

SHEET NOTES - DEMOLITION

A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.

B. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.

C. DISCONNECT, REMOVE AND/ OR EXTEND ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

D. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUE SERVICE TO NEAREST AVAILABLE PANEL.

E. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.

F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.

G. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.

H. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

J. REMOVE EXPOSED ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.

K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.

L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.

M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS.

N. SEAL ANY PENETRATIONS IN FIRE RATED WALLS.

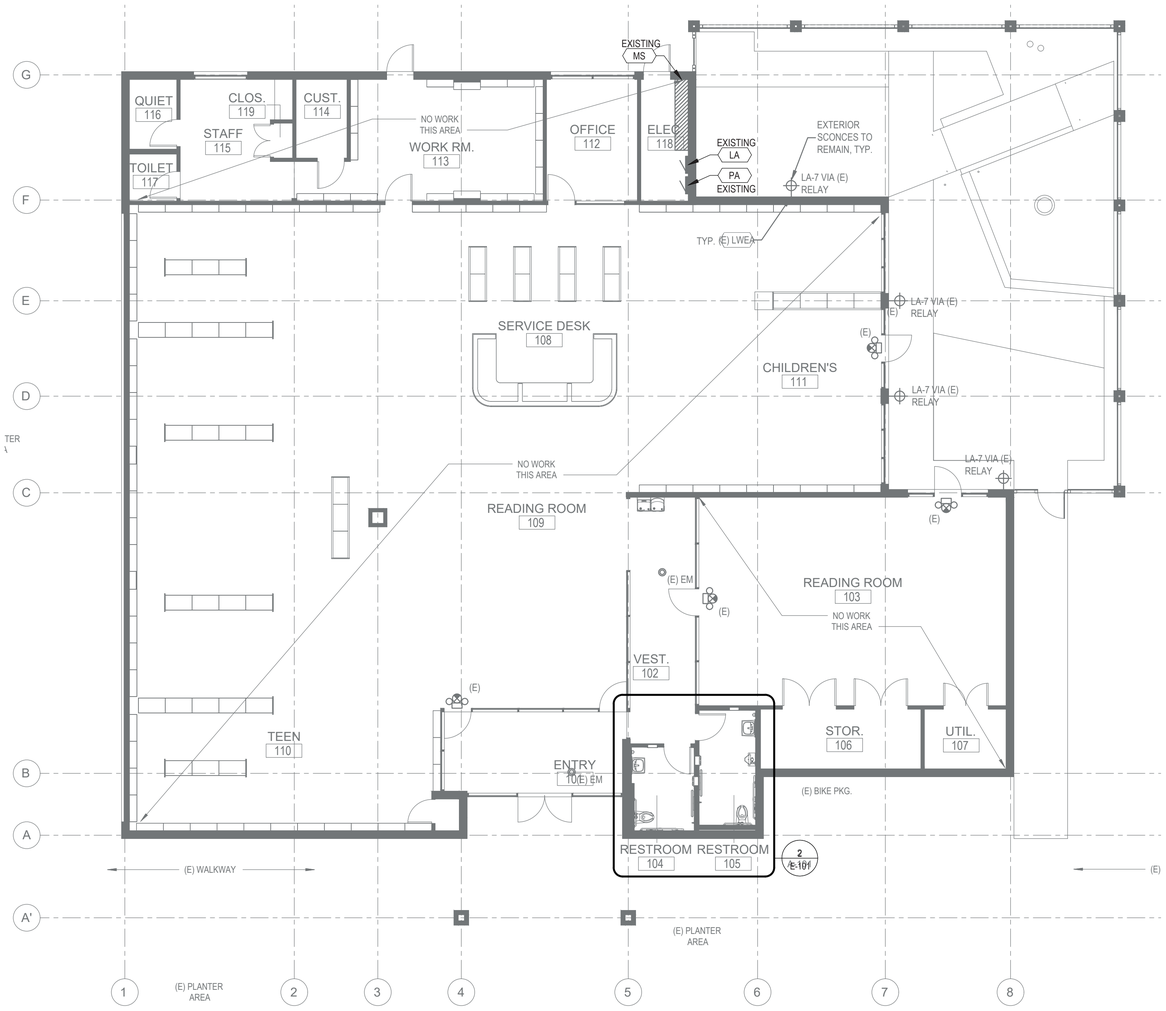
O. PATCH, REPAIR AND RE-FINISH (E) SURFACES DAMAGED DUE TO DEMOLITION.

KEYED NOTES - DEMOLITION

1. DEMOLISH EXISTING CONDUIT AND WIRING BACK TO SWITCH LOCATION.

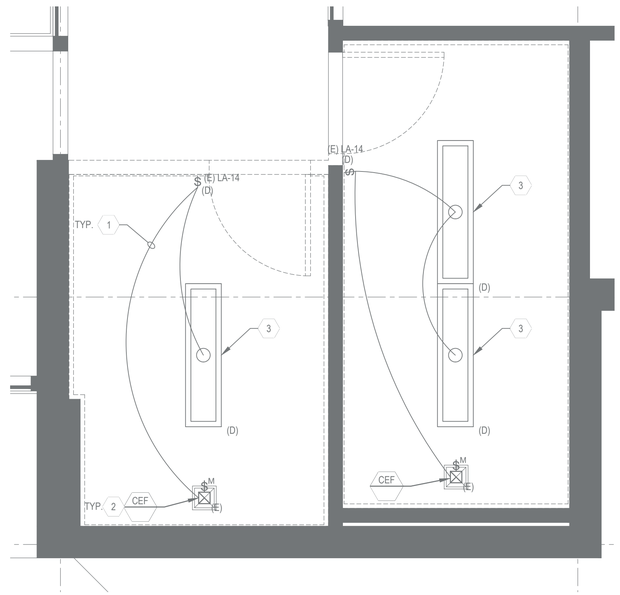
2. EXISTING EXHAUST FAN TO REMAIN. DEMOLISH WIRING BACK TO SWITCH LOCATION.

3. DEMOLISH EXISTING 100W LIGHTING FIXTURES IN ROOM. REUSE EXISTING LIGHTING CIRCUIT FOR NEW FIXTURE CONNECTIONS.



1 DEMOLITION ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

0 8' 16' 32'



2 ENLARGED DEMOLITION LIGHTING PLAN
SCALE: 1/2" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

DEMOLITION PLAN

ISSUE DATE:	03/22/2024
PREPARATION AND REVIEW:	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	CAC
PEER REVIEW:	-

SHEET NUMBER:

E101

SHEET NOTES - LIGHTING

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATED CEILING INFORMATION. VERIFY THE CEILING TYPES IN ALL SPACES WITH THE ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE LIGHT FIXTURES TO BE INSTALLED. MINOR ADJUSTMENTS IN LOCATION MAY BE REQUIRED BY THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER AS DIRECTED BY THE OWNER'S REPRESENTATIVE. COORDINATE INSTALLATION OF ALL LIGHT FIXTURES WITH MECHANICAL SYSTEMS AND FIRE SPRINKLER HEADS AND PIPING PRIOR TO THE INSTALLATION OF ANY SYSTEMS

B. THE FIXTURE SHALL BE PROVIDED WITH ALL NECESSARY HARDWARE, CLIPS, TRIM, ETC. FOR A COMPLETE AND "FINISHED" INSTALLATION. PROVIDE ALL NECESSARY BLOCKING.

C. LUMINARIES RECESSED INTO INSULATED CEILINGS SHALL BE RATED FOR INSULATION CONTACT ("IC-RATED").

D. ALL LIGHTING CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.

E. ALL LOW VOLTAGE (0-50 volt) LIGHTING CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.

F. CENTER ALL EXIT SIGNS IN DOOR WAYS WITH BOTTOM OF SIGN AT +2" ABOVE DOOR FRAME U.O.N.

G. PROVIDE COMMON FACE PLATE FOR ALL SWITCHES IN GANGED GROUPS. INDIVIDUAL FACE PLATES FOR GROUPS OF SWITCHES WILL NOT BE ACCEPTED.

H. VERIFY ROUGH-IN LOCATIONS OF ALL DEVICES WITH THE OWNER'S REPRESENTATIVE. DO NOT PULL ANY CONDUCTORS OR CABLE UNTIL THE DEVICE LOCATIONS HAVE BEEN REVIEWED AND ACCEPTED.

I. BATTERY BALLAST FIXTURE AS INDICATED WITH "EM" DESIGNATION SHALL BE CONNECTED FOR SWITCHED OPERATION TO PROVIDE EGRESS ILLUMINATION DURING POWER OUTAGE. PROVIDE SWITCHED AND UN-SWITCHED HOT CIRCUIT TO FIXTURE AS RECOMMENDED BY THE BALLAST MANUFACTURER. PROVIDE REMOTE TEST SWITCH FOR FIXTURES WITH BATTERY BALLAST(S)

J. EXTERIOR LIGHTING MOUNTED UNDER 24FT AND OVER 40W SHALL BE CONTROLLED BY A MOTION SENSOR AND SHALL REDUCE LIGHTING TO 50% WHEN UNOCCUPIED.

K. ALL EXTERIOR LIGHTING SHALL BE SET TO DUSK TO DAWN WITH PHOTOCONTROL OR ASTRONOMICAL TIMECLOCK.

L. ALL EXTERIOR LIGHTING RATED OVER 6200LUMENS SHALL MEET OR EXCEED BUG RATINGS.

M. CONTRACTOR MAY REDUCE WIRING THAT IS OVERSIZED DUE TO VOLTAGE DROP DOWN WHEN WITHIN 10-FT OF FIXTURE / DEVICE.

N. VERIFY MOUNTING HEIGHTS OF BUILDING FIXTURES WITH ARCHITECTURAL PLANS.

O. CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL INCLUDING SITE VERIFICATION OF CUSTOM LENGTHS OF STRING LIGHT RUNS, AIRCRAFT CABLE, AND SUPPORT HARDWARE. SPECIFICATIONS TO BE PROVIDED BY THE MANUFACTURER.

SHEET NOTES - ELECTRICAL

A. ALL EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH WP OR NEMA 3R RATING.

B. PROVIDE HUB TYPE FITTINGS ON EXTERIOR CONDUITS.

C. ALL EMPTY BOXES SHALL BE PROVIDED WITH BLANK COVER PLATES.

D. VERIFY COLOR OF ALL DEVICES AND COVER PLATES WITH THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING.

E. ALL EXTERIOR COVER PLATES SHALL BE STAINLESS STEEL.

F. RECEPTACLES PROVIDED AT COUNTER TOPS SHALL BE LOCATED AT +6" ABOVE BACK SPLASH. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

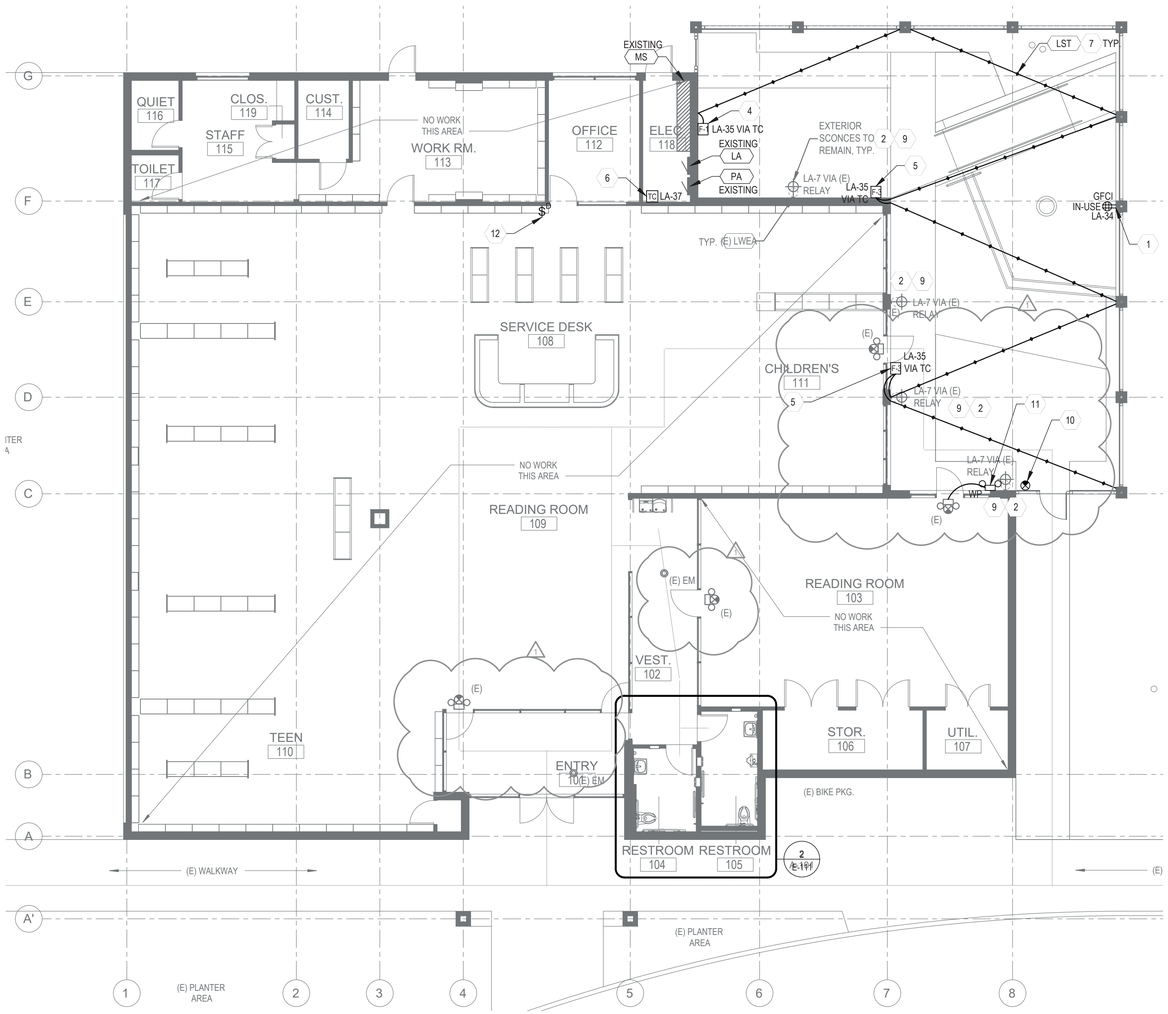
G. PROVIDE DUPLEX MECHANICAL EQUIPMENT MAINTENANCE RECEPTACLE WITHIN 25-FEET OF ALL EQUIPMENT TO BE SERVICED. LOCATE ON THE SAME LEVEL AS EQUIPMENT, INCLUDING ALL ATTICS, BASEMENTS AND CRAWL SPACES. IF LOCATED OUTDOOR OR BELOW GRADE GFCI PROTECTION IS REQUIRED.

H. ALL ELECTRICAL CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.

KEYED NOTES - ELECTRICAL

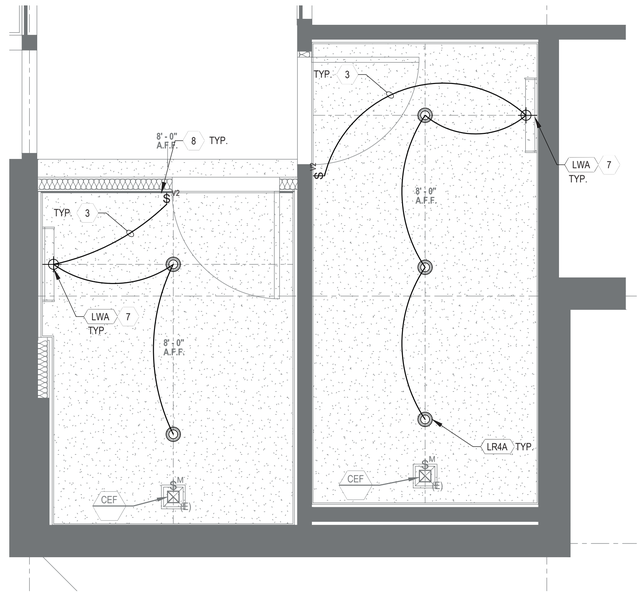
1. PROVIDE HUBBELL "RW57750" FOURPLEX OR EQUAL UNDER OUTDOOR DECK AREA. PROVIDE HINGED OPENING ON DECK SPACE FOR OWNER ACCESS.
2. REPLACE EXISTING GLOBE LENS COVERS ON EXISTING OUTDOOR SCONCES. VERIFY LENS TYPE AND FINISH WITH OWNER PRIOR TO INSTALLATION.
3. CONNECT FIXTURES AND EXHAUST FANS TO EXISTING CIRCUITS IN ROOM.
4. PROVIDE INFINITY SERIES CLASS 2 TRANSFORMER "INF-J-60-1-5-12" FOR CONNECTION TO OUTDOOR STRING LIGHTS. MOUNT AS HIGH AS POSSIBLE IN ACCESSIBLE LOCATION.
5. PROVIDE INFINITY SERIES CLASS 2 TRANSFORMER "INF-J-180-3-5-12" FOR CONNECTION TO OUTDOOR STRING LIGHTS. MOUNT AS HIGH AS POSSIBLE IN ACCESSIBLE LOCATION.
6. CIRCUIT EXTERIOR LIGHTING THRU 365 DAY ELECTRONIC ASTRONOMICAL TIME CLOCK FOR SWEEP OFF. INTERMATIC DUAL CIRCUIT ET1125C OR EQUAL. LOCATE TIME CLOCK INDOORS IN ELECTRICAL ROOM. NEW STRING LIGHTS SHALL TURN ON AT DUSK AND OFF WHEN LIBRARY CLOSES.
7. VERIFY EXACT FIXTURE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS. STRINGS TO BE MOUNTED ON AIRCRAFT CABLES.
8. PROVIDE DUAL CIRCUIT OCCUPANCY / VACANCY LINE VOLTAGE SWITCH TO CONTROL BATHROOM LIGHTING AND FAN. LUTRON OR EQUAL
9. EXISTING PRESCOLITE WALL SCONCE FIXTURE TO BE RETROFITTED FOR 45W MAX LED. FROM MANUFACTURER. CONTRACTOR TO PROVIDE TITLE 24 CERTIFIED LABEL.
10. PROVIDE WEATHERPROOF EXIT SIGN WITH VANDAL SHIELD 20-YEAR. (ISOLITE- 20-1-G-BK-MB) SIGN SHALL BE BLACK AND GREEN TRITIUM GAS SELF-LUMINOUS MOUNTED NEXT TO OR ON THE GATE.
11. PROVIDE LED REMOTE HEADS. CONNECT TO NEW INTERIOR EXIT SIGN.
12. PROVIDE NEW DIMMER FOR OUTDOOR SCONCES, VERIFY WITH OWNER REPRESENTATIVE EXACT MOUNTING LOCATION. DIMMER SHOULD CONTROL ALL STRINGS AT ONCE. PROVIDE LUTRON DIVA 0-10V. COORDINATE WITH MANUFACTURER EXACT PRODUCT NUMBER.

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.



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

0 8' 16' 32'



2 ENLARGED LIGHTING PLAN
SCALE: 1/2" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

REGISTERED PROFESSIONAL ENGINEER
COURTNEY A. CUNNINGHAM
No. E18225
Exp. 12-31-25
ELECTRICAL
STATE OF CALIFORNIA

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

ELECTRICAL PLAN

ISSUE DATE:	03/22/2024
PREPARATION AND REVIEW	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	CAC
PEER REVIEW:	

SHEET NUMBER:

E111

12V | Litesphere™ 2.0

Project: _____ Type: _____

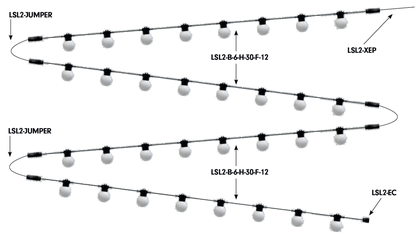
Product Features

- Tivoli's next evolution of Litesphere delivers a robust specification-grade strand with factory molded standard spacing for consistent quality from start to finish
- Litesphere 2.0 design provides optional suspended mounting or a twist-off cap for surface applications
- 12V DC Low voltage system for long runs
- IP67
- cULus
- 3 Year warranty

Dimensions

12V | Litesphere™ 2.0

System Configuration Example



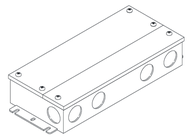
Strand Order Guide

Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

Product	Wire	Spacing	LED Type	LED Color	Globe	Voltage
LSL2	B	24"	V	35	F	12
Litesphere 2.0	**B** Black **W** White	**06** 6" OC **12** 12" OC **18** 18" OC **24** 24" OC **36** 36" OC **48** 48" OC	**V** Very High Output **H** High Output **S** Standard Output	**19** 1900K **27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K* **AM** Amber* **RB** Royal Blue* **RD** Red* **GN** Green* **YL** Yellow*	**C** Clear **F** Frosted **O** Opal **R** Red **N** Orange **Y** Yellow **G** Green **B** Blue **P** Purple **Z** Varried Colors	**12** 12V DC

*Available in VHO LED only

100-277V | Infinity Single Circuit Driver Installation Instruction



Please verify the contents of the packages!

Please read instructions entirely before starting installation

Be sure power is turned off before installing or modifying the unit.

Call Tivoli, LLC tech support with questions

Caution: This Power Supply is designed to work on 100V/277V AC line voltage. Use of any other power source will cause damage and will void the warranty. This Power Supply is certified for Class 2 applications.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This power supply should be installed by a certified professional.

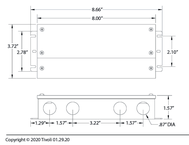
Product Specifications

Product Features
- Constant Voltage Output
- Universal 100-277VAC Input
- Single Circuit
- Power Factor up to 0.99
- 10-100% load
- Variety of dimming options: ELV, MLV, TRIAC, 0-10V and PWM
- For Dry/Damp/Wet location
- Short circuit, Overload and over heat protection
- Flicker free

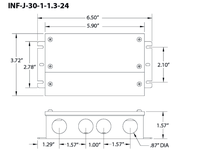
Warnings and Cautions
1. Risk of electrical shock and energy hazard. All failures should be examined by a qualified technician. Do not open the case of the power supply module.

2. Do not install LED power supplies in places with high ambient temperature or close to a fire source.

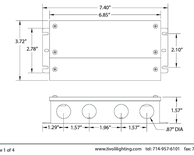
INF-J-96-1-4-24



INF-J-30-1-2.5-12
INF-J-30-1-1.3-24

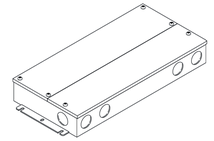


INF-J-60-1-5-12
INF-J-60-1-2.5-24



7142003

100-277V | Infinity Multi-Circuit Driver Installation Instruction



Please verify the contents of the packages!

Please read instructions entirely before starting installation

Be sure power is turned off before installing or modifying the unit.

Call Tivoli, LLC tech support with questions

Caution: This Power Supply is designed to work on 100V/277V AC line voltage. Use of any other power source will cause damage and will void the warranty. This Power Supply is certified for Class 2 applications.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This power supply should be installed by a certified professional.

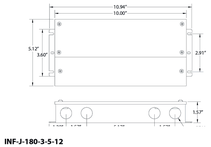
Product Specifications

Product Features
- Constant Voltage Output
- Universal 100-277VAC Input
- Multi Circuit
- Power Factor up to 0.99
- 10-100% load
- Variety of dimming options: ELV, MLV, TRIAC, 0-10V and PWM
- For Dry/Damp/Wet location
- Short circuit, Overload and over heat protection
- Flicker free

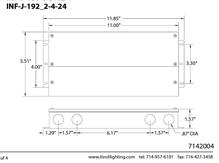
Warnings and Cautions
1. Risk of electrical shock and energy hazard. All failures should be examined by a qualified technician. Do not open the case of the power supply module.

2. Do not install LED power supplies in places with high ambient temperature or close to a fire source.

INF-J-180-3-5-12
INF-J-192_2-4-24



INF-J-180-3-5-12
INF-J-192_2-4-24



7142004

gotham® | INCITO™
Multiple Layers of Light

Luminaire Type:
Catalog Number:

High Center Beam Round Downlight **4"**

OVERVIEW

Feature Set
- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Bounding Ray™ optical design
- 45° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2-5 SDCM, 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- ENERGY STAR® Certified product

Distribution

Superior Perfomance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	703	807	1062	1545	1977	2419	2920	3548	3982	4419	4848
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	48.2	53.2
Efficacy	104	108	108	102	92	91	86	105	101	96	91

*Based on 3500K 80CRI 350 MA LSS

design select
Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

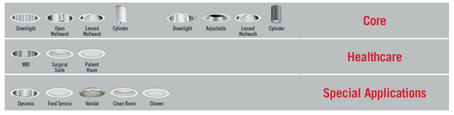
COMPLIMENTARY PRODUCTS

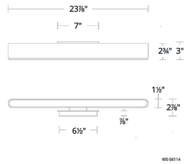
Coordinated Apertures | Multiple Layers of Light


General Illumination Layer | EVO


High Center Beam Layer | Incito


EVO + Incito — Multiple Layers of Light





Project:
Location:
Fixture Type:
Catalog Number:

AVAILABLE FINISHES:

0 to 60
WS-56124

PRODUCT DESCRIPTION
An exquisite sense of simplicity that lends to its surroundings an even layer of energy-efficient illumination. This clean design blends Euro styling and functional technology suitablefor flatterring illumination. ADA Compliant. 3 CCTs are selectable to create the white light color temperature of your choice. Like a fast race car, this clean design is a versatileoption that can be installed vertically, horizontally, or in any orientation.

FEATURES
- ACLED driverless technology
- Adjustable backplate offers flexible mounting and accommodates to off-center junction box locations
- Built in color temperature adjustability. Switch from 2700K/3000K/3500K
- Conversion plate included to accommodate 4" junction box
- Trimless spackle cover available for 4" square junction box recessed in drywall thicknesses of 1/2", 5/8", 1", and 1-1/4"; accessory not included and can be ordered separately (model# MKCP-3040-WT)
- Option to pre-select color temperature or adjust in the field
- 0-10V dimming option available (special order), unit dimensions: 3.4" x 1.2" x 0.5" (model#LDS065M010AFE-LO1)

SPECIFICATIONS

Rated Life	60000 Hours
Standards	ETL cETLDamp Location Listed,Title 24 JA8: 2019 Compliant,ADA
Input	120 VAC,50/60Hz
Dimming	ELV: 100-10%,TRIAC: 100-10%
Mounting	Can be mounted on wall in all orientations
Color Temp	3500K,3000K,2700K
CRI	90
Construction	Extruded aluminum body with etched acrylic diffuser

REPLACEMENT PARTS
HDW-SY21-WA - Hardware Pack

Model & Size	Color Temp	Finish	LED Watts	LED Lumens	Delivered Lumens
● WS-56124 24"	○ 2700K	○ BK Black	10.3W	749	451
	○ 2700K	○ BN Brushed Nickel	10.3W	749	451
	○ 3000K	○ BK Black	10.3W	871	485
	○ 3000K	○ BN Brushed Nickel	10.3W	871	485
	● 3500K	● BK Black	10.3W	848	479
	○ 3500K	○ BN Brushed Nickel	10.3W	848	479

WS-56124	35	BK

Example: **WS-56124-35-BN**
For custom requests please contact customs@modernforms.com

ModernForms.com | Phone: (866) 810-6615 | Fax (800) 526-2585
Central Distribution Center: 1600 Distribution Ct, Lithia Springs, GA 30122
Western Distribution Center: 1750 Archibald Avenue, Ontario, CA 91760

MODERN FORMS

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

ELECTRICAL DETAILS

ISSUE DATE:	03/22/2024
	PREPARATION AND REVIEW
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	CAC
PEER REVIEW:	-

SHEET NUMBER:

E501

1 FIXTURE "LST"
NOT TO SCALE

2 INFINITY SINGLE CIRCUIT DRIVER
NOT TO SCALE

3 INFINITY MULTI CIRCUIT DRIVER
NOT TO SCALE

4 FIXTURE "LR4A"
NOT TO SCALE

5 FIXTURE "LWA"
NOT TO SCALE

REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

EXISTING PANEL SCHEDULE

PANEL NAME: **(E) LA** VOLTAGE: 208 NEMA RATING: NOTES:
MAINS RATING: MLO (A) PHASE: 3 AIC RATING:
BUS RATING: 200 (A) WIRE: 4 LOCATION:

CKT NO	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	BKR SIZE	BKR OPTS	BKR KVA	PHASE:	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CKT NO
1				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				2
3				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				4
5				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				6
7				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				8
9				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				10
11				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				12
13				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				14
15				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				16
17				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				18
19				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				20
21				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				22
23				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				24
25				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				26
27				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				28
29				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				30
31				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				32
33				(E) EXISTING LOAD	20/1			B				SPACE				34
35				SPACE				C				SPACE				36
37				SPACE				A				SPACE				38
39				SPACE				B				SPACE				40
41				SPACE				C				SPACE				42

LOADS:
PHASE A: (KVA)
PHASE B: (KVA)
PHASE C: (KVA)
TOTAL: (CONNECTED KVA)
(CONNECTED A)

USE LEGEND	LOAD TYPE	BREAKER OPTIONS:
"H"	HVAC	GFCI - GROUND FAULT CIRCUIT INTERRUPTER
"L"	LIGHTING	HACR - HEATING/AIR CONDITIONING RATED
"M"	MOTOR	LO - LOCK-ON DEVICE
"O"	OTHER	PA - PADLOCK ATTACHMENT
"R"	RECEPTACLE	ST - SHUNT TRIP
"P"	PANEL	HT - HANDLE TIE
"C"	COOKING	FA - DEDICATED CIRCUIT FOR FIRE ALARM, RED HANDLE, MARKED
"E"	EV LOADS	"FIRE ALARM CIRCUIT", LOCK-ON DEVICE. PERMANENTLY IDENTIFY
"W"	WATER HEATER	CIRCUIT AT FIRE ALARM EQUIPMENT.

NEC DEMAND LOAD	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": MOTOR. LOADS (LARGEST MOTOR)		125%	
TYPE "M": MOTOR. LOADS (REMAINING)		100%	
TYPE "L": LIGHTING LOADS		125%	
TYPE "R": RECEPTACLES (FIRST 10KVA)		100%	
TYPE "R": RECEPTACLES (OVER 10KVA)		50%	
TYPE "H": HVAC LOADS		100%	
TYPE "P": PANEL LOADS		100%	
TYPE "C": COOKING LOADS		65%	
TYPE "E": EV LOADS		125%	
TYPE "W": WATER HEATING LOADS		100%	
TYPE "O": OTHER LOADS		100%	
DEMAND KVA:			
DEMAND AMPS:			

1

1 EXISTING PANEL SCHEDULE "LA"

PANEL SCHEDULE

PANEL NAME: **LA** VOLTAGE: 208 NEMA RATING: NOTES:
MAINS RATING: MLO (A) PHASE: 3 AIC RATING:
BUS RATING: 200 (A) WIRE: 4 LOCATION:

CKT NO	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	BKR SIZE	BKR OPTS	BKR KVA	PHASE:	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CKT NO
1				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				2
3				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				4
5				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				6
7				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				8
9				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				10
11				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				12
13				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				14
15				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				16
17				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				18
19				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				20
21				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				22
23				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				24
25				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				26
27				(E) EXISTING LOAD	20/1			B			20/1	(E) EXISTING LOAD				28
29				(E) EXISTING LOAD	20/1			C			20/1	(E) EXISTING LOAD				30
31				(E) EXISTING LOAD	20/1			A			20/1	(E) EXISTING LOAD				32
33				(E) EXISTING LOAD	20/1			B	0.18		20/1	OUTDOOR RECEPT.	R	12	12	34
35	12	12	L	OUTDOOR LTG.	20/1		0.50	C				SPACE				36
37	12	12	R	TIMECLOCK	20/1		1.00	A				SPACE				38
39				SPACE				B				SPACE				40
41				SPACE				C				SPACE				42

LOADS:
PHASE A: 1.0 (KVA)
PHASE B: 0.2 (KVA)
PHASE C: 0.5 (KVA)
TOTAL: 1.7 (CONNECTED KVA)
4.7 (CONNECTED A)

USE LEGEND	LOAD TYPE	BREAKER OPTIONS:
"H"	HVAC	GFCI - GROUND FAULT CIRCUIT INTERRUPTER
"L"	LIGHTING	HACR - HEATING/AIR CONDITIONING RATED
"M"	MOTOR	LO - LOCK-ON DEVICE
"O"	OTHER	PA - PADLOCK ATTACHMENT
"R"	RECEPTACLE	ST - SHUNT TRIP
"P"	PANEL	HT - HANDLE TIE
"C"	COOKING	FA - DEDICATED CIRCUIT FOR FIRE ALARM, RED HANDLE, MARKED
"E"	EV LOADS	"FIRE ALARM CIRCUIT", LOCK-ON DEVICE. PERMANENTLY IDENTIFY
"W"	WATER HEATER	CIRCUIT AT FIRE ALARM EQUIPMENT.

NEC DEMAND LOAD	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": MOTOR. LOADS (LARGEST MOTOR)		125%	
TYPE "M": MOTOR. LOADS (REMAINING)		100%	
TYPE "L": LIGHTING LOADS	0.50	125%	0.63
TYPE "R": RECEPTACLES (FIRST 10KVA)	1.18	100%	1.18
TYPE "R": RECEPTACLES (OVER 10KVA)		50%	
TYPE "H": HVAC LOADS		100%	
TYPE "P": PANEL LOADS		100%	
TYPE "C": COOKING LOADS		65%	
TYPE "E": EV LOADS		125%	
TYPE "W": WATER HEATING LOADS		100%	
TYPE "O": OTHER LOADS		100%	
DEMAND KVA:			1.81
DEMAND AMPS:			5.0

1

1 MODIFIED PANEL SCHEDULE "LA"

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMP TYPE	FIXTURE INPUT WATTS TOTAL	VOLTAGE	DIMMING TYPE	BUG (FOR EXTERIOR FIXTURES ONLY)	LISTING	MOUNTING	NOTES
LST	VERY HIGH OUTPUT LED DIMMABLE DECORATIVE STRING FIXTURES.	TIVOLLI LIGHTING	LSL2-B-24-V-35-F-12	LED	0.48W/BULB	12V INV	0-10V	N/A	WET	AIRCRAFT CABLE	
LR4A	4" LED RECESSED DOWNLIGHT, IC RATED, WIDE DISTRIBUTION	GOTHAM LIGHTING	IC04-35/10-AR-LSS-45D-120-GZ10	LED	9.8	120V	0-10V	N/A	NONE	RECESSED	
LWA	WALL MOUNTED BATHROOM VANITY FIXTURE	MODERN FORMS	WS-56124-35-BK	LED	10.3	120	ELV	N/A	DAMP	SURFACE WALL	
EXEM	WHITE EXIT SIGN WITH INTEGRAL EMERGENCY LAMPS WITH 90-MINUTE BATTERY BACK-UP, GREEN LETTERING	LITHONIA OR EQUAL	ECRG HO RD M6 (GREEN LAMPS)	LED	5	120/277	NONE		DAMP	WALL OR CEILING	WALL OR CEILING
EM	REMOTE HEAD - WET LOCATION	LITHONIA	ERE T WP RD (BLACK)	LED							

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. BROKAW
No. E18225
Exp. 12-31-25
ELECTRICAL
STATE OF CALIFORNIA

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

SCHEDULES

ISSUE DATE: 03/22/2024
PREPARATION AND REVIEW
DRAWN BY: CB
DESIGNER: CB
PROJ MGR: CAC
PEER REVIEW: -

SHEET NUMBER:

E701

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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 for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Cloverdale Library Patio Alteration	**Report Page:** (Page 1 of 7)
Project Address: 401 N. Cloverdale Blvd.	**Date Prepared:** 8/19/2024

A. GENERAL INFORMATION

01	Project Location (city)	Cloverdale	04	Total Conditioned Floor Area (ft²)	145
02	Climate Zone	2	05	Total Unconditioned Floor Area (ft²)	0
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 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	145	Area Category Method	0
Total Area of Work (ft²)	145		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Cloverdale Library Patio Alteration	**Report Page:** (Page 2 of 7)
	Date Prepared: 8/19/2024

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 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	= **Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)		
Conditioned		94.2	0		=	94	≥	69	0	= 69	COMPLIES
Unconditioned					=		≥			=	
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.

Generated Date/Time:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: EnergyPro
Compliance ID: EnergyPro-10063-0824-0328
Report Generated: 2024-08-19 15:50:09

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Cloverdale Library Patio Alteration	**Report Page:** (Page 3 of 7)
	Date Prepared: 8/19/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multfamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned 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 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
LR4A	LR4A	No	NA	9.8	Mfr. Spec	5	No	49	☐	☐
LWA	LWA	No	NA	10	Mfr. Spec	2	No	20	☐	☐
					Total Designed Watts: CONDITIONED SPACES			69		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% 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) / 160.5(b). 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.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Generated Date/Time:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: EnergyPro
Compliance ID: EnergyPro-10063-0824-0328
Report Generated: 2024-08-19 15:50:09

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Cloverdale Library Patio Alteration	**Report Page:** (Page 4 of 7)
	Date Prepared: 8/19/2024

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Restroooms	Restroom	Readily Accesible	NA: Restrooms	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
					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 .

Conditioned Spaces

01	02	03	04	05	06	
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
Restrooms	Restroom	0.65	145	94.2	No	No
		TOTALS:	145	94.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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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 DECORATIVE /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 ONE-FOR-ONE 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.

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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Generated Date/Time:
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Cloverdale Library Patio Alteration	**Report Page:** (Page 7 of 7)
Project Address: 401 N. Cloverdale Blvd.	**Date Prepared:** 8/19/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Christopher Berndt	Documentation Author Signature: Christopher Berndt
Company: Brokaw Design	Signature Date: 2024-08-19
Address: 6060 Dawn Drive	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rohnert Park CA 94928	Phone: 7078376283

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: Courtney Chuenyane	Responsible Designer Signature: Courtney Chuenyane
Company: Brokaw Design	Date Signed: 2024-08-19
Address: 6060 Dawn Dr.	License: E18225
City/State/Zip: Rohnert Park CA 94928	Phone:

Generated Date/Time:
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REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

TITLE 24

ISSUE DATE:	03/22/2024
PREPARATION AND REVIEW:	
DRAWN BY:	CB
DESIGNER:	CB
PROJ MGR:	CAC
PEER REVIEW:	-

SHEET NUMBER:

E801

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2i. for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name:	Cloverdale Library Patio Alteration	**Report Page:**	**(Page 1 of 7)**
Project Address:	401 N. Cloverdale Blvd.	**Date Prepared:**	8/19/2024

A. GENERAL INFORMATION

01	Project Location (city)	Cloverdale	04	Total Illuminated Hardscape Area (ft²)	1721
02	Climate Zone	2			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒	LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☐	LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project				
● Support Areas					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2i. / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☐ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	● Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Cloverdale Library Patio Alteration	**Report Page:**	**(Page 2 of 7)**
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06	=	07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)		**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
262	+	---	+	---	+	---	+	---	OR	---	=	262	≥	260	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
LST	LST	☐ Linear	0.5	Mfr. Spec	160	New	☐	80	NA: < 6200 lumens	☐	☐
LWEA	LWEA	☐ Linear	45	Mfr. Spec	4	New	☐	180	NA: < 6200 lumens	☐	☐
							Total Design Watts:	260			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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CALIFORNIA ENERGY COMMISSION

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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Courtyard	Astronomical Timer	Provided	NA: Not permitted by H&LS	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Cloverdale Library Patio Alteration	**Report Page:**	**(Page 5 of 7)**
		Date Prepared:	8/19/2024

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Courtyard	1721	0.019	32.7	197	0.2	29.6	62
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							262

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has 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

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Courtyard;

Generated Date/Time:
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Project Name:	Cloverdale Library Patio Alteration	**Report Page:**	**(Page 7 of 7)**
Project Address:	401 N. Cloverdale Blvd.	**Date Prepared:**	8/19/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Christopher Berndt	Documentation Author Signature: Christopher Berndt
Company: Brokaw Design	Signature Date: 2024-08-19
Address: 6060 Dawn Drive	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rohnert Park CA 94928	Phone: 7078376283

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: Courtney Chuenyane	Responsible Designer Signature: Courtney Chuenyane
Company: Brokaw Design	Date Signed: 2024-08-19
Address: 6060 Dawn Dr.	License: E18225
City/State/Zip: Rohnert Park CA 94928	Phone:

Generated Date/Time:
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REVIEWED FOR CODE COMPLIANCE
BY COASTLAND CIVIL ENGINEERING, INC.
IN ACCORDANCE WITH CBC §107.3.1 AS
AMENDED BY THE LOCAL AGENCY.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
	PERMIT	5/20/24
1	PLAN CHECK	08/19/24

SEAL:

REGISTERED PROFESSIONAL ENGINEER — COURTNEY A. CHUENYANE — No. E18225 Exp. 12-31-25 — ELECTRICAL — STATE OF CALIFORNIA

0/0/24

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
www.brokawdesign.com

PROJECT:

CLOVERDALE LIBRARY PATIO ALTERATION

401 N. CLOVERDALE BLVD.
CLOVERDALE, CA
95425

SHEET NAME:

TITLE 24

ISSUE DATE: 03/22/2024
PREPARATION AND REVIEW
DRAWN BY: CB
DESIGNER: CB
PROJ MGR: CAC
PEER REVIEW: -

SHEET NUMBER:

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