

CIVIL GENERAL NOTES

- All improvements shall be constructed in strict accordance with the following: city/county construction standards (latest edition) where applicable. All work shall be under the inspection of the respective entity.
- It is intended that these plans and specifications require all labor and materials necessary and proper for the work contemplated and that the work be completed in accordance with their true intent and purpose. The contractor shall notify the engineer immediately regarding any discrepancies and ambiguities, which may exist in the plans and specifications. If the plans or specifications describe portions of the work in general terms but not in complete detail, it is understood that only the best general practice is to prevail and that only material and workmanship of the first quality are to be used.
- The contractor shall exercise due caution and shall carefully preserve bench marks, reference points and all survey stakes and shall bear all expense for replacement and/or errors caused by their unnecessary loss or disturbance.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner, engineer and the city/county harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.
- The contractor shall be held responsible for any field changes made without written authorization from the city/county engineer.
- The contractor shall provide all lights, signs, barricades, flagmen or other devices necessary for public safety in accordance with the current issue of "manual of traffic controls, warnings signs, lights, and devices for use in performance of work upon highway" published by the State of California business and transportation agency.
- Asphalt shall be type "b" 1/2" maximum size aggregate, medium grade per CalTrans specifications, asphalt binder per CalTrans specifications. Aggregate base shall be 3/4" class 2 aggregate base per CalTrans specification, compact to 95% maximum density per AASHTO. Asphalt shall be placed only when the atmospheric temperature is above 50° f.
- Contractor is responsible for coordination of the removal or relocation of all existing utilities with respective utility companies.
- Prior to commencing any work, it shall be the contractors responsibility to have each utility company locate, in the field their main and service lines. The contractor shall notify members of the underground service alert (USA) 72 hours in advance of performing any excavation work by calling the toll free number (800) 227-2600; the contractor shall record the USA order number and furnish order number to owner prior to any excavation. It shall be the contractors sole responsibility to protect all existing utility lines so that no damage results to them during the performance of this contract. The contractor shall pay for any repairs necessary to damaged utilities. The contractor shall be required to cooperate with other contractors and utility companies installing new structures, utilities and service to the development.
- Dust control shall be strictly adhered too. Dust control shall conform to the county standard specifications for public works construction.
- All utility and drainage conduits shall be installed prior to asphalt concrete pavement.
- Landscape areas and detention ponds to be designed to treat storm water and comply with California Phase II MS4 requirements.

FIRE DEPARTMENT NOTES

- Nothing in these plans or specifications shall be construed to permit work not conforming to the most stringent of codes. All work shall be done in accordance with the California building code, California fire code, and all other federal, state, county and city ordinances in effect for this project.
- Approval plans shall be located at the job site. Plans shall be approved prior to any construction.
- Combustible or flammable waste material or rubbish of any kind shall not be permitted on any yard, vacant lot or open space.
- Final approval is subject to acceptance after a field inspection.
- The fire department shall be notified 48 hours in advance of any shut down or interruption of normal service to fire hydrants or fire sprinklered buildings.
- Landscape shall conform to the fire department written guidelines as to clearance from fire protection equipment.
- All required water mains and hydrants designated for project shall be installed and able to provide the required fire flow prior to any combustible storage or construction.
- Fire department access must be provided and maintained serviceable prior to and during construction.
- "NO PARKING-FIRE LANE" signs and/or red painted curbs shall be installed as per fire department guidelines.
- Construction equipment, including portable restrooms, shall not obstruct fire hydrants at any time.
- All work shall comply with NFPA 13, 2019 edition standards.

CIVIL CONSTRUCTION NOTES

- Site grading shall be performed in accordance with these plans and specifications. Contractor shall submit a certification letter prepared by a qualified registered soils engineer, verifying that all filled areas and sub grade areas within the building pad area and area to be paved, have been compacted in accordance with the soils report and city/county standards.
- All work shall be performed in accordance with the plans and specifications and the requirements and standards of the city/county.
- Contractor shall conduct all work in accordance with applicable local and state codes and ordinances.
- Work shall be confined to the limits of the property as shown, except for street improvements or otherwise shown on the plans.
- Contractor to obtain an encroachment permit from the city/county prior to commencing any work within the public right-of-way.
- The locations of underground utilities shown on these plans is based on field surveys and local utility company records. It shall be the contractor's full responsibility to contact underground service alert (dig alert shown herein) and other utility companies to locate their facilities prior to starting construction. No additional compensation shall be paid to the contractor for damage and repair of these facilities caused by his work force.
- All existing remaining utilities and remaining improvements in the public right-of-way that become damaged during construction shall be completely restored to the satisfaction of the local agency engineer, at the contractors sole expense. It shall be the responsibility of the contractor to document prior damages.
- Natural vegetation and soil cover shall not be disturbed prior to actual construction of a required facility or improvement. Mass clearing of the site in anticipation of construction shall be avoided.
- The contractor is to use best management practices for providing erosion control for construction of this project. Specific details are shown on the erosion control plan and shall be used in combination with other accepted local practices.

GENERAL CONDITIONS

- Safety**
In accordance with generally accepted construction practices, the construction contractor is required to assume sole and complete responsibility for job site conditions during the course of the construction project, including safety of all persons and property. This requirement applies continuously and is not limited to normal working hours. The contractor shall defend, indemnify, and hold owner, engineer, and others associated with this project harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the other party(ies).
- Engineer's Statement**
This design was prepared by me or under my direction in conformance with the requirements of the California Business and Professions Code. The services performed have been conducted in a manner consistent with the level of skill and care ordinarily exercised by professionals currently practicing under similar conditions in the region.
- Approved Plans**
This plan set contains multiple sheets which may or may not have been revised. The contractor is responsible for insuring that the current, approved set of plans is being used. The failure to do so shall not relieve the contractor from compliance with the provisions of the current, approved plans.
- Unauthorized Changes or Use**
All sheets in this set of plans prepared by Butler Engineering Group, Inc. Are the sole property of Butler Engineering Group, Inc. The engineer preparing these plans will not be responsible or liable for unauthorized changes to or uses of these plans. All changes to the plans must be in writing and approved by the engineer.

LINE LEGEND

---	SUBJECT PROPERTY BOUNDARY	---	
---	ADJACENT PROPERTY BOUNDARY	---	
---	BUILDING SETBACK LINE	---	
---	EASEMENT LINE AS DESCRIBED	---	
---	PROPOSED FENCING FENCE	---	
---	PROPOSED CONCRETE	---	
---	PROPOSED UNDERGROUND CONCRETE HEAD	---	
---	ELECTRIC	---	
---	PROPOSED WATER	---	
---	PROPOSED GAS	---	

SYMBOL LEGEND

	WATER FLOW DIRECTION ARROW
	POWER / UTILITY POLE
	LIGHT STANDARD
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION DEVICE
	ELECTRICAL VAULT
	ELECTRICAL TRANSFORMER
	REDUCE PRESSURE PRINCIPLE OR BACKFLOW DEVICE

HATCH LEGEND

	EXISTING CONCRETE		PROPOSED CONCRETE
	EXISTING ASPHALT		PROPOSED DECOMPOSED GRANITE W/ BINDER
	EXISTING LANDSCAPING		PROPOSED LANDSCAPING

CIVIL ABBREVIATIONS

AB	AGGREGATE BASE	ELEV	ELEVATION	O/C	ON CENTER	SL	STREET LIGHT
AC	ASPHALT CONCRETE PAVEMENT	ELEC	ELECTRIC	OH	OVERHEAD	SLPB	STREET LIGHT PULLBOX
AD	AREA DRAIN	EM	ELECTRIC METER	O'HNG	OVERHANG	SS	SANITARY SEWER
APN	ASSESSOR'S PARCEL NUMBER	EP	EDGE OF PAVEMENT	(P)	PROPOSED	SSCO	SANITARY SEWER CLEAN OUT
BFE	BASE FLOOD ELEVATION	FDC	FIRE DEPARTMENT CONNECTION	PAD	CONCRETE FLOOR SUBGRADE	SSMH	SANITARY SEWER MANHOLE
BLDG	BUILDING	FF	FINISH FLOOR	PB	PULLBOX	STD	STANDARD
BM	BENCHMARK	FG	FINISH GRADE	PC	POINT OF CURVE	SW	SIDEWALK
BW	BOTTOM OF WALL	FH	FIRE HYDRANT	PL	PROPERTY LINE	TBC	TOP BACK OF CURB
CB	CATCH BASIN	FL	FLOW LINE	PT	POINT OF TANGENT	TBW	TOP BACK OF WALK
CD	CURB DRAIN	FTG	FOOTING	PP	POWER POLE	TC	TOP OF CURB
CL	CENTERLINE	GAS L	GAS LINE	PRV	PRESSURE REDUCING VALVE	TOE	TOE OF SLOPE
CONC	CONCRETE	GB	GRADE BREAK	PSE	PUBLIC SERVICE EASEMENT	TOP	TOP OF BANK
COR	CITY OF REDDING	GM	GAS METER	PUE	PUBLIC UTILITY EASEMENT	TS	TRAFFIC SIGNAL
CP	CITY OF REDDING SURVEY CONTROL POINT	GND	GROUND	R	RADIUS	TSPB	TRAFFIC SIGNAL PULLBOX
CF	CURB FACE	INV	INVERT ELEVATION	ROW	RIGHT OF WAY	TW	TOP OF WALL
DI	DRAIN INLET	ICV	IRRIGATION CONTROL VALVE	RPP	REDUCED PRESSURE PRINCIPLE	TYP	TYPICAL
DW	DRIVEWAY	MIN	MINIMUM	UG	UNDERGROUND	UG	UNDERGROUND
DWG	DRAWING	MH	MANHOLE	VG	VALLEY GUTTER	W	WATER
(E)	EXISTING	MON	SURVEY MONUMENT	SD	STORM DRAIN	WM	WATER METER
EG	EXISTING GRADE	(N)	NEW	SHT	SHEET	WV	WATER VALVE

CITY OF REDDING
REVISIONS FOR
GOOD NEWS RESCUE MISSION
MICRO SHELTER PROJECT
1411 SPRUCE STREET
REDDING, CA

PROJECT DESCRIPTION

Site development for construction of emergency sleeping cabins, restroom building, landscaping, fencing, gazebos, and utilities.

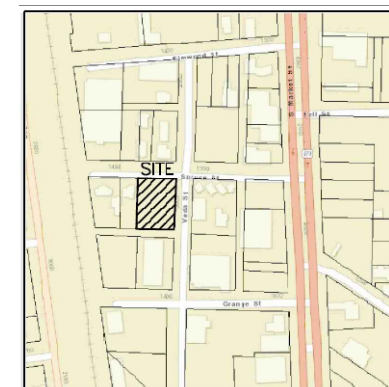
PROJECT DIRECTORY

OWNER: Good News Rescue Mission Jonathan Anderson 2842 S. Market St. Redding Ca 96001 (530) 242 - 5920	PROJECT ENGINEER: Kevin Butler Butler Engineering Group, Inc. 9512 Crossroads Drive, Suite A Redding, CA 96003 (530) 222 - 5211
--	---

GENERAL CONTRACTOR:
T.B.D.

CONTRACTOR NOTICE

Contractor shall, and it is their responsibility to, obtain any and all required permits from local, federal, state, county, and all agencies which may require permits, prior to beginning any construction activities related to this project.



VICINITY MAP
NOT TO SCALE

SCALE NOTE: THIS IS A "D" SIZE SHEET. IF PRINT IS LESS THAN 36" X 24", IT IS A REDUCED PRINT. SCALES ARE REDUCED ACCORDINGLY.

CIVIL DRAWING INDEX

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C3.0	PROPOSED UTILITY PLAN
C9.0	EROSION CONTROL PLAN
C10.0	SITE ACCESSIBILITY NOTES & DETAILS
ED.1	ELECTRICAL NOTES & DETAILS
ED.2	ELECTRICAL PANELS AND CALCULATIONS
CJS	SITE PHOTOMETRICS
L	LANDSCAPE PLAN
REFERENCE DRAWINGS	
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1 OF 1	PALLET SHELTER BASE FRAME ANCHORAGE
1 OF 1	PALLET SHELTER ELECTRICAL WIRING DRAWING

SITE DATA

Legal Description:
Lot 6 of parcel map "Map of Park Subdivision" in the City of Redding, Shasta County as recorded in Book 5 of Parcel Maps, page 12, Official Records of Shasta County, California.
A.P.N. 104-010-028
F.E.M.A. Flood insurance rate map: 06089C1539G
effective date: March 17, 2011
Flood Zone: "X" (Area considered to be low risk, less than 0.2% annual chance)

Notes:
1. All of subject property is outside the 100-year floodplain.
2. This map does not constitute a measured boundary survey. The boundary data shown herein has been compiled from available records (Parcel 6 on Record Map Book 5 Map 12) and best fit to found survey monuments.

BENCHMARK

City of Redding Benchmark #51 being a USCGS benchmark L118. In the Southeast corner of Market St. and Parkview Ave.
Elevation = 469.59 (NGVD 1929)

APPROVALS

Director of Public Works, City of Redding

Public Works Utilities, City of Redding

Fire Marshal, City of Redding

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CIVIL - STRUCTURAL - SURVEYING

GMRM - MICRO SHELTER PROJECT
APN 104-010-028
1411 SPRUCE STREET
REDDING, CALIFORNIA

TITLE SHEET & GENERAL NOTES

NO.	DATE	REVISIONS
0	12/30/22	APPROVED FOR PERMIT
1	06/06/23	C.O.R. PLAN CHECK COMMENTS DATED 03/03/23
2	06/09/23	UNIT COUNT UPDATE
3	06/19/23	RELU UPDATES
4	07/01/23	C.O.R. PLAN CHECK COMMENTS DATED 06/23/23

DATE ISSUED: 12/30/22
SHEET NUMBER: C0.1
JOB NUMBER: 22.200

ORIGINAL SCALE IN INCHES

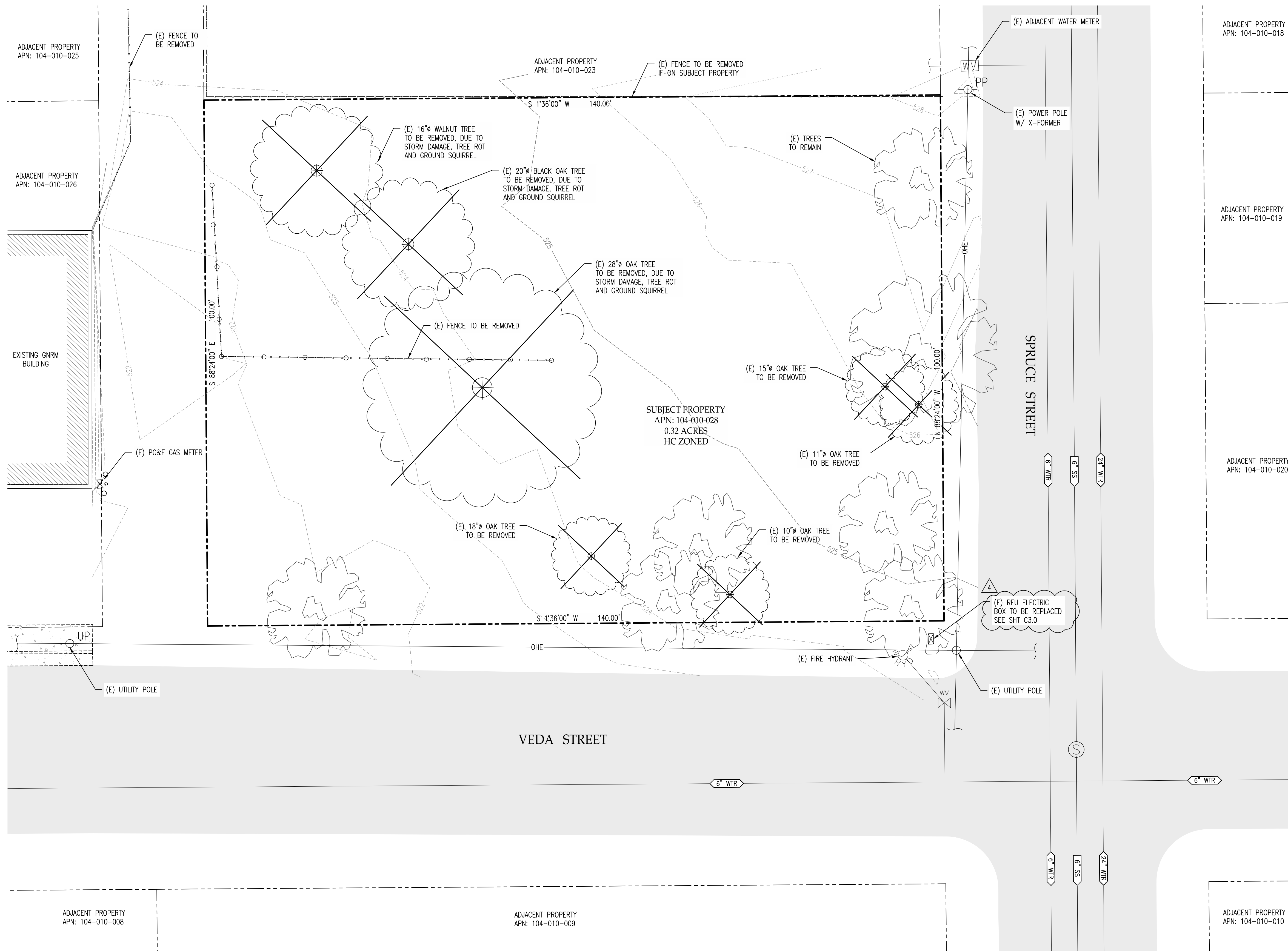
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 DRAWN BY: L. LACKEY

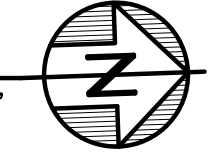
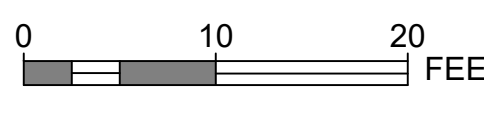
CITY OF REDDING
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COR REVISIONS FOR THE GOOD NEWS RESCUE MISSION MICRO SHELTER PROJECT
 SHT C0.1


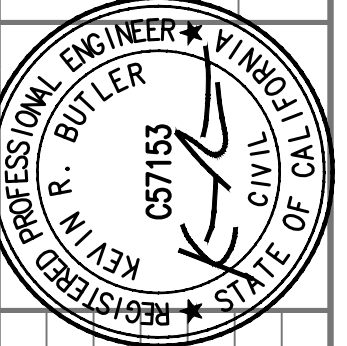
COR-C0.1
 ORIGINAL SCALE:

DATE: MAY 2024
 SHEET: --- OF 4

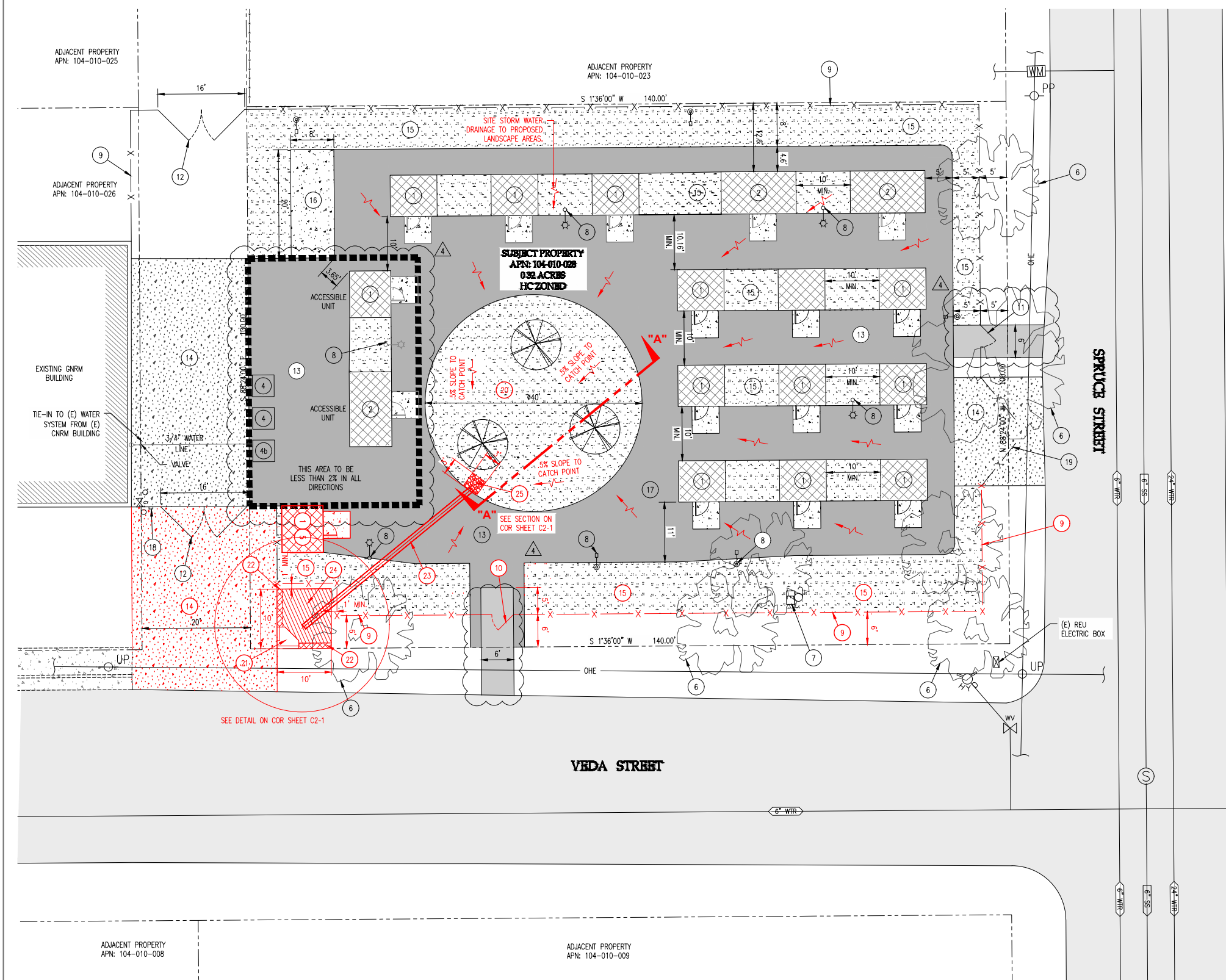


EXISTING SITE & DEMO PLAN
 SCALE: 1" = 10'





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NO. DATE REVISIONS 0 12/30/22 APPROVED FOR PERMIT 1 05/05/23 C.O.R. PLAN CHECK COMMENTS DATED 03/03/23 2 05/09/23 UNIT COUNT UPDATE 3 05/19/23 REV UPDATES 4 07/13/23 C.O.R. PLAN CHECK COMMENTS DATED 06/23/23	DATE ISSUED 12/30/22 SHEET NUMBER C1.0 JOB NUMBER 22.200

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CONSTRUCTION KEYNOTES PHASE 1

- 1 (P) "PALLET" SINGLE OCCUPANCY SHELTER BUILDING 8'-7 1/2" X 7'-6", 64 SF, WITH 5'x5' CONCRETE ENTRY PAD PER DETAIL. ALL SHELTERS SHALL BE EQUIPPED WITH A FIRE EXTINGUISHER AND A SMOKE DETECTOR. SHELTERS PROVIDED BY CITY OF REDDING PER APPROVED SHOP DRAWINGS.
- 2 (P) "PALLET" DOUBLE OCCUPANCY SHELTER BUILDING 13'-7 1/2" X 7'-6", 100 SF, WITH 5'x5' CONCRETE ENTRY PAD PER DETAIL. ALL SHELTERS SHALL BE EQUIPPED WITH A FIRE EXTINGUISHER AND A SMOKE DETECTOR. SHELTERS PROVIDED BY CITY OF REDDING PER APPROVED SHOP DRAWINGS.
- 3 (P) "GAZEBO" STRUCTURE BUILDING 10'-0" X 10'-0" 120 SF NO WALLS, WITH SINGLE LIGHT FIXTURE.
- 4 (P) TEMP SERVICES, PORTABLE ACCESSIBLE RESTROOMS, TO BE SERVICED AS NEEDED.
- 4b (P) TEMP SERVICES, DOMESTIC DRINKING WATER AND HAND WASHING STATION FULLY ACCESSIBLE.
- 5 (P) SPECIFIC UNIT TO BE USED BY SITE MANAGER.
- 6 ALL (E) TREES TO BE TRIMMED & BRUSHED-UP FOR 10'-0" MINIMUM CLEARANCE TO ALL STRUCTURES, 10' MINIMUM CLEARANCE BETWEEN STRUCTURES & COMBUSTIBLE VEGETATION.
- 7 (P) POWER POLE W/ CUSTOMER SERVICE PANEL 120/240V, 1Ø, CL320A PER REU DESIGN.
- 8 (P) POLE MOUNTED LED DOWN-FACING AREA LIGHT WITH ANTI-GLARE SHIELD PER LIGHTING PLAN.
- 9 (P) 6" HIGH FENCE, CHAIN LINK W/ PRIVACY SLATS OR SOLID VINYL COLOR TO BE DETERMINED.
- 10 (P) SINGLE 4' WIDE ACCESSIBLE SWING GATE WITH LEVEL LANDING AND KNOX BOX PER DETAILS.
- 11 (P) SINGLE 4' WIDE ACCESSIBLE GATE, FIRE ACCESS ONLY PER DETAILS.
- 12 (P) DOUBLE 8' WIDE SWING ACCESS GATES.
- 13 CHIP SEAL SURFACE TO CREATE IMPERVIOUS SURFACE.
- 14 (P) GRAVEL WITH BASE ROCK UNDERLAYMENT.
- 15 (P) NON-COMBUSTIBLE (GROUND COVER) LANDSCAPING WITH PLANTS, TREES & SHRUBS.
- 16 (P) CONCRETE SLAB FOR CONEX TYPE STORAGE CONTAINER 8'-0" X 20'-0".
- 17 (P) UNDERGROUND ELECTRICAL CONDUIT PER UTILITY PLAN.
- 18 (P) 3266 SERIES KNOX BOX SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE FRONT MAIN ENTRANCE, NO HIGHER THAN 6" FROM STANDING SURFACE. MASTER KEYS OR CARD ACCESS SHALL BE PLACED WITHIN THE KNOX BOX ALONG WITH A VEHICLE GATE LOCK KEY MOUNTED ON PLASTER PER LIVERMORE - PLEASANTON FIRE DEPARTMENT.
- 19 (P) EMERGENCY ACCESS ONLY, 20' GATE W/ FIRE DEPARTMENT LOCK #7109.
- 20 INFILTRATION AREA SEE SECTION A-A ON COR SHEET C2.1
- 21 INFILTRATION AREA OUTFALL SEE DETAIL ON COR SHEET C2.1
- 22 EARTHEN BERM
- 23 12" X 40 FT LONG SDP PIPE WITH .5% MIN. SLOPE WITH FILTER SOCK ON UP STREAM END
- 24 RIP-RAP
- 25 3' X 3' X 3' SUMP

SITE ANALYSIS	
SINGLE OCCUPANCY UNITS ACCESSIBLE	13
DOUBLE OCCUPANCY UNITS ACCESSIBLE	3
GAZEBO COMMON AREA	2

SITE ANALYSIS

ZONING: HC - HEAVY COMMERCIAL

BUILDING SETBACKS: 5 FEET FROM ALL LOT LINES & 10 FEET FROM STRUCTURES

DATE SUBMITTED: 12/30/22

PARCEL AREA: .32 ACRES OR 13,940 SQUARE FEET

BUILDING AREA: TOTAL 1,770 SF RATIO OF PARCEL = 13%

LANDSCAPE AREA: TOTAL 4,500 SF RATIO OF PARCEL = 32%

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APN 104-010-028
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PROPOSED SITE PLAN

NO.	DATE	REVISIONS
0	12/30/22	APPROVED FOR PERMIT
1	05/05/23	C.O.R. PLAN CHECK COMMENTS DATED 03/03/23
2	05/09/23	UNIT COUNT UPDATE
3	06/19/23	REU UPDATES
4	07/18/23	C.O.R. PLAN CHECK COMMENTS DATED 06/28/23

DATE ISSUED: 12/30/22

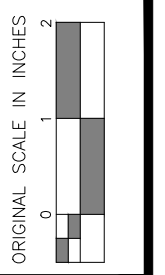
SHEET NUMBER: **C2.0**

JOB NUMBER: 22.200

PROPOSED SITE PLAN
SCALE: 1" = 10'



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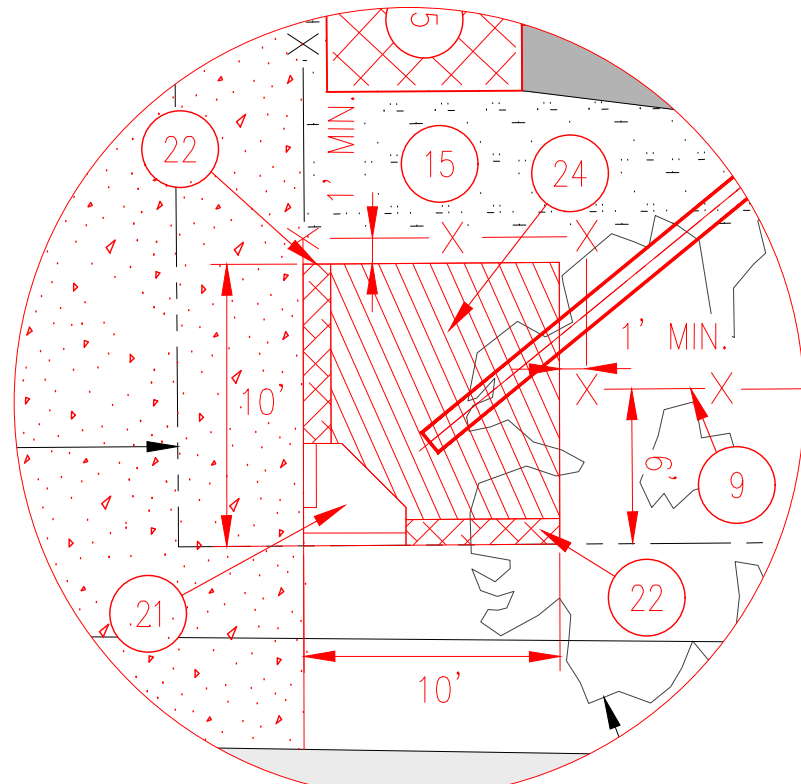
DESIGNED BY: [Blank]
ENG: [Blank]
DRAWN BY: L. LACEY

CITY OF REDDING
PUBLIC WORKS DEPARTMENT

COR REVISIONS FOR THE GOOD NEWS RESCUE MISSION MICRO SHELTER PROJECT
SHT C2.0

COR-C2.0
ORIGINAL SCALE:

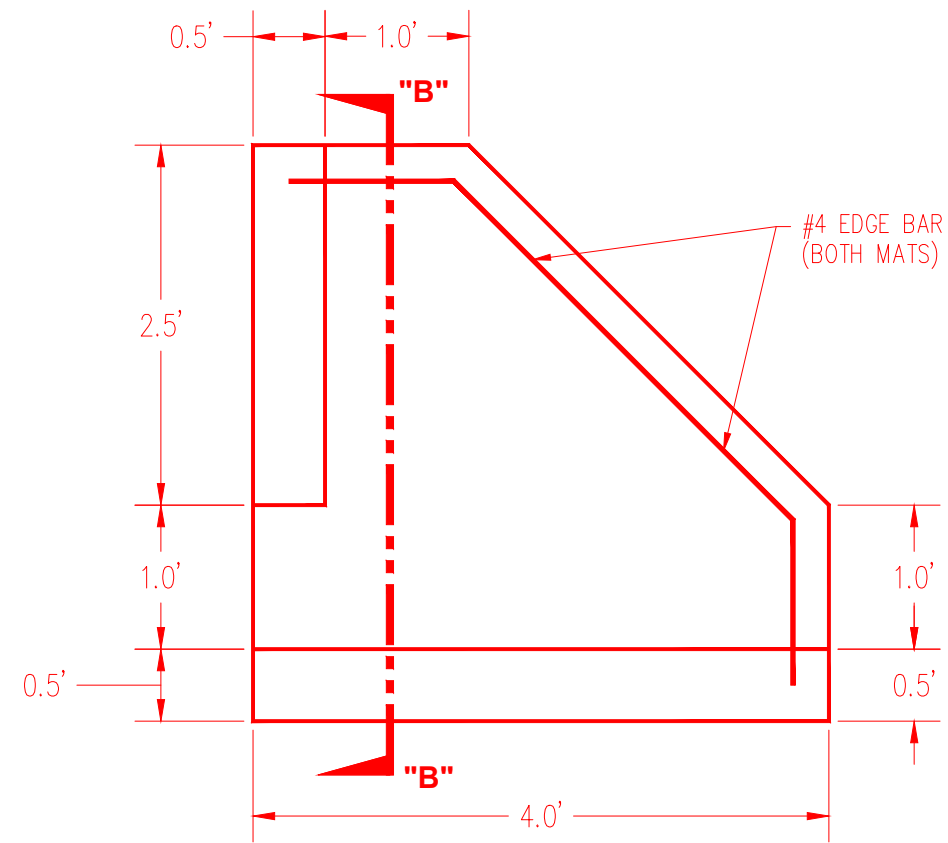
DATE: MAY 2024
SHEET --- OF 4



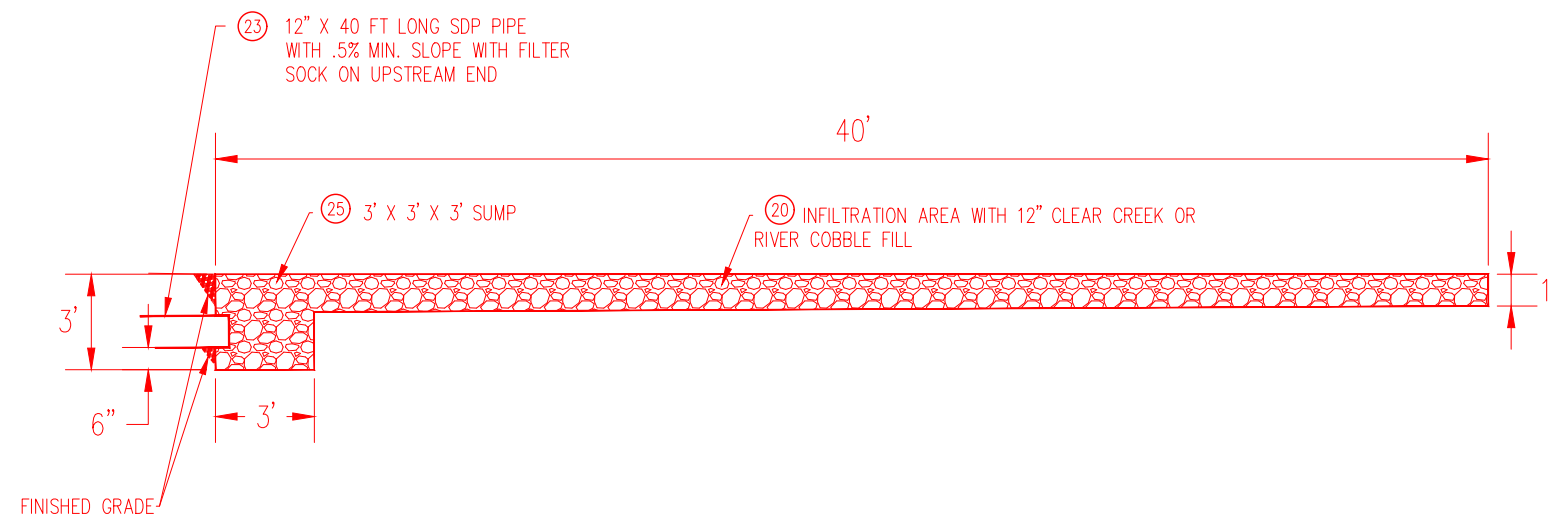
DETAIL A

NOTES:

1. 12" SDP PIPE TO OUTLET ABOVE GROUND OUTSIDE OF PERIMETER FENCING WITHIN THE RIP-RAP AREA. LOCATION VARIES BASED ON EXISTING/NEW FINISHED GRADE. CONTRACTOR TO FIELD VERIFY LOCATION.
2. RIP-RAP AREA SHALL BE MINIMALLY SLOPED TOWARDS INFILTRATION OUTFALL.
3. MAINTAIN 1' OF CLEARANCE FOR PERIMETER FENCING FROM RIP-RAP AREA.

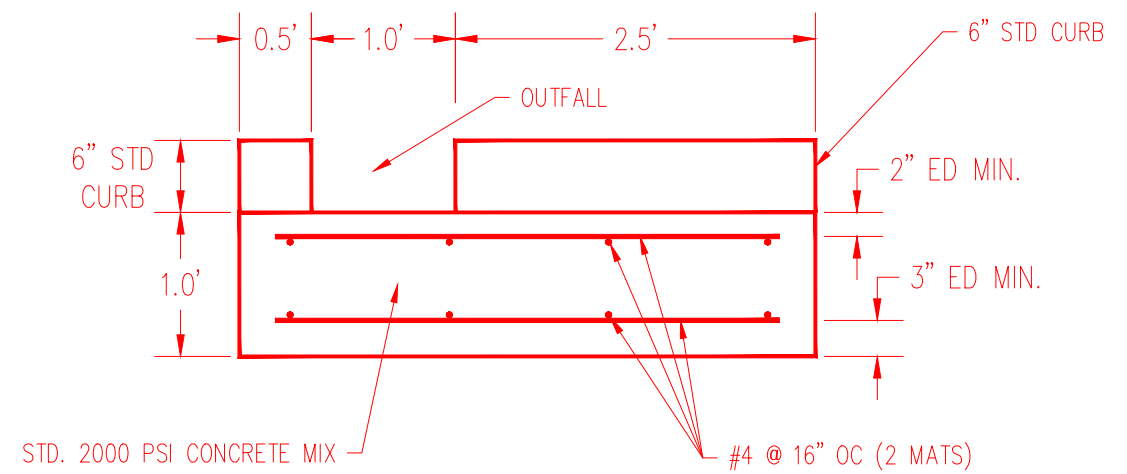


PLAN



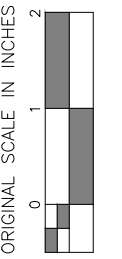
SECTION A - A

INFILTRATION AREA DETAIL



SECTION B - B

INFILTRATION AREA OUTFALL DETAIL



DESIGNED BY
ENG
DRAWN BY
L. LACKEY

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PUBLIC WORKS DEPARTMENT

COR REVISIONS FOR THE GOOD
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SHELTER PROJECT
COR DETAIL SHT C2.1

COR-C2.1

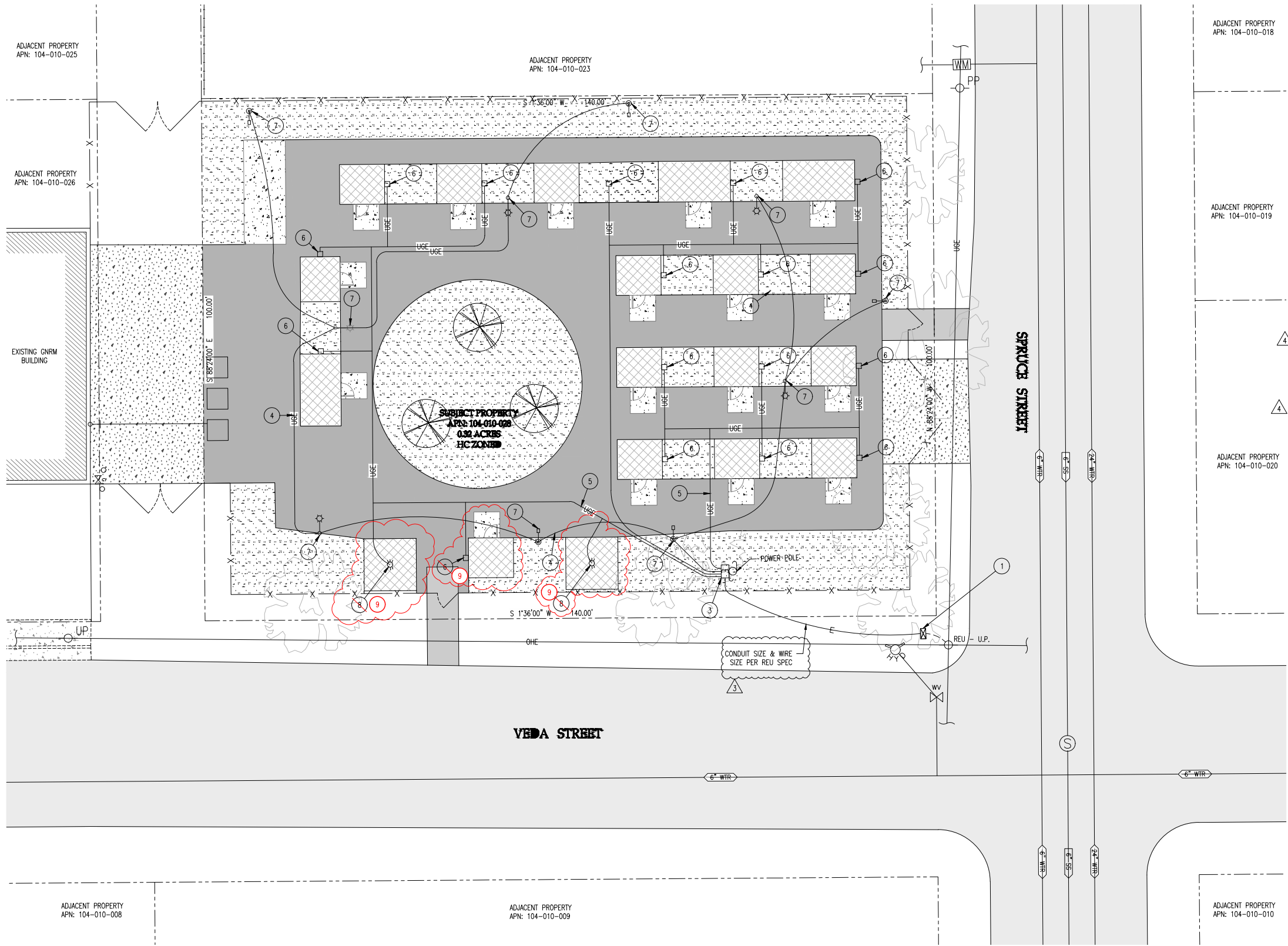
ORIGINAL SCALE:

DATE: MAY 2024

SHEET --- OF 4

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X:\DCLIB\Traffic\Design\Projects\Good News Rescue Mission Revisions 2024\TAKE 2.dwg, SHT C3.0



- ELECTRICAL UTILITY NOTES**
- 1 (P) POINT OF ELECTRICAL CONNECTION TO REU SOURCE
 - 2 NOT USED
 - 3 (P) POWER POLE W/ CUSTOMER SERVICE PANEL, SEE R.E.U. DRAWINGS FOR POWER SERVICE CONNECTION, SEE ELECTRICAL SHEETS FOR ADDITIONAL DETAILS
 - 4 (P) DIRECT BURIAL ELECTRIC WIRES FROM MAIN PANEL TO AREA LIGHTS
 - 5 (P) DIRECT BURIAL ELECTRIC WIRES FROM MAIN PANEL TO CABINS
 - 6 (P) ELECTRICAL POINT OF CONNECTION AT SLEEPING CABIN, REFER TO PALLET SHELTER ELECTRICAL WIRING DIAGRAM
 - 7 (P) 13.5" POLE MOUNTED LED AREA LIGHT, PER LIGHTING PLAN
 - 8 (P) GAZEBO CEILING-MOUNTED LED LIGHT, PER LIGHTING PLAN
 - 9 SEE CIVIL DRAWING C2.0 AND (NEW DETAIL SHEET C2.1) FOR MODIFICATIONS. ADJUST ELECTRICAL RACEWAYS STUB-OUTS AND LIGHTING ACCORDINGLY.

PROPOSED UTILITY PLAN
 SCALE: 1" = 10'
 0 10 20 FEET

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ORIGINAL SCALE IN INCHES: 0 1 2

DESIGNED BY: ENG
 DRAWN BY: L. LACKEY

CITY OF REDDING
PUBLIC WORKS DEPARTMENT

COR REVISIONS FOR THE GOOD NEWS RESCUE MISSION MICRO SHELTER PROJECT
 SHT C3.0

COR-C3.0
 ORIGINAL SCALE:
 DATE: MAY 2024
 SHEET --- OF 4

EROSION AND SEDIMENT CONTROL NOTES

GENERAL

- All erosion and sediment control measures shall be in compliance with the latest edition of the California Storm Water Quality Association BMP handbook. Obtainable at www.casqa.org
- These plans describe the appropriate measures to control potential storm water and non-storm water pollutants that may be generated from site construction activities. The contractor is responsible for implementation, monitoring and maintenance of all measures throughout the duration of the project.
- All erosion and sediment control measures shall be inspected on a regular basis and after each rainstorm. All BMP maintenance shall be initiated within 72 hours of rain event inspection. Contractor shall repair, modify or add control measures as soon as possible, preferably before next rain event, to prevent discharge of pollutants from the site.
- If the site or portion of the site is planned to be idle for more than 14 days then vegetative stabilization must be accomplished within 5 days.
- The contractor is responsible for all aspects of erosion, sediment and pollution control for the life of the project and shall install and maintain any devices and measures necessary to the satisfaction of the engineer.
- When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized. The embankment and resulting sediment deposits are to be leveled or otherwise disposed of by the contractor as recommended by the engineer.
- Temporary erosion and sediment control devices shown on this plan which interfere with work shall be relocated or modified as necessary and when the inspector so directs as the work progresses.
- After sewer and utility trenches are backfilled and compacted, the surface over such trenches shall be mounded slightly to prevent channeling of water in the trench area. Care should be exercised to prevent cross flow at frequent intervals where trenches are not on the centerline of a crowned street. Remove all check dams prior to backfill.
- The native vegetation will be removed only from those areas to be graded. Areas outside of and down slope of the limits of grading will be protected from silt laden runoff by perimeter silt fences as depicted on this plan. Sloped areas which have been stripped of vegetation and new slopes over four feet high created during the grading operation will be track walked to prepare soil for additional BMP's.
- Except as otherwise directed by the inspector, all BMP devices shown shall be in place within 48 hours of any likely precipitation event forecast of 50% or greater probability and maintained during the rainy season, or when directed by the inspector.
- The contractor shall be prepared year round to deploy erosion control and sediment control BMP's. Erosion may be caused during dry seasons by un-seasonal rainfall, wind, and vehicle tracking. keep the site stabilized year round, and retain and maintain rainy season sediment trapping devices in operational condition.

EROSION CONTROL

- To minimize erosion of graded banks, all graded banks and stock pile areas shall be hydroseeded, landscaped or seeded.
- Graded areas must drain away from the face of the slopes at the conclusion of each working day. Drainage shall be directed towards drainage inlets.
- When directed by the inspector, a 12 inch berm shall be maintained along the top of the slope of those fills on which grading is not in progress.
- Exposed slopes shall be protected by vegetation cover or fabric cover.
- All finished building pads shall be protected.

SEDIMENT CONTROL

- The contractor shall have standby crews and materials available for emergency work during rainstorms.
- Sand bags shall be stockpiled on-site, ready to be placed in position when rain forecast probability exceeds 30%.
- Contractor shall obtain adequate supplies of straw mulch and straw wattles on-site prior to commencement of vegetation removal.
- Inlet protection shall be installed at each drain inlet immediately after drain inlet is set. Contractor shall clean accumulated sediment from BMP periodically or when sediment reaches 1/2 of barrier height. These protection measures shall be maintained until the project is completed.
- All basins and check dams shall have been pumped dry, and all debris and silt removed within 25-96 hours of each storm.

TRACKING CONTROL

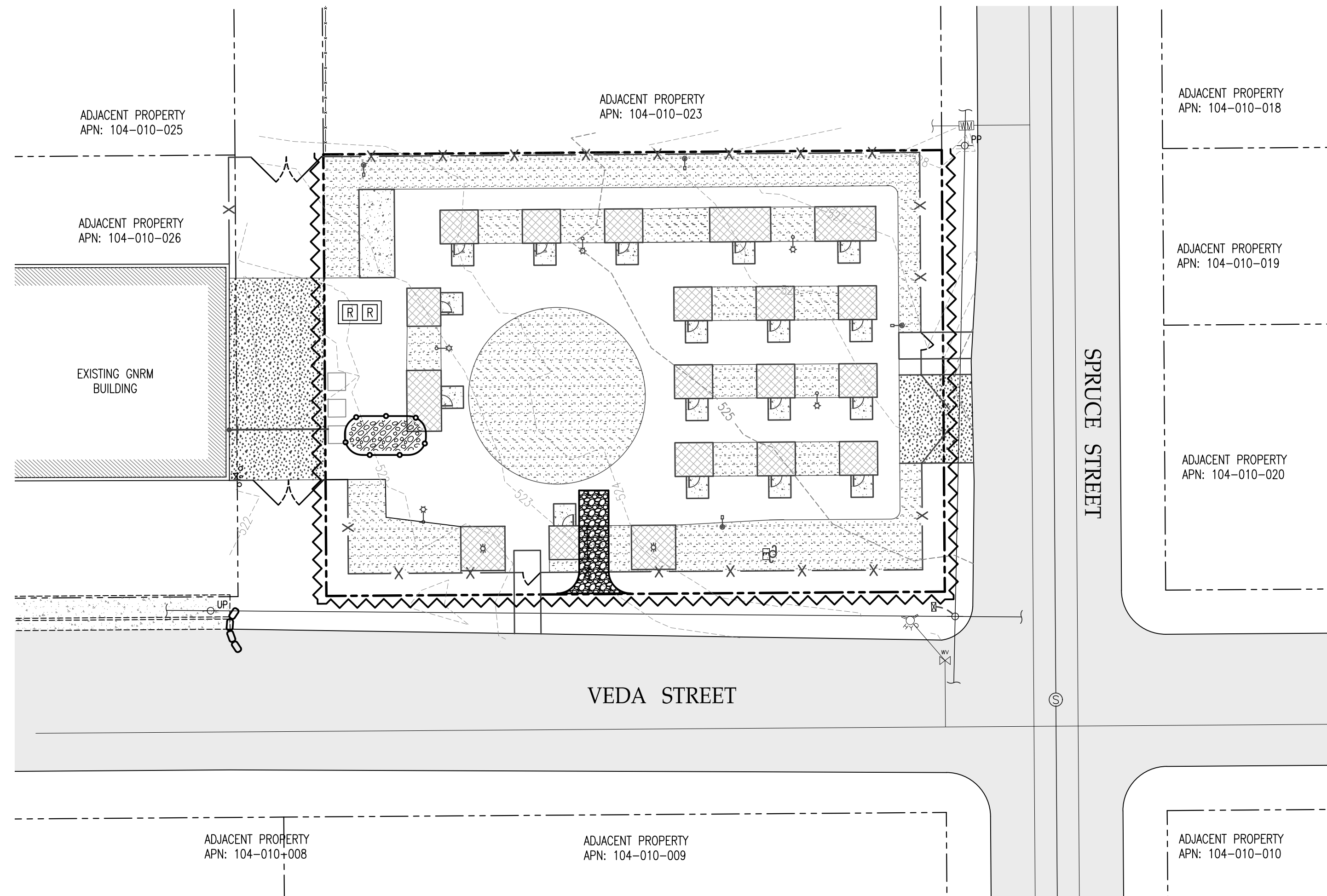
- Stabilized construction entrances shall be installed prior to the commencement of grading at the locations shown on these plans. All construction traffic leaving the site road must use these entrances. Entrances shall be maintained in a condition that will prevent tracking of sediment on to public right-of-way. Contractor shall remove and dispose of entrances upon completion of construction.
- All loose soil and debris shall be removed from the street areas by vacuuming or street sweeping on a daily basis.

NON-STORM WATER

- Offsite storm water runoff shall be diverted away from construction activity area. Runoff shall be directed into existing or newly constructed conveyance systems that can accommodate the increased flow.
- Onsite vehicle and equipment fueling, washing and maintenance should only be used where it is impractical to send vehicles and equipment off-site.

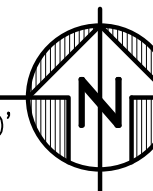
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL

- Staging areas shall be located in areas where no concentrated storm water runoff will occur. Staging areas shall not encroach upon existing drainage swales or ditches.
- Contractor shall designate a temporary concrete truck washout area at a location away from the existing storm drain system. Concrete mixer trucks shall not dump waste concrete mix or wash equipment in an area where runoff from the area has a direct connection with the storm drain system.
- During construction, the contractor shall designate a waste collection area on-site for any litter, debris, slash or construction refuse. All such debris shall be disposed of at an authorized disposal facility on a bi-weekly basis or more frequently as needed.
- Soil, debris and all other stockpile areas shall be located away from drainage inlets, swales and ditches, and shall be protected from wind and rain.
- Contractor shall remove all debris, trash, equipment and materials from the project site upon completion of operations.



EROSION CONTROL PLAN

SCALE: 1" = 20'



TEMPORARY EROSION CONTROL BMP'S		
CASQA FACT SHEET	BMP NAME	NOTES
EC-1	SCHEDULING	
EC-2	PRESERVATION OF EXISTING VEGETATION	
WE-1	WIND EROSION CONTROL	AS REQUIRED

TEMPORARY NON-STORMWATER BMP'S		
CASQA FACT SHEET	BMP NAME	NOTES
NS-1	WATER CONSERVATION PRACTICES	DAILY
NS-3	PAVING AND GRINDING OPERATION	
NS-7	POTABLE WATER/IRRIGATION	DAILY
NS-8	VEHICLE AND EQUIPMENT CLEANING	BEST TO BE DONE OFF-SITE
NS-9	VEHICLE AND EQUIPMENT FUELING	BEST TO BE DONE OFF-SITE
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE	BEST TO BE DONE OFF-SITE
NS-12	CONCRETE CURING	AS REQUIRED
NS-13	CONCRETE FINISHING	AS REQUIRED

TEMPORARY SEDIMENT CONTROL BMP'S		
CASQA FACT SHEET	BMP NAME	NOTES
SE-1	SILT FENCE	INSTALL 48 HRS PRIOR TO RAIN EVENT
SE-5	FIBER ROLLS	INSTALL 48 HRS PRIOR TO RAIN EVENT
SE-7	STREET SWEEPING & VACUUMING	AS REQUIRED, DAILY MINIMUM
SE-10	STORM DRAIN INLET PROTECTION	INSTALL 48 HRS PRIOR TO RAIN EVENT
TC-1	STABILIZED CONSTRUCTION ENTRANCE & EXIT	IF REQUIRED FOR ADDITIONAL PROTECTION

TEMPORARY MATERIAL MANAGEMENT BMP'S		
CASQA FACT SHEET	BMP NAME	NOTES
WM-01	MATERIAL DELIVERY AND STORAGE	DAILY
WM-02	MATERIAL USE	DAILY
WM-03	STOCKPILE MANAGEMENT	AS REQUIRED
WM-04	SPILL PREVENTION AND CONTROL	AS REQUIRED
WM-05	SOLID WASTE MANAGEMENT	AS REQUIRED
WM-08	CONCRETE WASTE MANAGEMENT	AS REQUIRED
WM-09	SANITARY-SEPTIC WASTE MANAGEMENT	AS REQUIRED

PERMANENT EROSION CONTROL

- STRAW MULCH (EC-6) WITH SEED AND TACKIFIER USING STANDARD EROSION CONTROL MIX.
- INSTALL USING SOIL PREPARATION / ROUGHENING (EC-15) BY TRACK WALKING THE DISTURBED AREA.

LEGEND

- SILT FENCE PER "CASQA" SE-1
- TYPE 1 TEMPORARY BIO-DEGRADABLE FIBER ROLLS PER "CASQA" SE-5
- STORM DRAIN INLET PROTECTION PER "CASQA" SE-10
- STORM DRAIN "TYPE 3" INLET PROTECTION PER "CASQA" SE-10
- TYPE 1 STABILIZED CONSTRUCTION ENTRANCE/EXIT PER "CASQA" TC-1
- MATERIAL DELIVERY AND STORAGE PER "CASQA" WM-1
- STOCKPILE MANAGEMENT PER "CASQA" WM-3
- TEMPORARY CONCRETE WASHOUT FACILITY PER "CASQA" WM-8
- TEMPORARY SANITARY FACILITY PER "CASQA" WM-9
- PRESERVATION OF EXISTING VEGETATION PER "CASQA" EC-2
- FUEL VEHICLE AND EQUIPMENT FUELING PER "CASQA" NS-9

GENERAL NOTES:

- ALL BMP'S SHOWN IN LEGEND MAY NOT BE REQUIRED ON THIS PROJECT.
- BMP'S MAY NEED TO BE MODIFIED, REPAIRED, OR CHANGED DURING THE COURSE OF THE PROJECT.
- CONTRACTOR TO INSTALL BMP'S AS SHOWN ONE TIME. MODIFICATIONS OR REPAIRS REQUIRED DUE TO STORM ACTIVITY WILL BE ON A TIME AND MATERIALS BASIS.
- REPAIRS REQUIRED DUE TO CONSTRUCTION ACTIVITY DAMAGE WILL BE BY THE CONTRACTOR, NO EXTRA MONEY WILL BE PAID.

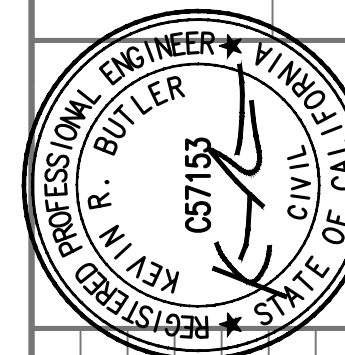


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1411 SPRUCE STREET
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EROSION CONTROL PLAN



NO.	DATE	REVISIONS
0	12/30/22	APPROVED FOR PERMIT
1	05/05/23	C.O.R. PLAN CHECK COMMENTS DATED 03/03/23
2	05/09/23	UNIT COUNT UPDATE
3	05/19/23	REV UPDATES
4	07/13/23	C.O.R. PLAN CHECK COMMENTS DATED 06/23/23

DATE ISSUED
12/30/22
SHEET NUMBER
C9.0
JOB NUMBER
22.200

ACCESSIBILITY REQUIREMENTS

- A. FLOOR OR GROUND SURFACES (302):**
- Ground and floor surfaces along accessible routes and in accessible rooms and spaces, including floors, walks, ramps, stairs and curb ramps, shall be stable, firm, and slip-resistant.
 - Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2" diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.
- B. CHANGES IN LEVEL (303):**
- Changes in level of 1/4" high maximum shall be permitted to be vertical and without edge treatment.
 - Changes in level between 1/4" high minimum and 1/2" high maximum shall be beveled with a slope not steeper than 1 unit vertical to 2 units horizontal.
 - Changes in level greater than 1/2" high shall be ramped.
 - Abrupt changes in level exceeding 4" in a vertical dimension between walks, sidewalks or other pedestrian ways and adjacent surfaces or features shall be identified by warning curbs at least 6" in height above the walk or sidewalk surface.

Exceptions:

 - A warning curb is not required between a walk or sidewalk and an adjacent street or driveway.
 - A warning curb is not required when a guard or handrail is provided with a guide rail centered 2" minimum and 4" maximum above the surface of the walk or sidewalk.
- C. CLEAR FLOOR OR GROUND SPACE (305):**
- Floor or ground surfaces of a clear floor or ground space shall comply with FLOOR OR GROUND SURFACES section.

Exception: Slopes not steeper than 1:48 shall be permitted.
 - The clear floor or ground space shall be 30" minimum by 48" minimum.
 - Unless otherwise specified, clear floor space shall be permitted to include knee and toe clearance complying with KNEE AND TOE CLEARANCE section.
 - Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.
 - One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.
 - Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with the following:
 - Forward approach: Alcoves shall be 36" wide minimum where depth exceeds 24".
 - Parallel approach: Alcoves shall be 60" wide minimum where the depth exceeds 15".
- D. KNEE AND TOE CLEARANCE (306):**
- Knee and toe clearance shall be provided where space beneath an element is included as part of clear floor or ground space or turning space. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.
 - Toe clearance:
 - Space under an element between the finish floor or ground and 9" above the finish floor or ground shall be considered toe clearance.
 - Toe clearance shall extend 25" maximum under an element.

Exception: Toe clearance shall extend 19" maximum under lavatories required to be accessible.
 - Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17" minimum under the element.

Exception: The toe clearance shall extend 19" minimum under sinks and built-in dining and wok surfaces required to be accessible.
 - Space extending greater than 6" beyond the available knee clearance at 9" above the finish floor or ground shall not be considered toe clearance.
 - Toe clearance shall be 30" wide minimum.
- 3. Knee clearance:**
- Space under an element between 9" and 27" above the finish floor or ground shall be considered knee clearance.

Exception: At lavatories required to be accessible, space between 9" and 29" above the finish floor or ground, shall be considered knee clearance.
 - Knee clearance shall extend 25" maximum under an element at 9" above the finish floor or ground.
 - Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11" deep minimum at 9" above the finish floor or ground, and 8" deep minimum at 27" above the finish floor or ground.

Exceptions:

 - At lavatories required to be accessible, the knee clearance shall be 27" high minimum above the finish floor or ground at a depth of 8" minimum increasing to 29" high minimum above the finish floor or ground at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture.
 - At dining and work surfaces required to be accessible, knee clearance shall extend 19" deep minimum at 27" above the finish floor or ground.
 - Between 9" and 27" above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1" in depth for each 6" in height.

Exception: The knee clearance shall not be reduced at built-in dining and work surfaces required to be accessible.
- Knee clearance shall be 30" wide minimum.
- E. PROTRUDING OBJECTS (307):**
- Objects with leading edges more than 27 inches and not

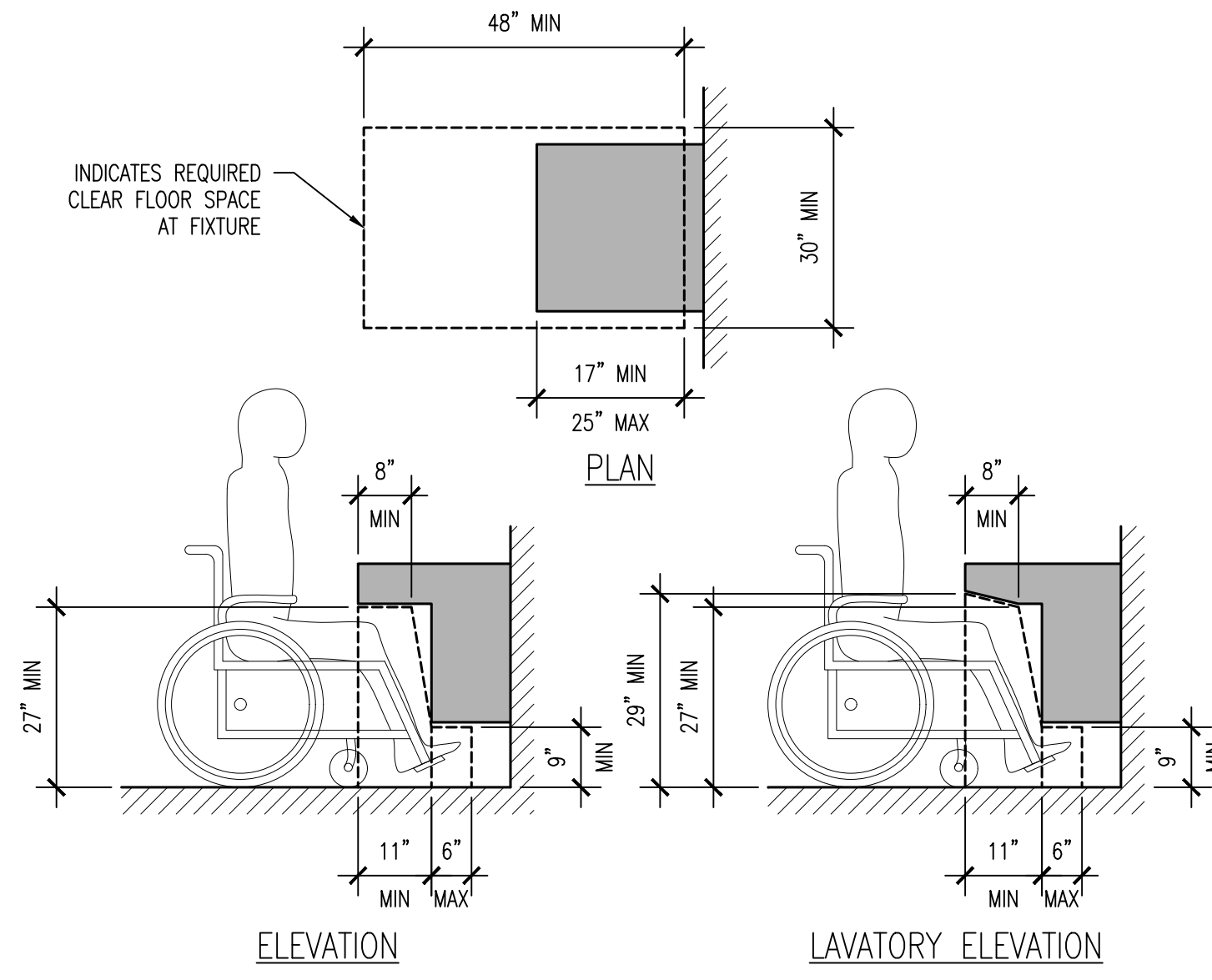
- more than 80 inches above the finish floor or ground may protrude 4 inches maximum horizontally into the circulation path.
- Exception:** Handrails shall be permitted to protrude 4 1/2 inches maximum.
- Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches maximum when located 27 inches minimum and 80" maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches, the lowest edge of such sign or obstruction shall be 27 inches maximum or 80 inches minimum above the finish floor or ground.

Exception: The sloping portions of handrails serving stairs and ramps shall not be required to comply with this item.
 - Where signs or other objects are mounted on posts or pylons, and their bottom edges are less than 80 inches above the floor or ground surface, the edges of such signs and objects shall be rounded or eased and the corners shall have a minimum radius of 1/8 inch.
 - Vertical clearance shall be 80 inches high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches high. The leading edge of such guardrail or barrier shall be located 27 inches maximum above the finish floor or ground.

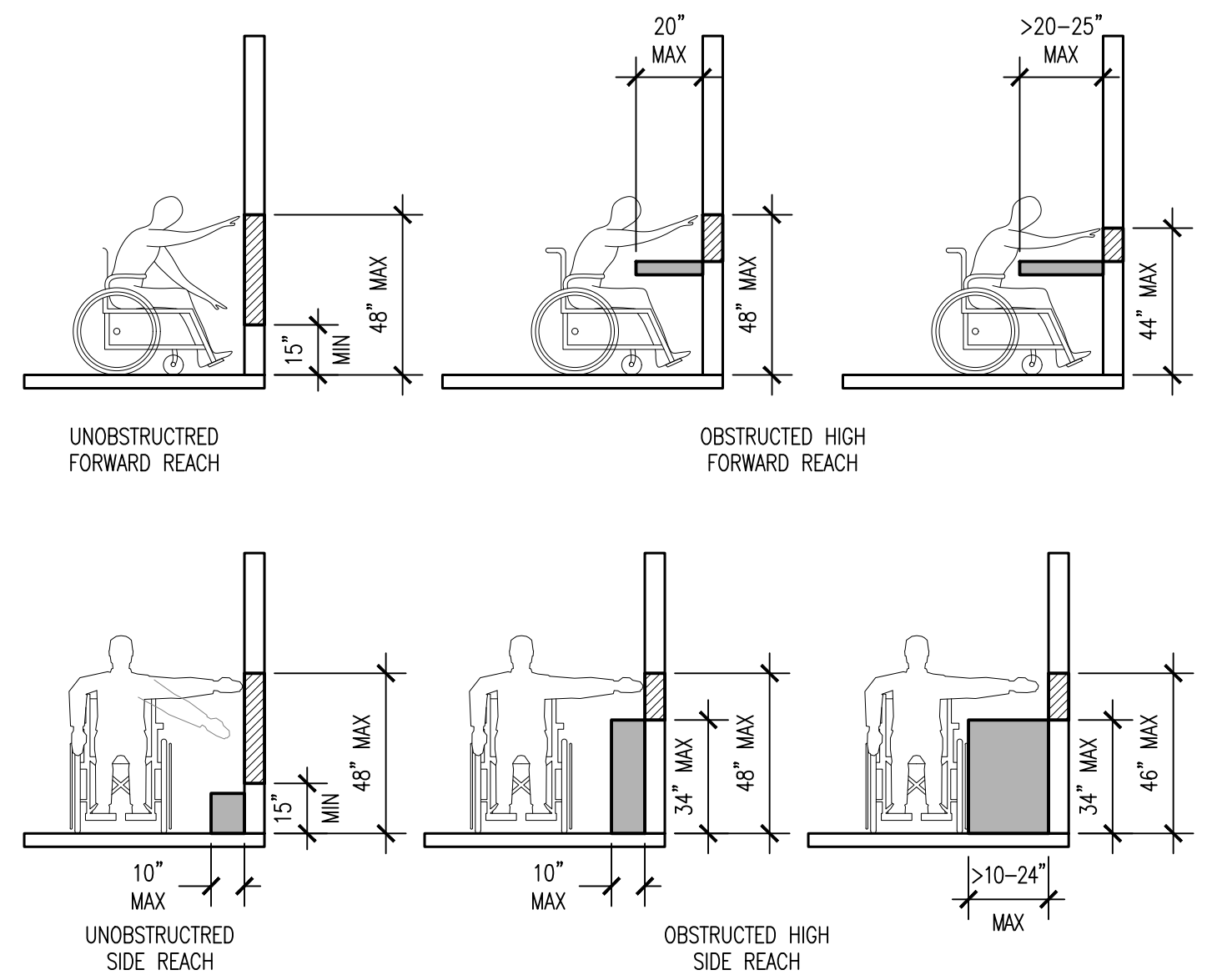
Exception: Door closers and door stops shall be permitted to be 78 inches minimum above the finish floor or ground.
 - Where a guy support is used within a circulation path or within 24 inches outside a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction.
 - Protruding objects shall not reduce the clear width required for accessible routes.

- F. REACH RANGES (308):**
- Forward Reach:
 - Where a forward reach is unobstructed, the high forward reach shall be 48" minimum and the low forward reach shall be 15" minimum above the finish floor or ground.
 - Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44 inches maximum and the reach depth shall be 25" maximum.
 - Side Reach:
 - Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the finish floor or ground.

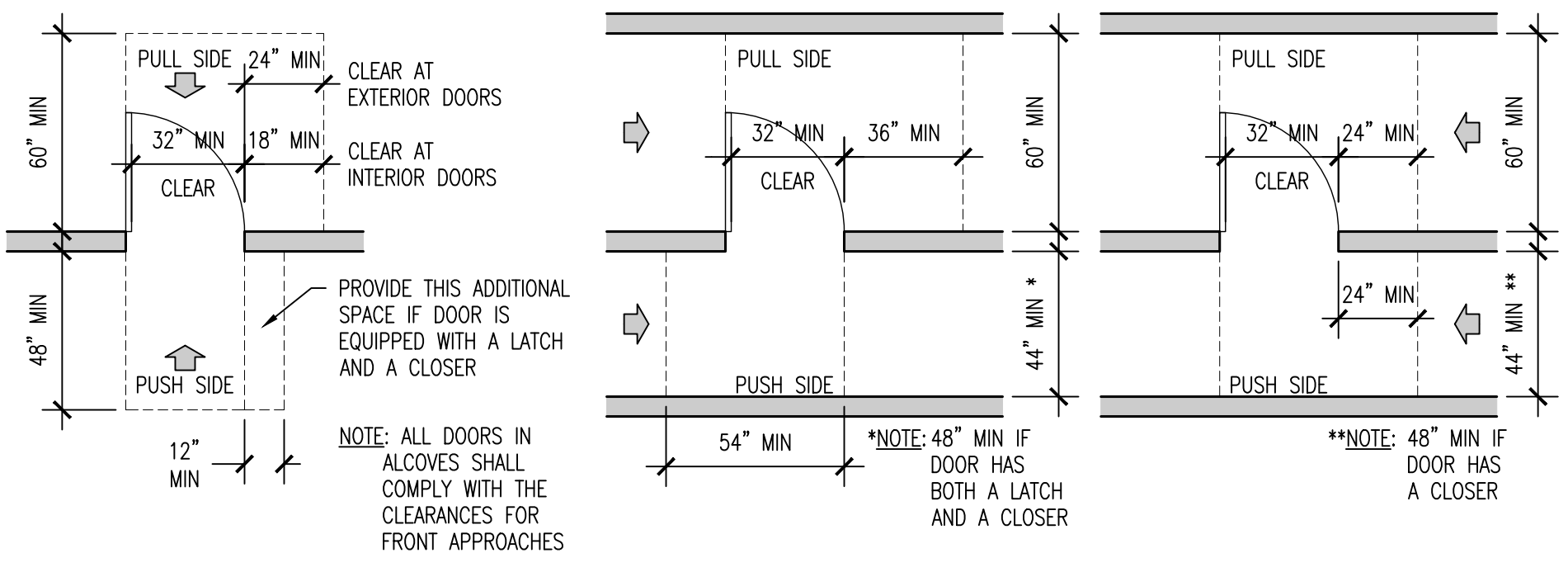
Exception: An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10" maximum.
 - Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall be 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.
- G. OPERABLE PARTS (309):**
- A clear floor or ground space complying with CLEAR FLOOR OR GROUND SPACE section shall be provided.
 - Operable parts shall be placed within one or more of the reach ranges specified in REACH RANGES section.
 - Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds maximum.
- J. SIGNS:**
- At every primary public entrance and at every major junction along or leading to an accessible route of travel, there shall be a sign displaying the international symbol of accessibility. Signs shall indicate the direction to accessible building entrances and facilities and shall comply with the requirements of the CBC.



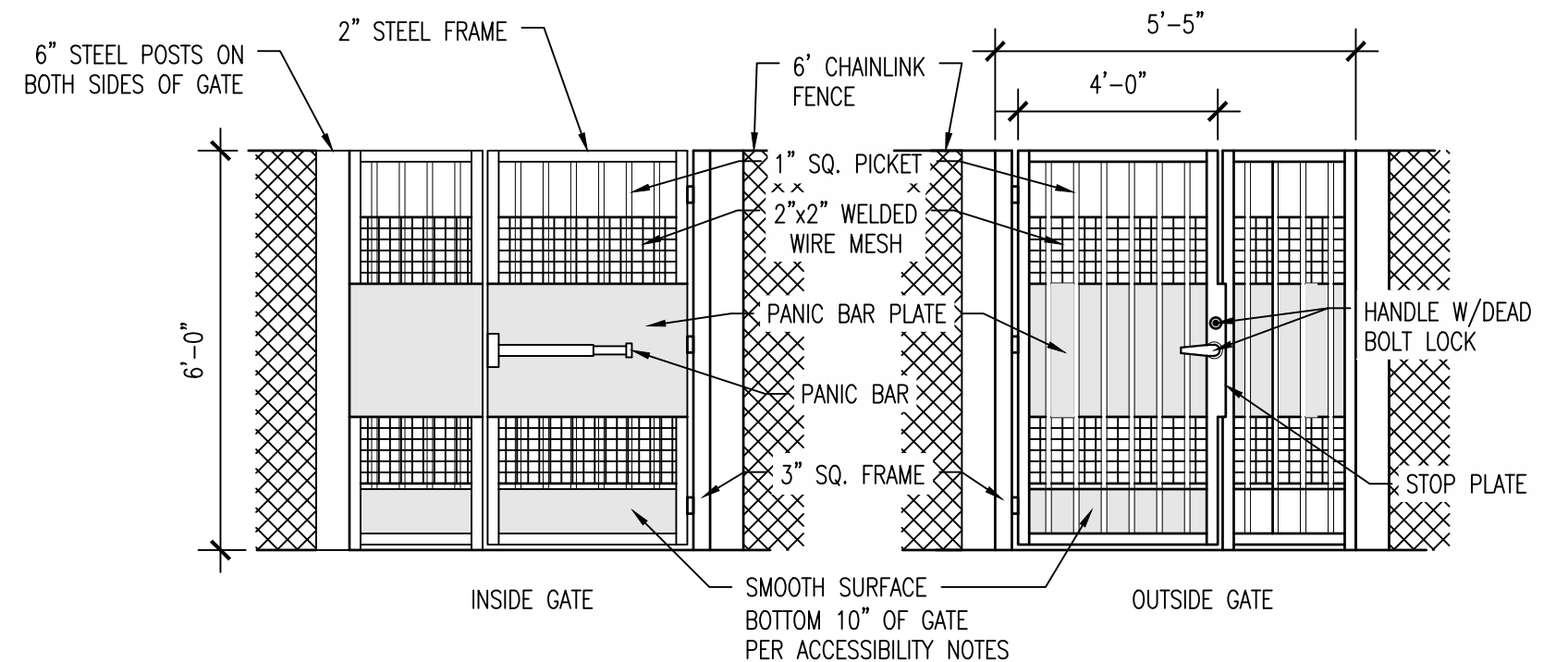
KNEE & TOE CLEARANCE
SCALE: 1/2" = 1'-0"
C10.0



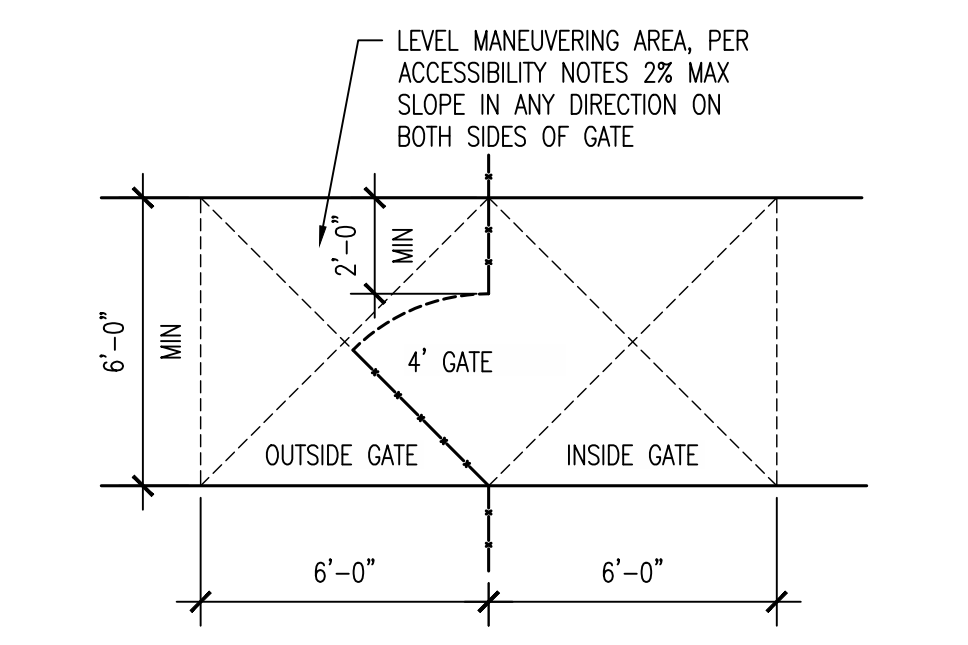
REACH RANGES
SCALE: 1/4" = 1'-0"
C10.0



LEVEL MANEUVERING CLEARANCE AT DOORS
SCALE: 1/4" = 1'-0"
C10.0



ACCESSIBLE GATE DETAIL
SCALE: 3/8" = 1'-0"
C10.0



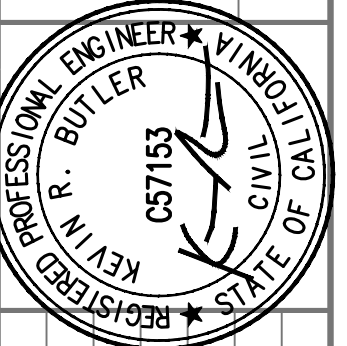
ACCESSIBLE GATE DETAIL
SCALE: 1/4" = 1'-0"
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ACCESSIBILITY REQUIREMENTS & DETAILS



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DATE ISSUED
12/30/22

SHEET NUMBER
C10.0

JOB NUMBER
22.200

ELECTRICAL NOTES

- GENERAL:**
- Materials and construction shall conform to the minimum requirements of the latest revision of the NEC, NEC, UBC, CBC, all local ordinances, city/county standards, and any other governing jurisdiction. In a case of conflict between regulations/jurisdictions the more restrictive shall apply.
 - Materials, products, and equipment, including all components thereof shall be Underwriters Laboratories Listed and shall meet requirements of ASTM, IEEE, IPCEA, NEC, RLM, CBM, and other recognized standards.
 - All materials shall be commercial grade and in compliance with the requirements of the design criteria.
 - The Electrical Contractor shall furnish all labor, materials, tools, equipment, transportation and apparatus for the complete installation of all electrical systems. This work shall include but not be limited to the following:
 - Electrical service and distribution.
 - Branch circuit wiring, including conductors, raceways and supports.
 - Wiring for heating, ventilation, air conditioning, plumbing, and fire protection.
 - Electrical connections to equipment furnished by others
 - Concrete work for conduit encasement and other concrete work where indicated on drawings and specified herein.
 - Control wiring where indicated.
 - Conduit and wiring for special systems indicated on Drawings.
 - Lighting fixtures and lamps as indicated on Drawings.
 - Testing, Cleaning, Adjusting.
 - Painting, unless otherwise specified.
 - Conduit, wire, breakers, fused disconnects, etc. as required for all HVAC work. Fuse and breaker sizes per unit nameplate requirement. Starters whenever not furnished with HVAC equipment.
 - Furnish three (3) complete operating/maintenance manuals and (3) sets of record/as-built drawings.
 - Identification. Identify all panel boards, and provide a typed load directory with each panel board.
 - The contractor shall use sufficient journeymen electricians and competent supervisors in the execution of this portion of the work to insure proper and adequate electrical installation throughout. In the acceptance or rejection of installed plumbing, no allowance will be made for lack of skill on the part of workman.
 - Prior to submitting proposal, the Electrical Contractor shall verify existing job conditions, review all drawings and specifications, verify dimensions prior to construction, visit the site and fully acquaint himself with the job conditions and verify service requirements including all necessary pull boxes, size and number of conduits and conductors, switch gear, metering, etc. Any deviations between documents shall be brought to the attention of the engineer prior to submitting bid proposal.
 - The contractor shall assume sole responsibility for project site conditions during the course of construction, including safety of all persons and property.
 - It is the responsibility of the contractor to provide adequate bracing and support of all temporary construction and partially completed portions of the work. Such bracing, shoring, and support shall insure the safety of the structure and all persons who come in contact with the project. The contractor is responsible for all shoring, bracing, and demolition procedures.
 - Information regarding existing construction is based on original contract drawings. This information is believed to be correct but is not guaranteed. Prior to construction, the contractor shall review all drawings, specifications, field verify all dimensions, review existing job conditions and construction procedures. The contractor shall notify the engineer if existing job conditions and/or construction is not as shown on the drawings.
 - All work shall conform to these notes and drawings in all respects. No changes shall be allowed without written approval from the engineer, and approval of the building department.
 - Locations of existing utilities shown are approximate only. Other existing utility services in addition to those shown may exist. The contractor shall be solely responsible for locating, protection, and/or repairs, if needed due to damage while on site.
 - The specifications are part of these drawings and any deviations between the two should be brought to the attention of the engineer prior to submitting bid proposal. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings but not in the specifications will be interpreted as being in both.
 - Contractor shall coordinate all methods of operations and the time in which work shall be performed with the owner and general contractor prior to starting project.
 - Use all means necessary to protect electrical materials before, during and after installation and to protect the installation work of other trades. In the event of damage, immediately make all repairs and replacements necessary to the approval of the owner and at no additional cost to the owner.
 - The Drawings are schematic in nature. Exact locations shall be determined on the job to suit actual conditions. Do not scale drawings, locations so determined are the Contractor's responsibility and changes required because of such action shall be by the Contractor at no extra cost to the Owner. All items obviously necessary to carry out the intent of the drawings and specifications are included, regardless of their not being shown on the drawings or called out in the specifications
 - The contractor shall guarantee that the installation is defect free and shall guarantee free replacement or repair to the satisfaction of the Architect, any part of the installation which shall fall within one (1) year, providing such failure is due to defects in the material or workmanship, or due to unauthorized deviations from the contract documents.
 - The Electrical Contractor shall provide all work necessary for temporary electrical service, including jobsite lighting, power, including electrical requirements for all trades, excluding all fees, permits, power company charges, etc. The service shall be 200amp single phase 120/208-240 volt with GF receptacles and (2) - 50a 120-240 volt spider box outlets. All spider boxes and cords by others, any trenching, backfill, cut/patch of asphalt and/or concrete is by the General Contractor.

- Panel boards shall be 3 phase, 4 wire, distributed phasing type, as manufactured by General Electric, Siemens, Square 'D' or equal. Cabinets shall be constructed of code gauge steel with hinged doors having directory cards, neatly and properly inscribed and set in frames with transparent covers.
 - Furnish and install fixtures complete with mounting hardware, lenses, fittings, canopies, sockets, reflectors, ballast, wiring, and any other component parts for a complete installation. Contractor shall provide all lamps per the fixture schedule and guarantee all lamps per manufacturer's published data.
 - Transformers shall be dry-type with low sound level, class H. Transformers shall be dry-type (480 volt, delta primary, 208Y/120 volt secondary) with 220 deg. C temperature class, 150 deg. C. maximum temperature rise, insulation. Transformers shall be floor mounted or floor supported and shall have Korfund pads and liquid tight 6" max. flex at primary and secondary connections for sound attenuation purposes.
 - Time switch is required to control the storefront entry, show window, and sign lighting during required hours designated by the owner. The time switch shall be a seven-day, calendar type.
 - Furnish all labor and all other utilities required to make test. Make compliance test in the presence of the owner's representative.
 - When the various systems are completed, run operation test to demonstrate proper operating conditions. Run these tests under the observation of owner's representative. Operate the electrical systems through all cycles of operation for this period of eight (8) hours. Instruct the owner's operators during this period. Perform operations tests under actual service conditions.
 - Should any piece of equipment, apparatus, material, or work fail in any of these tests, immediately remove and replace by perfect material, and retest the portion of the work replaced.
 - Smoke detectors shall receive their primary power from the building wiring when such wiring is served from a commercial source and shall be equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than those required for over current protection.
- INSPECTIONS:**
- Installation instructions for all listed equipment shall be provided to the field inspector at the time of inspection.
- ELECTRICAL INSTALLATION / EXECUTION:**
- All raceways, fixtures, devices, outlets, motors and equipment enclosures shall be permanently and effectively grounded, in accordance with NEC 250. Grounding rod to be tested for 25 ohms or less according to NEC 250-84. All grounding shall be in strict compliance with city requirements.
 - Install all electrical to avoid interference with plumbing equipment, mechanical equipment, and structural framing.
 - Conductors shall be installed in conduit and shall be continuous between outlets and junction boxes. No splices shall be made except in outlet boxes, panel boards, and gutters or pull boxes. Each conduit carrying electrical circuits (120v and above) shall have a safety green ground wire sized per NEC 250-95.
 - Color code branch circuit and feeder conductors are as follows:

120/208V,30,4w	277/480V,30,4w
Phase A Black	Phase A Brown
Phase B Red	Phase B Purple
Phase C Blue	Phase C Yellow
Neutral White	Neutral White (with tracer) or Gray
 - Conductor tagging: Tag conductors at ceiling junction boxes with premarked plastic type, Brady 'Quick labels'. Tag circuits to agree with panel directory circuit number.
 - Train conductors neatly in panels, cabinets, and equipment. Re-tighten pressure type lugs on panels and equipment after load has been applied.
 - Outlet boxes shall be recessed in wall with plaster rings. Use case boxes on floor slabs and in wet locations. Use ganged boxes for grouped devices. Through boxes are not permitted. Use blank plates for boxes dedicated for future use.
 - All outlets and junction boxes at rated walls shall be fire sealed. Refer to architectural drawings to confirm all fire rated spaces. Provide metal sleeves and approved fire seal nuts for all wiring passing through fire rated walls.
 - Install all equipment and fixtures forming part of the work of this section in complete accordance with the manufacturer's recommendations and all pertinent codes and regulations.
 - All electrical equipment, conduit, etc. shall be fastened to structural steel concrete or masonry, but not to piping. Where suspended from steel joists, miscellaneous hangers, supports, channels, rods, etc., necessary for the installation of work shall be part of the Tenant's work.
 - Equipment, disconnect switches, motor starters, panels and similar equipment shall be clearly marked. All panels shall be marked with engraved lamocoid plates, giving panel designation on 1/2" letters and voltage in 1/4" letters centered above door or exterior trim. Provide typewritten directories in panels and where otherwise required, with clear plastic protection shields and mounted in cardholders. Engraved lamocoid plates shall have black background with white letters. Attach each plate with nuts and bolts. Align plates on equipment being marked in center near top. Dymo tape type identification is not permitted.
 - Conduits shall run concealed unless otherwise noted. Run conduits clear of plumbing pipes, heating pipes and air conditioning ducts. Minimum conduit run shall be 2" EMT with (2) #12 wire and (1) #12 ground. Use GRSC in areas exposed to physical damage.
 - Conduits to be of sizes required to accommodate number of conductors in accordance with National Electrical Code unless noted on drawings. Run exposed conduits parallel to, or at right angles with, lines of building.
 - Join E.M.T. with watertight compression type thread less fittings throughout. Use flex connectors and E.M.T. fittings of factory pre-insulated type in all sizes. Make conduit connections into boxes with double locknut and insulated bushings.
- NOTE:** Setscrew E.M.T. connections & couplings may be used only for Tel/Data conduits when installed indoors, all other fittings shall be compression type.
- All roof penetrations shall be sealed and made watertight. Do not drill structural members without approval of the structural engineer. Ream conduit ends after cutting and paint all exposed threads with oxide inhibiting compounds.
 - Install all wiring in conduit. The conduit system shall be electrical continuous throughout. Conceal all conduits unless space has exposed structure.
 - Upon completion of this portion of the work, furnish all equipment and personnel and conduct all tests required to secure approval of the installation from all agencies having jurisdiction.

GENERAL NOTES

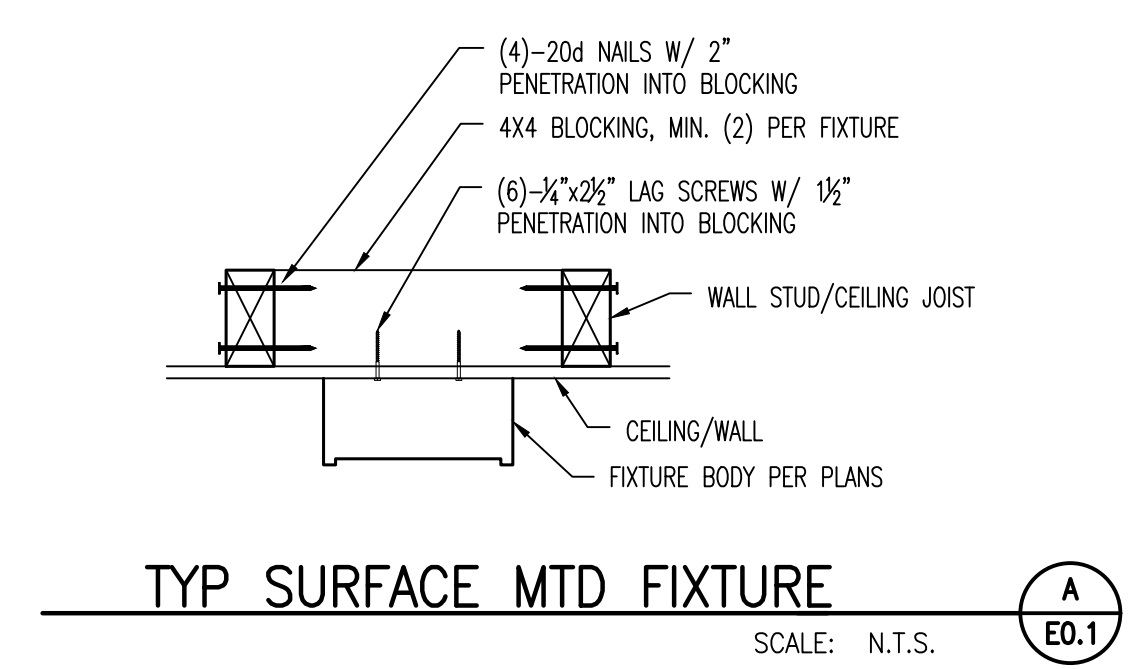
- VERIFY EXACT LOAD AND LOCATIONS OF ALL EQUIPMENT W/OWNER PRIOR TO ROUGH-IN.
- CONDUIT SEAL OFFS ARE REQUIRED ON ALL CONDUIT THAT OPENS INTO CLASS I AREAS AND AT THE BOUNDARIES OF THE CLASS I AREA.
- ALL WIRING AND EQUIPMENT IN SPACES ABOVE CLASS I LOCATION SHALL BE RATED FOR SUCH USE AND SHALL CONFORM TO ALL REQUIREMENTS OF N.E.C. 511-6 AND 511.7
- ALL FIXTURES FOR NIGHT LIGHTING PER OWNER.

MOUNTING HEIGHTS

SWITCHES	- 44" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
DIMMERS	- 44" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
RECEPTACLES	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
TELEPHONES OUTLETS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
DATA OUTLETS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
INTERCOM OUTLETS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
TELEVISION OUTLETS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
MICROPHONE OUTLETS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
FIRE ALARM PULL STATIONS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
FIRE ALARM HORNS AND BELLS	- 15" MIN TO BOTTOM OF BOX & 48" MAX TO TOP OF BOX, A.F.F.
STROBES	- 80" TO CENTER OF DEVICE, A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER
CLOCK	- AS SHOWN ON DRAWINGS
SPEAKERS	- AS SHOWN ON DRAWINGS
HAND DRYERS	- 40" MAX TO TOP OF SWITCH/OUTLET, A.F.F. (SEE ACCESSIBILITY REQ'S)
WALL SCONCES	- ABOVE 80" FOR PROJECTIONS INTO CORRIDORS OF NO MORE THAN 4" OR AS SHOWN ON DRAWINGS
EXIT LIGHTS	- SEE DETAILS
EXIT MARKERS	- SEE DETAILS
WIREMOLD	- 15" TO BOTTOM OF RACEWAY, U.N.O.
EMERGENCY LIGHTING WALL PACK	- 90" TO CENTER OF DEVICE, A.F.F.

MOUNTING NOTES

- ALL MEASUREMENTS ARE A.F.F.
- SEE DRAWINGS FOR NON-TYPICAL MOUNTING HEIGHTS.
- WHERE MOUNTING HEIGHTS ARE NOT SHOWN, REFER TO ARCHITECT.



WIRING METHODS SCHEDULE

AREA OR CONDITION	RACEWAY	CONDUCTOR MAT'L AND INSULATION	REMARKS
INTERIOR CONCEALED BRANCH CIRCUITS	RMC, EMT, MC CABLE, STEEL FLEX	CU, THWN, THHN	ALL AREAS WITH INTERIOR WALL &/OR CEILING FINISH EXCEPT FOOD STORAGE & PROCESSING AREAS
INTERIOR CONCEALED FEEDERS	RMC, EMT	CU, THWN, THHN	
INTERIOR EXPOSED	RMC, EMT	CU, THWN, THHN	ATTICS MECH/ELECT. ROOMS, UNDER FLOOR, ABOVE FOOD STORAGE AND PROCESSING AREAS AND WHERE SHOWN
INTERIOR EXPOSED	SURFACE RACEWAY	CU, THWN, THHN	WHERE SPECIFICALLY INDICATED ON DRAWINGS
EXTERIOR EXPOSED	EMT --- RMC OR IMC BELOW 10FT. AFF	CU, THWN, THHN	COMPRESSION TYPE OR THREADED (WATER TIGHT) FITTINGS
CONNECTIONS TO EXPOSED EQUIPMENT INTERIOR & EXTERIOR	METALLIC LIQUID TIGHT FLEX, STL PIPE	CU, THWN, THHN	

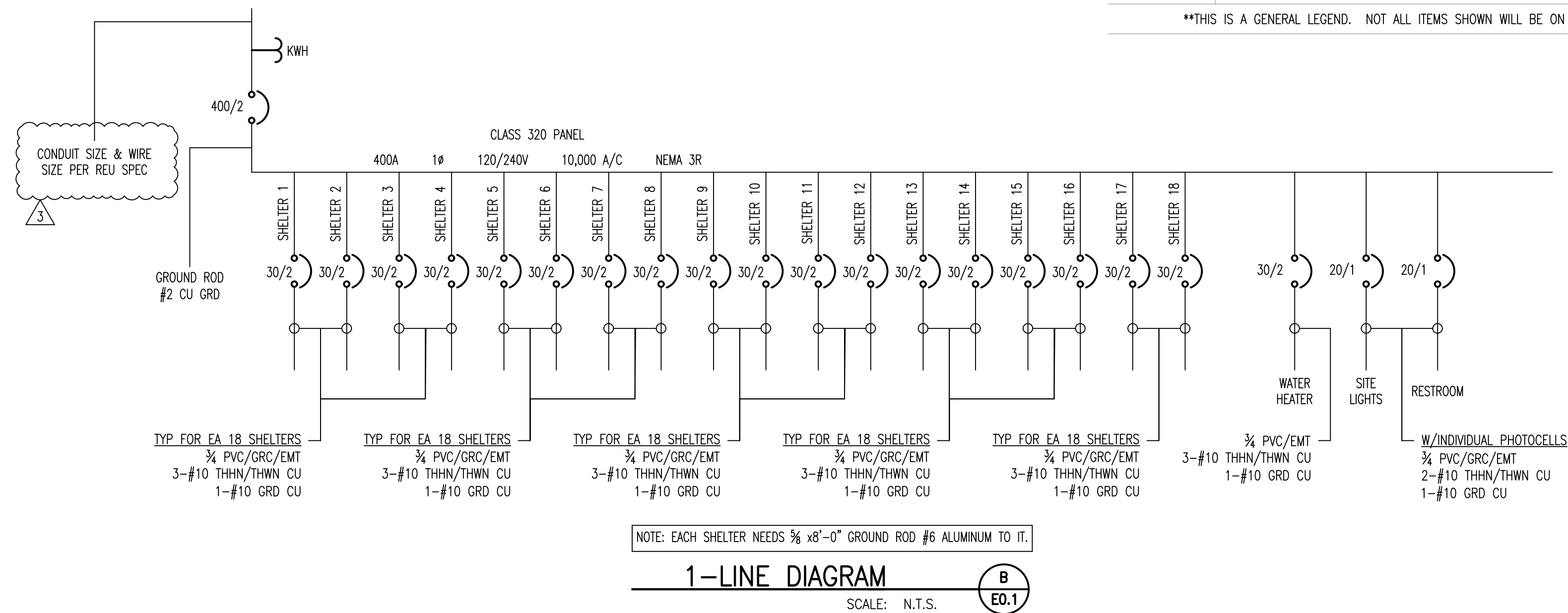
EQUIPMENT GROUNDING SCHEDULE

CONDUIT TYPE	CONDITION	INSULATED GROUNDING CONDUCTOR REQUIRED	REMARKS
EMT	ALL	YES	
FLEX METALLIC CONDUIT	ALL	YES	
LIQUID TIGHT FLEX	ALL	YES	
PVC CONDUIT	ALL	YES	
RMC, IMC	ALL	YES	

ELECTRICAL SYMBOL LEGEND

\$0	WALL SWITCH: 2-DOUBLE POLE : 3-THREE WAY : 4-FOUR WAY : D-DIMMER : V-VACANCY SENSOR : VA-WSX PDT VA : LWS-LWS PDT	0-OCCUPANCY SENSOR N-NPOP DX NON DIMMING WP- WEATHERPROOF CR- CORROSION RESISTANT DX- NPOD DX WALL SWITCH WSX - WSX PDT VLP
⊘	CONVENIENCE RECEPTACLE-DUPLEX UNLESS SPECIFIED OTHERWISE : GF-GROUND FAULT INTERRUPT : AFI-ARC FAULT INTERRUPT	: 3- WEATHERPROOF : WP- WEATHERPROOF : C - CONTROLLED
□	DISCONNECT SWITCH	
⊞	EQUIPMENT CONNECTION	
PANEL	ELECTRICAL SERVICE PANEL, CLASS 320	
⊞	WESTGATE LW360 25W LED WALL PAK, TIME CLOCK CONTROLLED	
EXIT	EXIT SIGN W/EMERGENCY LIGHTS & BATTERY BACKUP	
LED	LED BATHROOM LIGHT FIXTURE PER FIXTURE SCHEDULE	
⊞	LIGHTING FIXTURE PER FIXTURE SCHEDULE	
⊞	WALL MOUNTED LIGHTING FIXTURE	
⊞	EXHAUST FAN W/BACKDRAFT DAMPERS	
⊞	TELEPHONE/DATA COMBO OUTLET/3 CAT6	
⊞	SECURITY CAMERA	

****THIS IS A GENERAL LEGEND. NOT ALL ITEMS SHOWN WILL BE ON PLANS.****



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GNRM - MICRO SHELTER PROJECT
APN 104-0710-028
1411 SPRUCE STREET
REDDING, CALIFORNIA

ELECTRICAL NOTES & DETAILS

NO.	DATE	REVISIONS
0	12/30/22	APPROVED FOR PERMIT
1	05/05/23	C.O.R. PLAN CHECK COMMENTS DATED 03/03/23
2	05/09/23	UNIT COUNT UPDATE
3	05/19/23	REV UPDATES
4	07/31/23	C.O.R. PLAN CHECK COMMENTS DATED 06/23/23

DATE ISSUED
12/30/22

E0.1

JOB NUMBER
22.200

Meter Main Loadcenters - With Optional MCC Bypass

400 Amp Max



- Application**
- Combination meter/main/loadcenter with optional manual circuit closing (link type) bypass
 - Factory installed breaker
 - Receive ANSI C12.10 watt-hour meters
 - Surface mount
- Construction**
- NEMA Type 3R
 - ANSI 61 gray painted finish
 - Aluminum snap ring included
 - Removable door with sealing provision and lifting handles

- Standards**
- UL 67 Listed
 - ANSI C12.7
 - EUSERC 302

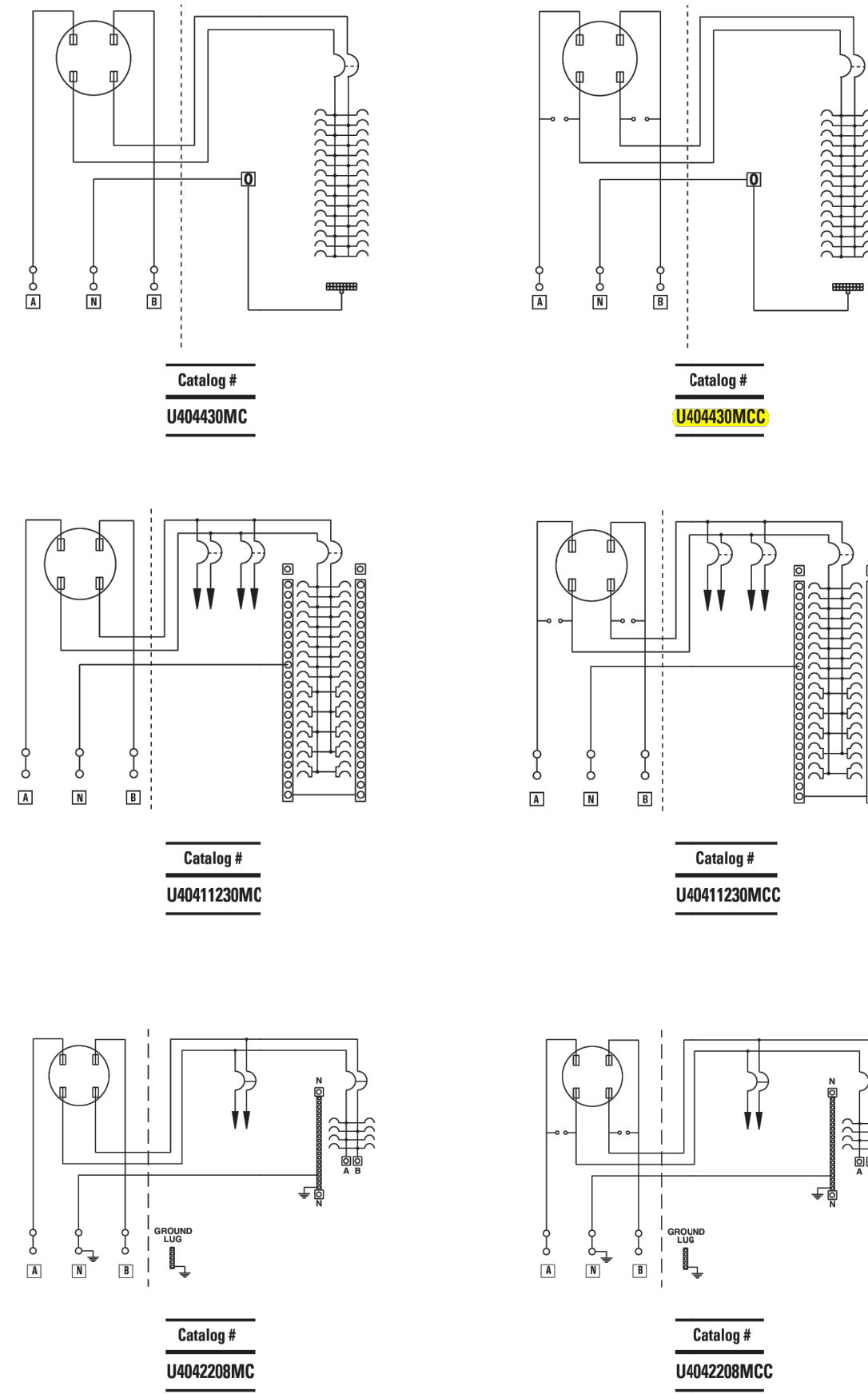


Part/UPC Number	Catalog Number	Max Amp Rating	Jaws	Service Type	Access	Voltage	Main Breaker Type	Provisions	Loadcenter	Bypass
78205157072	U40411230MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(2) 100A	20/40	--
78205157074	U40411230MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(2) 100A	20/40	MCC
78205119923	U4042208MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(1) 200A	8	--
78205120682	U4042208MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(1) 200A	8	MCC
78205177210	U4042230MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(1) 200A	20/40	--
78205177220	U4042230MCC	400	4	10/3W	UG	120/240	22K (1) 200A, 2P	(1) 200A	20/40	MCC
78205177230	U404430MCC	400	4	10/3W	UG	120/240	22K (1) 400A, 2P	--	30	--
78205177240	U404430MCC	400	4	10/3W	UG	120/240	22K (1) 400A, 2P	--	30	MCC

Part/UPC Number	Catalog Number	Line Connections	Neutral	Height	Overall Dimensions	Depth	Top Provision	Knockout Layout
78205157072	U40411230MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 1
78205157074	U40411230MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 1
78205119923	U4042208MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 2
78205120682	U4042208MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 2
78205177210	U4042230MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 1
78205177220	U4042230MCC	Studs	MCB #6 - 250 MCM	38"	30"	6"	None	Fig. 1
78205177230	U404430MCC	Studs	MCB #6 - 250 MCM	47"	34"	6"	None	Fig. 3
78205177240	U404430MCC	Studs	MCB #6 - 250 MCM	47"	34"	6"	None	Fig. 3

Data subject to change without notice. Consult local utility for area acceptance. All dimensions are in inches.
Eaton **60** B-Line series meter mounting equipment

Class 320 - Wiring Diagrams



Data subject to change without notice. Consult local utility for area acceptance. All dimensions are in inches.
Eaton **64** B-Line series meter mounting equipment

Analysis of Electrical Load Factors For Use In Determining Sizing For Service

Address: GOOD NEWS RESCUE MISSION MSB

Square feet in building: 180
VA/sq foot usage goal: 3.0

Receptacles: 0
VA Load per receptacle: 180

Lights - Sq footage: 0
VA/sq foot: 0.3

TINY HOMES (18): 240, 276, 66,240
WATER HEATER: 240, 21.5, 5,160
SITE LIGHTS: 120, 6, 720
RESTROOM: 120, 2, 240

Convert to Amperes: Line voltage 240, Amperage total for building 302

Test result at + ??%: Line voltage 240, Total VA 72360, Additional Percent Load 25.00%, Amperage after factor 377

Compare test to panel amperage: Panel amperage 320, Over/under capacity % 106.14%

Analysis of Electrical Load Factors For Use In Determining Sizing For Service

Address: GOOD NEWS RESCUE MISSION SHELTERS

Square feet in building: 180
VA/sq foot usage goal: 3.0

Receptacles: 2
VA Load per receptacle: 180

Lights - Sq footage: 0
VA/sq foot: 0.3

AC: 0, 0, 0
WATER HEATER: 240, 12.5, 3,000
SMOKE DECT: 120, 0.03, 4

Convert to Amperes: Line voltage 240, Amperage total for building 14

Test result at + ??%: Line voltage 240, Total VA 3363.6, Additional Percent Load 25.00%, Amperage after factor 18

Compare test to panel amperage: Panel amperage 30, Over/under capacity % 171.25%

GOOD NEWS RESCUE MISSION - MSB

VOLTAGE: 120/240
PHASE WIRES: 1, 3
SCR (AMPS): 10,000
SOURCE: UTILITY

PANEL BUS: 400 AMPS
MAIN: 400A BREAKER
TOTAL LOAD: 73.0 KVA

SERVICE RATED: YES
NEUTRAL: BONDED
MOUNTING: SURFACE
FEED: TOP/BOTTOM

DESCRIPTION	KVA	CB	CKT	A	B	CKT	CB	KVA	DESCRIPTION
HOUSE 1	1.86	30/2	1	31.0		2	30/2	1.86	HOUSE 10
HOUSE 1	1.86	30/2	3		31.0	4	30/2	1.86	HOUSE 10
HOUSE 2	1.86	30/2	1	31.0		2	30/2	1.86	HOUSE 11
HOUSE 2	1.86	30/2	3		31.0	4	30/2	1.86	HOUSE 11
HOUSE 3	1.86	30/2	5	31.0		6	30/2	1.86	HOUSE 12
HOUSE 3	1.86	30/2	7		31.0	8	30/2	1.86	HOUSE 12
HOUSE 4	1.86	30/2	9	31.0		10	30/2	1.86	HOUSE 13
HOUSE 4	1.86	30/2	11		31.0	12	30/2	1.86	HOUSE 13
HOUSE 5	1.86	30/2	13	31.0		14	30/2	1.86	HOUSE 14
HOUSE 5	1.86	30/2	15		31.0	16	30/2	1.86	HOUSE 14
HOUSE 6	1.86	30/2	17	31.0		18	30/2	1.86	HOUSE 15
HOUSE 6	1.86	30/2	19		31.0	20	30/2	1.86	HOUSE 15
HOUSE 7	1.86	30/2	25	31.0		26	30/2	1.86	HOUSE 16
HOUSE 7	1.86	30/2	27		31.0	28	30/2	1.86	HOUSE 16
HOUSE 8	1.86	30/2	29	31.0		30	30/2	1.86	HOUSE 17
HOUSE 8	1.86	30/2	31		31.0	32	30/2	1.86	HOUSE 17
HOUSE 9	1.86	30/2	33	31.0		34	30/2	1.86	HOUSE 18
HOUSE 9	1.86	30/2	35		31.0	36	30/2	1.86	HOUSE 18
WATER HEATER (FUTURE)	2.50	30/2	37	27.1		38	20/1	0.75	SITE LIGHTS
WATER HEATER (FUTURE)	2.50	30/2	39		22.9	40	20/1	0.25	RESTROOM (FUTURE)
TOTALS	306.1			301.9				AMPS	

GOOD NEWS RESCUE MISSION SHELTER

VOLTAGE: 120/240
PHASE WIRES: 1, 3
SCR (AMPS): 10,000
SOURCE: UTILITY

PANEL BUS: 60 AMPS
MAIN: 60A LUGS
TOTAL LOAD: 3.4 KVA

SERVICE RATED: YES
NEUTRAL: BONDED
MOUNTING: SURFACE
FEED: TOP/BOTTOM

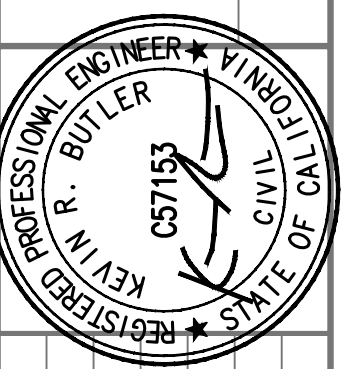
DESCRIPTION	KVA	CB	CKT	A	B	CKT	CB	KVA	DESCRIPTION
LIGHTING/RECT	0.36	15/1	1	15.5		2	20/2	1.50	MINI SPLIT
SMOKE DECTORS	0.03	15/1	3		12.8	4	20/2	1.50	MINI SPLIT
TOTALS	15.5			12.8				AMPS	

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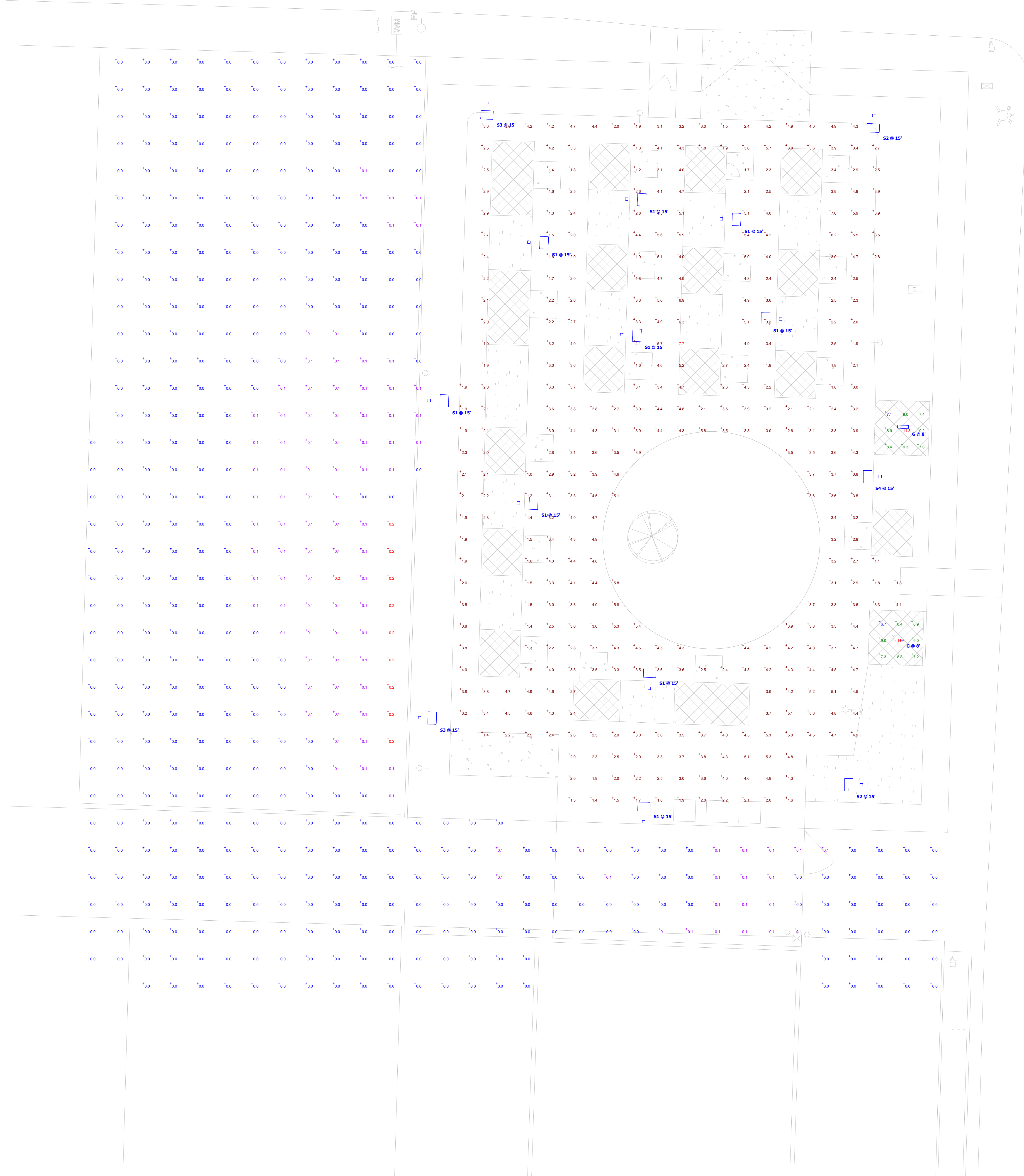
GNRM - MICRO SHELTER PROJECT
APN 104-070-028
1411 SPRUCE STREET
REDDING, CALIFORNIA

ELECTRICAL PANELS & CALCULATIONS



NO.	DATE	REVISIONS
0	12/30/22	APPROVED FOR PERMIT
1	05/05/23	C.O.R. PLAN CHECK COMMENTS DATED 03/03/23
2	05/09/23	UNIT COUNT UPDATE
3	05/19/23	REV UPDATES
4	07/13/23	C.O.R. PLAN CHECK COMMENTS DATED 06/23/23

DATE ISSUED: 12/30/22
SHEET NUMBER: E0.2
JOB NUMBER: 22.200



Plan View
Scale - 1" = 8ft

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	Input Power	Polar Plot
	S1		9	Lithonia Lighting	DSX0 LED P2 40K 80CRI BLC4	D-Series Size 0 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Type 4 Extreme Backlight Control	1	4260	45.14	 Max: 4012cd
	S2		2	Lithonia Lighting	DSX0 LED P2 40K 80CRI LCCO	D-Series Size 0 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Left Corner Cutoff Extreme Backlight Control	1	4162	45.14	 Max: 6443cd
	S3		2	Lithonia Lighting	DSX0 LED P2 40K 80CRI RCCO	D-Series Size 0 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Right Corner Cutoff Extreme Backlight Control	1	4162	45.14	 Max: 6443cd
	S4		1	Lithonia Lighting	DSX0 LED P2 40K 80CRI T4M	D-Series Size 0 Area Luminaire P2 Performance Package 4000K CCT 80 CRI Type 4 Medium	1	5755	45.14	 Max: 4604cd
	G		2	BEGHELLI	BS100LED 2HT LO 40K	BS100LED 2HT LO 40K 2FT	180	32	30	 Max: 2033cd

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
GAZEBO	+	8.7 fc	11.3 fc	7.1 fc	1.6:1	1.2:1
GAZEBO	+	8.3 fc	11.3 fc	6.7 fc	1.7:1	1.2:1
SITE AREA	+	3.4 fc	7.7 fc	1.0 fc	7.7:1	3.4:1
SPILL	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A

DISCLAIMER
Photometric analyses performed by CJS LIGHTING are intended for information and/or estimation purposes only. Using industry-recognized software, calculations correspond to the information provided to CJS Lighting, and are subject to the limitations of the software. Assumptions made for the information that is not provided or available. It is the responsibility of the end-user to verify that the input data is consistent with actual field conditions. Performance may differ as a result of end-user environment and application. Due to the above considerations, CJS LIGHTING does not guarantee that actual light levels measured in the field will match initial calculations and recommends that drawings be submitted to a certified electrical engineer for verification.