

1 VIEW FROM THE SOUTHWEST

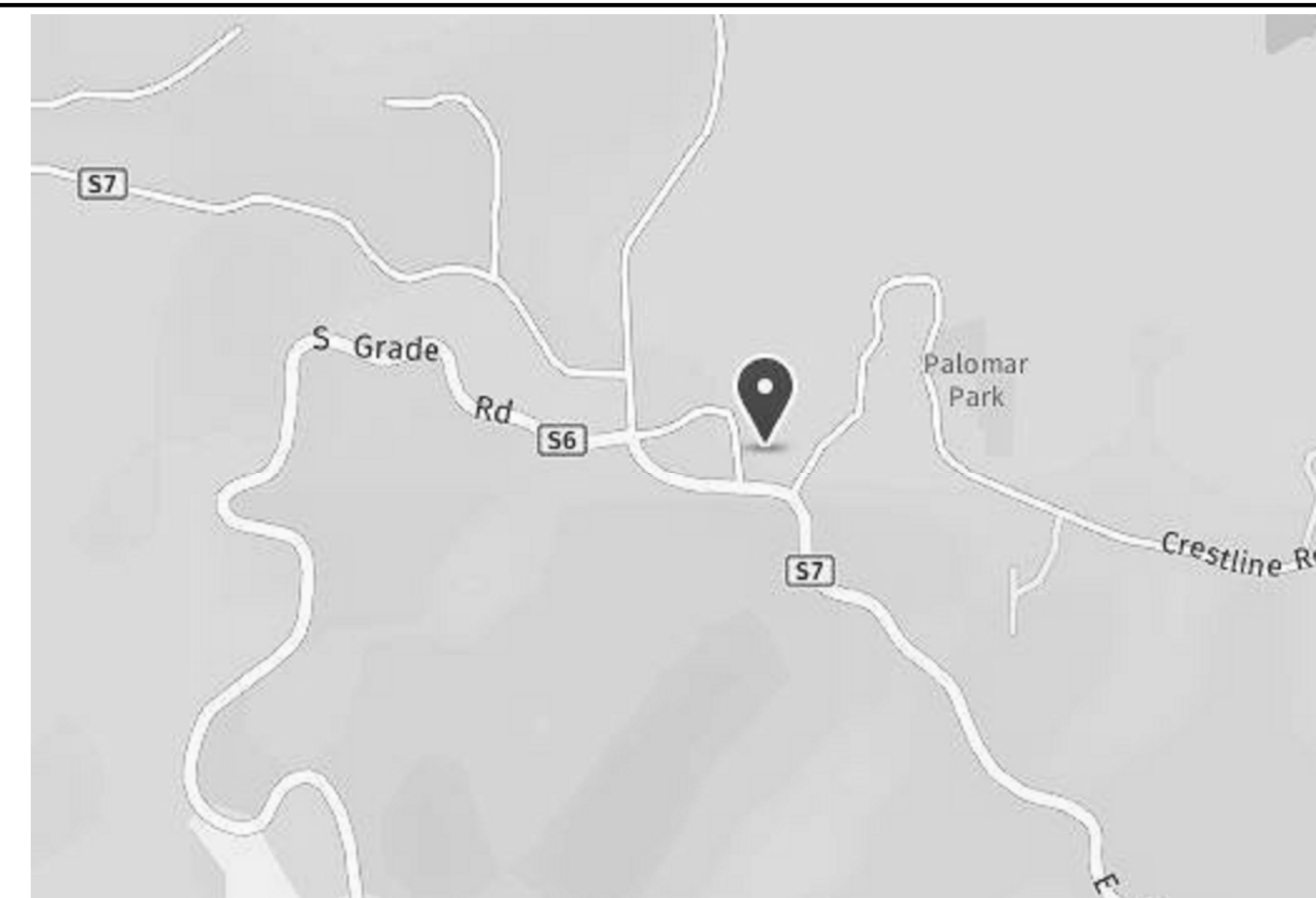
PROJECT DESCRIPTION

- Construct An approximately 2,000 square foot conventionally framed Living Quarters Building for 4 to 6 firefighters.
- Retrofit existing restrooms within the Community Center into a single ADA compliant restroom
- Upgrade existing office inside Fire Station including paint, flooring lighting and air conditioning and heating. Provide ADA ccompliant entrance door.
- Provide paved surface parking, with 5 spaces at the Living Quarters and 2 spaces at the Community Center, including one ADA compliant space with a Path of Travel (POT) to the ADA restroom within the building and POT to the office within the Fire Station.
- Provide a 20 foot wide concrete paved fire access lane around the east side of the existing Fire Station. Extend the 20 foot wide drive from the south edge of the departure apron to connect with East Grade Road. The driveway apron shall meet all County standards and incorporate the drainage patterns of E. Grade Road.
- Provide a diesel fuel emergency generator.
- Fencing repairs at chain link fence at north side of property, approximately 125 feet of fencing
- Integrated Building Automation Systems (BAS) includes HVAC, lighting, utility metering, and on-site energy generation. Metering will meet the County Standards and the BAS system will tie into the County system.

GOVERNING STANDARDS

2016 California Building Code
 County of San Diego SUSMP
 County of San Diego Hydrology Manual
 San Diego Regional Standard Drawings (Current Edition)
 Standard Specifications for Public Works Construction (Greenbook, Current Edition)

VICINITY MAP



PROJECT DIRECTORY

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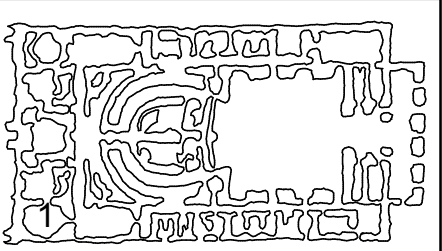
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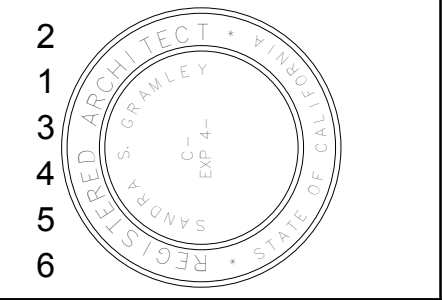
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Coversheet
 FS 79 Living Quarters
 County of San Diego
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DATE	07/23/2019
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JOB	Project Number

REVISIONS	
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SHEET	G-001
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FIRE STATION 79 LIVING QUARTERS

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE COUNTY OF SAN DIEGO "BMP DESIGN MANUAL" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND FOR PERMANENT POST CONSTRUCTION TREATMENT CONTROL PERMANENT BMP'S, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

DISABLED ACCESS NOTES

ALL GRADES SHOWN ON THESE PLANS WERE DESIGNED IN COMPLIANCE WITH THE 2016 CALIFORNIA BUILDING CODE (CBC) AND THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA) TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE CONTRACTORS' RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THESE CODES. SHOULD A DESIGN QUESTION ARISE OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT FROM THESE PLANS, WORK SHALL CEASE AND THE CIVIL ENGINEER BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO CBC AND ADA ACCESS FOR THIS PROJECT. CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS DEFINED BY CBC AND ADA ARE SUBJECT TO REJECTION AND MAY BE REQUIRED TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S SOLE COST. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE CONTRACTOR OR THEIR SUB-CONTRACTORS DURING CONSTRUCTION, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF ADA-RELATED ITEMS BY THE AGENCY HAVING JURISDICTION, ANY OTHER AUTHORITY, OR OTHER AFFECTED PARTIES.

PRELIMINARY GRADING QUANTITIES

GRADED AREA	0.38 [ACRES]	MAX. CUT DEPTH	10.0 [FT]
CUT QUANTITIES	1,500 [CYD]	MAX CUT SLOPE RATIO (2:1MAX)	2:1
FILL QUANTITIES	0 [CYD]	MAX. FILL DEPTH	2.0 [FT]
EXPORT	1,500 [CYD]	MAX FILL SLOPE RATIO (2:1MAX)	2:1

EARTHWORK QUANTITIES DO NOT REFLECT ANY SPECIAL CONDITIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION AND ARE FOR REFERENCE ONLY. SINCE THE ENGINEER CANNOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITION OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL EARTHWORK QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THEIR OWN EARTHWORK QUANTITIES FOR BIDDING, CONTRACT AND CONSTRUCTION PURPOSES.

SPECIAL NOTES

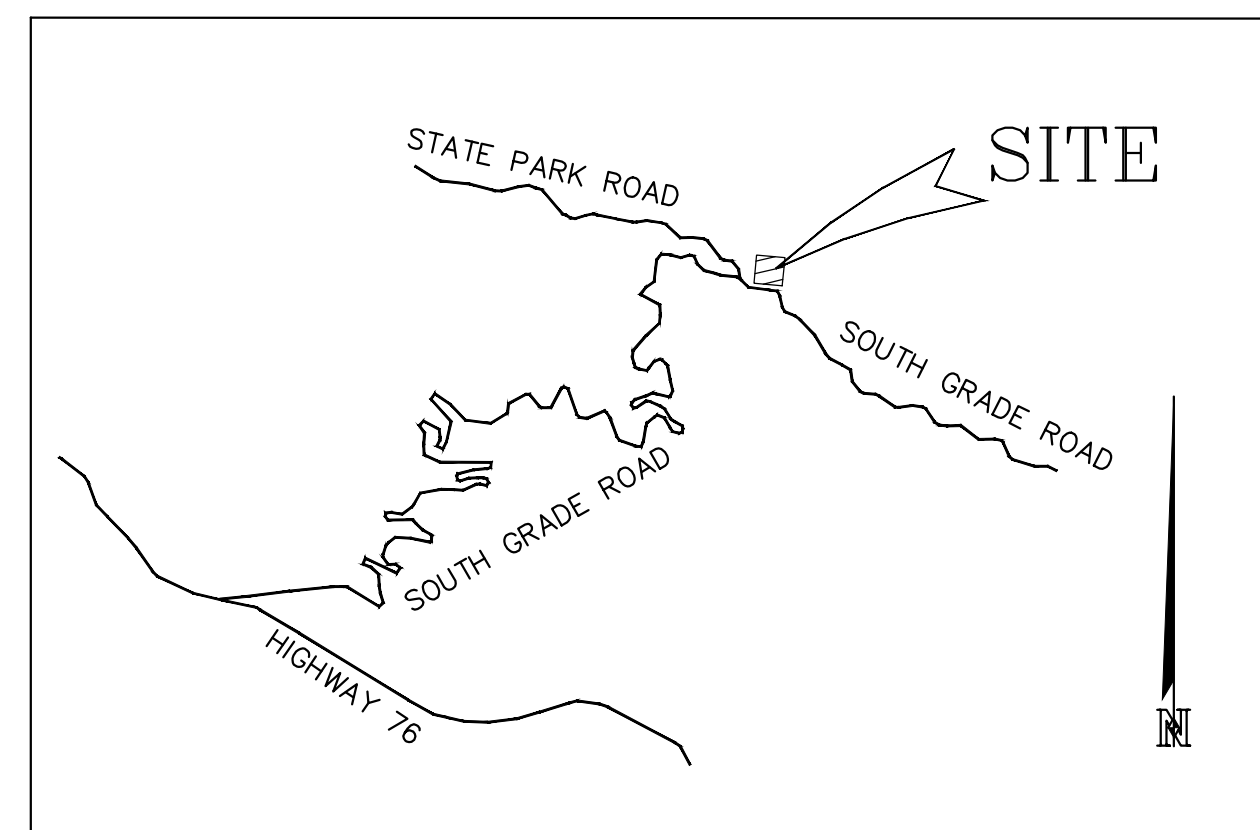
THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE COUNTY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE 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 CONTRACTORS SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ENGINEER AND GEOLOGIST HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROPERTY, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE AND MAKE EXPLORATORY EXCAVATIONS SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISION OF THE CONSTRUCTION PLANS IF IT IS FOUND THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. HE SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE.
- NASLAND ENGINEERING WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY NASLAND ENGINEERING.
- WORK PERFORMED WITHOUT BENEFIT OF TESTING AND/OR INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
- THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES THAT MAY NOT BE SHOWN.
- ALL GRADES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE AMERICANS WITH DISABILITY ACT (A.D.A.) IT IS CONTRACTORS' RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE DISABILITY ACT GUIDELINES (A.D.A.A.G.) IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT FROM THOSE SHOWN ON THESE PLANS, WORK SHALL CEASE AND THE ENGINEER SHALL BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO A.D.A.A.G. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY A.D.A.A.G. ARE SUBJECT TO REJECTION AND MAY BE REQUIRED TO BE REMOVED AND REPLACED, AT THE CONTRACTORS' EXPENSE.
- SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUBCONTRACTORS DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER OR SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF A.D.A.A.G. RELATED ITEMS BY THE CITY, ANY OTHER AUTHORITY, OR OTHER AFFECTED PARTIES.

PROPERTY LINE NOTE:

THE PROPERTY LINE AND RIGHT OF WAY INFORMATION WAS OBTAINED FROM THE LEGAL DESCRIPTION OF THE SITE AND TIED INTO SOME OF THE CORNER MONUMENTS BUT ONLY REPRESENTS AN APPROXIMATION OF ITS EXACT LOCATION. NO PROPERTY BOUNDARY WAS PERFORMED BY NASLAND AT THIS TIME.

PROPERTY LINE AND RIGHT OF WAY LINE AS SHOWN IS FOR REFERENCE ONLY.



VICINITY MAP
NO SCALE

LEGEND

ITEM	SYMBOL
EXISTING CONTOUR	340
EXISTING BACKFLOW PREVENTER	BFP
EXISTING ELECTRICAL RISER	■
EXISTING COMMUNICATIONS RISER	■
EXISTING ELECTRIC PULLBOX	□ EPB
EXISTING FIRE HYDRANT	⊕
EXISTING GAS VALVE	⊗
EXISTING GUARD POST	⊙ GP
EXISTING STANDARD LIGHT	☆
EXISTING SEWER CLEANOUT	⊙ sCO
EXISTING SEWER MANHOLE	⊙ SSMH
EXISTING SIGN	▲
EXISTING WATER VALVE	⊙ WV
EXISTING WATER METER	⊙
EXISTING IRRIGATION EQUIPMENT	⊙
EXISTING FENCE	— X —
PROPOSED TRUNCATED DOMES	⊠
PROPOSED PCC HEAVY DUTY PAVEMENT	■
PROPOSED GRAVEL PARKING	■
PROPOSED PCC SIDEWALK	■
LIMITS OF PROPOSED RIP-RAP	■
PROPOSED WATER LATERAL	— W —
PROPOSED SEWER LATERAL	— S —
PROPOSED MASONRY WALL	—
PROPOSED BROW DITCH	—
PROPOSED CONTOUR	340

ABBREVIATIONS

FF = FINISHED FLOOR
FS = FINISHED SURFACE
EG = EXISTING GRADE
TG = TOP OF GRATE
TW = TOP OF WALL
() = EXISTING ELEVATION
PL = PROPERTY LINE
RW = RIGHT OF WAY LINE

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COVER SHEET

FIRE STATION 79 LIVING QUARTERS

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SHEET

C-001

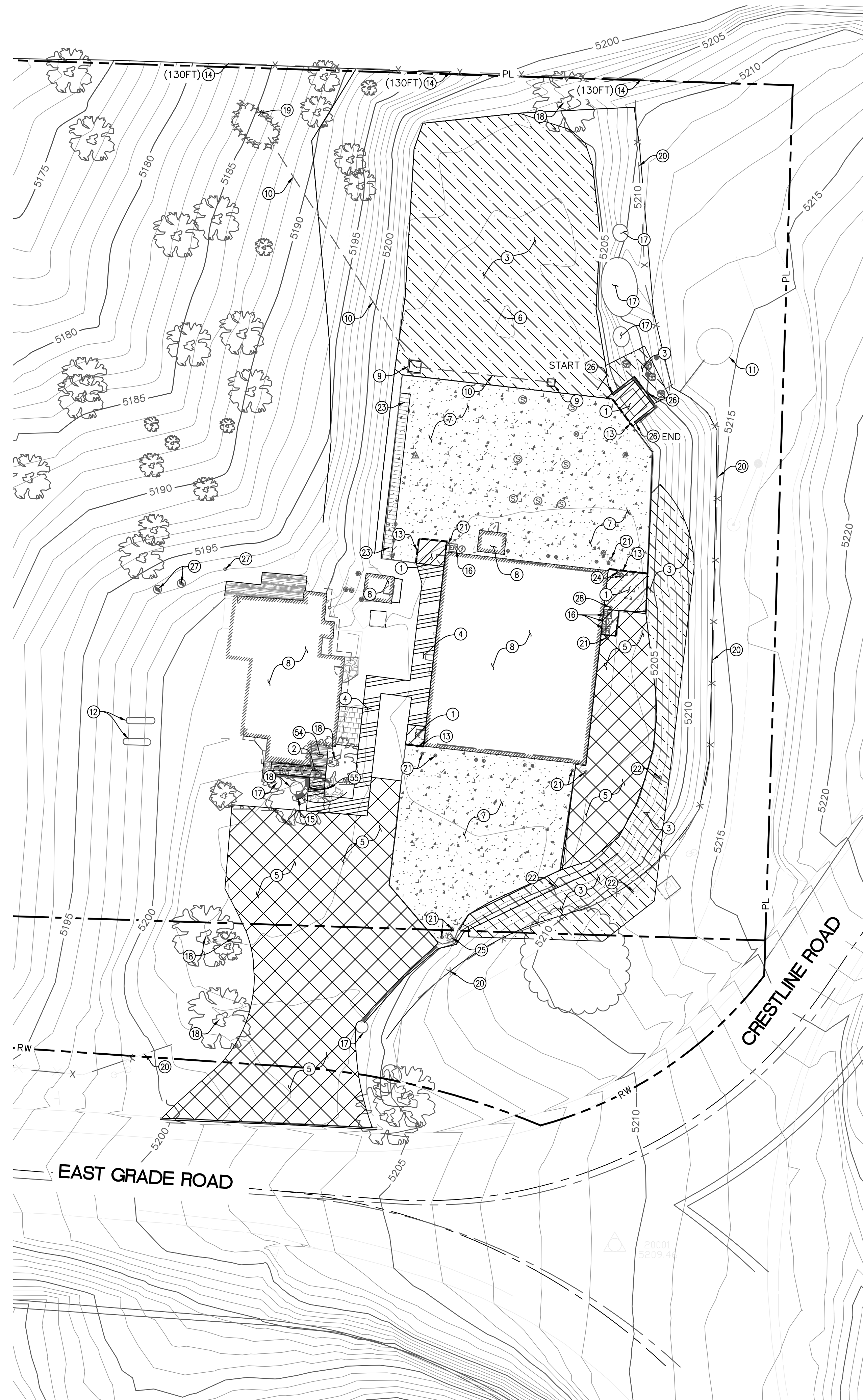
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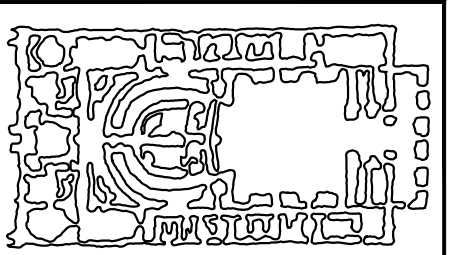
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CONSTRUCTION NOTES

- ① CONTRACTOR TO REMOVE CONCRETE PAVEMENT AND BASE TO SUBGRADE.
- ② CONTRACTOR TO REMOVE VINYL/ WOOD WALKWAY.
- ③ CLEAR AND GRUB EXISTING DIRT AREA FOR EARTHWORK.
- ④ CONTRACTOR TO REMOVE EXISTING ASPHALT FOR INSTALLATION OF PCC SIDEWALK.
- ⑤ CONTRACTOR TO REMOVE EXISTING ASPHALT AND GRAVEL SURFACE FOR INSTALLATION OF PCC DRIVE.
- ⑥ EXISTING TREE INCLUDING ROOT SYSTEM TO BE REMOVED AND PROPERLY DISPOSED OF.
- ⑦ PROTECT EXISTING CONCRETE PAVEMENT IN PLACE.
- ⑧ PROTECT EXISTING BUILDING IN PLACE.
- ⑨ EXISTING CATCH BASIN TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ EXISTING STORMDRAIN LINE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑪ EXISTING WATER TANK TO REMAIN AND BE PROTECTED IN PLACE.
- ⑫ EXISTING SEPTIC TANK TO REMAIN AND BE PROTECTED IN PLACE.
- ⑬ SAWCUT EXISTING PCC. - - - -
- ⑭ CONTRACTOR TO REMOVE AND REPLACE DAMAGED CHAINLINK FENCE. CONTRACTOR TO FIELD VERIFY AND MATCH EXISTING HEIGHT OF FENCE.
- ⑮ PROTECT EXISTING HISTORIC ROCK WALL IN PLACE.
- ⑯ PROTECT EXISTING ELECTRICAL RISER IN PLACE.
- ⑰ EXISTING BOULDER TO REMAIN AND BE PROTECTED IN PLACE.
- ⑱ PROTECT EXISTING TREE IN PLACE.
- ⑲ EXISTING RIP-RAP TO REMAIN PROTECTED IN PLACE.
- ⑳ EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
- ㉑ EXISTING BOLLARD TO REMAIN AND BE PROTECTED IN PLACE.
- ㉒ EXISTING SIGN TO BE REMOVED AND SALVAGED FOR RELOCATION.
- ㉓ EXISTING FIRE HOSE RACK TO REMAIN AND BE PROTECTED IN PLACE.
- ㉔ EXISTING VALVES TO REMAIN AND BE PROTECTED IN PLACE.
- ㉕ EXISTING FIRE DEPARTMENT CONNECTION UTILITY TO REMAIN AND BE PROTECTED IN PLACE.
- ㉖ EXISTING WALL TO BE REMOVED.
- ㉗ EXISTING LEACH FIELD TO REMAIN AND BE PROTECTED IN PLACE.
- ㉘ EXISTING BOLLARD TO BE REMOVED AND SALVAGED FOR RELOCATION.
- ㉙ PROTECT EXISTING VINYL/ WOOD WALKWAY AT DOORWAY ENTRANCE.
- ㉚ REMOVE EXISTING STONE STEPS.



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EXISTING CONDITIONS / SITE
DEMOLITION PLAN

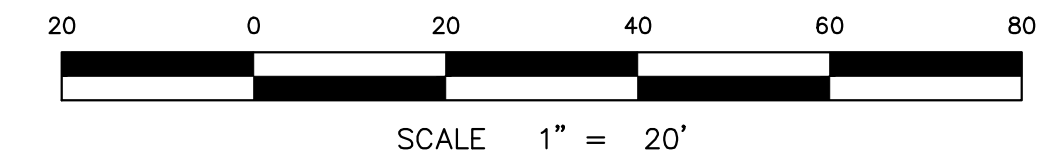
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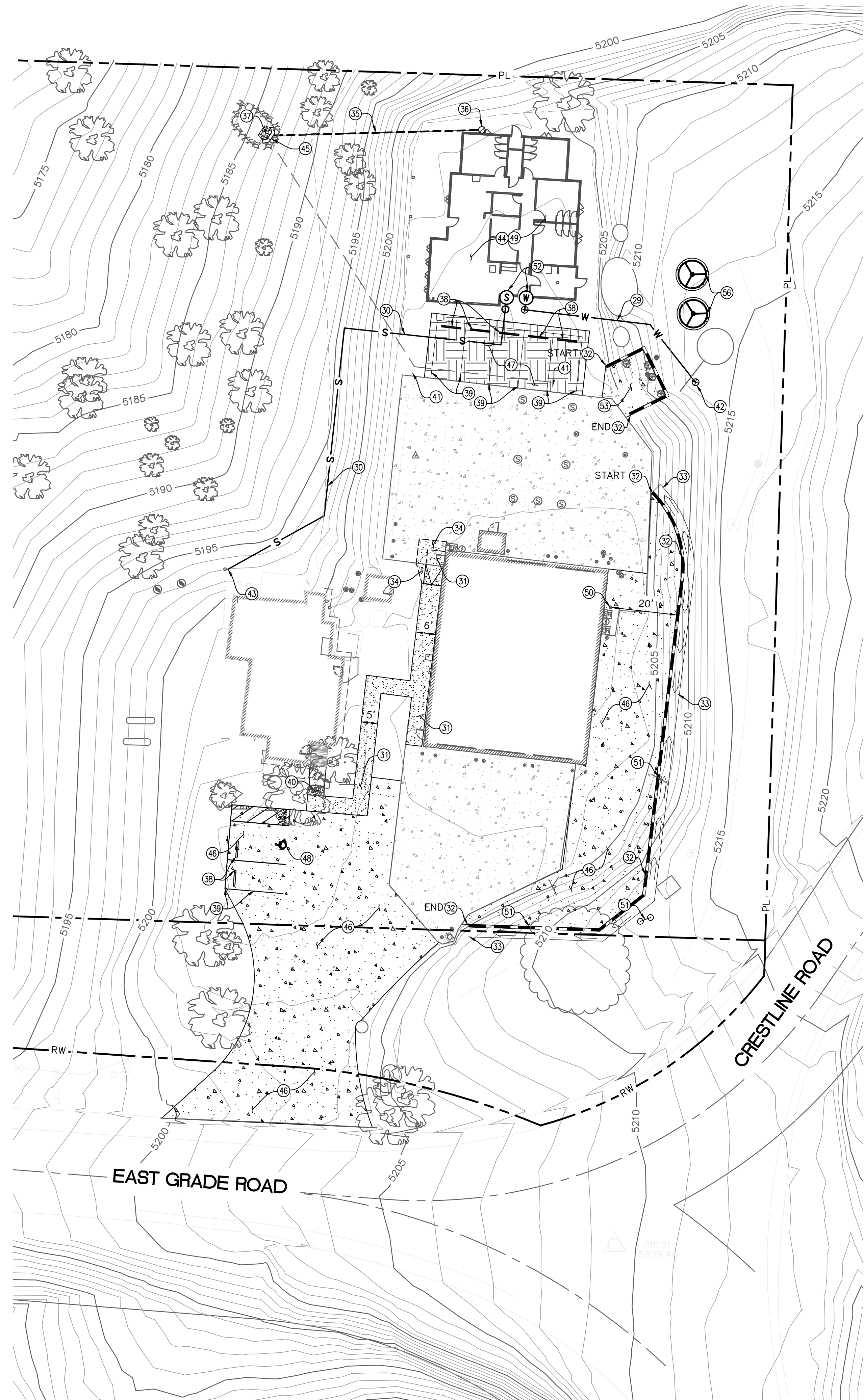
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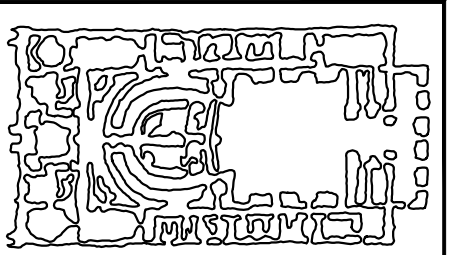
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CONSTRUCTION NOTES

- 29) INSTALL 1" PVC WATER LINE. — W — W —
- 30) INSTALL 4" PVC SEWER LINE. — S — S —
- 31) CONSTRUCT 4.5" CONCRETE SIDEWALK WITH REINFORCEMENT, NO.3 BAR 18" O.C. BOTH DIRECTIONS.
- 32) CONSTRUCT TYPE 2 MASONRY RETAINING WALL PER SDRSD C-02.
- 33) CONSTRUCT TYPE B BROW DITCH PER SDRSD D-75.
- 34) CONSTRUCT WARPED CONCRETE RAMP TO CONNCT THE ADA PATH OF TRAVEL TO EXISTING CONCRETE. SLOPED AT 5:1 MAX TO MATCH EXISTING.
- 35) INSTALL 6" PVC STORM DRAIN. — — — —
- 36) CONNECT ROOF DRAIN TO PROPOSED 50 GALLON RAIN BARREL.
- 37) INSTALL 1/4 TON RIP-RAP ENERGY DISSIPATER PER SDRSD D-40.
- 38) INSTALL CONCRETE WHEEL STOP PER SAN DIEGO COUNTY PARKING DESIGN MANUAL.
- 39) PAINT 4" WIDE TRAFFIC WHITE STRIPING. SEE PLAN FOR DIMENSIONS.
- 40) INSTALL YELLOW ARMOR TILE OR APPROVED EQUAL CAST IN PLACE DETECTABLE WARNING SURFACE.
- 41) PAINT STORM DRAIN INLET STENCIL PER THE COUNTY OF SAN DIEGO BMP DESIGN MANUAL.
- 42) CONNECT TO EXISTING 1" WATER LINE.
- 43) CONNECT PROPOSED SEWER LATERAL TO EXISTING SEPTIC STUB.
- 44) REMEDIAL GRADING FOR BUILDING PAD PER GEOTECHNICAL RECOMMENDATIONS.
- 45) INSTALL WING HEADWALL PER SDRSD D-34.
- 46) INSTALL 7.5" THICK HEAVY DUTY PCC PAVEMENT WITH REINFORCEMENT, NO.3 BAR 18" O.C. BOTH DIRECTIONS.
- 47) INSTALL 7.5" OF CRUSHED ROCK LAYER ON TOP OF COMPACTED NATIVE SOIL.
- 48) ADA VAN ACCESSIBLE STALL STRIPING AND SIGNAGE PER SDRSD M-27A AND M-28B.
- 49) PROPOSED FIRE STATION 79 LIVING QUARTERS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- 50) RE-INSTALL SALVAGED BOLLARD.
- 51) RE-INSTALL SALVAGED SIGN.
- 52) REFER TO MECHANICAL PLANS FOR SEWER AND WATER CONNECTION TO THE PROPOSED BUILDING.
- 53) CONSTRUCT CONCRETE PAD FOR ELECTRICAL GENERATOR.
- 56) INSTALL ABOVE GROUND WATER TANK.



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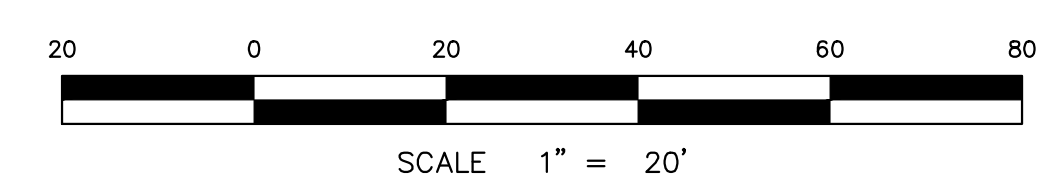
COUNTY OF SAN DIEGO
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SAN DIEGO, CA 92123



**PROPOSED CONDITIONS
SITE IMPROVEMENT PLAN**

FIRE STATION 79 LIVING QUARTERS

DATE	
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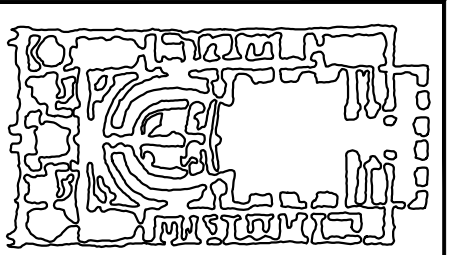
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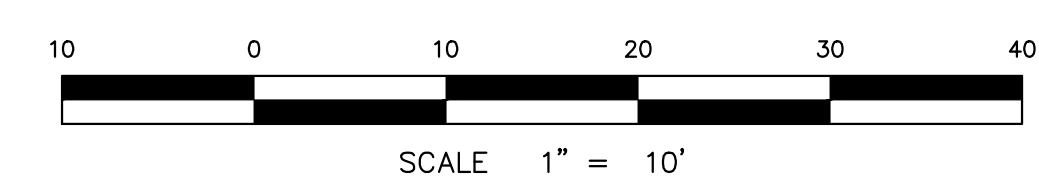
COUNTY OF SAN DIEGO
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 5555 OVERLAND AVE. #2207
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GRADING AND DRAINAGE PLAN
 FIRE STATION 79 LIVING QUARTERS

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SHEET
C-004
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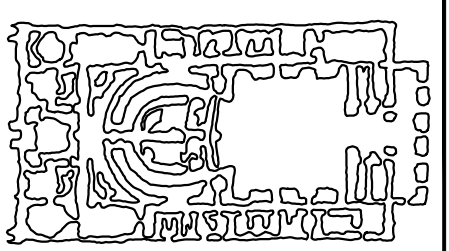
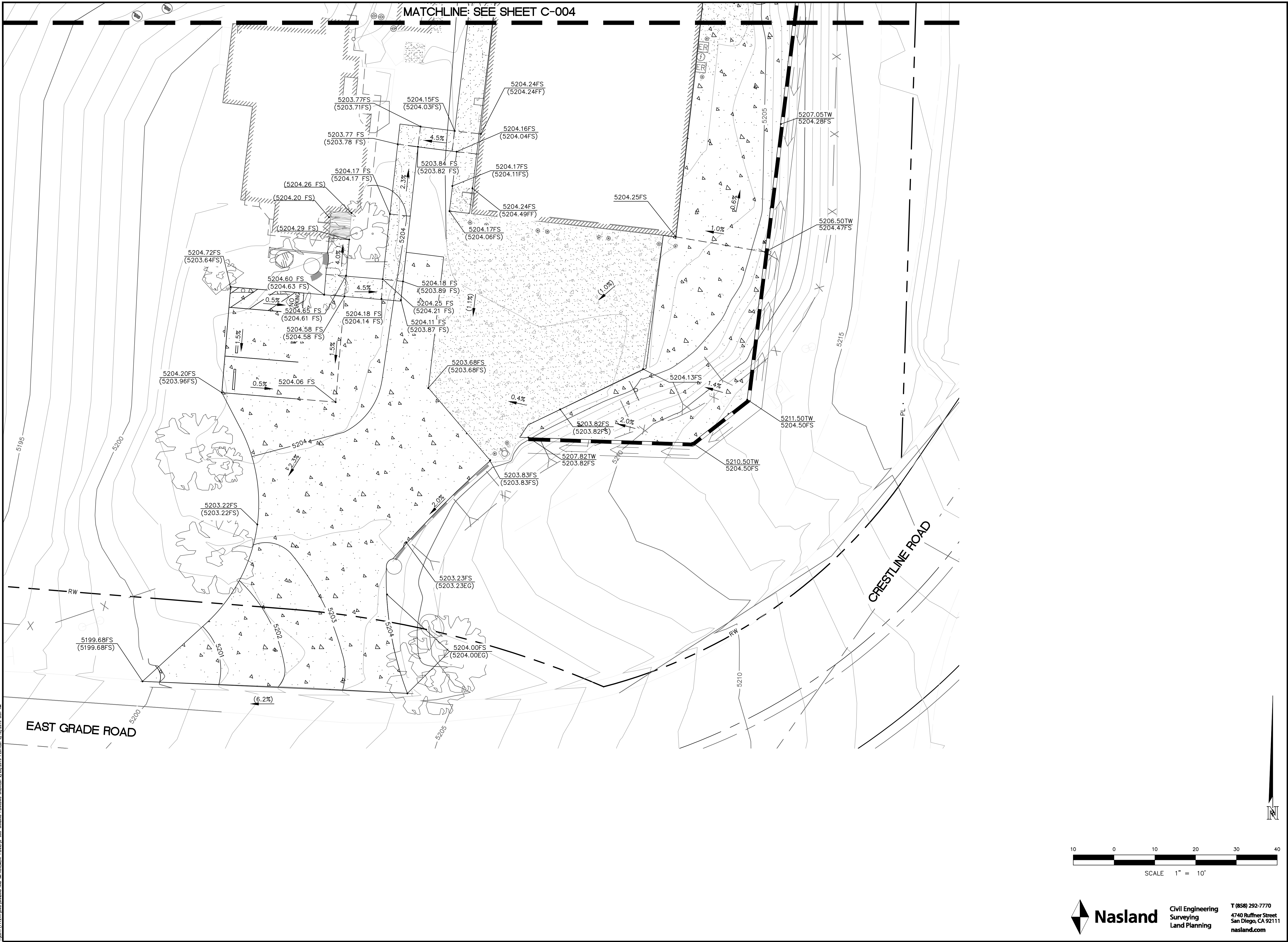


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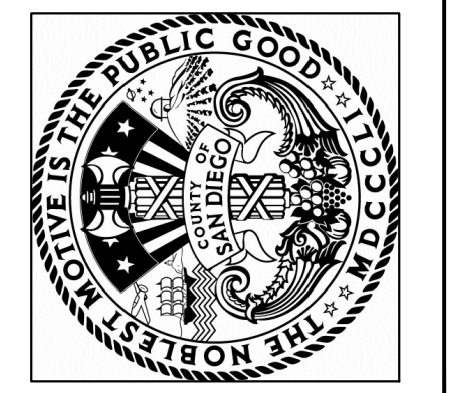
50% Construction Documents February 22, 2019

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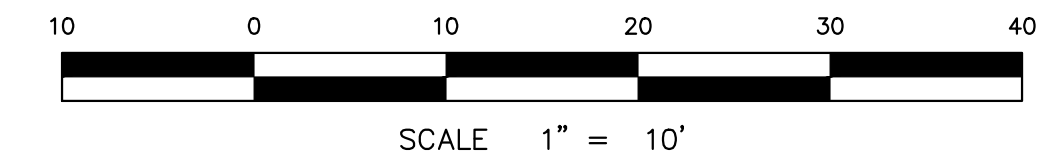
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92114

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GRADING AND DRAINAGE PLAN
FIRE STATION 79 LIVING QUARTERS

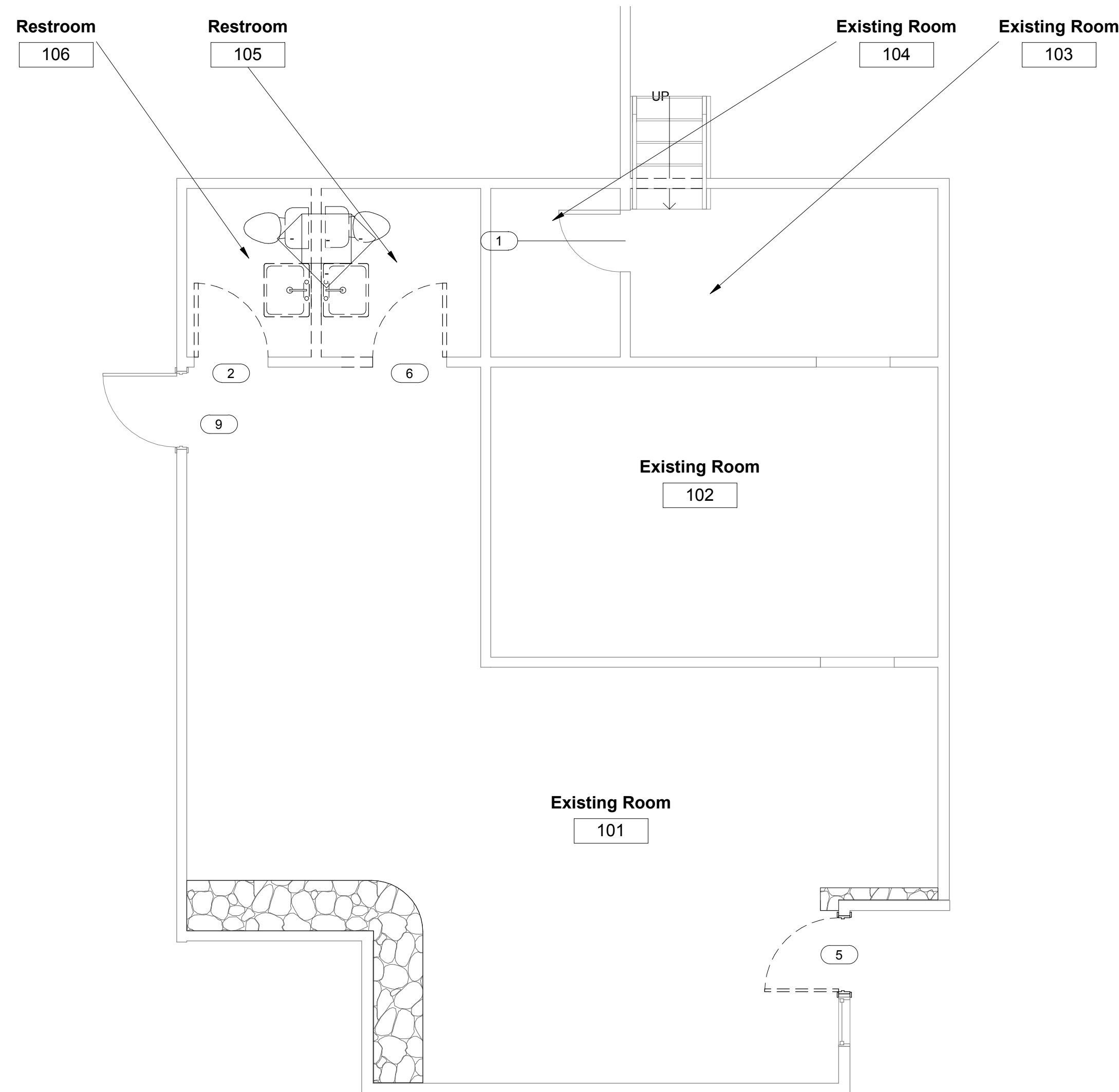
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SHEET	C-005



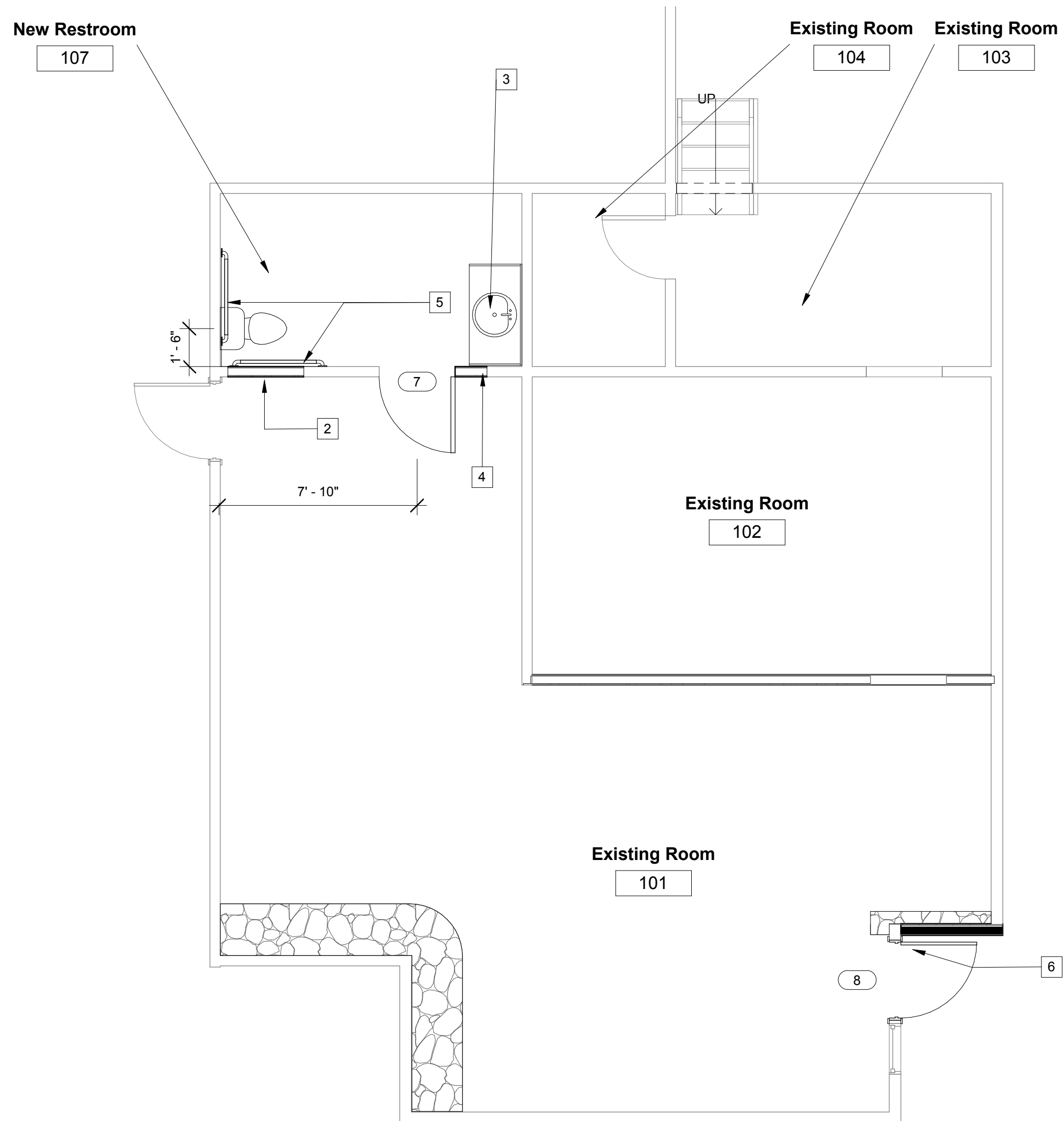
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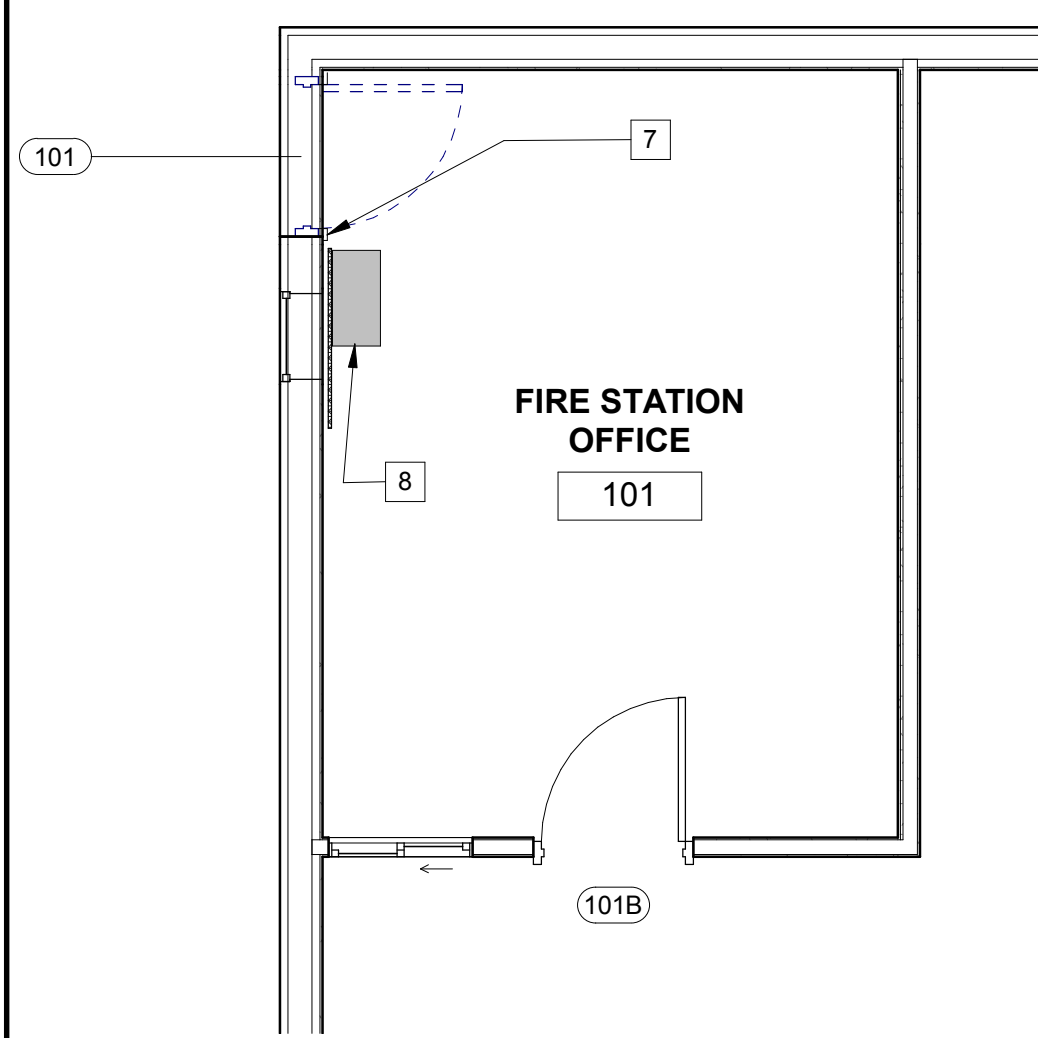
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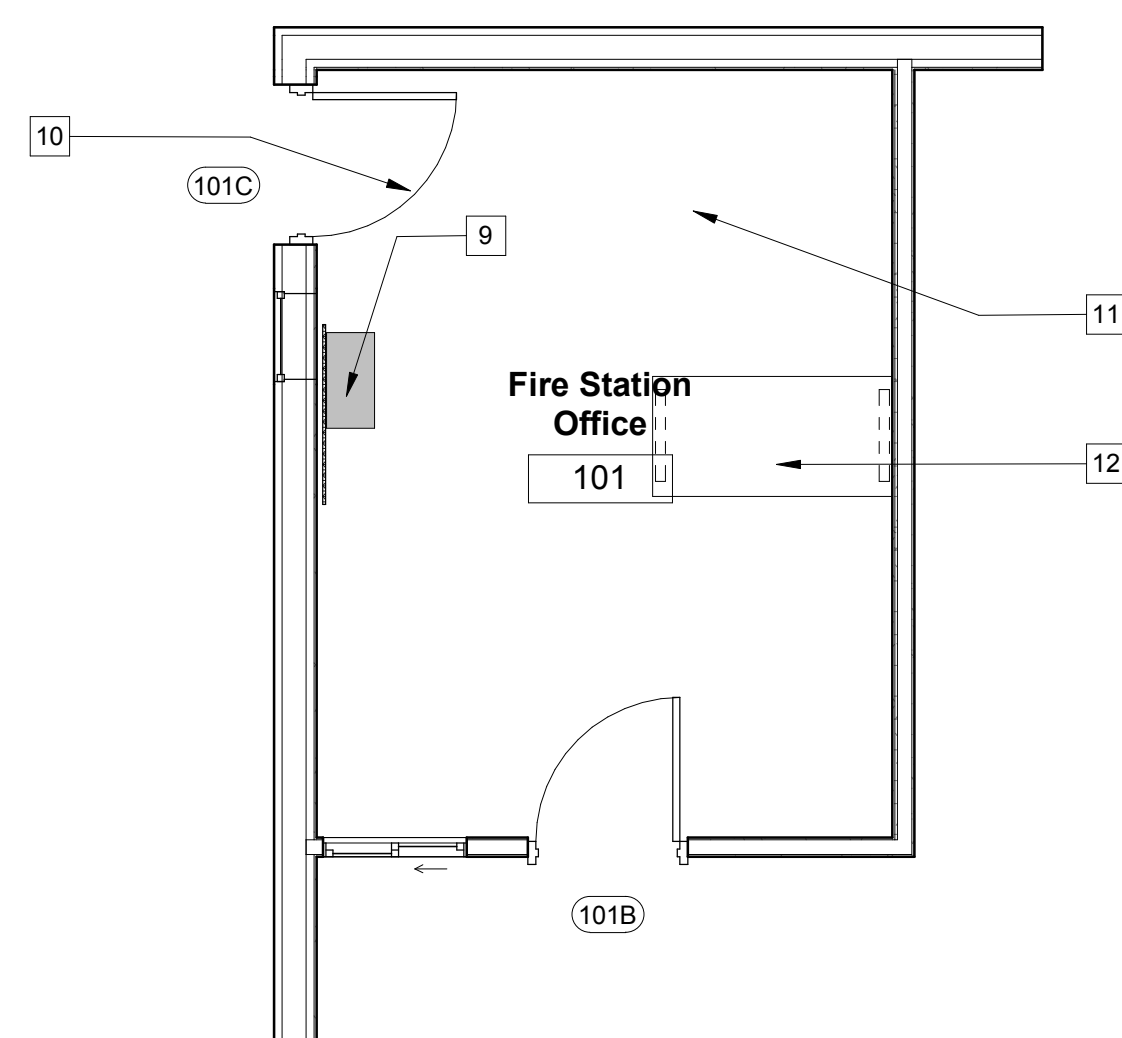
1 Community Building Partial Demolition Plan
1/4" = 1'-0"



2 Community Building Partial Plan
1/4" = 1'-0"



3 Fire Station Office Demolition Plan
1/4" = 1'-0"



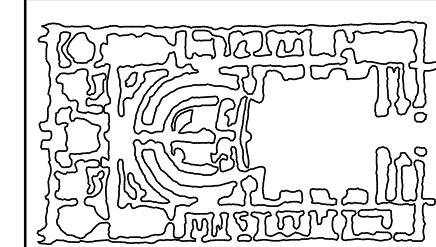
4 Fire Station Office Plan
1/4" = 1'-0"

KEYNOTES

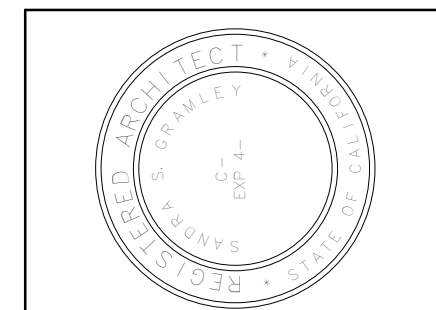
- 2 WALL INFILL AT DEMOED DOOR
- 3 NEW ADA COMPLIANT WALL MOUNTED LAVATORY
- 4 INFILL AND FRAME FOR NEW DOOR AND FRAME
- 5 GRAB BARS
- 6 NEW ENTRY DOOR
- 7 REMOVE CASE TRIM AROUND EXISTING DOOR
- 8 RELOCATE EXISTING COMMUNICATION EQUIPMENT TO ALLOW FOR 24" CLEAR SPACE AT DOOR JAMB
- 9 COORDINATE COMMUNICATION EQUIPMENT AND BOARD WITH FIRE STATION
- 10 PROVIDE NEW INSULATED STEEL DOOR WITH VISION PANEL
- 11 PROVIDE NEW CARPET
- 12 PAINT INTERIOR PAINT ALL GYP BOARD SURFACES

GENERAL NOTES

LEGEND



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Existing Building Access Upgrade

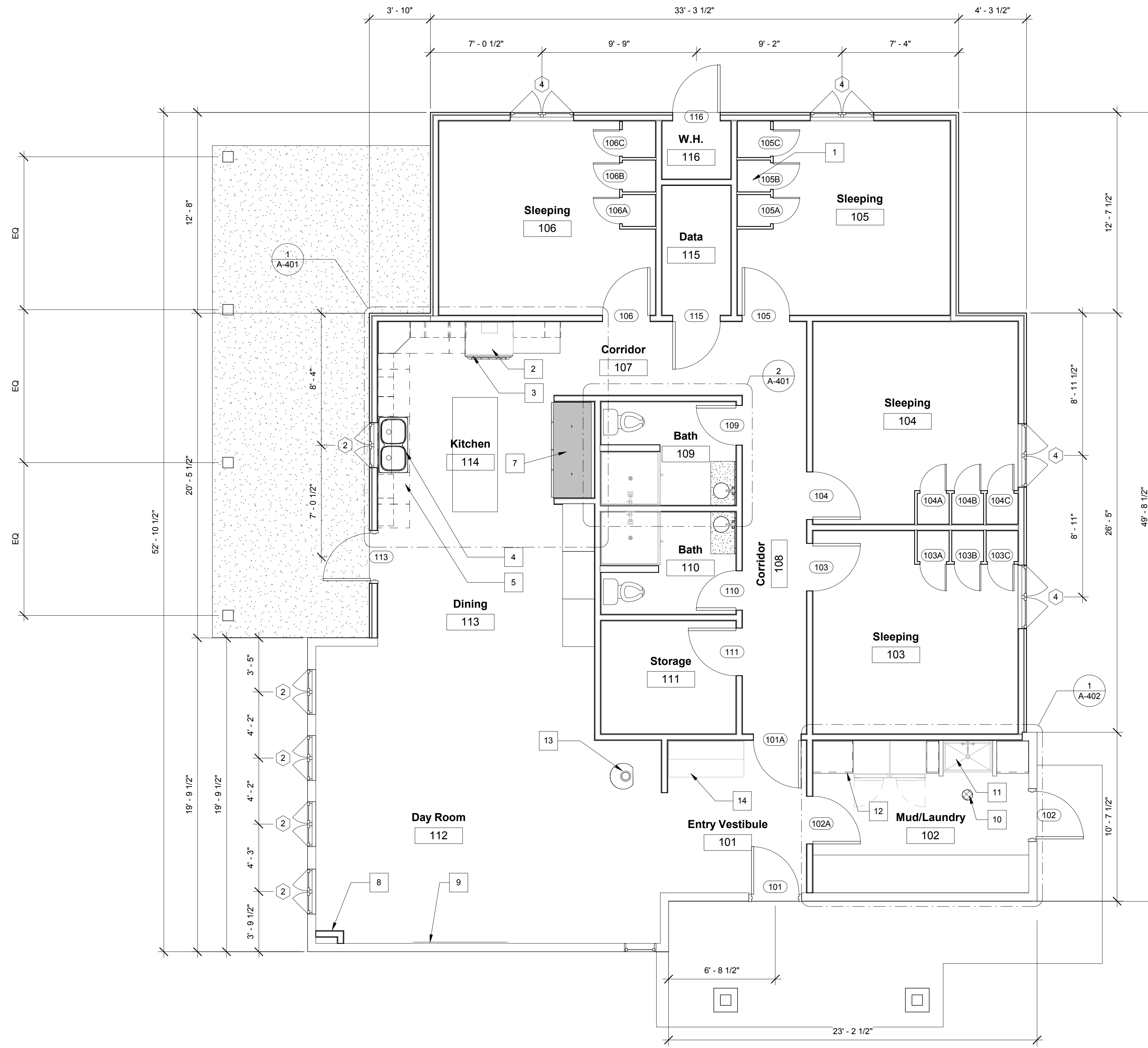
FS 79 Living Quarters
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DATE 02/28/2019
SCALE
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Checker/Author
JOB
Project Number

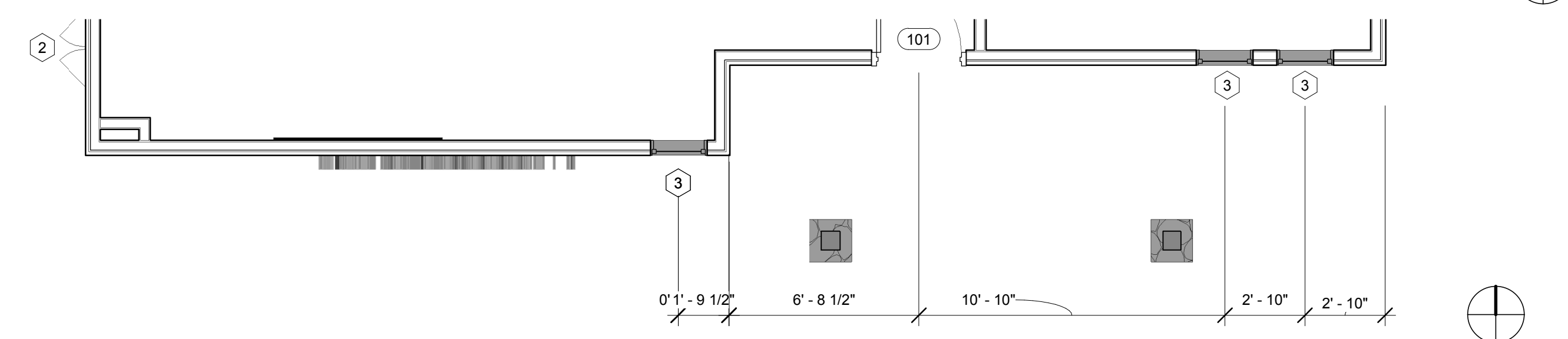
REVISIONS

SHEET

A-101-EB



1 Floor Plan
1/4" = 1'-0"



2 Floor Plan-Partial High Windows
1/4" = 1'-0"

KEYNOTES

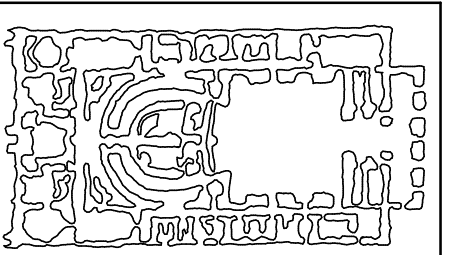
- 1 BUILT-IN WARDROBES TYPICAL ALL SLEEPING ROOMS
- 2 RANGE VENT HOOD (CFCI)
- 3 WOLF 6 BURNER GAS RANGE (CFCI)
- 4 STAINLESS STEEL SINK (CFCI)
- 5 DISHWASHER (CFCI)
- 7 STAINLESS STEEL SINK (CFCI)
- 8 ENTERTAINMENT EQUIPMENT
- 9 60 INCH DIAGONAL FLAT SCREEN TV MOUNTED ON WALL (OFCI)
- 10 FLOOR DRAIN REFER TO PLUMBING
- 11 FLOOR SINK
- 12 WASHER & DRYER (OFCI)
- 13 WOOD BURNING STOVE
- 14 BUILT IN WORK STATION

GENERAL NOTES

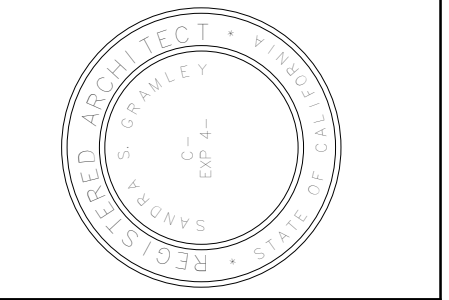
1. SLOPE ALL FLOORS IN BATHROOMS AND MUD/LAUNDRY ROOM 1/8" PER FOOT TO DRAIN
2. SOME ITEMS SHOWN FOR REFERENCE ARE FF&E ITEMS
3. ALL EXTERIOR DIMENSIONS TO THE EDGE OF CURB
4. INTERIOR DIMENSIONS ARE TO THE DEGE OF STUDS
- 5 ALL "CLR" DIMENSIONS ARE FROM FACE OF FINISH U.O.I.N.

LEGEND

- STUCCO ON WOOD STUDS
- STACKED WALL STUCCO OVER STONE VENEER ON WOOD STUDS
- GYPSUM BOARD OVER WOOD STUDS TYPICAL
- WALL TYPES
- WINDOW TYPES PER A-601
- DOOR TYPES PER A-601



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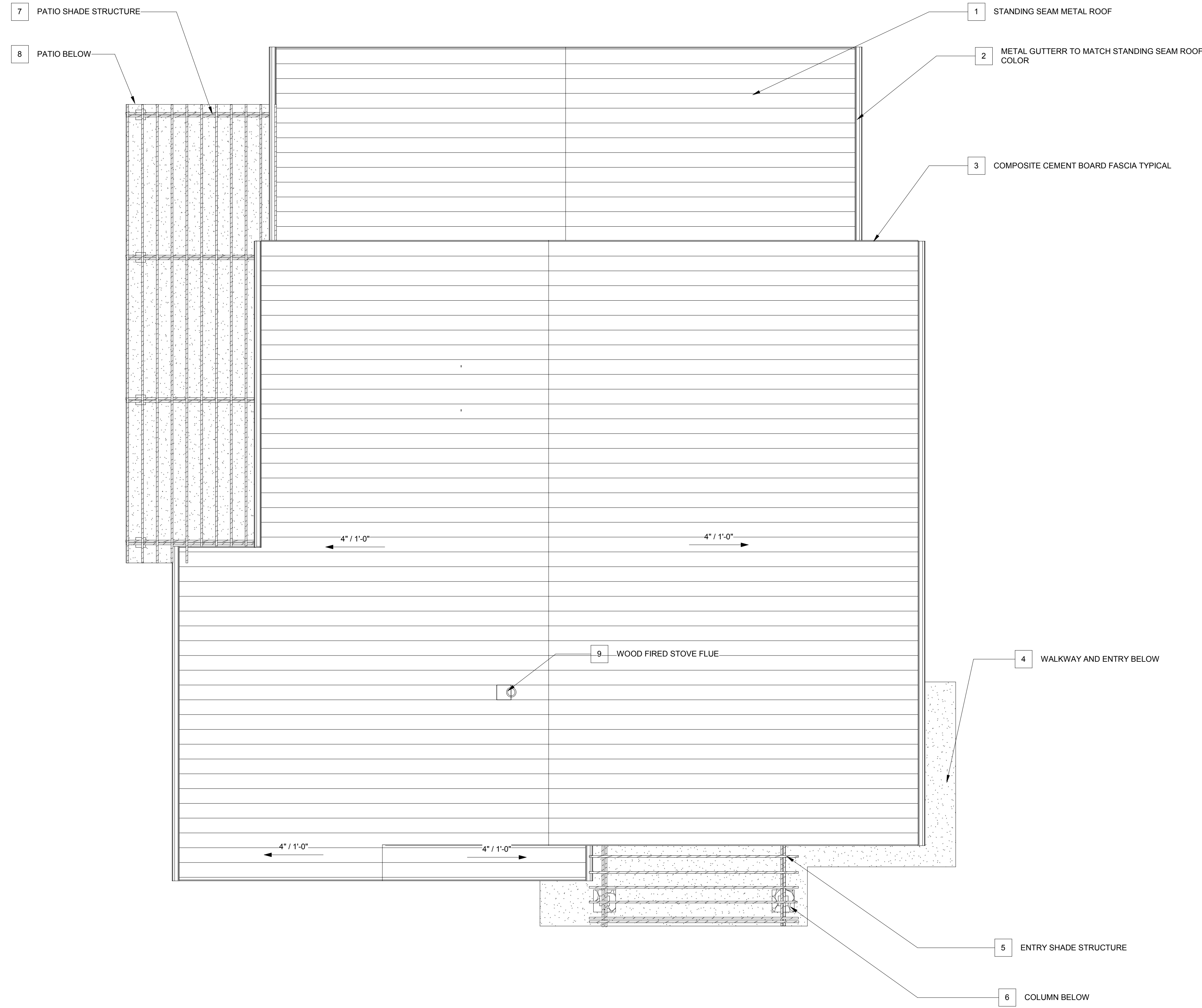
Floor Plan

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CHECKED/DRAWN	Checker Author
JOB	Project Number

REVISIONS	
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SHEET
A-101.



1 Roof Plan
1/4" = 1'-0"

KEYNOTES

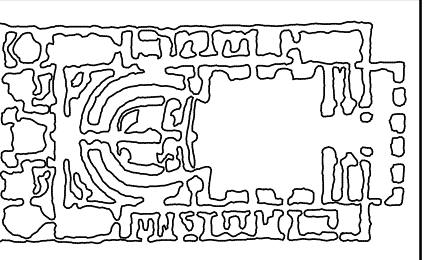
- 1 STANDING SEAM METAL ROOF
- 2 METAL GUTTERR TO MATCH STANDING SEAM ROOF COLOR
- 3 COMPOSITE CEMENT BOARD FASCIA TYPICAL
- 4 WALKWAY AND ENTRY BELOW
- 5 ENTRY SHADE STRUCTURE
- 6 COLUMN BELOW
- 7 PATIO SHADE STRUCTURE
- 8 PATIO BELOW
- 9 WOOD FIRED STOVE FLUE

GENERAL NOTES

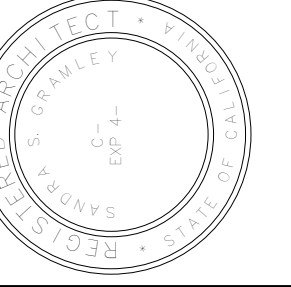
- 1. REFER TO STRUCTURAL DRAWING AND ARCHITECTURAL DETAILS FOR SHADE STRUCTURE CONSTRUCTION
- 2. ROOF SLOPE IS 4" IN 12" UNLESS OTHERWISE NOTED
- 3. ROOF GUTTERS FINISH TO MATCH FASCIA COLOR
- 4. REFER TO BUILDING ELEVATION SHEETS FOR LOCATION OF DOWNSPOUTS
- 5. PATIO AND WALKWAYS SHOWN FOR VISUAL CONTEXT; REFER TO CIVIL AND ARCHITECTURAL FLOOR PLAN FOR DETAIL INFORMATION
- 6. NOT ALL ROOF PENETRATIONS ARE SHOWN. REFER TO PLUMBING PLANS FOR VENT PIPES, COORDINATE LOCATION OF KITCHEN RANGE VENTILATION AND MECHANICAL FOR ANY DIRECT EXHAUST LOCATIONS

LEGEND

- STANDING SEAM METAL ROOF
- WOOD SHADE STRUCTURE



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Roof Plan

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SCALE

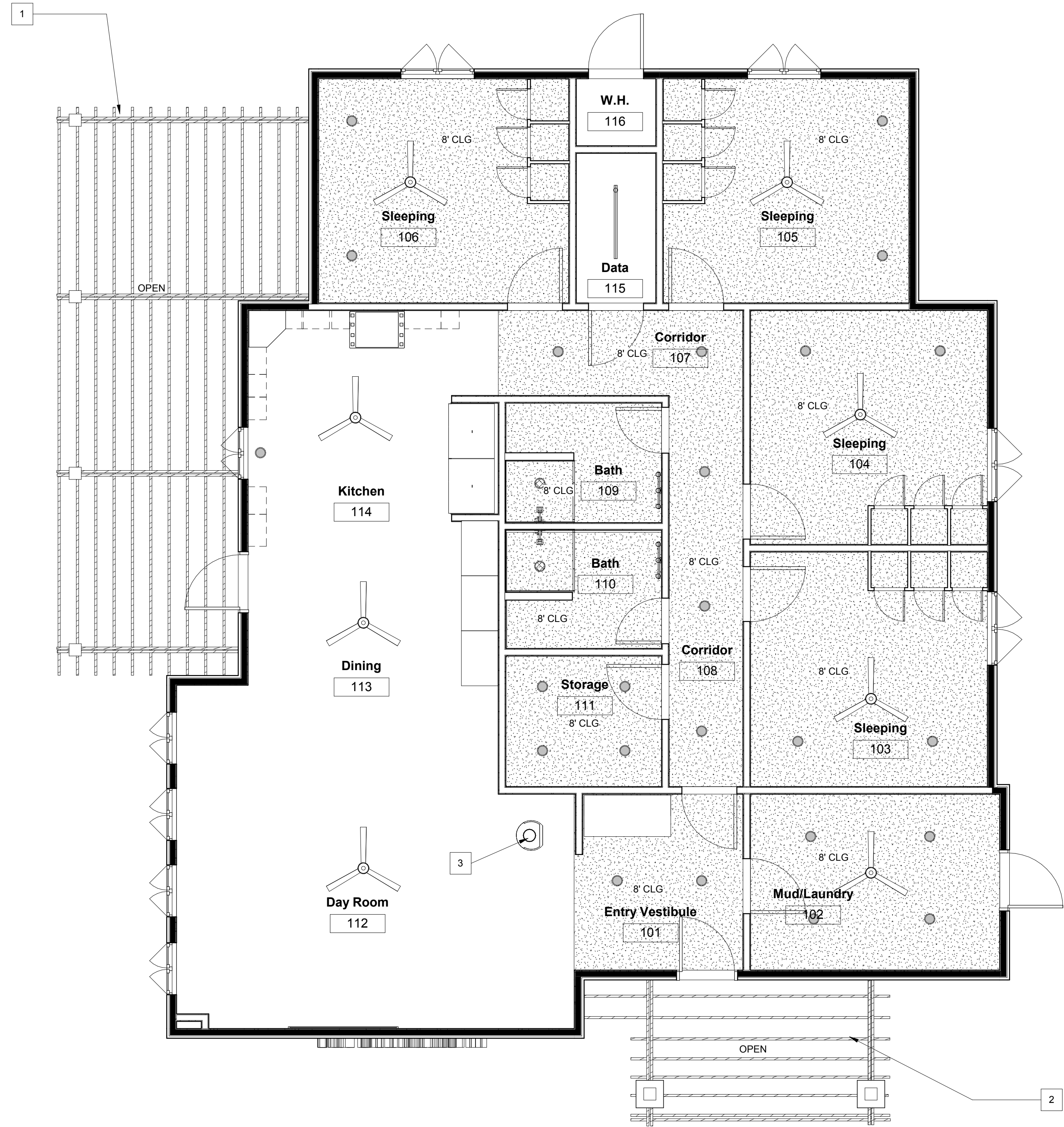
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JOB
Project Number

REVISIONS

SHEET

A-102



1 Floor Level
1/4" = 1'-0"

KEYNOTES

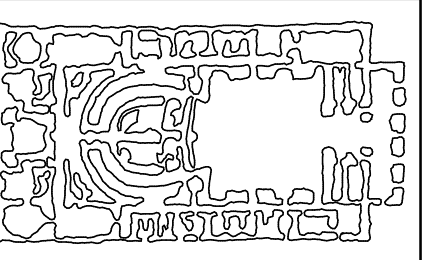
- 1 WOOD SHADE STRUCTURE
- 2 WOOD ENTRY STRUCTURE
- 3 WOOD FIRED STOVE CHIMNEY

GENERAL NOTES

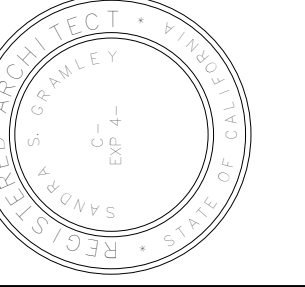
- 1. Refer to Building Sections located on A-301 for slope of ceilings in DayRoom, Dining and Kitchen areas.
- 2. All interior walls extend to bottom chord of trusses unless noted otherwise.

LEGEND

	LED DIRECT/INDIRECT PENDANT
	LED RECESSED FIXTURE
	LED RECESSED SHOWER FIXTURE
	LED STRIP LIGHT FIXTURE
	LED VANITY FIXTURE
	LED UNDERCOUNTER FIXTURE
	REGISTAR
	RETURN AIR GRILLE
	CEILING FAN



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Reflected Ceiling Plan
FS 79 Living Quarters
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JOB
Project Number

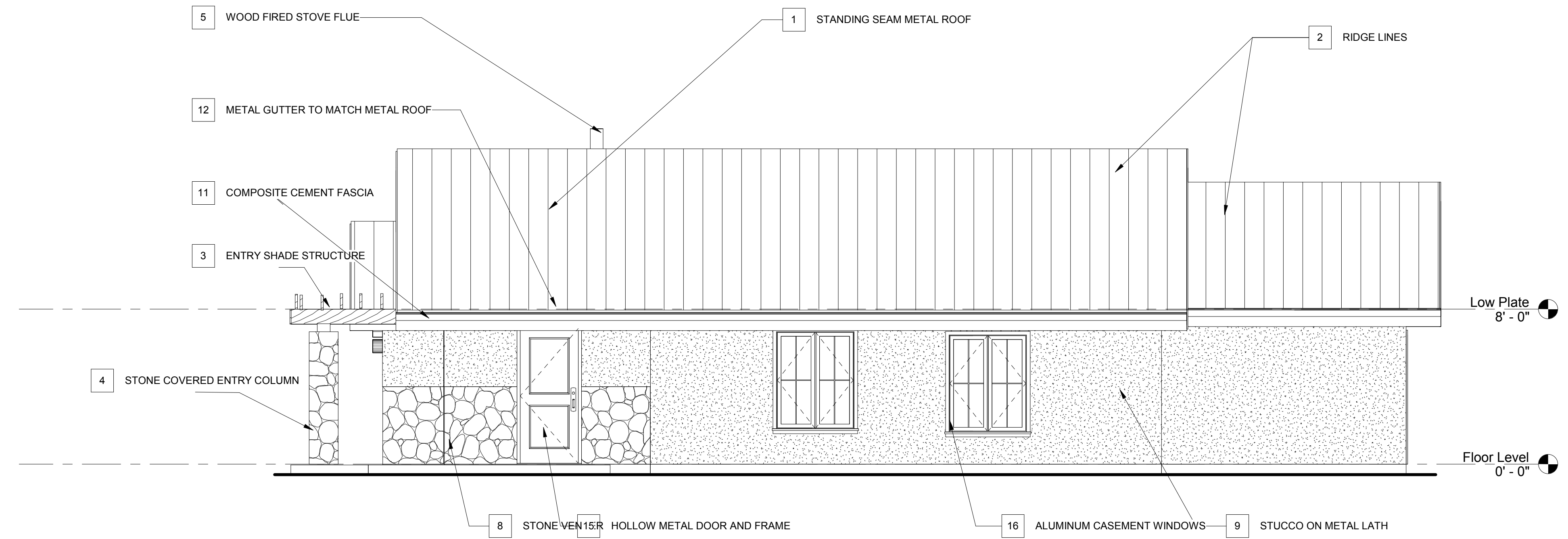
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A-103



4 West
1/4" = 1'-0"



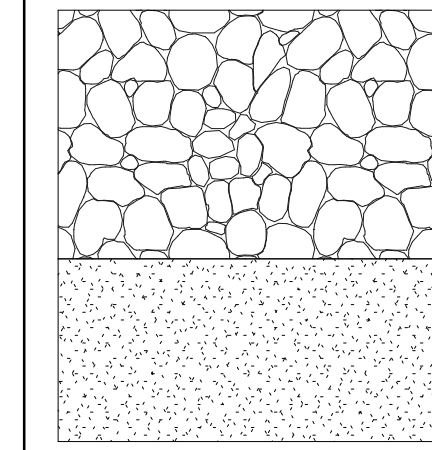
3 East
1/4" = 1'-0"

KEYNOTES

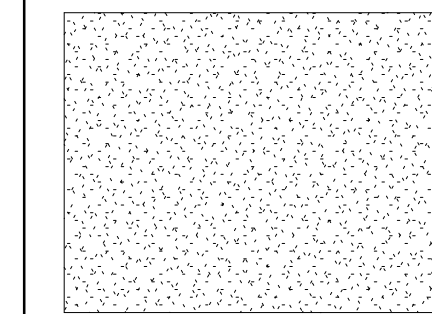
- 1 STANDING SEAM METAL ROOF
- 2 RIDGE LINES
- 3 ENTRY SHADE STRUCTURE
- 4 STONE COVERED ENTRY COLUMN
- 5 WOOD FIRED STOVE FLUE
- 8 STONE VENEER
- 9 STUCCO ON METAL LATH
- 10 CONCRETE PATIO SLAB
- 11 COMPOSITE CEMENT FASCIA
- 12 METAL GUTTER TO MATCH METAL ROOF
- 13 WOOD POSTS (TYP)
- 14 WOOD PATIO STRUCTURE
- 15 HOLLOW METAL DOOR AND FRAME
- 16 ALUMINUM CASEMENT WINDOWS
- 17 PATIO SHADE STRUCTURE BEYOND
- 18 RAISED LETTERS AND LOGO

GENERAL NOTES

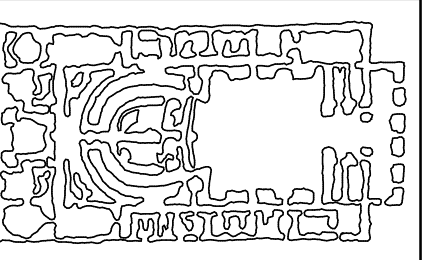
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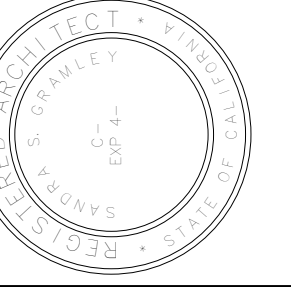
STUCCO OVER STONE VENEER 2X6 WOOD STUD WALL



STUCCO ON 2X6 WOOD STUD WALL



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East & West Building Elevations

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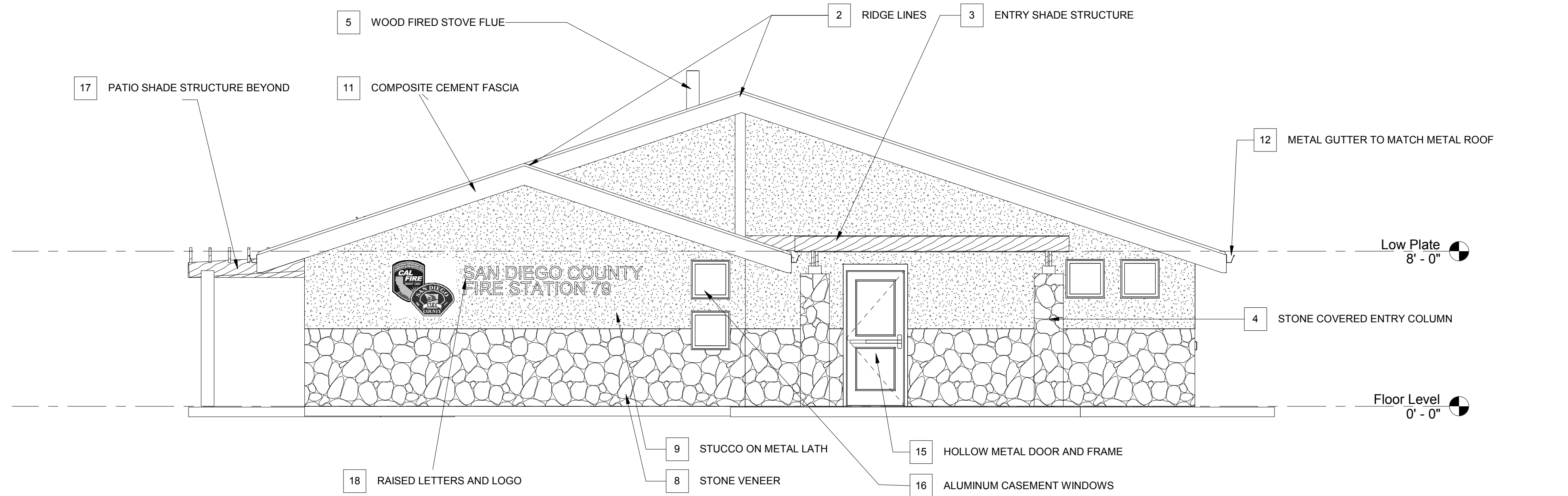
JOB

Project Number

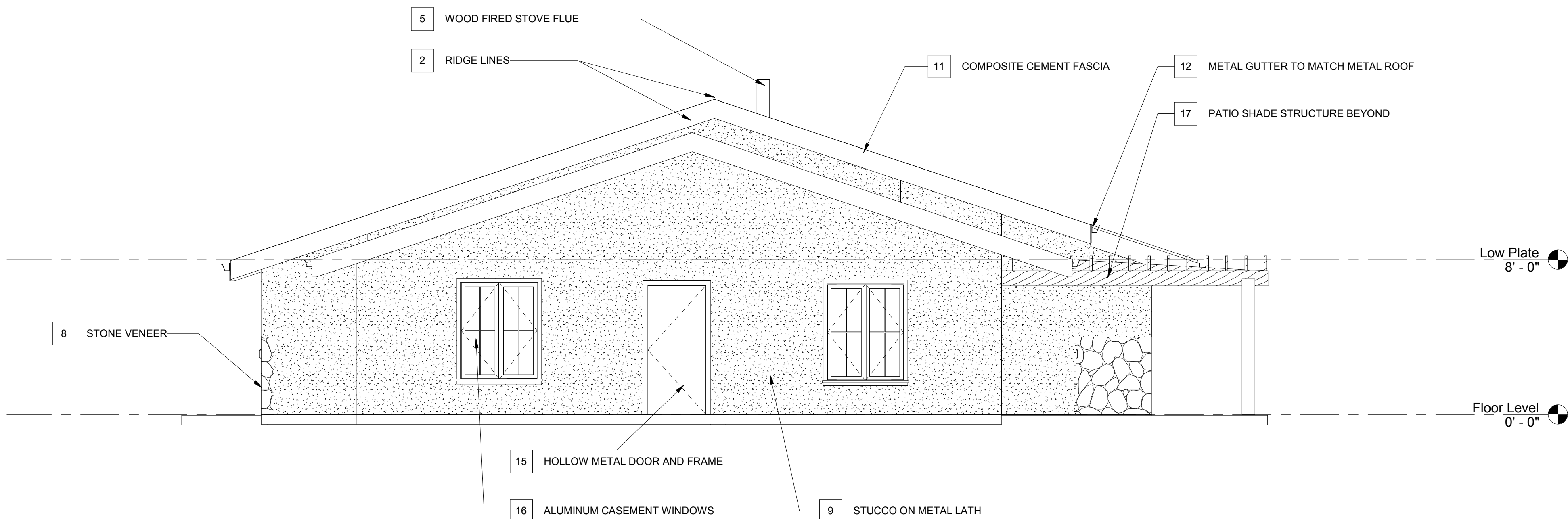
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SHEET

A-201



1 South Copy 1
1/4" = 1'-0"



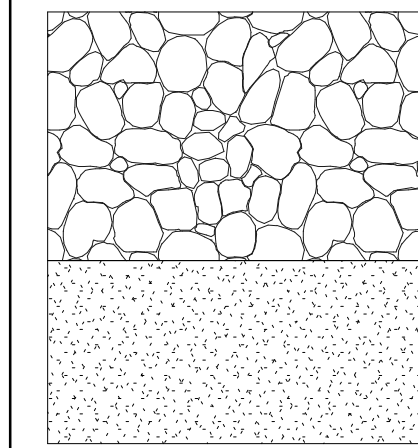
2 North Copy 1
1/4" = 1'-0"

KEYNOTES

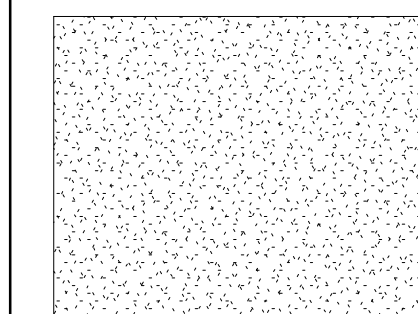
- 1 STANDING SEAM METAL ROOF
- 2 RIDGE LINES
- 3 ENTRY SHADE STRUCTURE
- 4 STONE COVERED ENTRY COLUMN
- 5 WOOD FIRED STOVE FLUE
- 8 STONE VENEER
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- 12 METAL GUTTER TO MATCH METAL ROOF
- 13 WOOD POSTS (TYP)
- 14 WOOD PATIO STRUCTURE
- 15 HOLLOW METAL DOOR AND FRAME
- 16 ALUMINUM CASEMENT WINDOWS
- 17 PATIO SHADE STRUCTURE BEYOND
- 18 RAISED LETTERS AND LOGO

GENERAL NOTES

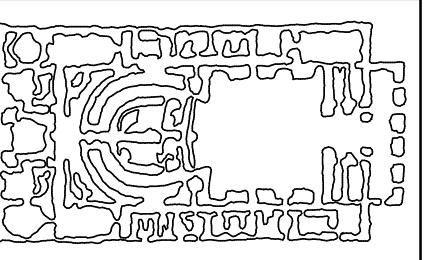
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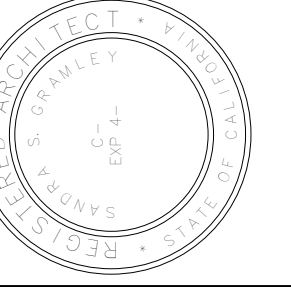
STUCCO OVER STONE VENEER 2X6 WOOD STUD WALL



STUCCO ON 2X6 WOOD STUD WALL



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North & South Building Elevations

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A-202

OF SHEETS

CMAR/35% SUBMITTAL

STRUCTURAL NOTES, SCHEDULES, AND STATEMENT OF SPECIAL INSPECTIONS

STRUCTURAL ABBREVIATIONS

GENERAL

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES FOUND. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.

REINFORCED CONCRETE

- 1. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 PSI, UNLESS OTHERWISE NOTED.
- 2. MIX DESIGN REQUIREMENTS: CEMENT SHALL BE TYPE IV; MAXIMUM SLUMP SHALL BE 4" (MAXIMUM SLUMP OF 8" SHALL BE PERMITTED AFTER INTRODUCTION OF A WATER-REDUCING OR SUPER-PLASTICIZER ADMIXTURE); MAXIMUM AGGREGATE SIZE SHALL BE 1"; MAXIMUM WATER-CEMENT RATIO SHALL BE 0.45; WEIGHT OF FINE AGGREGATES SHALL NOT EXCEED 43% OF TOTAL WEIGHT OF FINE AND COARSE AGGREGATES COMBINED. THOROUGHLY CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS.

REINFORCING STEEL

- 1. STEEL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED.
- 2. BAR LAP SPLICE LENGTHS FOR BARS INSTALLED IN CONCRETE SHALL BE 48 BAR DIAMETERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 3. BAR LAP SPLICES FOR EPOXY COATED BARS SHALL BE 72 BAR DIAMETERS.

STRUCTURAL STEEL

- 1. ANGLES, CHANNELS, PLATES, BARS AND RODS SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 2. HOLLOW STRUCTURAL SECTIONS (RECTANGULAR AND ROUND) SHALL CONFORM TO ASTM A500, GRADE B.
- 3. ANCHOR BOLTS SHALL BE HEADED ANCHOR BOLTS AND SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

LUMBER

- 1. WOOD FRAMING SHALL CONFORM TO THE "LUMBER SCHEDULE" UNLESS OTHERWISE NOTED. GRADING SHALL BE IN CONFORMANCE WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE.
- 2. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE USED IN CONSTRUCTION. MOISTURE CONTENT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH THE FOLLOWING:
 - a. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER.
 - b. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM THE GRADE STAMPED END OF EACH PIECE OF WOOD TO BE VERIFIED.
 - c. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL, ROOF AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE BUILDING DEPARTMENT PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL, ROOF AND FLOOR FRAMING.

FOUNDATION

- 1. THE ALLOWABLE SOIL BEARING PRESSURE USED FOR DESIGN IS 1500 PSF FOR GRAVITY LOADS AND 2000 PSF FOR LOADS WHICH INCLUDE WIND OR SEISMIC LOADING ASSUMING CLASS 5 FOUNDATION MATERIAL PER TABLE 1806.2 OF THE 2016 CALIFORNIA BUILDING CODE.
- 2. FOUNDATION DESIGN PARAMETERS, CBC TABLE 1806.2:
 - SOIL TYPE: CLASS 5 (CL, ML, MH OR CH)
 - ALLOWABLE BEARING PRESSURE: 1500 PSF
 - PASSIVE SOIL RESISTANCE: 60 PCF

DESIGN CRITERIA

- 1. DESIGN BUILDING CODE: 2016 CALIFORNIA BUILDING CODE
- 2. RISK CATEGORY: IV
- 3. LIVE LOAD: ROOF: 20 PSF
- 4. WIND DESIGN CRITERIA:
 - BASIC WIND SPEED: 115 MPH
 - WIND EXPOSURE: C
- 5. ROOF SNOW LOAD: 50 PSF
- 6. SEISMIC DESIGN CRITERIA:

Table with columns for spectral response acceleration (Sa), modification factors (R, Omega, C), and seismic load effects (Ev).

SPECIAL INSPECTION AND TESTING

- 1. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE 2016 CALIFORNIA BUILDING CODE AND AS SUMMARIZED BELOW. THE OWNER SHALL EMPLOY A SPECIAL INSPECTION AGENCY APPROVED BY THE BUILDING DEPARTMENT PRIOR TO THE START OF WORK. COPIES OF ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, AND BUILDING INSPECTOR IN A TIMELY MANNER.
- 2. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR.
- 3. CONTINUOUS INSPECTION SHALL BE PROVIDED DURING THE PERFORMANCE OF WORK REQUIRING SPECIAL INSPECTION, UNLESS OTHERWISE NOTED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

STATEMENT OF SPECIAL INSPECTIONS

Table with columns: CBC REF, DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS, ET CETERA, DESIGN STRENGTH. Includes entries for concrete construction, post-installed anchors, and soils.

LUMBER SCHEDULE

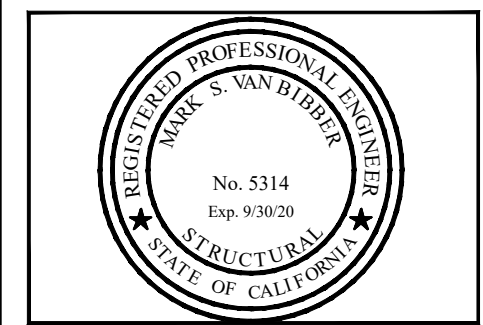
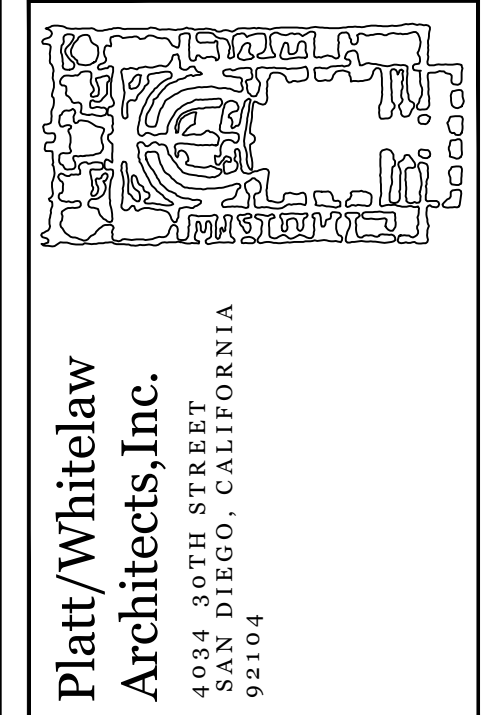
Table with columns: MEMBER, SPECIES, GRADE. Lists various lumber members like studs, joists, sheathing, and framing with their respective species and grades.

WOOD FRAMING FASTENING SCHEDULE

(CBC TABLE 2304.9.1)

Table with columns: CONNECTION, FASTENING, LOCATION. Details fastening requirements for connections like joist to girder, bridging to joist, top plate to stud, etc.

Large table of structural abbreviations including terms like PERP, PLF, FF, FG, FIN, FLR, FN, FND, FOC, FOS, FOW, FRMG, FT, FTG, FV, GA, GALV, GR, HDG, HGR, HK, HORIZ, HSB, HSS, HT, ID, INSP, INT, JST, JT, LB, LBS, LG, LONG, LONL, MTL, MECH, MFR, MIN, MISC, MTL, NTS, OC, OD, OPN, OPNG, PL, PT, PTFD, etc.



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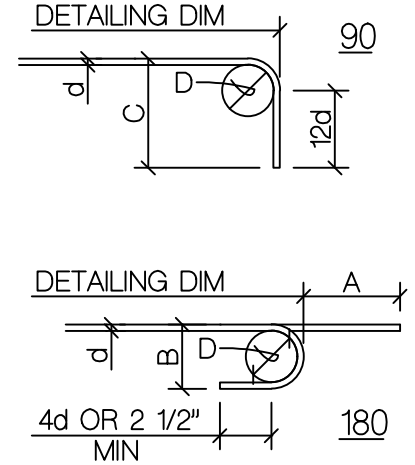
STRUCTURAL NOTES, SCHEDULES, SPECIAL INSPECTIONS & ABBREVIATIONS
FIRE STATION 79 LIVING QUARTERS

Table with columns: DATE, SCALE (AS NOTED), CHECKED BY (MVB/DGS), JOB (PWA/035.00), REVISIONS, SHEET (S-001).

Logo for aark engineering inc. with address: 1870 Cordell Court, Suite 202, El Cajon, CA 92020, tel 619.312.6336, aarkengineering.com

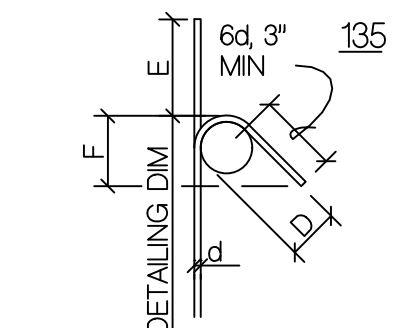
DIMENSION TABLE FOR 90 AND 180 HOOKS

BAR SIZE	A IN	B IN	C IN	D IN
#3	5	3	6	2 1/4
#4	6	4	8	3
#5	7	5	10	3 3/4
#6	8	6	12	4 1/2
#7	10	7	14	5 1/4
#8	11	8	16	6
#9	15	11 3/4	19	9 1/2
#10	17	13 1/4	22	10 3/4
#11	19	14 3/4	24	12

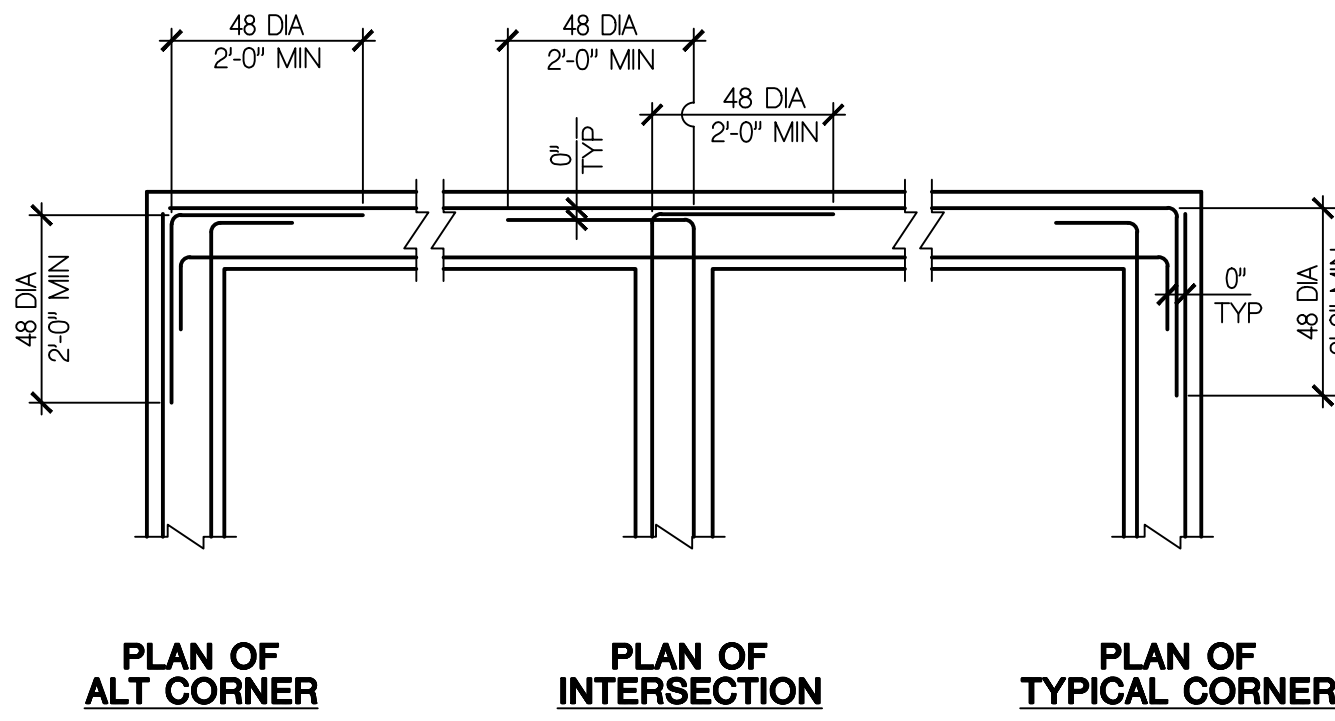


DIMENSION TABLE FOR 135 HOOKS

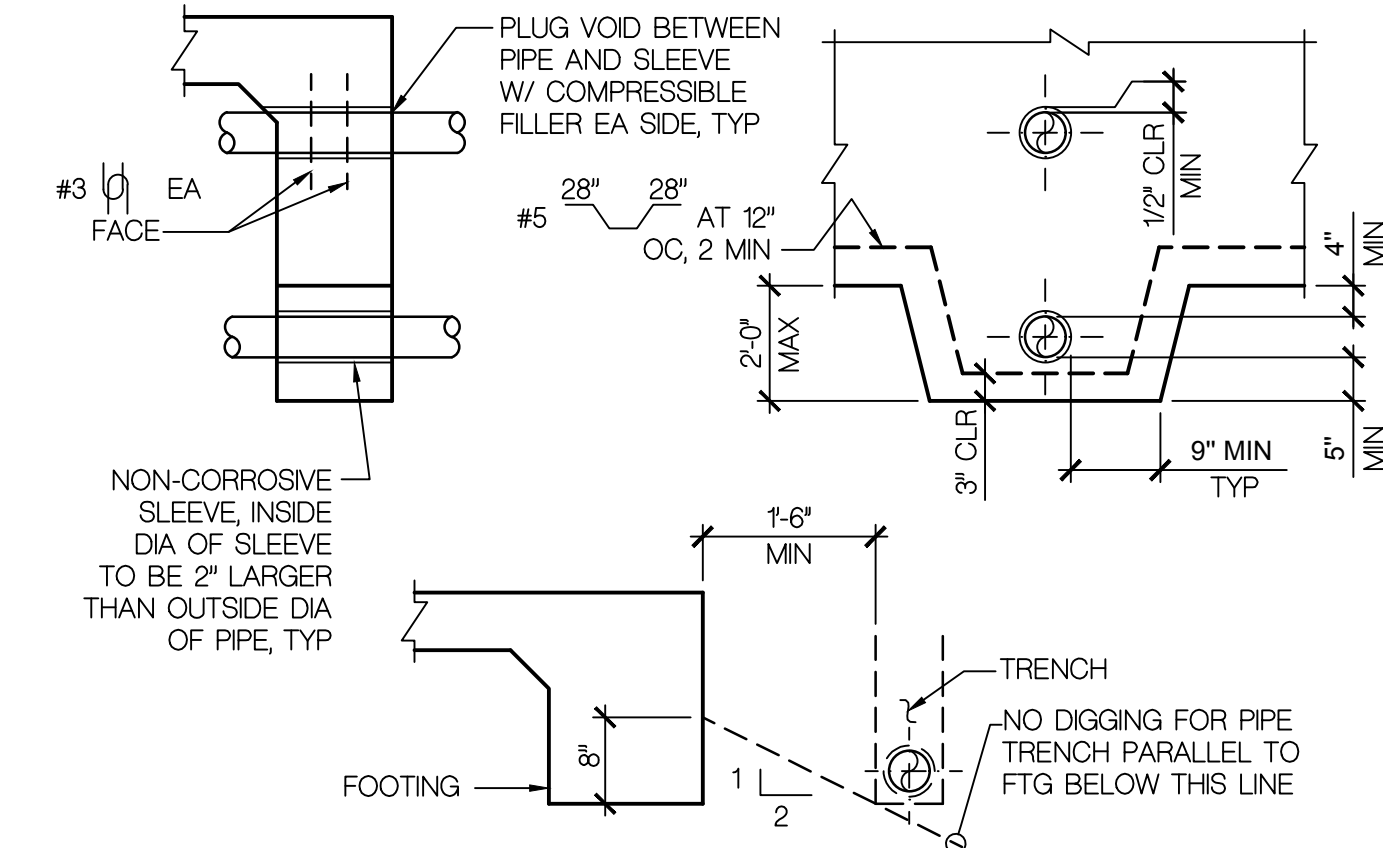
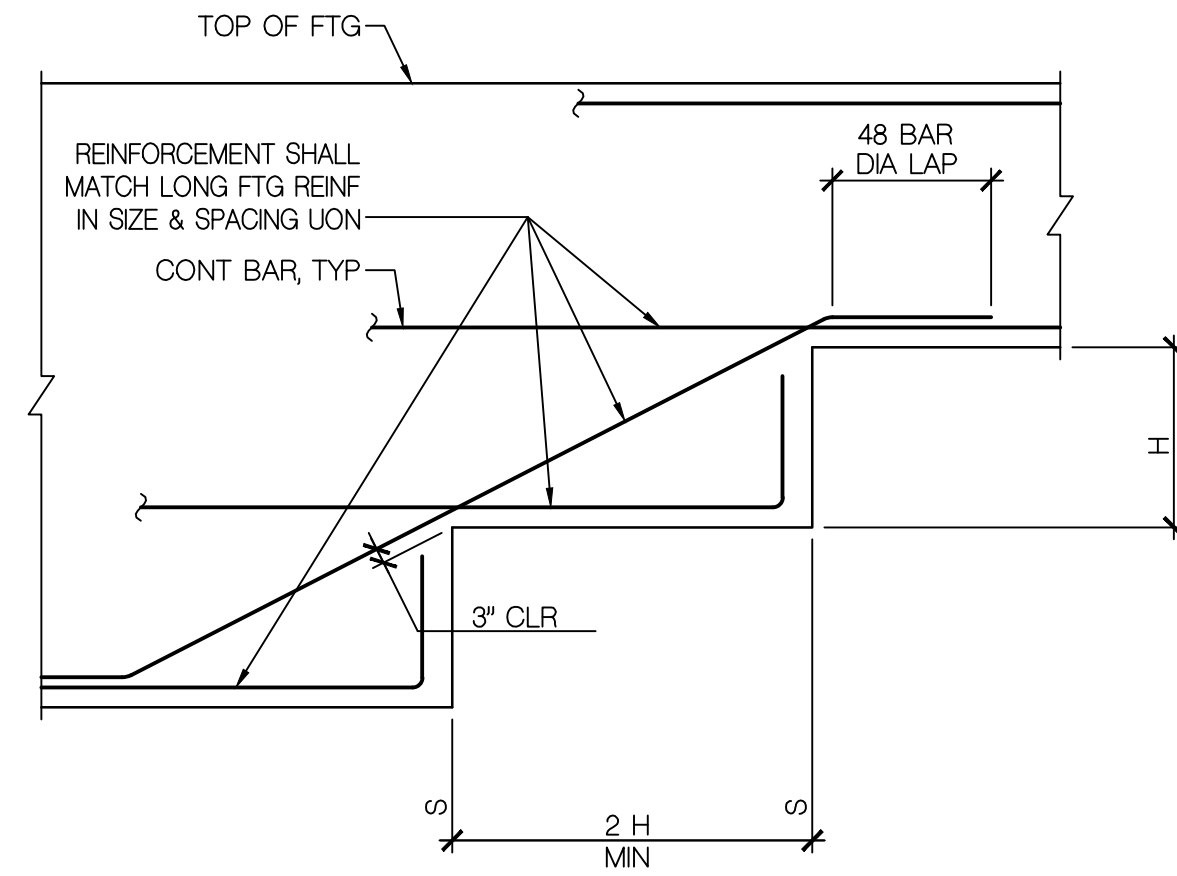
BAR SIZE	D IN	E IN	F IN
#3	1 1/2	4 1/4	2 1/2
#4	2	4 1/2	3
#5	2 1/2	5 1/2	3 3/4
#6	4 1/2	8	4 1/2



NOTE:
UNLESS OTHERWISE NOTED, THESE DIMENSIONS SHALL BE USED FOR ALL INDICATED HOOKS.



- NOTES:
- WHERE SINGLE CURTAIN OF REINFORCING OCCURS, BEND BARS AS SHOWN FOR OUTSIDE BARS.
 - FOR MORE THAN 2 BARS PER LAYER, EXTEND INNER BARS 12" INTO PERPENDICULAR FOOTING. OUTER BARS SHALL BE PLACED AS INDICATED.



NOTE:
WHERE PIPES OR CONDUITS ARE MORE THAN 24" BELOW BOTTOM OF FOOTING, STEP DOWN FOOTING PER DETAIL 3 THIS SHEET TO CAPTURE PIPES OR CONDUITS.

TYPICAL REINFORCING BENDS AND HOOKS

SCALE: NONE

TYPICAL FOOTING CORNERS AND INTERSECTIONS

SCALE: NONE

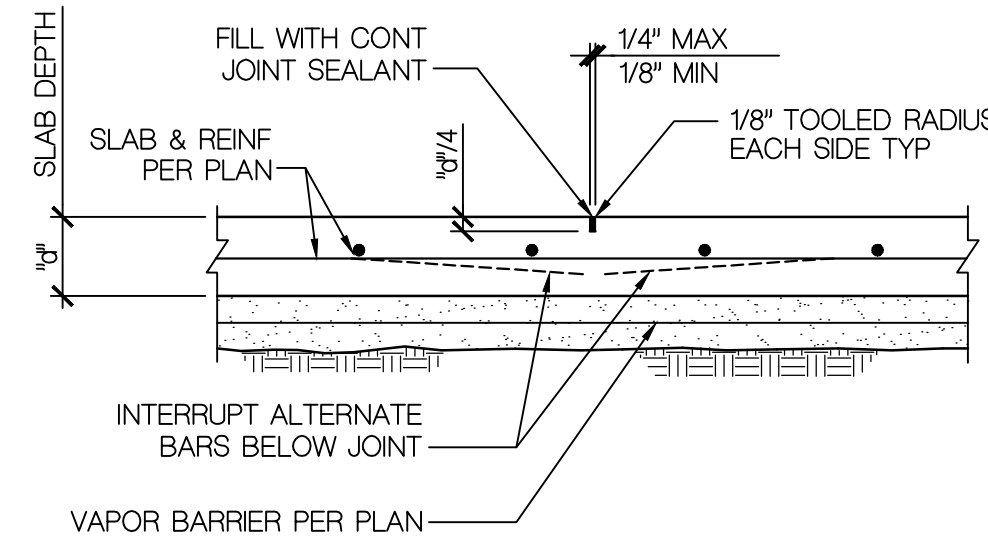
TYPICAL STEPPED FOOTING DETAIL

SCALE: NONE

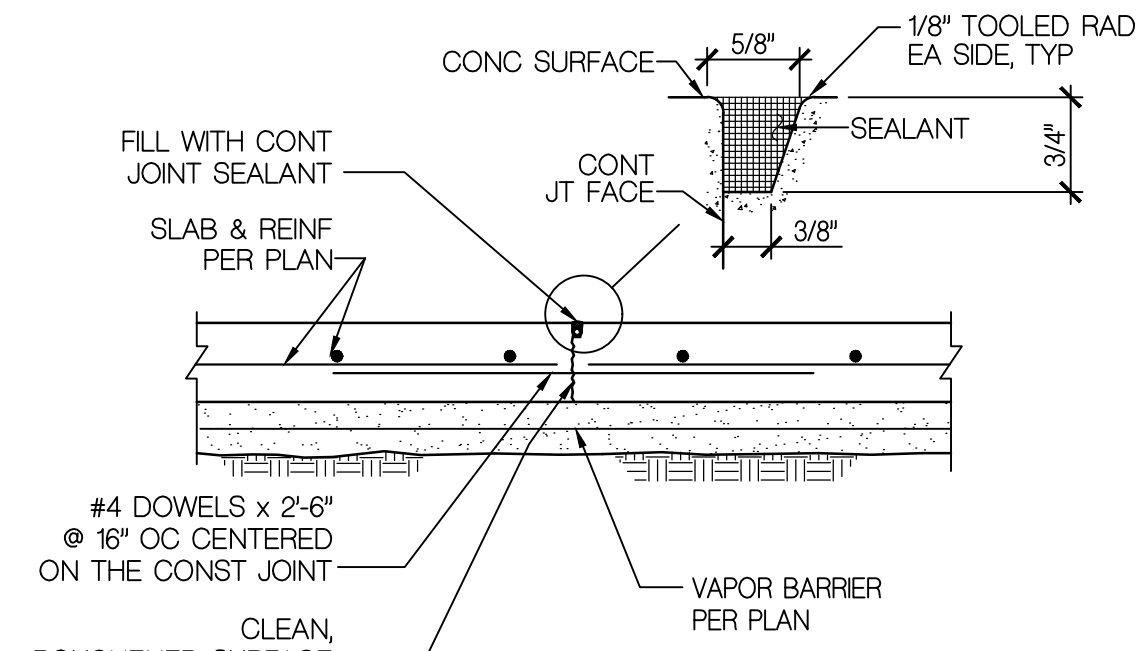
TYPICAL DETAIL WHERE PIPES OR CONDUITS INTERSECT FOOTINGS

SCALE: NONE

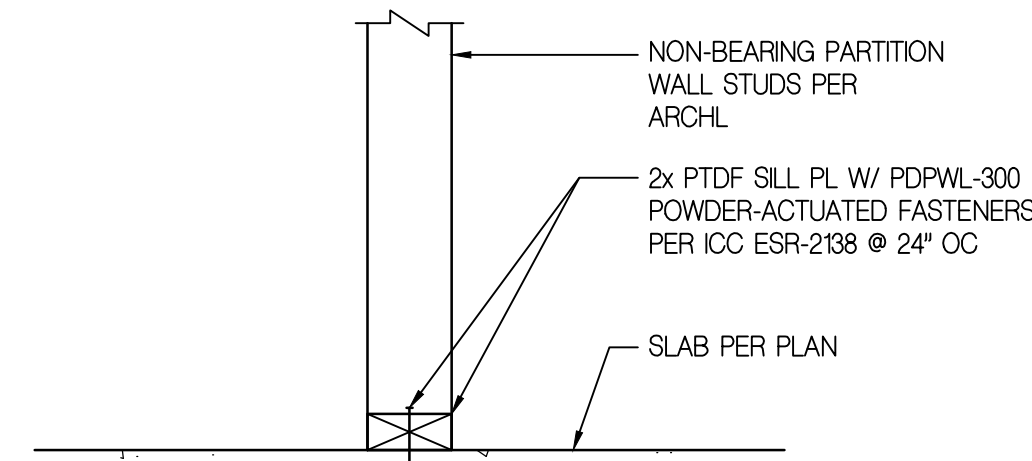
- NOTE:
- A CONSTRUCTION JOINT (MARK CJ2) MAY BE USED IN LIEU OF CONTRACTION JOINTS (MARK CJ1) AT THE CONTRACTORS OPTION.
 - MAXIMUM JOINT SPACING SHALL BE 12'-0" OC.



CONSTRUCTION JOINT MARK CJ1

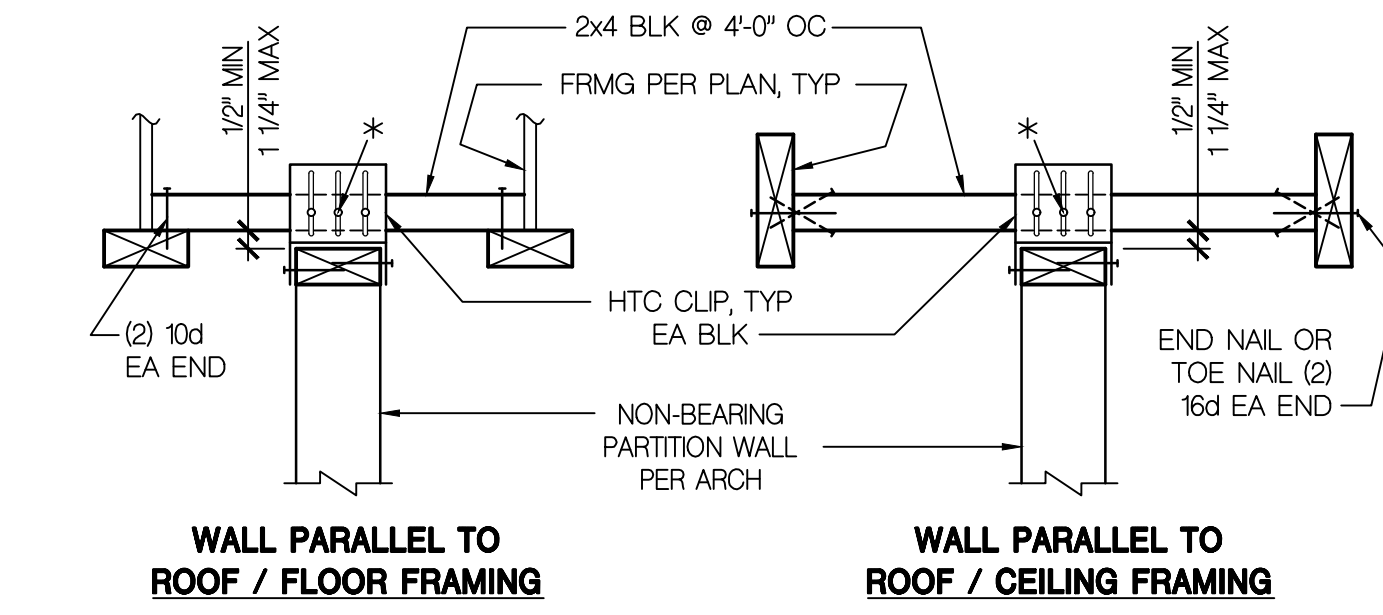


CONSTRUCTION JOINT MARK CJ2



TYPICAL NON-BEARING WALL SILL PLATE DETAIL

SCALE: NONE



TYPICAL INTERIOR NON-BEARING WALL HEAD DETAILS

SCALE: NONE

TYPICAL SLAB-ON-GRADE JOINT DETAILS

SCALE: NONE

5

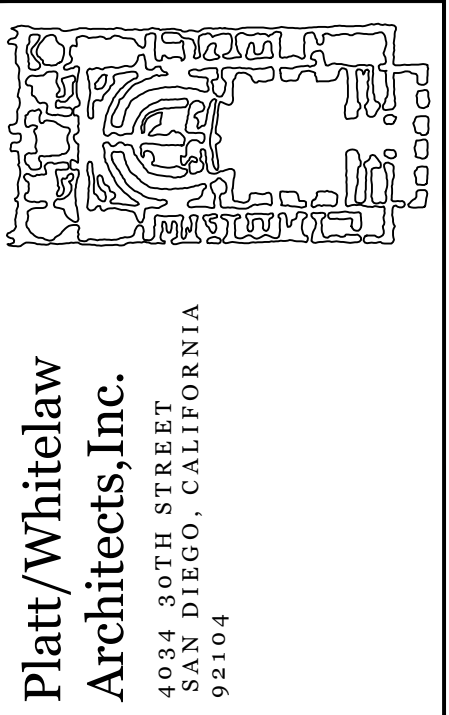
S-002

6

S-002

7

S-003



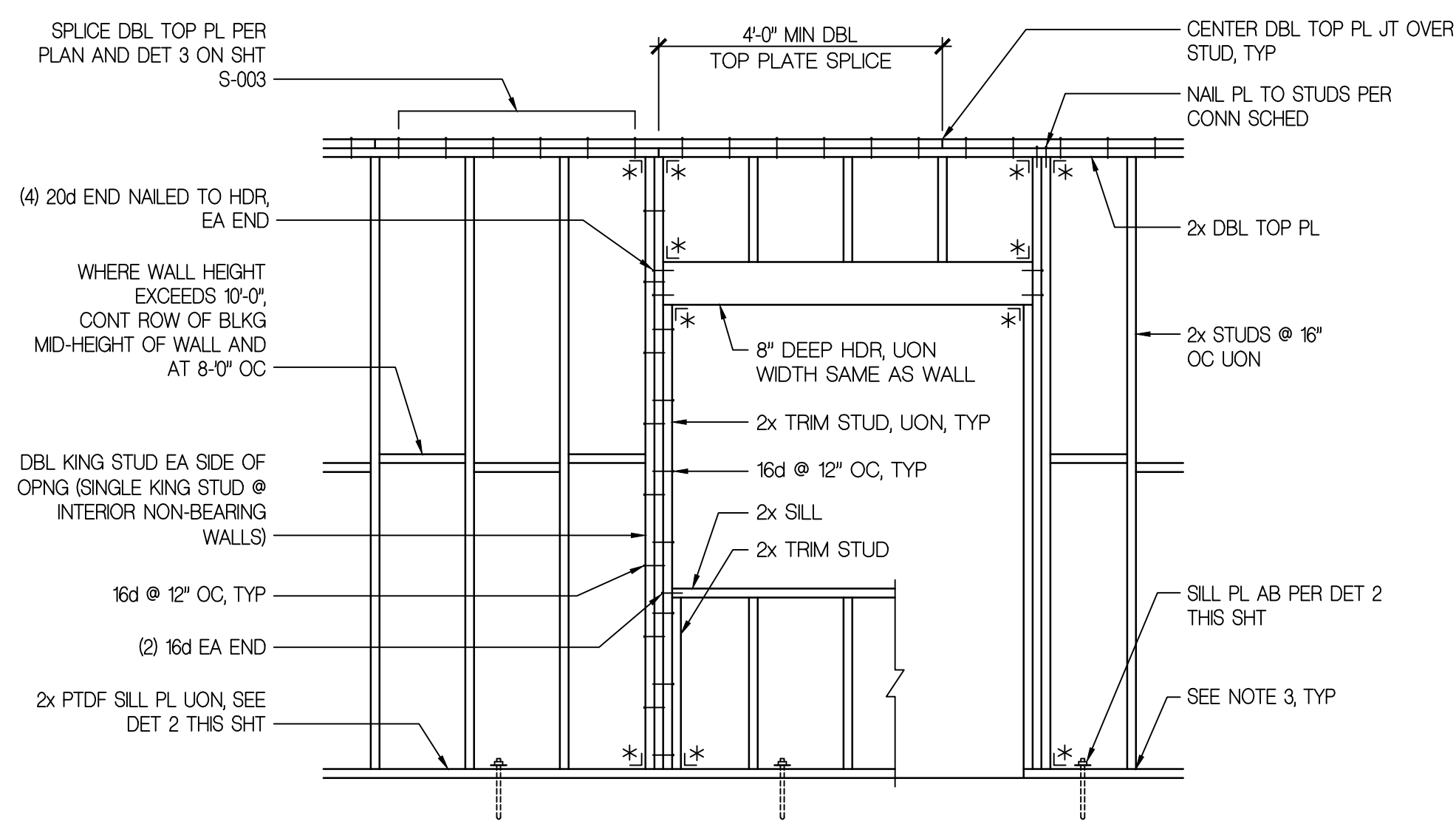
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TYPICAL STRUCTURAL DETAILS
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
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JOB	PWA.035.00
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SHEET	S-002

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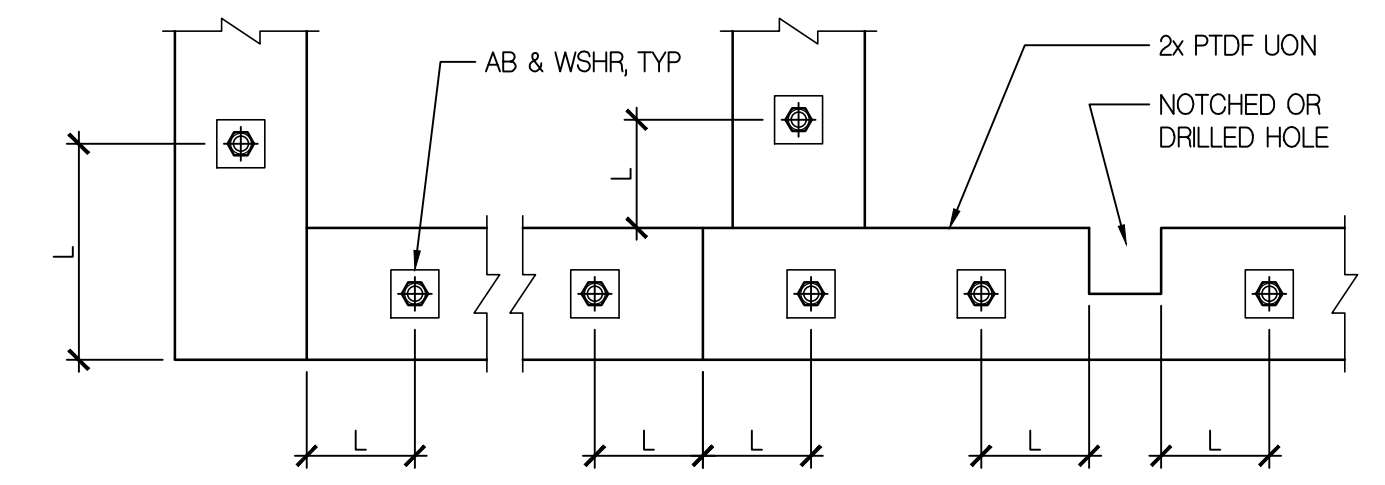
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- NOTES:**
- POWDER-ACTUATED FASTENERS (SHOT PINS) AND EXPANSION ANCHORS SHALL NOT BE USED TO ANCHOR WALLS ON CURBS OR AT SLAB EDGES.
 - HOLD DOWN ANCHOR BOLTS SHALL NOT REPLACE SILL PLATE ANCHOR BOLTS.
 - ALL BOLTS, NAILS, METAL FRAMING CONNECTORS AND OTHER FASTENERS IN CONTACT WITH PRESERVATIVE OR FIRE RETARDANT TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED (ASTM A153) OR STAINLESS STEEL (TYPE 304 OR 316).
- * A34 METAL FRAMING CONNECTOR (OMIT FOR INTERIOR NON-BEARING WALLS)

TYPICAL WOOD STRUCTURAL WALL FRAMING DETAIL
SCALE: NONE

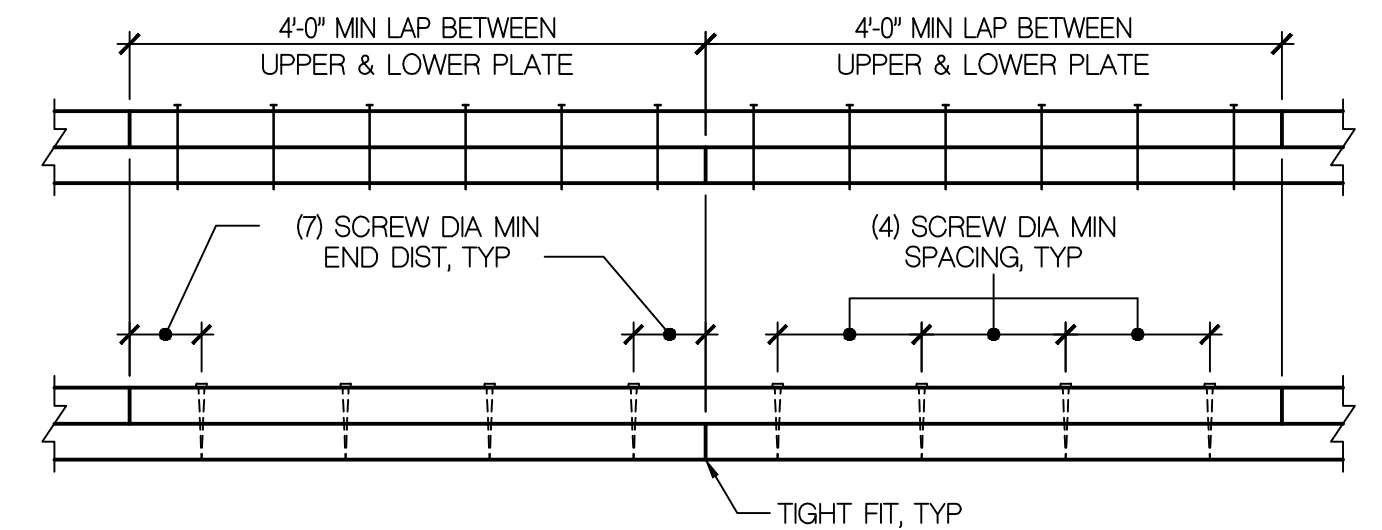
1
S-003



- NOTES:**
- TYPICAL ANCHOR BOLT END DISTANCE L = 4 1/2" MIN, 12" MAX.
 - ANCHOR BOLTS SHALL BE INSTALLED AT 12" MAXIMUM FROM EACH END OF EACH SILL PLATE PIECE, AND SHALL BE SPACED AT 48" ON CENTER MAXIMUM. SEE DETAIL 4 THIS SHEET FOR ANCHOR BOLT SPACING AT SHEAR WALLS.
 - WHERE SILL PLATE IS NOTCHED, DRILLED OR CUT MORE THAN ONE THIRD OF ITS WIDTH, INSTALL ANCHOR BOLT EACH SIDE AS SHOWN. NOTCHES, CUTS AND HOLES SHALL BE TREATED WITH A PRESERVATIVE SOLUTION CONFORMING TO AWPA STANDARD M4.
 - ANCHOR BOLTS SHALL BE 5/8" DIAMETER WITH 3" x 3" x 0.229" PLATE WASHERS, UNLESS OTHERWISE NOTED. ANCHOR BOLTS AND WASHERS SHALL BE COATED AS NOTED ON SHEET S-001.
 - MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 7", MEASURED FROM TOP OF THE CONCRETE SLAB. THE LENGTH OF ANCHOR BOLT IN CONCRETE CURBS SHALL NOT APPLY TO THIS MINIMUM EMBEDMENT.
 - ANCHOR BOLTS WITH DAMAGED THREADS SHALL NOT BE USED.
 - WHERE SILL PLATE ANCHORS MUST BE POST-INSTALLED, PROVIDE 3/4" SIMPSON TITEN HD SCREW ANCHORS WITH 6 1/4" MIN EMBEDMENT & 1 3/4" MIN EDGE DISTANCE. INSTALL PER ICC ESR-2713. SPECIAL INSPECTION IS REQUIRED FOR POST-INSTALLED ANCHOR INSTALLATION. POST-INSTALLED ANCHORS SHALL NOT REPLACE HOLD DOWN ANCHOR BOLTS.

TYPICAL SILL PLATE BOLTING DETAIL
SCALE: NONE

2
S-003



NAILED SPLICE SCHEDULE

MARK	NAILS
A	(8) 16d
B	(10) 16d
C	(12) 16d

SCREWED SPLICE SCHEDULE

MARK	SDS 1/4" SCREWS
D	(6) 1 1/4" SCREWS
E	(12) 1 1/4" SCREWS
F	(24) 1 1/4" SCREWS

- NOTES:**
- SPLICE 2x DOUBLE TOP PLATES PER MARK "A" AND 3x DOUBLE TOP PLATES PER MARK "A" OF THE ABOVE SCHEDULE, UNLESS OTHERWISE INDICATED.
 - SCREWS SHALL BE 3" LONG FOR 2x PLATES AND 5" LONG FOR 3x PLATES.
 - JOINTS IN UPPER AND LOWER PLATE SHALL BE CENTERED OVER STUD OR MULLION.
 - ALL NAILS SHALL BE COMMON WIRE NAILS.
 - SCHEDULE INDICATES NUMBER OF NAILS OR SCREWS ON EACH SIDE OF EACH JOINT.

TYPICAL DOUBLE TOP PLATE SPLICES
SCALE: NONE

3
S-003

SILL PLATE BOLTS SCHEDULE

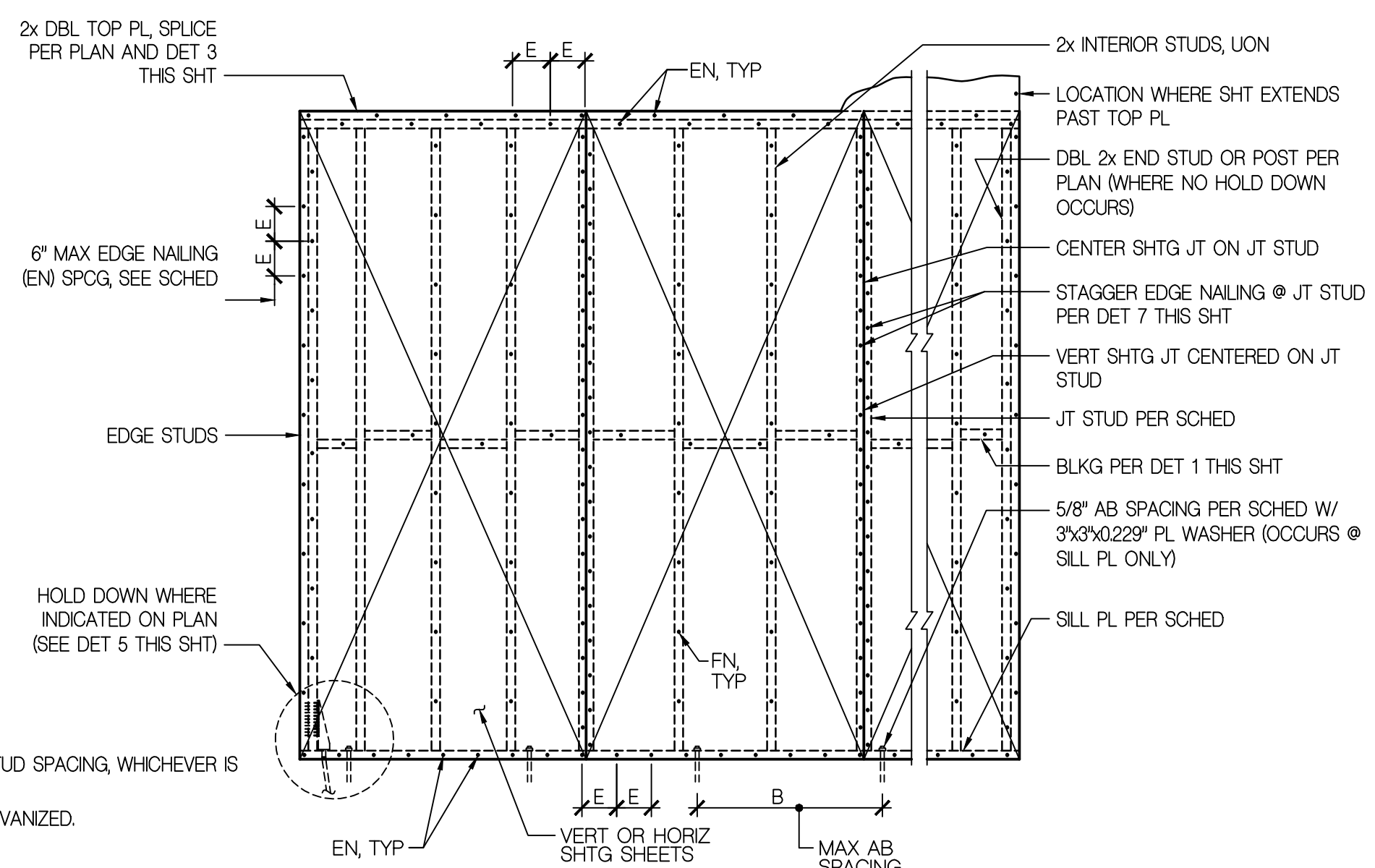
MARK	WALL SIDES SHEATHED	FASTENER SPACING
6	1	48"
	2	32"
4	1	44"
	2	22"
3	1	34"
	2	16"

WALL SHEATHING AND NAILING SCHEDULE

MARK	SHTG THK	NAIL SIZE	E SPOG	JOINT BLKG	SILL PL AND JT STUD
6	15/32"	10d	6"	2x*	2x*
4	15/32"	10d	4"	2x*	3x
3	15/32"	10d	3"	3x	3x

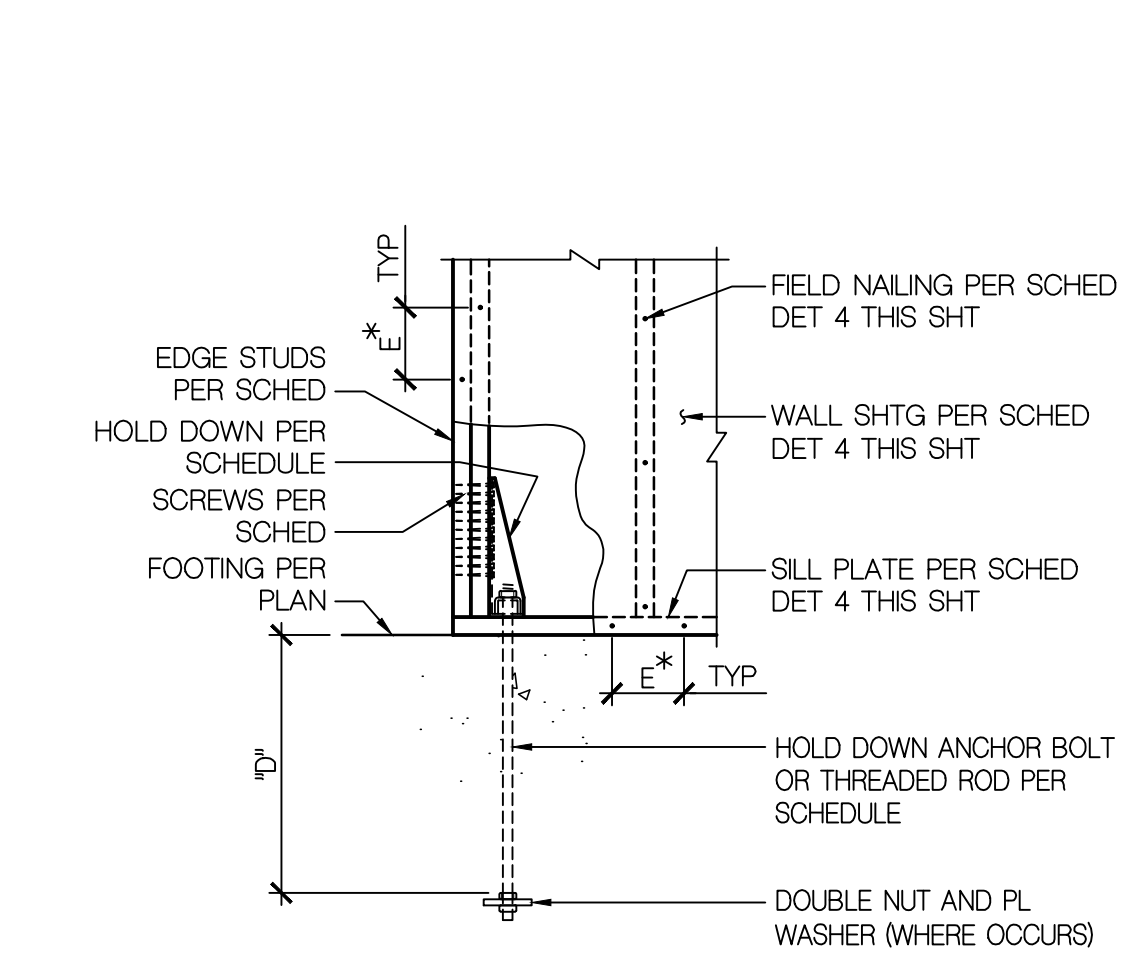
* 3x WHERE WALL IS SHEATHED BOTH SIDES

- NOTES:**
- FIELD NAILING (FN) 10d @ 12" OC.
 - ALL NAILS SHALL BE COMMON OR GALVANIZED BOX WIRE NAILS.
 - MINIMUM DIMENSION OF ANY SHEATHING SHEET EQUALS 16" OR STUD SPACING, WHICHEVER IS GREATER.
 - ANCHOR BOLTS AND PLATE WASHERS SHALL BE HOT-DIPPED GALVANIZED.



TYPICAL SHEAR WALL SHEATHING SCHEDULE
SCALE: NONE

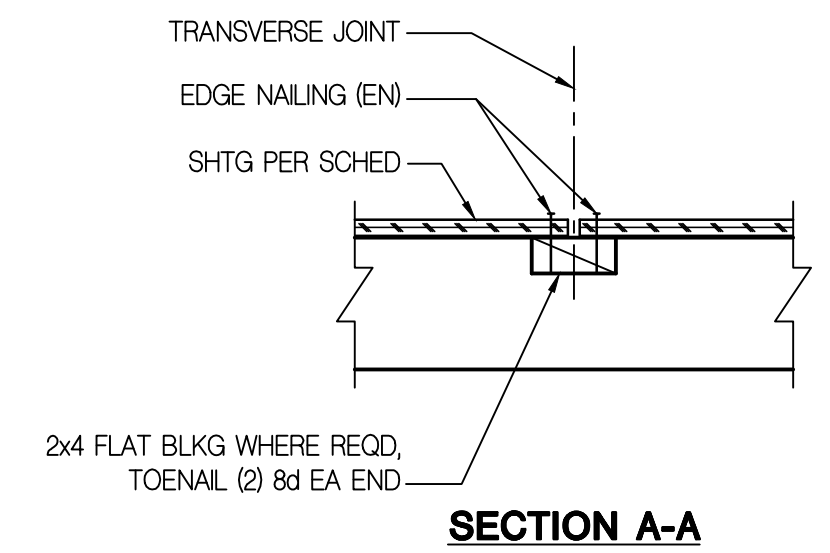
4
S-003



HOLD DOWN AT FOUNDATION

SHEAR WALL HOLD DOWN SCHEDULE
SCALE: NONE

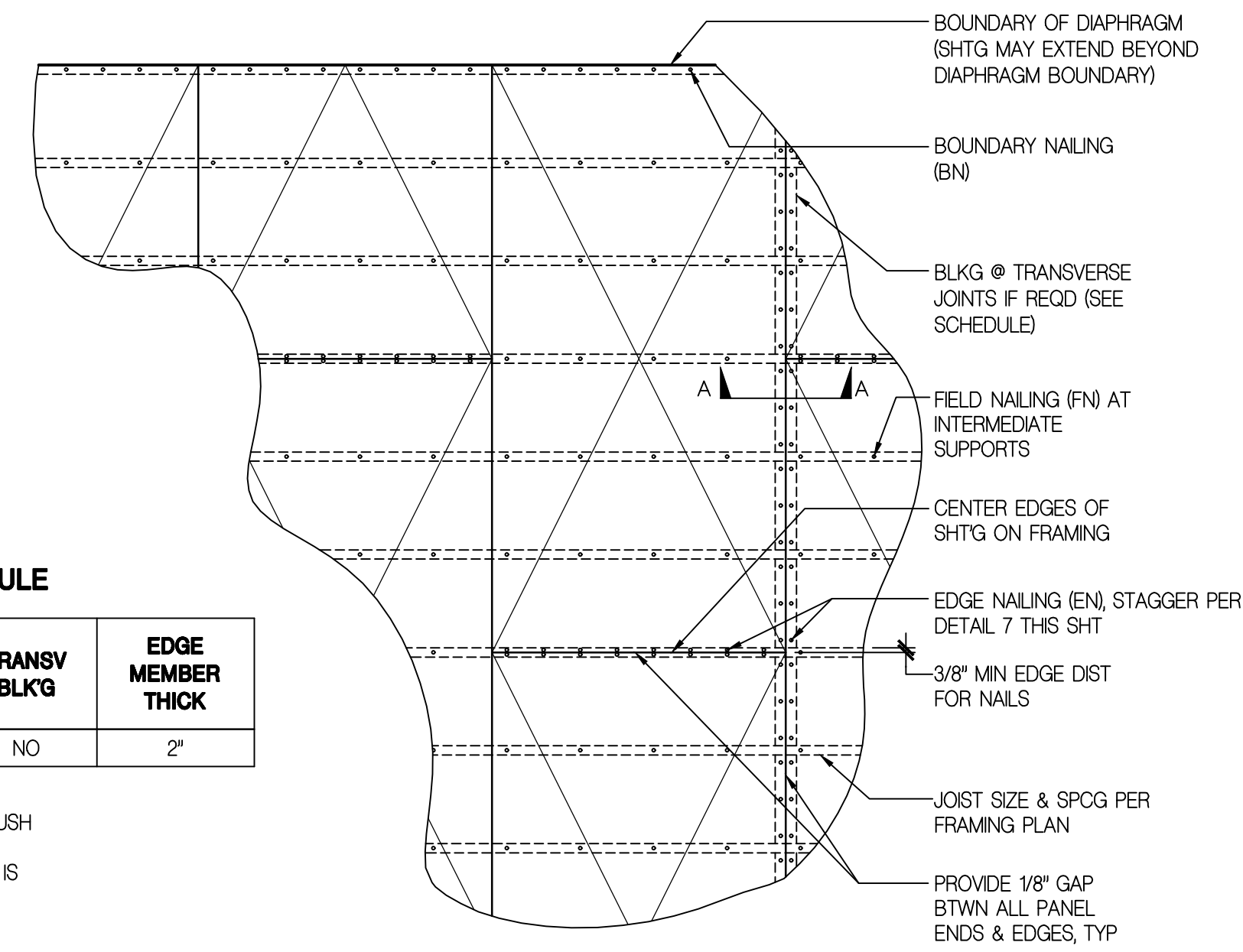
5
S-003



DIAPHRAGM SHEATHING & NAILING SCHEDULE

MARK	SHTG THICK	NAIL SIZE	BN SPOG	EN SPOG	FN SPOG	TRANSV BLKG	EDGE MEMBER THICK
R1	1/2"	10d	6"	6"	12"	NO	2"

- NOTES:**
- DIAPHRAGM SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEADS ARE FLUSH WITH THE SURFACE OF THE SHEATHING.
 - TRANSVERSE BLOCKING MAY BE OMITTED IF TONGUE AND GROOVE SHEATHING IS PROVIDED.



TYPICAL STAGGERED NAILING AT SHEATHING JOINT
SCALE: NONE

7
S-003

TYPICAL ROOF SHEATHING SCHEDULE
SCALE: NONE

6
S-003

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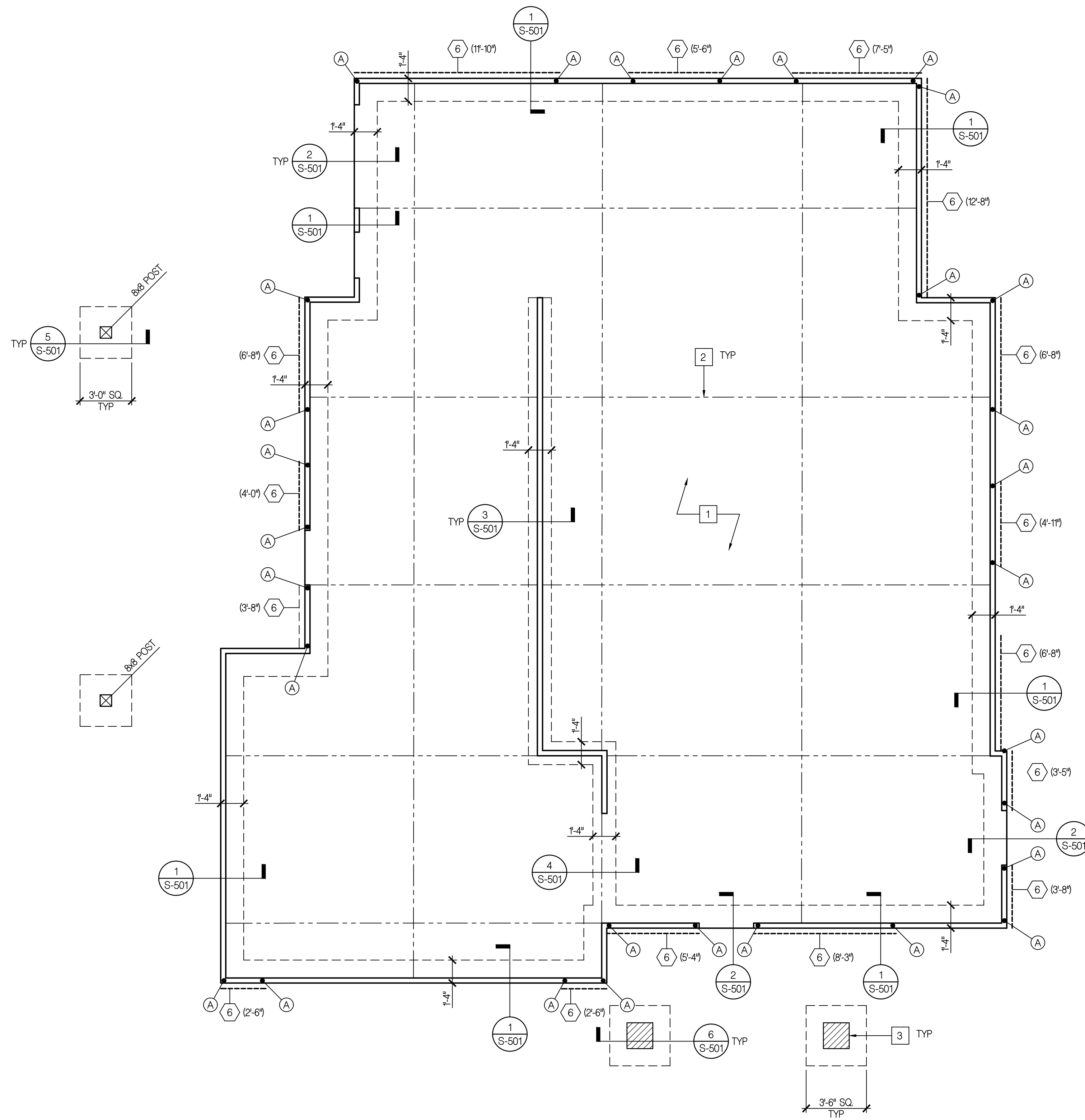
TYPICAL STRUCTURAL DETAILS
FIRE STATION 79 LIVING QUARTERS

DATE	AS NOTED
SCALE	MVB/DG
CHECKED BY	PWA.035.00
JOB	
REVISIONS	
SHEET	S-003

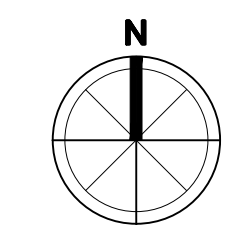
aark engineering inc.
1870 Cordell Court
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tel 619.312.6336
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PWA - PLATT/WHITE LAW ARCHITECTS INC. - PLANVIEW IS 2X DIMENSIONS STRUCTURALLY UNLESS NOTED OTHERWISE. 2/12/2019 10:42 PM

FOUNDATION PLAN



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



FOUNDATION KEYNOTES

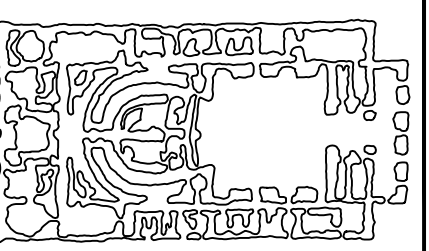
- 1 4" CONC SLAB-ON-GRADE W/ #4 @ 16" OC EA WAY AT MID-DEPTH OF SLAB OVER 15 MIL STEGO VAPOR BARRIER OVER 4" SAND (SEE DET 5 ON SHT S-002)
- 2 CONCRETE SLAB-ON-GRADE CONSTRUCTION JOINTS PER DET 5 ON SHT S-002
- 3 16" SQUARE CMU ENTRY CANOPY SUPPORT PILASTER

FOUNDATION LEGEND

- INDICATES NEW STRUCTURAL (BEARING AND/OR SHEAR) WALL FRAMED WITH 2x4 STUDS @ 16" ON CENTER (SEE DET 1 ON SHT S-003)
- INDICATES SHEAR WALL HOLD DOWN PER DET 5 ON SHT S-003
- INDICATES WOOD SHEAR WALL SHEATHING PER DET 4 ON SHT S-003 (MINIMUM SHEATHED LENGTH NOTED IN PARENTHESIS)
- INDICATES EDGE OF FOOTING
- INDICATES EDGE OF CONCRETE SLAB-ON-GRADE
- INDICATES WOOD POST AND SIZE
- INDICATES STEP IN FOOTING PER DETAIL 3 ON SHEET S-002

FOUNDATION NOTES

- 1 SOILS SHALL BE PREPARED PER THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS AND EVALUATED BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE PRIOR TO CONSTRUCTING FOUNDATIONS. REMOVE UNDOCUMENTED FILL AND REPLACE AS COMPACTED FILL TO A DEPTH OF 3'-0" BELOW FINISH GRADE OR 1'-0" BELOW BOTTOM OF THE DEEPEST FOOTING ELEMENT (WHICHEVER RESULTS IN A DEEPER EXCAVATION). REMEDIAL GRADING SHALL EXTEND A HORIZONTAL DISTANCE OF AT LEAST 5'-0" OUTSIDE OF THE BUILDING LIMITS. THE UPPER 3'-0" OF REPLACED COMPACTED FILL SHALL CONSIST OF SOIL WITH A LOW EXPANSIVE POTENTIAL (E OF 50 OR LESS). SCARIFY AND MOISTURE CONDITION THE UPPER 1'-0" OF SOIL PRIOR TO PLACING FILL. FILL, BACKFILL AND SCARIFIED SURFACES SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AT OR SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D1557.
- 2 PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT: THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT; UTILITY TRENCHES ARE PROPERLY BACKFILLED AND COMPACTED; AND THE FOUNDATION EXCAVATIONS, THE SOILS EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.
- 3 PROVIDE A MINIMUM HORIZONTAL SETBACK OF 7 FEET FROM THE BOTTOM OUTSIDE EDGE OF ALL FOOTINGS TO DAYLIGHT AT SLOPED CONDITIONS.
- 4 HOLD DOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO CALLING FOR FOUNDATION INSPECTION.
- 5 SEE DETAIL 2 ON SHEET S-002 FOR TYPICAL REINFORCING AT FOOTING CORNERS AND INTERSECTIONS.
- 6 STEP FOOTING AS REQUIRED PER DETAIL 3 ON SHEET S-002, UNLESS OTHERWISE NOTED.
- 7 SEE DETAIL 4 ON SHEET S-002 WHERE PIPES OR CONDUITS INTERSECT FOOTINGS.
- 8 SEE DETAIL 6 ON SHEET S-002 FOR TYPICAL NON-BEARING WALL SUPPORTS.
- 9 SEE ARCHITECTURAL FOR ALL DIMENSIONS.
- 10 SHEATH EXTERIOR FACE OF ALL EXTERIOR WALLS PER MARK "6" OF THE SHEAR WALL SHEATHING SCHEDULE, DETAIL 4 ON SHEET S-003, UNLESS OTHERWISE NOTED.



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FOUNDATION PLAN

FIRE STATION 79 LIVING QUARTERS

DATE
SCALE
AS NOTED
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JOB
PWA.035.00

REVISIONS

SHEET

S-101

OF SHEETS

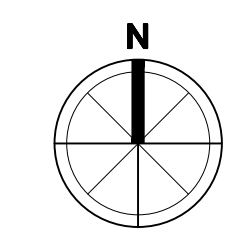
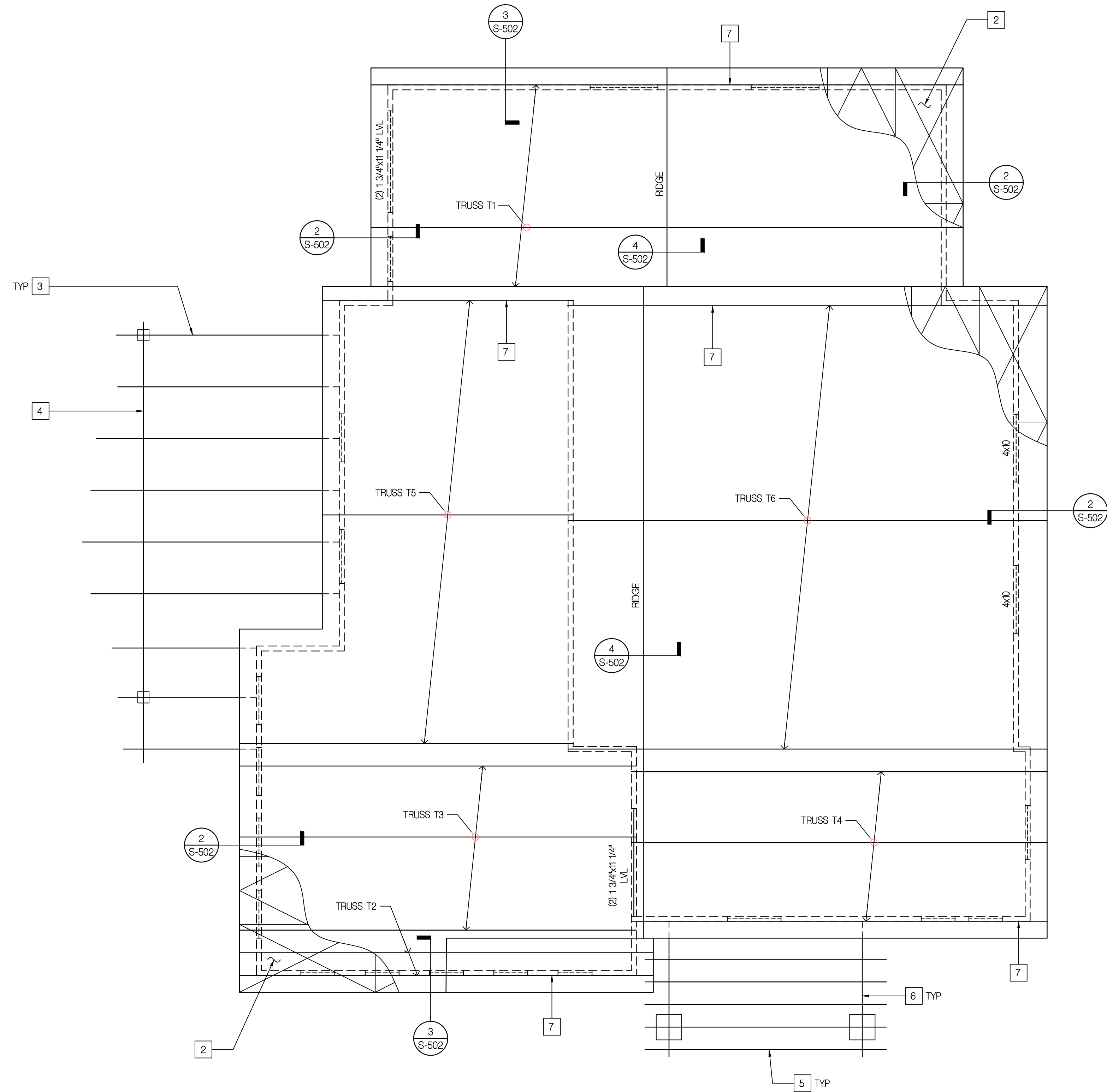


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50% Drawings February 13, 2019

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ROOF FRAMING PLAN



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

ROOF FRAMING PLAN KEYNOTES

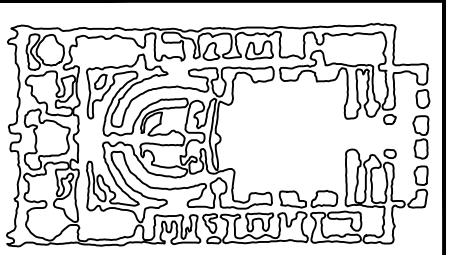
- 1 - EDGE OF ROOF
- 2 - ROOF SHEATHING PER MARK R1 OF DETAIL 6 ON SHT S-003
- 3 - 4x8 PTDF JOIST @ 36" OC
- 4 - 8x12 PTDF BEAM
- 5 - 2x8 PTDF JOIST @ 16" OC
- 6 - 2x12 PTDF BEAM
- 7 - END TRUSS

ROOF FRAMING PLAN LEGEND

- INDICATES STRUCTURAL (BEARING OR SHEAR) WALL BELOW
- - - - - INDICATES WALL OPENING BELOW, PROVIDE HEADER PER DETAIL 1 ON SHEET S-003 (UON)

ROOF FRAMING PLAN NOTES

1. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
2. SEE DETAIL 7 ON SHEET S-002 FOR TYPICAL NON-BEARING WALL SUPPORTS.
3. DOUBLE TOP PLATES PER SCHEDULE MARK D IN DETAIL 3 ON SHEET S-003 UNLESS OTHERWISE NOTED.
4. SEE DETAIL 1 ON SHEET S-002 FOR TRUSS SCHEDULE.



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ROOF FRAMING PLAN

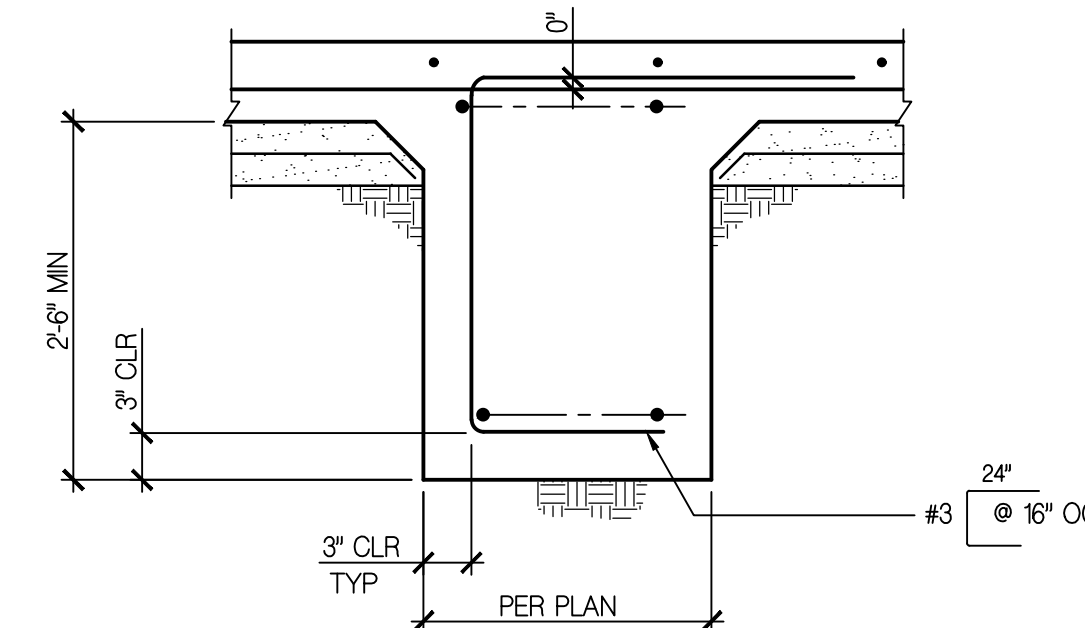
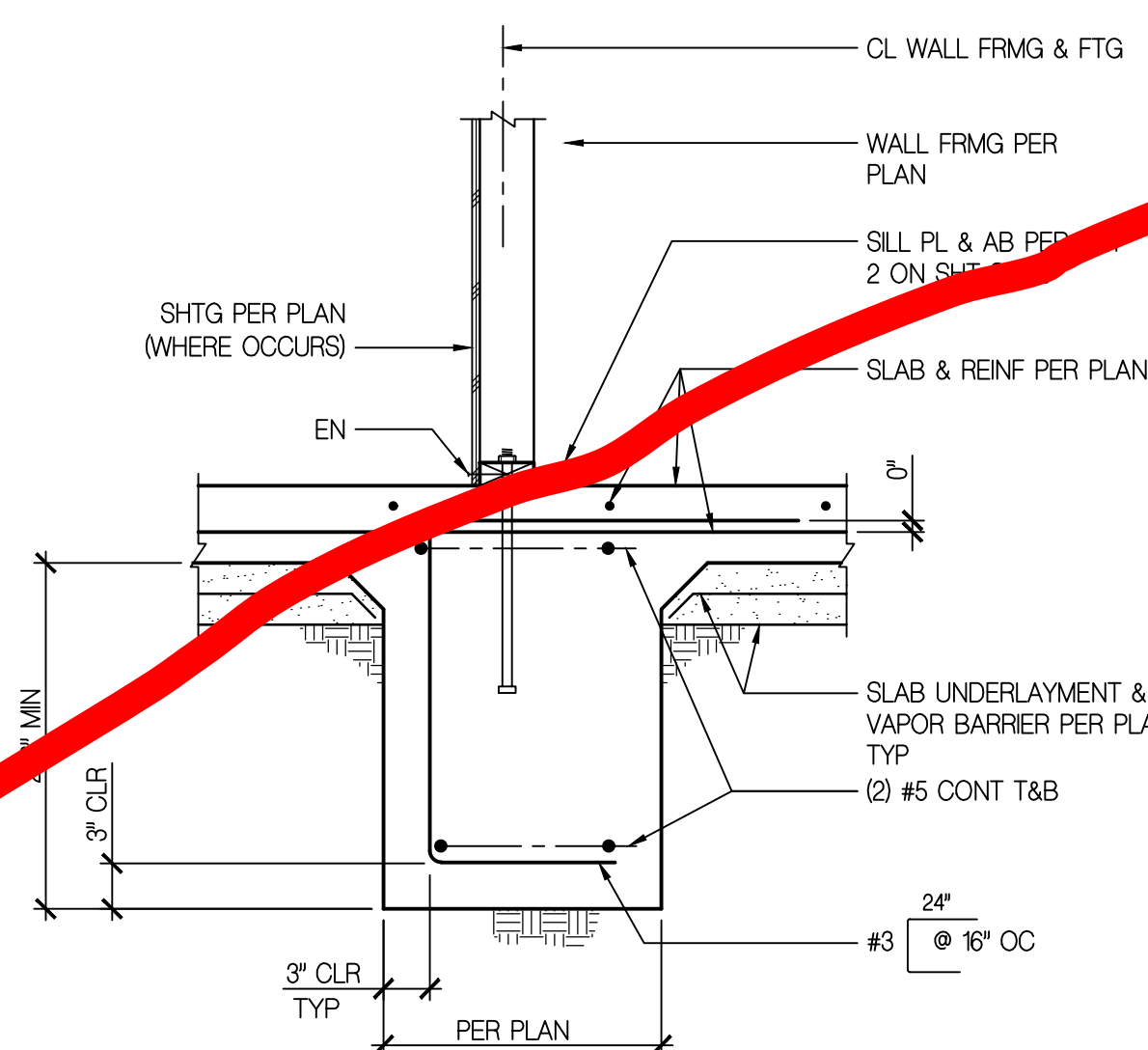
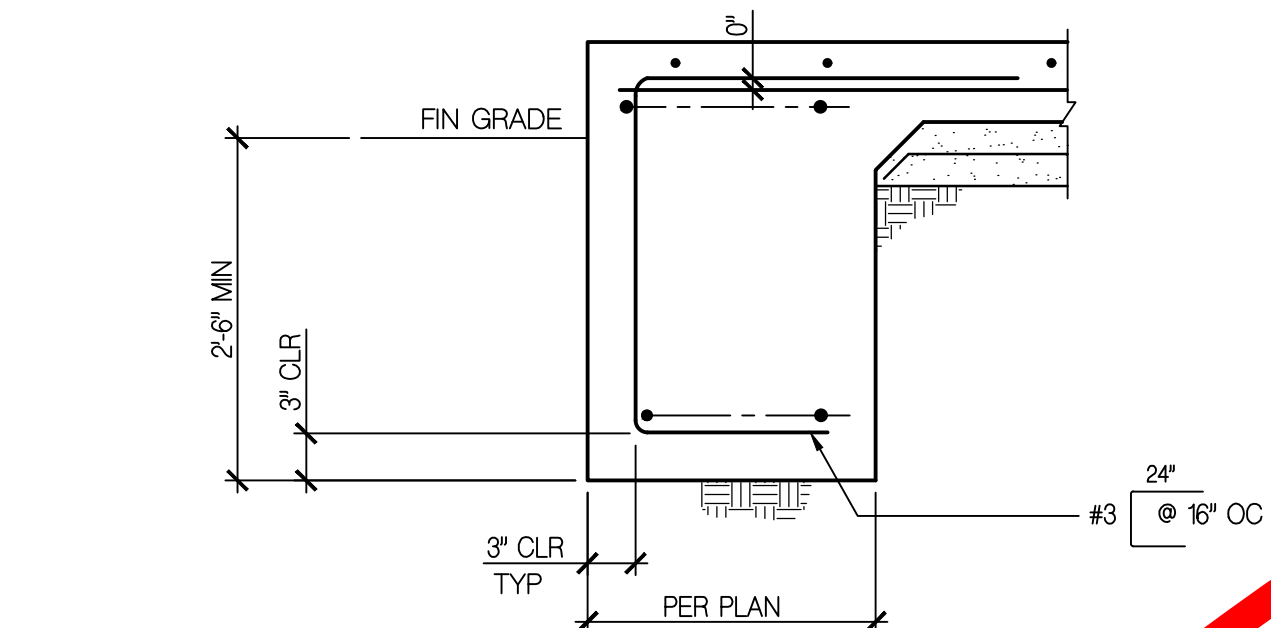
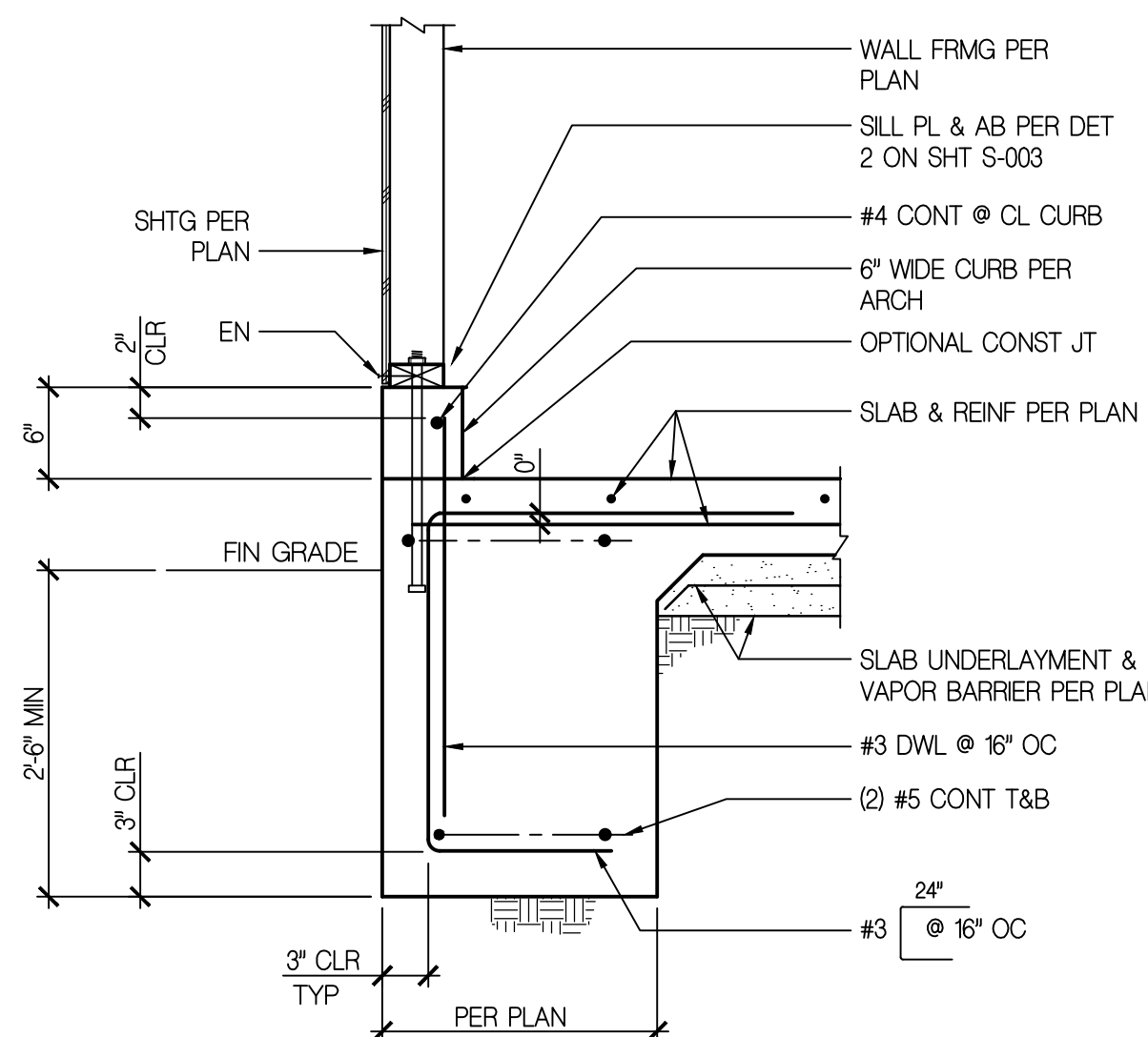
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
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REVISIONS	
SHEET	S-102

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NOTE:
SEE DETAIL 1 ON THIS SHEET FOR ITEMS SHOWN AND NOT SPECIFIED.

NOTE:
SEE DETAIL 3 ON THIS SHEET FOR ITEMS SHOWN AND NOT SPECIFIED.



FOUNDATION DETAIL

SCALE: 1" = 1'-0"

1

S-501

FOUNDATION DETAIL

SCALE: 1" = 1'-0"

2

S-501

FOUNDATION DETAIL

SCALE: 1" = 1'-0"

3

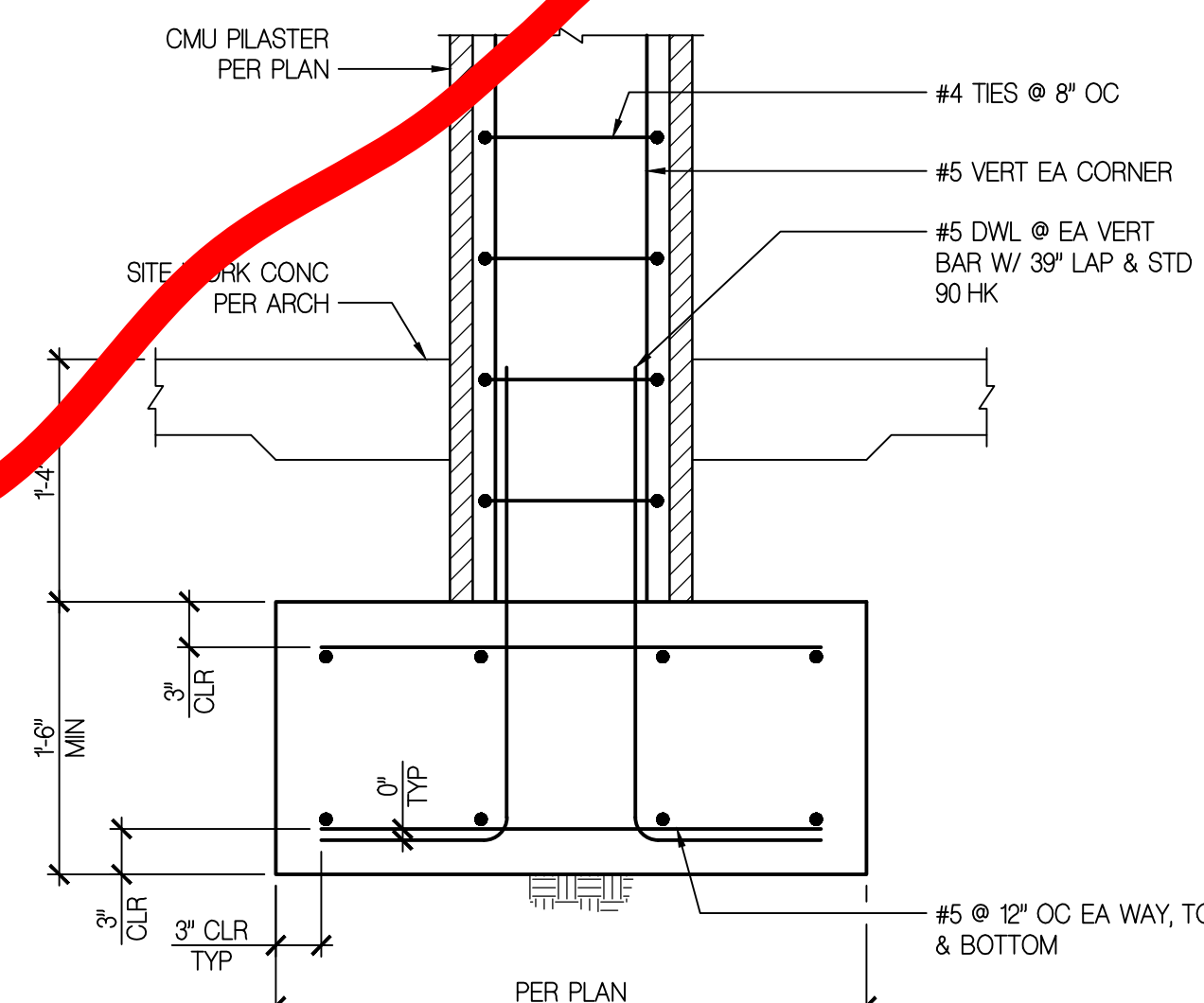
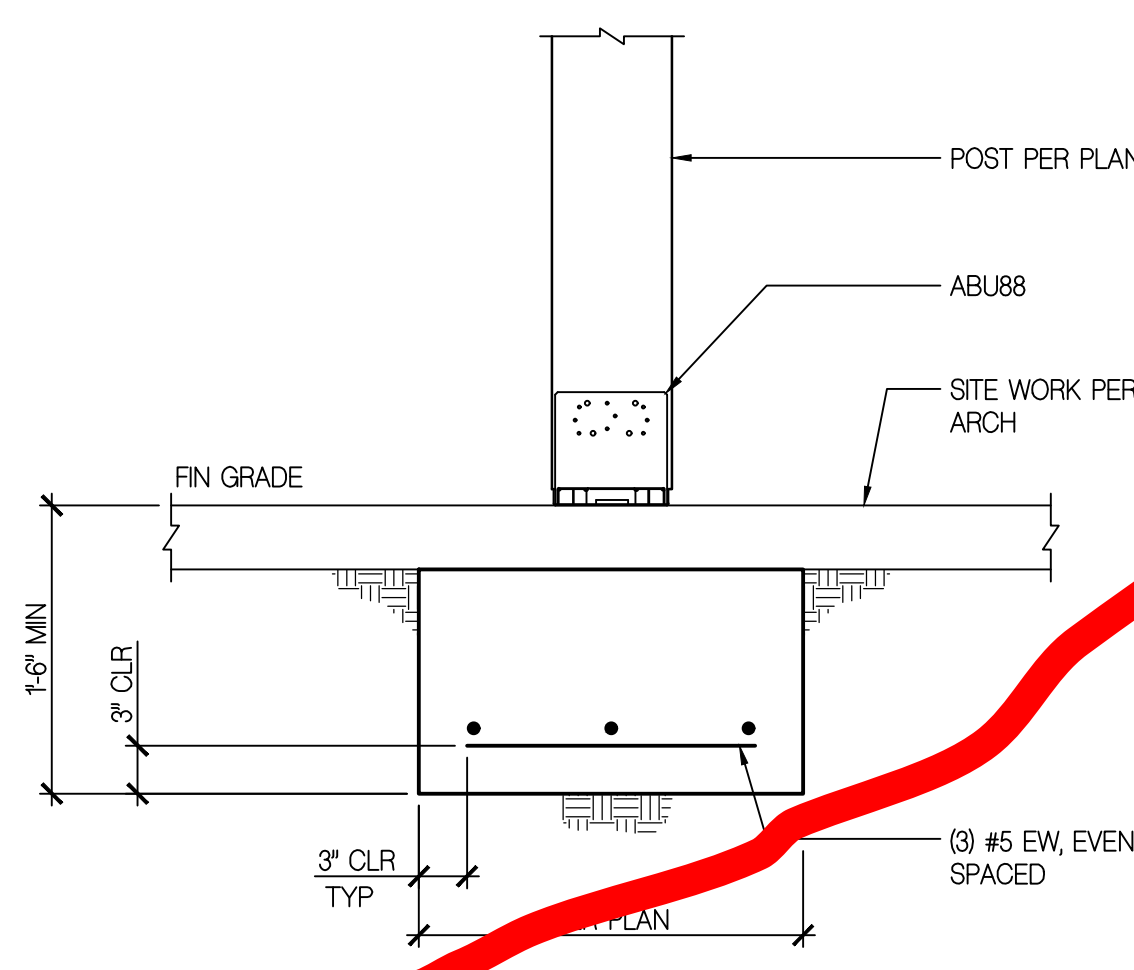
S-501

FOUNDATION DETAIL

SCALE: 1" = 1'-0"

4

S-501



FOUNDATION DETAIL

SCALE: 1" = 1'-0"

5

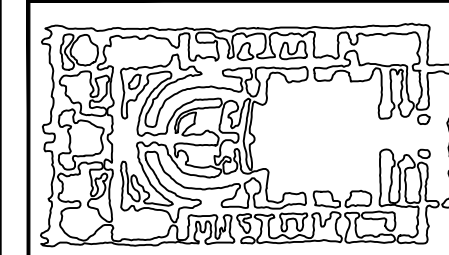
S-501

FOUNDATION DETAIL

SCALE: 1" = 1'-0"

6

S-501



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FOUNDATION AND FRAMING DETAILS
FIRE STATION 79 LIVING QUARTERS

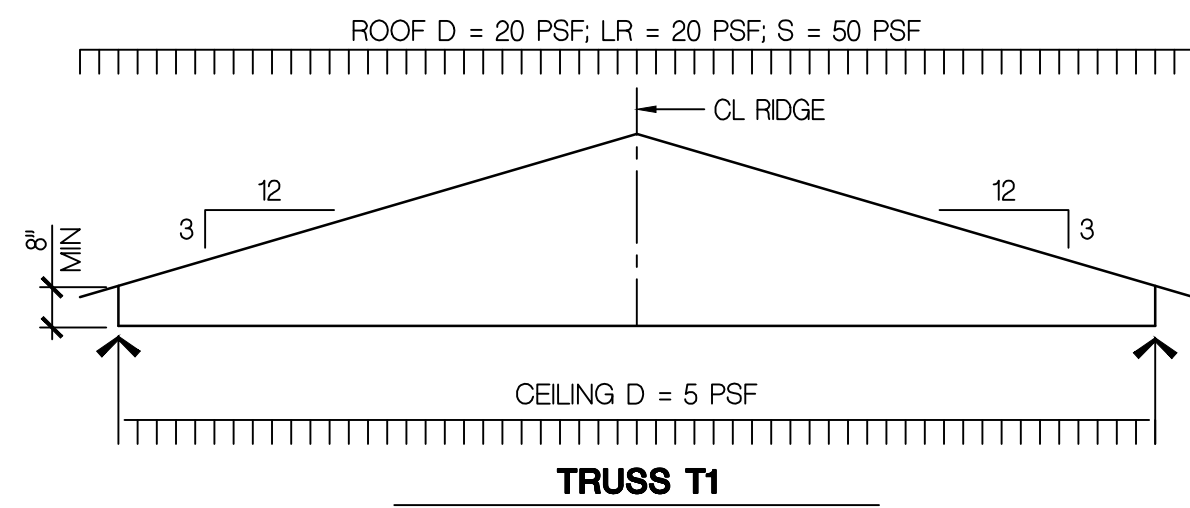
DATE	
SCALE	AS NOTED
CHECKED/DRAWN	MVB/DG
JOB	PWA.035.00
REVISIONS	
SHEET	S-501



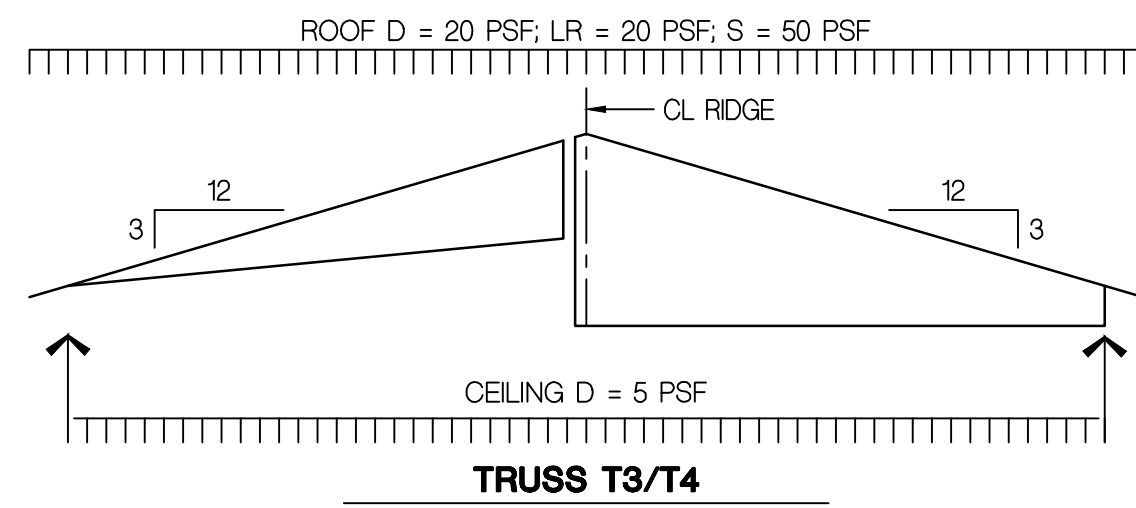
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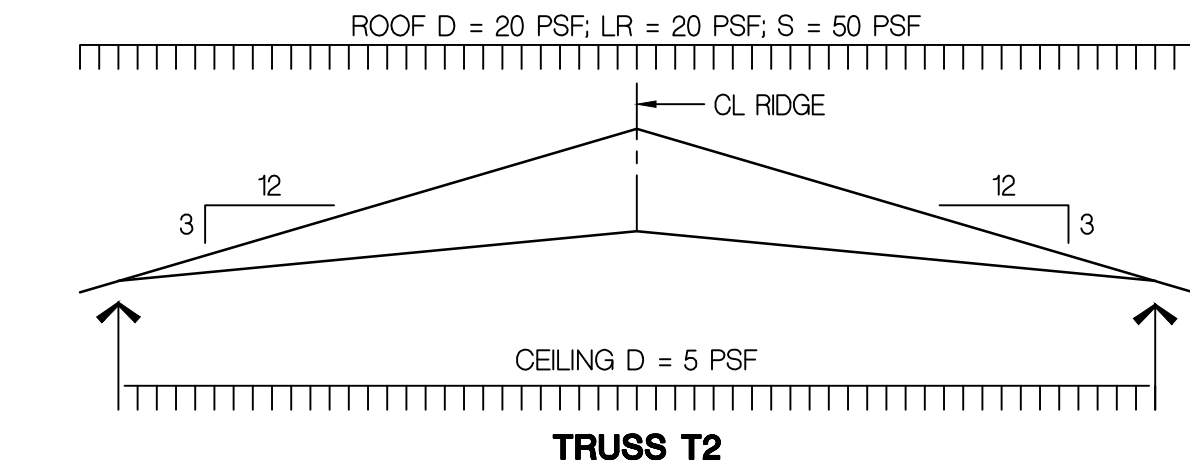
50% Drawings February 13, 2019



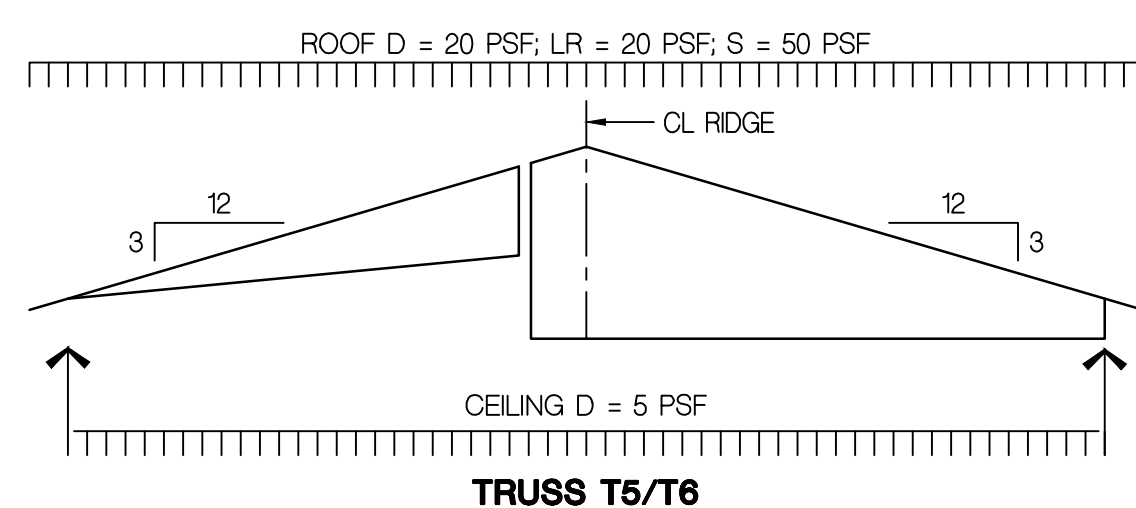
TRUSS T1



TRUSS T3/T4



TRUSS T2



TRUSS T5/T6

ROOF TRUSS NOTES:

- SEE ARCHITECTURAL FOR CEILING RISE AND RUN.
- PROVIDE 2x4 "X" BRACING AT 8'-0" OC MAX, (3) LOCATIONS MIN (1/4 SPAN POINTS) FOR ROOF TRUSSES PER TRUSS MANUFACTURER DRAWINGS.
- ROOF TRUSSES SHALL BE SPACED AT 16 INCHES ON CENTER MAXIMUM, UNLESS OTHERWISE NOTED.
- TRUSS TOP CHORD MEMBERS SHALL BE 2x6 MINIMUM, UNLESS OTHERWISE NOTED.
- THE MANUFACTURER SHALL DESIGN ROOF TRUSSES FOR UNIFORM LOADS PLUS ADDITIONAL CONCENTRATED LOADS, AXIAL LOADS, ET CETERA AS NOTED. LOADS LISTED ARE UNFACTORED. LOAD COMBINATIONS FOR DESIGN SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING CODE. ROOF LIVE LOAD HAS NOT BEEN REDUCED FOR ROOF PITCH OR TRIBUTARY AREA.
- ROOF TOTAL LOAD DEFLECTION SHALL BE LIMITED TO L/240 AND LIVE LOAD DEFLECTION TO L/360.
- ROOF TRUSS DESIGN LOADS:

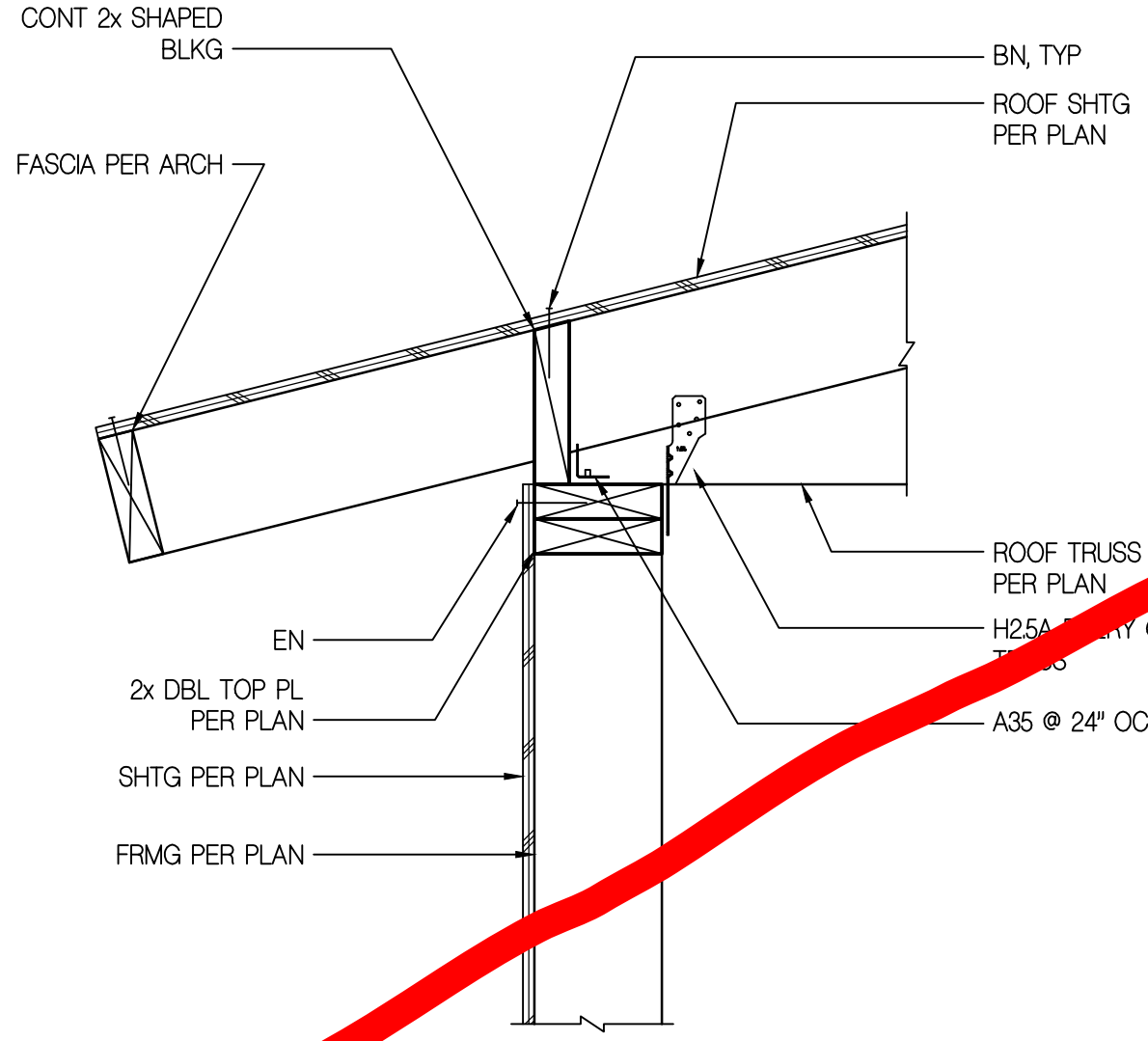
a. TOP CHORD DEAD LOAD:	20 PSF
b. TOP CHORD ROOF LIVE LOAD:	20 PSF (REDUCIBLE)
c. TOP CHORD WIND LOAD (UPLIFT):	20 PSF (NON-REVERSIBLE)
d. TOP CHORD SNOW LOAD:	30 PSF
e. BOTTOM CHORD DEAD LOAD:	5 PSF
f. BOTTOM CHORD LIVE LOAD WITH ROOF LIVE LOAD:	10 PSF (NON-CONCURRENT)
- IN ADDITION TO THE LOADS LISTED IN THE PRECEDING NOTE, ALL TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL 200 LB CONCENTRATED DEAD LOAD AT ANY ONE PANEL POINT.
- LOADS LISTED ABOVE DO NOT INCLUDE TRUSS SELF-WEIGHT. TRUSS MANUFACTURER SHALL ACCOUNT FOR TRUSS SELF-WEIGHT IN THE TRUSS DESIGN.
- WIND AND SEISMIC LOADS SHALL BE CONSIDERED REVERSIBLE, UNLESS OTHERWISE NOTED.
- ALIGN TRUSS PANEL POINTS TO ACCOMMODATE DUCT PASSAGE AND SPRINKLER BRANCH LINE PASSAGE WHERE REQUIRED BY THE ARCHITECTURAL OR MECHANICAL DRAWINGS.
- EACH TRUSS SHALL BE LEGIBLY BRANDED, MARKED OR OTHERWISE HAVE PERMANENTLY AFFIXED THERETO THE FOLLOWING INFORMATION LOCATED WITHIN 2 FEET OF THE CENTER OF THE SPAN ON THE FACE OF THE BOTTOM CHORD:
 - IDENTITY OF THE COMPANY MANUFACTURING THE TRUSS
 - THE DESIGN LOAD
 - THE SPACING OF THE TRUSSES
- CONTRACTOR SHALL SUBMIT A COMPLETE TRUSS SUBMITTAL PACKAGE SEALED AND SIGNED BY A CALIFORNIA-LICENSED PROFESSIONAL ENGINEER, INCLUDING THE FOLLOWING:
 - DRAWINGS SHOWING TRUSS LAYOUT WITH DIMENSIONS AND TRUSS IDENTIFICATION NUMBERS CORRESPONDING TO THE TRUSS CALCULATIONS
 - TRUSS CALCULATIONS INDICATING ALL TRUSS LUMBER SIZES AND GRADES
 - TRUSS-TO-TRUSS CONNECTION DETAILS INDICATING REQUIRED STRUCTURAL CONNECTORS

TRUSS SCHEDULE

SCALE: NONE

1
S-502

NOTE:
SEE DETAIL 2 ON THIS SHEET FOR ITEMS SHOWN AND NOT SPECIFIED.



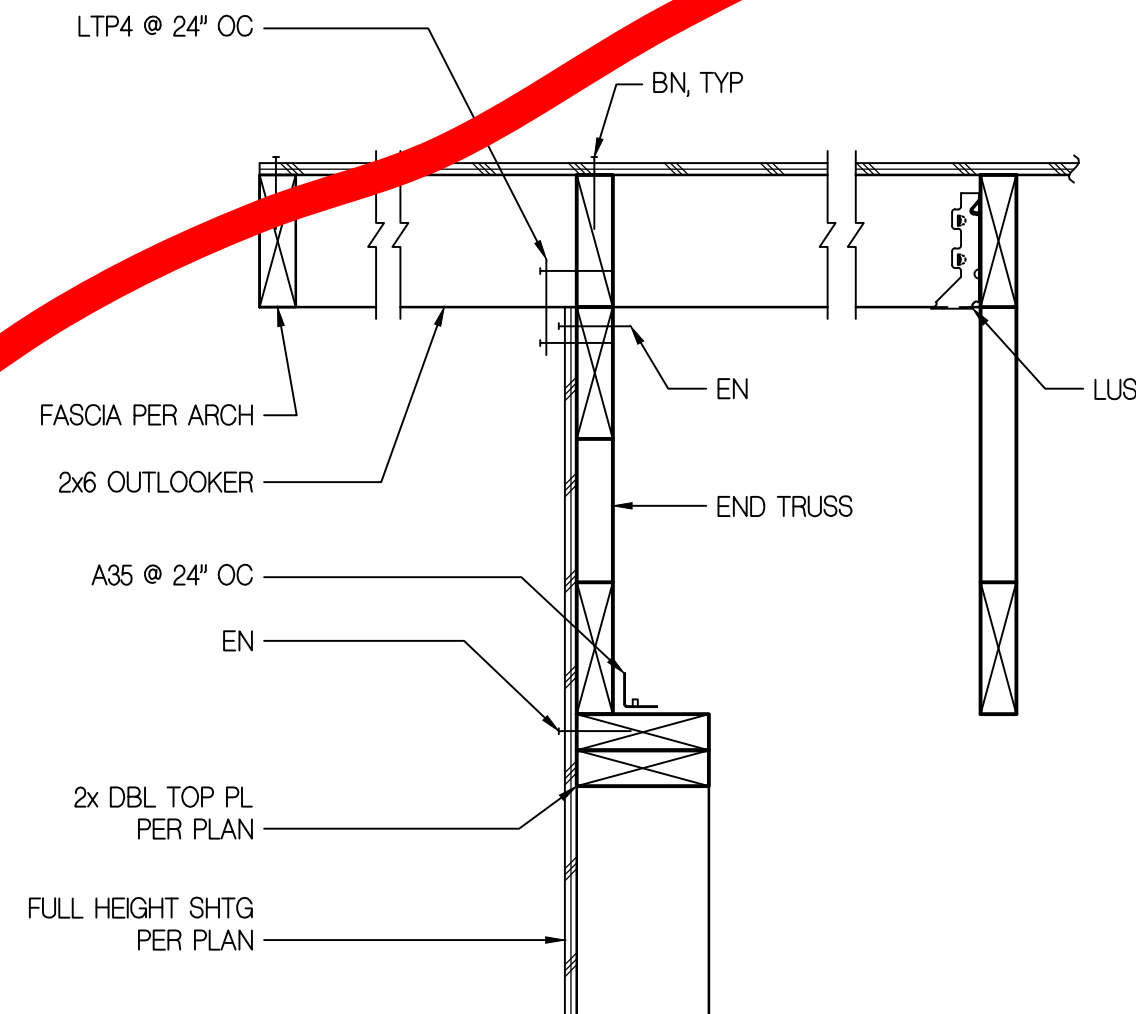
ROOF FRAMING DETAIL

2

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ROOF FRAMING DETAIL

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

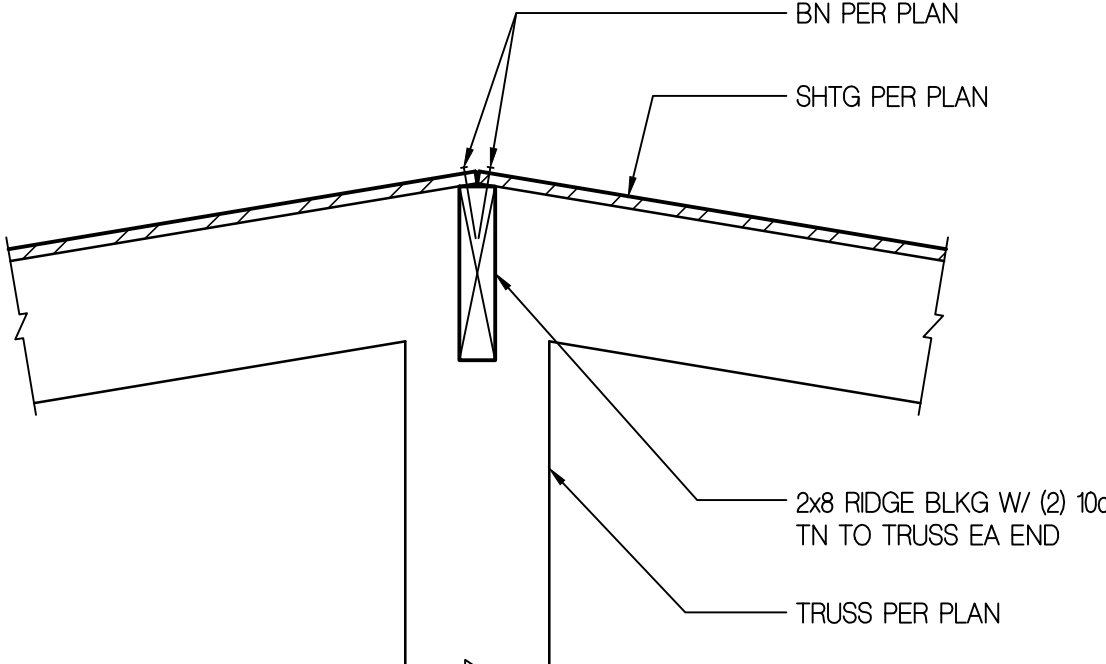


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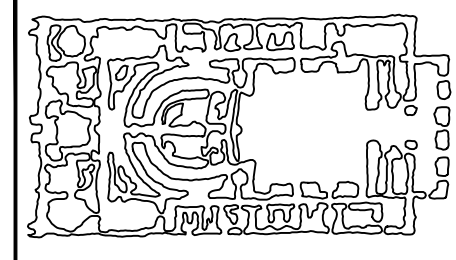
ROOF FRAMING DETAIL

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

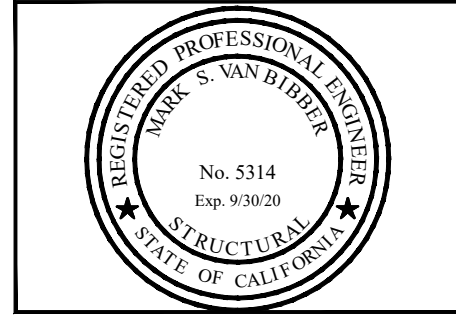


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ROOF FRAMING DETAILS
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
CHECKED BY	MVB/DG
JOB	PWA.035.00
REVISIONS	
SHEET	S-502

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MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS...

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES...
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS...

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS...

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL...
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT...

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY...

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC...

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM)...

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)

MP □ MD □ PP □ E □ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP □ MD □ PP □ E □ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM)# ___.

MP □ MD □ PP □ - OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL...

GENERAL NOTES

GENERAL NOTES:

- 1. ALL WORK OF THIS SECTION SHALL FULLY CONFORM TO THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE (C.P.C.), 2016 CALIFORNIA BUILDING CODE (C.B.C.), 2016 CALIFORNIA MECHANICAL CODE (C.M.C.), CALIFORNIA ADMINISTRATIVE CODE TITLE 24, THE CALIFORNIA GREEN STANDARDS MODEL CODE, THE AMERICAN SOCIETY OF TESTING AND MATERIALS AND APPLICABLE NFPA STANDARDS.
2. SUBSTITUTIONS: BIDDERS WISHING TO OBTAIN APPROVAL OF AN ARTICLE, DEVICE, PRODUCT, MATERIAL, FIXTURE, FORM OR TYPE OF CONSTRUCTION OTHER THAN THOSE SPECIFIED BY NAME...

- 3. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THESE DOCUMENTS AND THE REQUIREMENTS THEREIN MUST BE INCLUDED IN THE INTERPRETATION OF THE DRAWINGS AND IMPLEMENTATION OF WORK.
4. AREA SEPARATION WALLS: WHERE PLUMBING PENETRATES THE AREA SEPARATION WALL SURFACE, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL BE ONLY OF METAL.

UTILITY NOTES:

- 1. EXISTING GAS PIPING SHOWN TO REMAIN SHALL BE CAPPED AND PROTECTED DURING CONSTRUCTION. FOLLOWING COMPLETION OF WORK THE ENTIRE GAS SYSTEM SHALL BE PURGED WITH INERT GAS IN ACCORDANCE WITH NFPA 54 CHAPTER 8 AND THE SERVING UTILITY REQUIREMENTS.
2. WATER, SEWER AND STORM DRAIN PIPING ON THE PLUMBING PLANS IS SHOWN UP TO THE 5-FOOT LINE. FOR CONTINUATION, SEE CIVIL DRAWINGS. VERIFY ALL POINT OF CONNECTIONS PRIOR TO INSTALLATION OF ANY PIPING.
3. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AND OTHER UNDERGROUND OBSTRUCTIONS AND CONDITIONS ARE GENERALLY UNKNOWN AND IF SHOWN ARE AT APPROXIMATE LOCATIONS...

- 4. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE IN EXPOSING UNDERGROUND SERVICES. IN ADDITION TO WHAT IS NOTED ABOVE, THE CONTRACTOR SHOULD REQUEST THAT UTILITY AGENCIES LOCATE AND MARK ANY UNDERGROUND PIPING OR CABLES THAT MAY BE IN THE AREA OF WORK.
5. PRIOR TO INSTALLATION OF ANY SEWER AND STORM DRAIN LINES, THE CONTRACTOR SHALL PHYSICALLY VERIFY THE ELEVATION, SIZE AND MATERIAL AT THE POINT OF CONNECTION...

ENERGY CONSERVATION NOTES:

- 1. ALL SINK FAUCETS AND SHOWERHEADS USED FOR OTHER THAN SAFETY REASONS SHALL BE EQUIPPED WITH FLOW CONTROL DEVICES TO LIMIT TOTAL FLOW TO A MAXIMUM OF 2.2 GALLONS PER MINUTE AND SHALL BE LISTED ON THE CALIFORNIA ENERGY COMMISSION DIRECTORY OF CERTIFIED SHOWERHEADS AND FAUCETS.

INTERRUPTION OF SERVICES AND DEMOLITION NOTES:

- 1. DEMOLITION, CAPPING AND REROUTING SHALL BE PERFORMED AS SHOWN TO ACCOMMODATE NEW CONSTRUCTION.
2. EXISTING SERVICES REQUIRED TO STAY IN OPERATION IN AREAS NOT REMODELED SHALL BE MAINTAINED, REROUTED OR OTHERWISE PROVIDED WITH TEMPORARY CONNECTIONS TO PREVENT INTERRUPTIONS.
3. IF IMPOSSIBLE TO PREVENT INTERRUPTIONS, CONNECTIONS SHALL BE PERFORMED DURING "OFF-HOURS" AND COORDINATED WITH THE OWNER'S REPRESENTATIVE.
4. PROVIDE A MINIMUM OF SEVEN (7) DAYS WRITTEN ADVANCE NOTICE OF INTERRUPTION. DO NOT INTERRUPT SERVICES WITHOUT WRITTEN CONSENT OF THE OWNER.
5. EXISTING PIPING FIXTURES AND EQUIPMENT ARE SHOWN AT APPROXIMATE LOCATIONS.
6. CONTRACTOR SHALL ENSURE THAT ALL EXISTING TO REMAIN PLUMBING FIXTURES ARE RECONNECTED TO NEW DOMESTIC WATER SYSTEM AND FULLY OPERATIONAL.
7. CONTRACTOR SHALL ENSURE THAT ALL EXISTING PIPING SYSTEMS IN THE AREA OF WORK, WHETHER DIRECTLY INVOLVED IN THE CONSTRUCTION OR NOT, ARE FULLY OPERATIONAL AT THE CONCLUSION OF WORK.

GENERAL NOTES

FIXTURES:

- 1. ALL FIXTURES SHALL BE NEW, APPROVED, FREE FROM FLAWS AND BLEMISHES WITH CLEAR AND CLEAN FINISHED SURFACES.
2. FOR FIXTURE LOCATIONS SEE ARCHITECTURAL PLANS.
3. PROVIDE ANGLE STOPS AT HOT AND COLD WATER SUPPLIES TO EACH FIXTURE. STOPS SHALL BE LOOSE KEY QUARTER TURN STOP, BRASS BALL AND STEM WITH POLISHED CHROME-PLATED BRASS ESCUTCHEONS, BRASSCRAFT, NIBCO OR EQUAL.
4. ALL PLUMBING FIXTURES SHOWN ON DRAWINGS AND AS LISTED ON THE DRAWING FIXTURE SCHEDULE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FIXTURES AND TRIM SHALL BE PROPERLY ANCHORED AND CAULKED ALONG ALL JOINTS.
5. ALL WALL PENETRATIONS SHALL BE PROVIDED WITH POLISHED CHROME-PLATED CAST BRASS WALL ESCUTCHEONS.
6. FIXTURE TRAPS ABOVE FLOOR SHALL BE CHROME PLATED "P" TRAPS WITH BRONZE NUTS UNLESS OTHERWISE INDICATED. TRAP ARMS SHALL BE 1/2 GAUGE CHROME-PLATED BRASS.
7. HOSE BIBBS: PERMANENT VACUUM BREAKERS SHALL BE INCLUDED WITH ALL HOSE BIBBS.

PIPING:

- 1. ALL PIPING PENETRATING RATED WALLS OR FLOORS SHALL HAVE FIRESTOP ASSEMBLY MATCHING WALL OR FLOOR RATING. ALL FLOORS ARE ONE HOUR RATED AND FOR LOCATIONS OF RATED WALLS SEE ARCHITECTURAL DWGS.
2. PIPING PENETRATING FOUNDATION WALLS SHALL BE PROVIDED WITH STANDARD WEIGHT GALVANIZED STEEL PIPE SLEEVES TWO PIPE SIZES LARGER THAN PIPE PASSING THRU AND WITH VOID FILLED WITH MANUFACTURED SLEEVE SEAL SYSTEM (METRAFLEX OR EQUAL).
3. ALL PIPING PENETRATING FOUNDATION WALLS AND FLOORS OR WHICH WILL COME INTO DIRECT CONTACT WITH CONCRETE SHALL BE PROVIDED WITH POLYETHYLENE PIPE SHIELDING INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS...

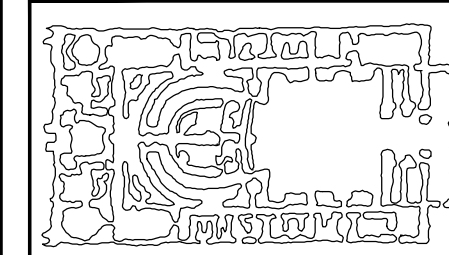
TESTS AND ADJUSTMENTS:

- 1. THE NEW PLUMBING SYSTEM SHALL BE FLUSHED AND THEN TESTED PER LOCAL CODE REQUIREMENTS AND ALL DEFECTS CORRECTED WITH NEW MATERIALS.
2. NO PIPING WORK, FIXTURES, OR EQUIPMENT SHALL BE CONCEALED OR COVERED UNTIL INSPECTED BY ENGINEER, WHO SHALL BE NOTIFIED WHEN THE WORK IS LEAK-TIGHT AND READY FOR INSPECTION. ALL TESTS SHALL BE REPEATED AS REQUIRED BY THOSE MAKING THE INSPECTION.
3. ALL NEW DOMESTIC WATER PIPING SHALL BE FLUSHED OUT, TESTED AT 150 PSIG AND SHALL BE LEFT UNDER PRESSURE OF SUPPLY MAIN OR A MINIMUM OF 50 PSIG FOR THE REMAINDER OF THE CONSTRUCTION PERIOD. NO AIR TESTING IS ALLOWED. TESTS ARE TO BE APPLIED FOR A MINIMUM PERIOD OF ONE HOUR AND UNTIL TESTS ARE COMPLETE. FINAL PRESSURES AT THE END OF THE TEST PERIOD SHALL BE NOT MORE NOR LESS THAN THAT CAUSED BY EXPANSION OR CONTRACTION OF THE TEST MEDIUM DUE TO TEMPERATURE CHANGES...
4. PLUMBING FIXTURES SHALL BE FILLED WITH WATER AND CHECKED FOR LEAKS AND RESTRICTED DRAINAGE FLOW. FAUCET AERATORS AND SHOWER HEADS SHALL BE REMOVED AND CLEANED THOROUGHLY.
5. SOIL, WASTE, VENT AND CONDENSATE PIPING SHALL BE TESTED WITH A MINIMUM OF 10 FOOT OF HEAD AT EACH JOINT FOR A MINIMUM OF THREE HOURS WITH NO LOSS IN HEAD.
6. ALL NEW AND EXISTING GAS PIPING SHALL BE TESTED. PIPING CARRYING GAS AT PRESSURE LESS THAN 14 INCH WATER COLUMN SHALL BE TESTED AT NOT LESS THAN 3 PSI FOR A PERIOD OF ONE HOUR MINIMUM WITH NO LOSS IN PRESSURE...

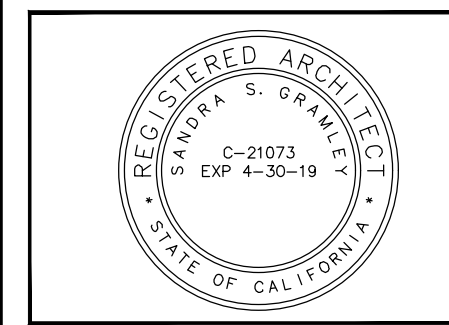
IN ADDITION TO THE UTILITY LOCATION WORK NOTED ABOVE, THE CONTRACTOR SHALL PROVIDE VIDEO RECORDING OF EXISTING UNDERGROUND SEWER LINES. RECORDING SHALL INCLUDE ALL EXISTING PIPING, WHETHER DIRECTLY AFFECTED BY NEW WORK OR NOT. ALL PIPES RECORDED ON THE VIDEO SHALL BE SHOWN WITH DIMENSIONS TO PERMANENT WALLS ON FULL SIZE AND 11x17 DRAWINGS WITH REFERENCES TO RESPECTIVE VIDEO. A WRITTEN REPORT SHALL BE PROVIDED EVALUATING EACH SEPARATE PIPE AND IDENTIFYING AREAS WHERE REPLACEMENT MAY BE REQUIRED...

PLUMBING LEGEND

Table with columns: SYMBOL, ABBR., DESCRIPTION. Lists plumbing symbols and abbreviations such as POC, EX, R, W OR S, GW, V, IW, CD, CW, HW, HWR, TP, G, MPG, BV, GC, PRV, GPR, RPBP, P&TRV, FD, FS, GCO, FCO, WCO, HB, TP, WHA, X, U, DN, UP, VTR, AP, B/G, CFH, DFU, ET, FF, FVJU, FTU, GPF, GPM, IE, L, SS, TYP, U, VTR, VPH/Hz, WC, WH, WSFU.



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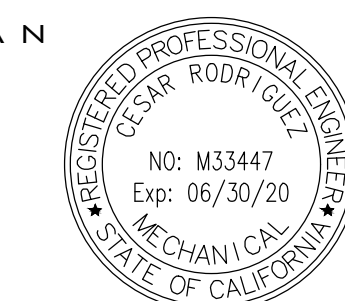
COUNTY OF SAN DIEGO DEPARTMENT OF GENERAL SERVICES 5555 OVERLAND AVE. #2207 SAN DIEGO, CA 92123

PLUMBING LEGEND AND GENERAL NOTES FIRE STATION 79 LIVING QUARTERS

DATE: SCALE: AS NOTED CHECKED/DRAWN: BCD/P JOB: PWA NO. ---

REVISIONS

TURPIN & RATTAN ENGINEERING, INC. CONSULTING ENGINEERS 4719 PALM AVENUE LA MESA, CA 91941-5921 619 / 466 / 6224 FAX 466 / 6233 E-MAIL: ENGINEER@TREIBD.COM TREI PROJECT # 17426



PLAN 17426-SSD - COSD BALDWIN MOUNTAIN ESTD LIVING QUARTERS\17426-SSD\MAPS\DWG\17426-SSD_P-001_PLUMBING_LEGEND_AND_GENERAL_NOTES.DWG CREATED: 1/14/2019 10:27:19 AM

INSTANTANEOUS WATER HEATER SCHEDULE

ITEM	LOCATION	MANUFACTURER MODEL NUMBER	FLOW RATE (GPM)	MINIMUM OPERATING PRESSURE (PSIG)	MAXIMUM OPERATING PRESSURE (PSIG)	TEMPERATURE RISE (°F)	ELECTRICAL		MAXIMUM OPERATING WEIGHT (LBS)	NOTES
							V/PH	W		
EWH-1	ADA RESTROOM	CHRONOMITE, MODEL: M-20L	0.5	25	80	57	208/1	4160	25	-

DOMESTIC HOT WATER STORAGE TANK SCHEDULE

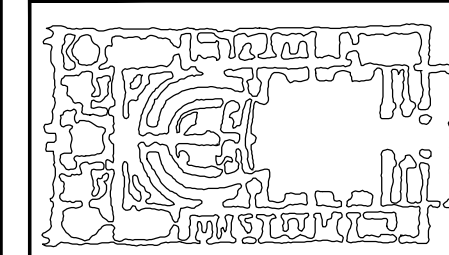
UNIT TAG	MODEL NUMBER	SERVICE	RECOVERY RATE (GPH) @ 90 F	STORAGE GALLON	INPUT (BTUs)	ELECTRICAL DATA			WATER TEMPERATURE		OPERATING WEIGHT (LBS.)	REMARKS
						VOLT	AMPS	HZ	ENT	LVG		
WH-2	A.O.SMITH GPLV-40-211 PROPANE	DOMESTIC HOT WATER	45	40	40,000				55	120	200	

PLUMBING FIXTURE SCHEDULE

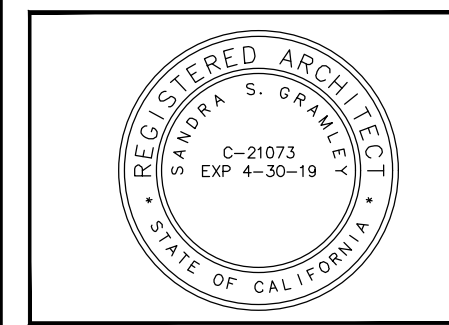
ITEM	FIXTURE	ROUGH-IN CONNECTIONS					REMARKS
		TRAP	WASTE	VENT	CW	HW	
WC-1	WATER CLOSET (ACCESSIBLE)	INT.	4"	2"	1"	-	AMERICAN STANDARD "MADERA" 3461.576 ELONGATED, FLOOR MOUNTED FLUSH VALVE. PROVIDE COMPLETE WITH SENSOR SLOAN ROYAL 111 RW SFSM-1.28 FLUSH VALVE, OFF-FRONT SEAT LESS COVER BEMIS 1955CTFR ANTIMICROBIAL WITH STA-TITE FASTENERS, WALL CUT-CHEON, BOLT CAPS AND SUPPLY WITH STOP. ALL EXPOSED METAL PARTS SHALL BE CHROME PLATED. 1.28 GPF MAXIMUM. OR EQUAL.
WC-2	WATER CLOSET (LIVING QUARTERS)	INT.	4"	2"	3/4"	-	AMERICAN STANDARD CADET FloWise ELONGATED PRESSURE ASSISTED MODEL # 2467.001. WHITE VITREOUS CHINA, ADA HEIGHT. 1.1 GPF.
L-1	LAVATORY (ACCESSIBLE)	1-1/2"	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD NO. 9482.000 "OVALYN", 19" X 16", VITREOUS CHINA UNDER COUNTER MOUNTED WITH REAR OVERFLOW, FAUCET SLOAN SENSOR MODEL HEBF-187-BAT-ADM-CP-0.5GPM-MLM-R-BT-FCT, CHROME PLATED BRASS, VANDAL RESISTANT AERATOR WITH 0.4 GPM FLOW RATE, GRID DRAIN, WALL SUPPORT AND QUARTER TURN LOOSE KEY STOPS. AB1953 COMPLIANT. INSULATE FIXTURE TRAPS AND WATER SUPPLIES WITH TRUEBRO LAV-GUARD WHITE VINYL. MOUNT AT ACCESSIBLE HEIGHT. OR EQUAL.
L-2	LAVATORY (LIVING QUARTERS)	1-1/2"	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD NO. 9482.000 "OVALYN", 19" X 16", VITREOUS CHINA UNDER COUNTER MOUNTED WITH REAR OVERFLOW, FAUCET SLOAN SENSOR MODEL HEBF-187-BAT-ADM-CP-0.5GPM-MLM-R-BT-FCT, CHROME PLATED BRASS, VANDAL RESISTANT AERATOR WITH 0.4 GPM FLOW RATE, GRID DRAIN, WALL SUPPORT AND QUARTER TURN LOOSE KEY STOPS. AB1953 COMPLIANT. INSULATE FIXTURE TRAPS AND WATER SUPPLIES WITH TRUEBRO LAV-GUARD WHITE VINYL. MOUNT AT ACCESSIBLE HEIGHT. OR EQUAL.
S-1	2 COMP. SINK	2"	2"	1-1/2"	1/2"	1/2"	ELKAY "SERTONE" #LRAD-2219, 22"x19 1/2"x 6-1/2" DEEP DOUBLE COMPARTMENT WITH OFF CENTER REAR DRAIN, 18 GAUGE STAINLESS STEEL SELF RIMMING SINK WITH LEDGE, FAUCET: ELKAY #LKE-4000 SINGLE LEVER FAUCET WITH PULL OUT SWING SPOUT AND ROSE SPRAY OUTLET. 1.5 GPM MAX. FILTER: AQUA-PURE AP200 IN-LINE CARBON FILTER WITH (2) REPLACEMENT CARTRIDGES. (HIGH FLOW RATE = 1.75 GPM) OR EQUAL.
SS-1	SERVICE SINK	3"	3"	2"	-	3/4"	AMERICAN STANDARD, LAKEWELL MODEL #7692.008 ENAMELED CAST IRON 22" X 18" X 10-1/2" DEEP. FAUCET MODEL#8350.235 EXPOSED YOKE WALL MOUNT UTILITY FAUCET. RAP STANDARD. 7798.030 CAST IRON P-TRAP.
WB-1	WASHER BOX	2"	2"	1/2"	3/4"	3/4"	SIOUX CHIEF "OX BOX" WITH 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS. 3/4" HOSE CONNECTIONS. OR EQUAL.
FD-1	FLOOR DRAIN	2"	2"	2"	-	-	J.R. SMITH #2005-A, ZURN Z415-B, MIFAB F1100-C CAST IRON BODY WITH 5" DIAMETER NICKEL-BRONZE ADJUSTABLE STRAINER, CLAMPING COLLAR, SEDIMENT BUCKET, 1/2" TRAP PRIMER CONNECTION AND CAST IRON TRAP.
TP-1	TRAP PRIMER	-	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS "PRIME-RITE" TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, WITH DISTRIBUTION UNIT WHERE REQUIRED, PROVIDE COMPLETE WITH 1/2" COPPER TYPE "L" PIPE(S) TO RECEPTOR(S) AND BALL VALVE FOR SHUTOFF. TRAP PRIMERS CONCEALED IN WALL SHALL BE PROVIDED WITH A MINIMUM 12"x12" LOCKABLE STAINLESS STEEL ACCESS PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. OR EQUAL.
WHA-1	WATER HAMMER ARRESTOR	-	-	-	-	-	MIFAB WHB SERIES, J.R. SMITH 5000 SERIES OR ZURN NO. Z-1700 SERIES, BELLOWS TYPE WATER HAMMER ARRESTOR IN ACCORDANCE WITH PDI-WH-201 STANDARDS. PROVIDE UNITS INSTALLED IN WALL WITH A MINIMUM 12"x12" LOCKABLE STAINLESS STEEL ACCESS PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. OR EQUAL.

PIPE MATERIAL SCHEDULE

SERVICE	MATERIALS
SANITARY SEWER, WASTE AND VENT ABOVE GRADE	CISPI STD 301, ASTM A74 CAST IRON NO HUB. SERVICE WEIGHT WITH <u>HEAVY DUTY</u> STAINLESS STEEL COUPLINGS WITH ELASTOMER GASKET & STAINLESS STEEL BOLTS.
SANITARY SEWER, WASTE AND VENT BELOW GRADE UNDER BUILDING	CISPI STD 301, ASTM A74 HUB END CAST IRON WITH ASTM C564 GASKETS OR CISPI STD 301, ASTM A74 NO HUB CAST IRON WITH HEAVY DUTY STAINLESS STEEL COUPLINGS (HUSKY SD 4000)
SANITARY SEWER, WASTE AND VENT BELOW GRADE OUTSIDE OF BUILDING	ASTM D2665 SOLID CORE BELL END SCH. 40 PVC DWV INSTALLED PER ASTM D2321 REQUIREMENTS
POTABLE WATER ABOVE GRADE	ASTM B88 TYPE L COPPER TUBE, DRAWN TEMPER WITH ANSI B16.22 WROUGHT COPPER SOLDER-JOINT FITTINGS, ASTM B32 95-5 TIN-ANTIMONY SOLDER.
POTABLE WATER BELOW GRADE	(WITHIN BUILDING): ASTM B88 TYPE K COPPER TUBE, SOFT TEMPER WITH BRAZED ANSI B16.22 WROUGHT COPPER SOLDER-JOINT FITTINGS WHERE REQUIRED. BAG7 SILVER SOLDER. (OUTSIDE OF BUILDING): ASTM D2665 SCH. 40



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COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
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SAN DIEGO, CA 92123



PLUMBING SCHEDULES
FIRE STATION 79 LIVING QUARTERS

DATE	
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CHECKED/DRAWN	
BY/OF	
JOB	
PWA NO.	

REVISIONS

NO.	DESCRIPTION
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SHEET

P-002

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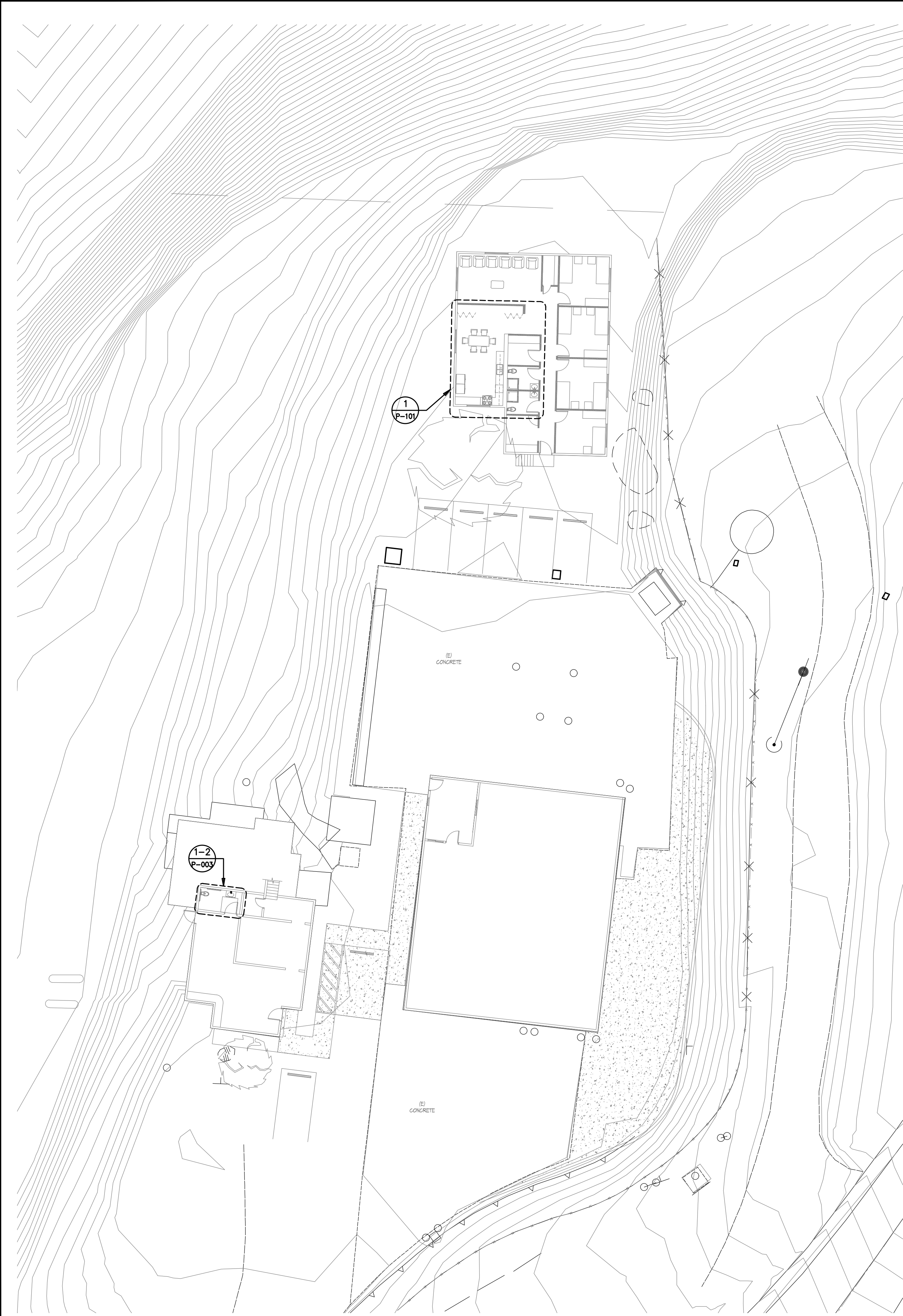
TREI PROJECT # 17426



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January 16, 2019
Design Development

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PLUMBING SITE PLAN

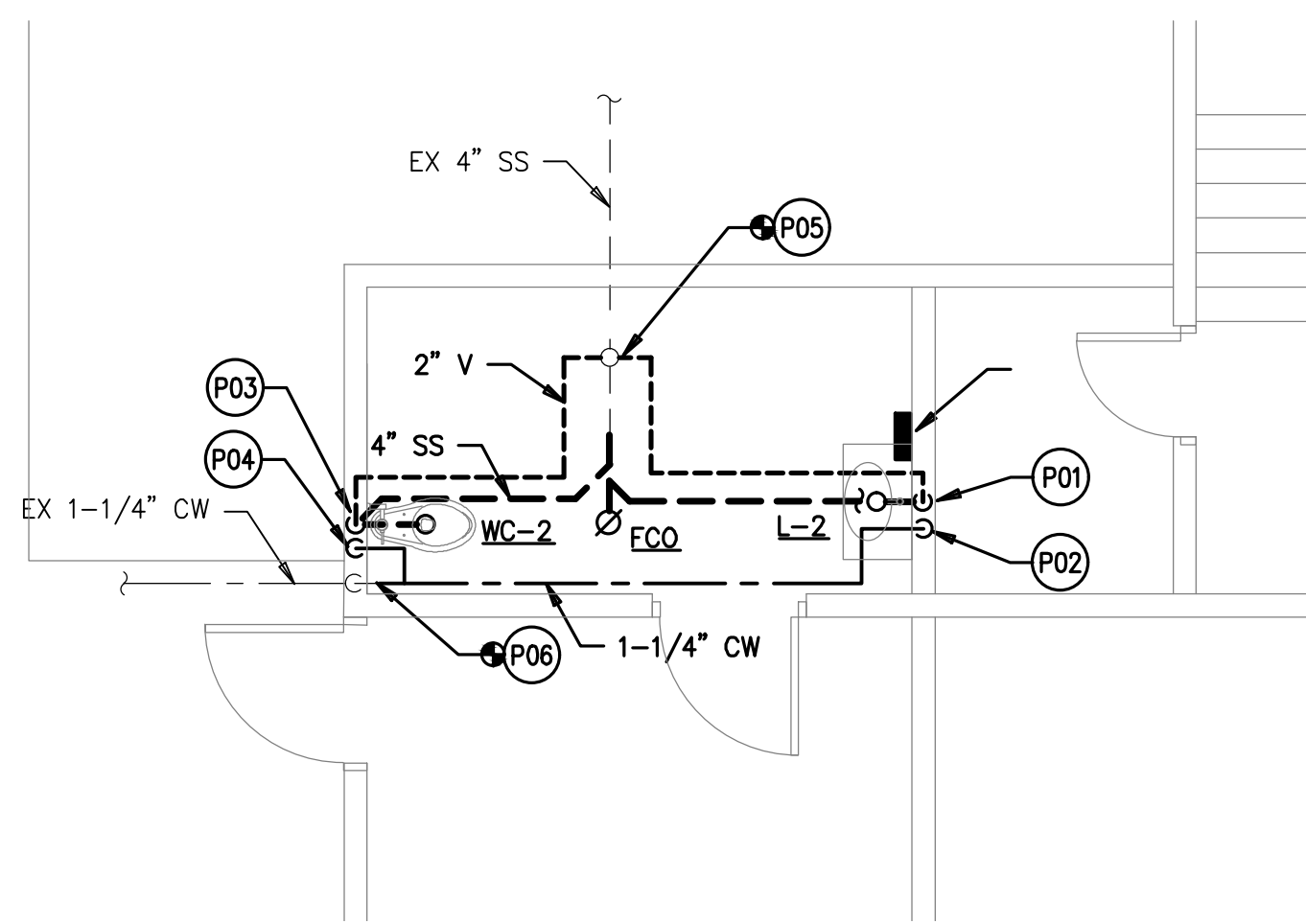
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 1/16" = 1'-0"

KEYNOTES

- (P01) 2" WASTE DOWN & 1-1/2" VENT UP TO ABOVE CEILING.
- (P02) 1/2" CW DOWN TO LAVATORY.
- (P03) 4" WASTE DOWN & 2" VENT UP TO ABOVE CEILING.
- (P04) 1" CW DOWN TO WATER CLOSET.
- (P05) POINT OF CONNECTION TO EXISTING SEWER BELOW FLOOR (CONTRACTOR FIELD VERIFY EXACT LOCATION)
- (P06) POINT OF CONNECTION TO EXISTING COLD WATER ABOVE CEILING (CONTRACTOR FIELD VERIFY EXACT LOCATION)

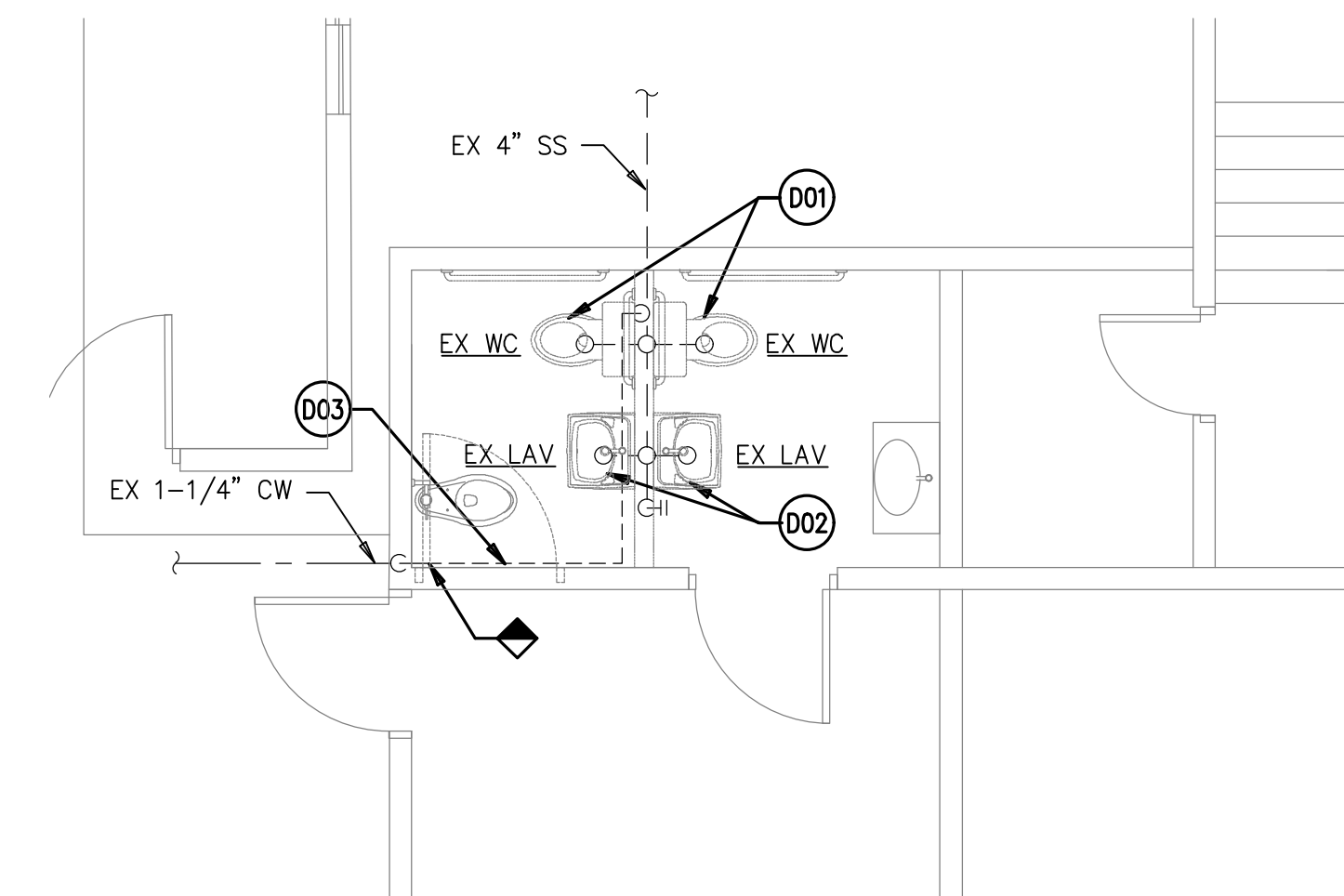
DEMO KEYNOTES

- (D01) REMOVE EXISTING TOILET, INCLUDING ALL ASSOCIATED PIPES AND FITTINGS IN WALL.
- (D02) REMOVE EXISTING LAVATORY, INCLUDING FAUCET, AND ALL ASSOCIATED TRAPS, PIPES AND FITTINGS IN WALL.
- (D03) REMOVE EXISTING CW ABOVE CEILING, INCLUDING ALL ASSOCIATED FITTINGS AND HANGER SUPPORTS.



ADA RESTROOM AT COMMUNITY BLDG.

SCALE: 1/4"=1'-0"
 0 2' 4' 8' 12'
 1/4" = 1'-0"



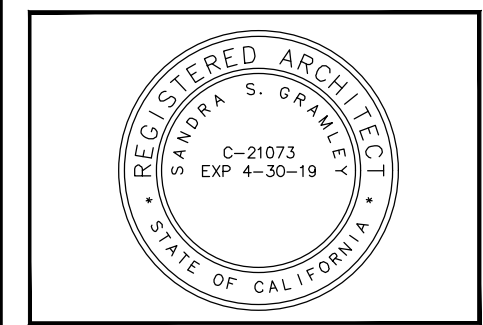
ADA RESTROOM AT COMMUNITY BLDG. DEMO

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

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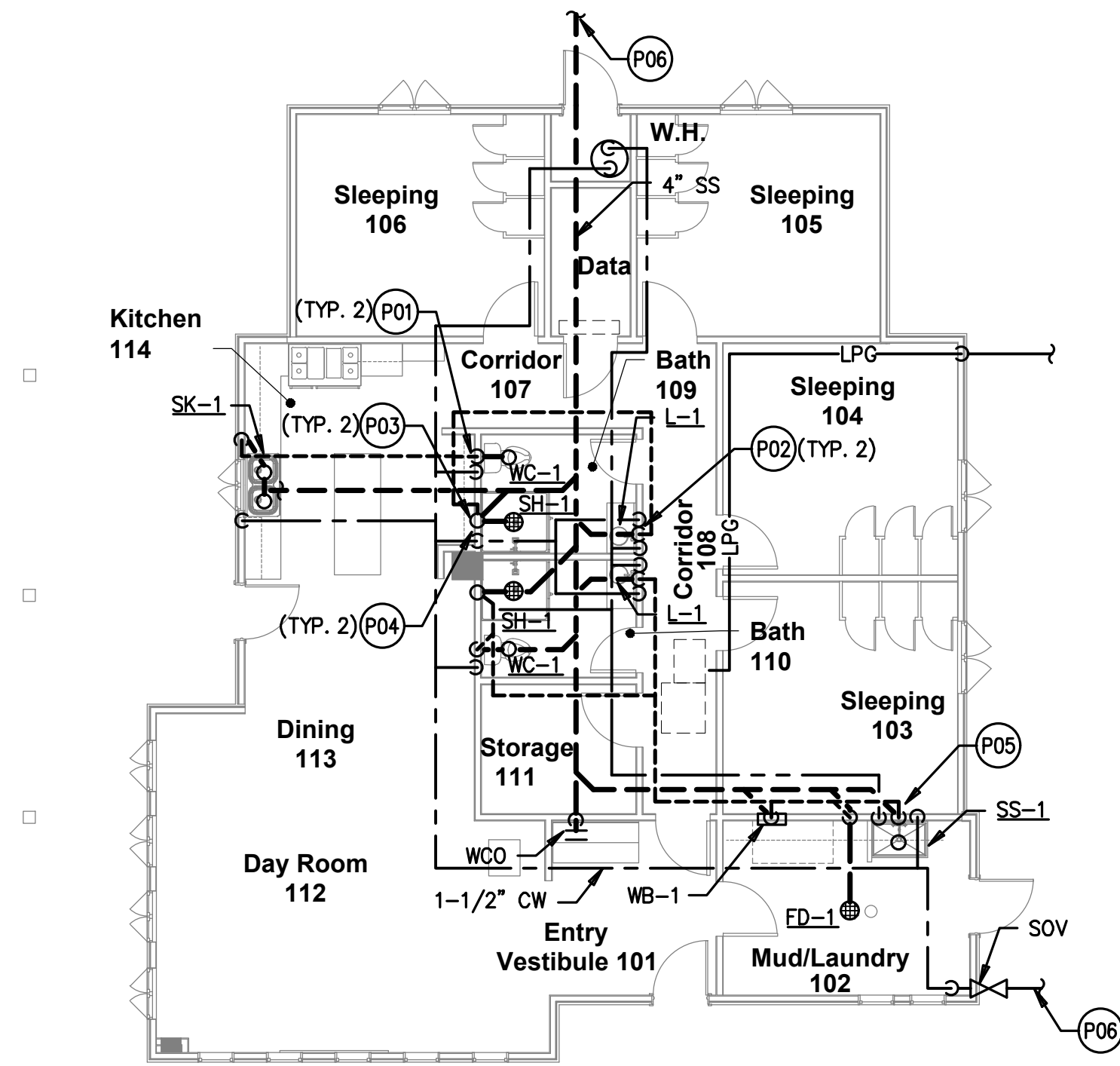
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 SAN DIEGO, CA 92123

PLUMBING SITE PLAN
 FIRE STATION 79 LIVING QUARTERS

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PWA NO.	
REVISIONS	
SHEET	P-003

Design Development January 16, 2019

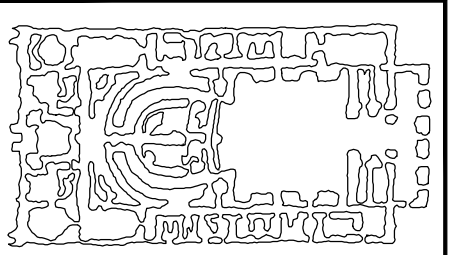
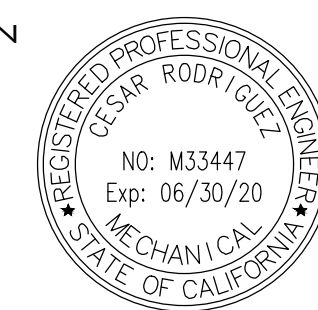
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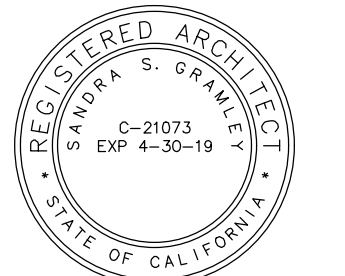
- KEYNOTES**
- (P01) 4" WASTE DOWN, 2" VENT UP, & 3/4" CW DOWN TO WATER CLOSET.
 - (P02) 2" WASTE DOWN, 1-1/2" VENT UP TO ABOVE CEILING & 1/2" H & CW DOWN TO LAVATORY.
 - (P03) 2-1/2" VENT THRU ROOF.
 - (P04) 2" WASTE DOWN, 1-1/2" VENT UP TO ABOVE CEILING, & 3/4" H & CW DOWN TO SHOWER VALVE.
 - (P05) 3" WASTE DOWN, 2" VENT UP TO ABOVE CEILING, & 3/4" H & CW DOWN TO SERVICE SINK.
 - (P06) FOR CONTINUATION REFER TO CIVIL DRAWINGS.

LIVING QUARTERS FLOOR PLAN - PLUMBING
 SCALE: 1/8"=1'-0"
 0 4' 8' 16' 24'
 1/8" = 1'-0"

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LIVING QUARTERS FLOOR PLAN - PLUMBING

FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
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SHEET

P-101

SPLIT SYSTEM FAN COIL UNIT SCHEDULE (INDOOR)

GENERAL DATA					EVAPORATOR FAN	COOLING CAPACITY		HEATING CAPACITY		EFFICIENCY				ELECTRICAL DATA	REMARKS	OPERATING WEIGHT (LB)
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	LOCATION	CFM	SENSIBLE (BTUH)	TOTAL (BTUH)	47F AMBIENT (BTUH)	17F AMBIENT (BTUH)	SEER	EER	HSPF	COP	V/PH/Hz		
IU 1	CARRIER	40MBCQ18---3	OFFICE	OFFICE	420	11.3	16.6	19.6	12.0	19.0	12.5	9.0	3.2	208/1/60	PROVIDE WITH HARD WIRED 7-DAY PROGRAMMABLE CONTROLLER, FACTORY INSTALLED CONDENSATE PUMP, INDOOR UNIT POWERED BY OUTDOOR UNIT.	40
IU 2	CARRIER	40MAQB18B---3	DATA	GRADE	680	11.3	16.6	19.6	12.0	19.5	12.5	9.6	3.3	208/1/60	PROVIDE WITH HARD WIRED 7-DAY PROGRAMMABLE CONTROLLER, FACTORY INSTALLED CONDENSATE PUMP, INDOOR UNIT POWERED BY OUTDOOR UNIT.	27

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OUTDOOR)

GENERAL DATA					REFRIG. PIPING SIZE		ELECTRICAL DATA			REMARKS	OPERATING WEIGHT (LB)
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	LOCATION	LIQUID	SUCTION	V/PH/Hz	MCA	MOCP		
OU 1	CARRIER	38MAQB18---3	OFFICE	GRADE	1/4"	1/2"	208/1/60	13.0	20	PROVIDE TIME DELAY RELAY, CRANKCASE HEATER, BASE PAN HEATER, CORROSION RESISTANT COATING ON CONDENSER COIL. EACH REFRIGERANT LINE SHALL BE INDIVIDUALLY INSULATED PER MANUFACTURER'S INSTRUCTIONS.	103
OU 2	CARRIER	38MAQB18---3	DATA	GRADE	1/4"	1/2"	208/1/60	13.0	20	PROVIDE TIME DELAY RELAY, CRANKCASE HEATER, BASE PAN HEATER, CORROSION RESISTANT COATING ON CONDENSER COIL. EACH REFRIGERANT LINE SHALL BE INDIVIDUALLY INSULATED PER MANUFACTURER'S INSTRUCTIONS.	103

SPLIT SYSTEM FURNACE/COIL UNIT SCHEDULE (INDOOR)

GENERAL DATA					EVAPORATOR FAN				DX COIL				HEATING INFORMATION				ELECTRICAL DATA		REMARKS	OPERATING WEIGHT (LB)				
TAG	MANUFACTURER	MODEL	AREA SERVED	LOCATION	OUTDOOR UNIT	CFM	OSA	ESP (IN.)	MOTOR HP	MAKE	MODEL	AIR PRESSURE DROP (IN WC)	TOTAL (MBH)	SENSIBLE (MBH)	AFUE	OUTPUT (MBH)	INPUT (MBH)	EAT (DB)			LAT (DB)	V/PH/Hz	MCA	MOCP
FAU 1	CARRIER	58CTY110---1--22	LIVING QUARTERS	ABOVE CEILING	CU 1	2,000	300	0.73	1.0	CARRIER	CNPHP6124ALA	0.37	57.8	45.1	80.0	85.0	105.0	59	108	208/1/60	13.0	20	PROVIDE BOTTOM RETURN FILTER RACK AND 2" MERV 8 FILTER, 4" TYPE B VENT, EC MOTOR, FACTORY PROPANE CONVERSION KIT, CONDENSATE OVERFLOW SWITCH WIRED TO SHUTDOWN CONDENSING UNIT.	240

SPLIT SYSTEM CONDENSING UNIT SCHEDULE (OUTDOOR)

GENERAL DATA					COMPRESSOR		CONDENSER		CAPACITY			ELECTRICAL DATA				REMARKS	OPERATING WEIGHT (LB)
TAG	MANUFACTURER	MODEL	AREA SERVED	LOCATION	INDOOR UNIT	TYPE	REFRIGERANT	FAN MOTOR	UNIT SIZE (NOMINAL)	SEER	EER	V/PH/Hz	MCA	MOCP			
CU 1	CARRIER	24ACB760AB03	LIVING QUARTERS	GRADE	FAU 1	INVERTER	R-410A	1.3 FLA	5 TONS	16.0	12.0	208/1/60	37.3	60	PROVIDE CORROSION RESISTANT COIL COATING ON CONDENSER COIL, 2-STAGE COOLING, FACTORY ACCESSORY KITS FOR LOW AMBIENT COOLING KIT, LOUVERED COIL GUARD, REFRIGERANT LINES SHALL BE INSULATED PER MANUFACTURER'S INSTRUCTIONS.	281	

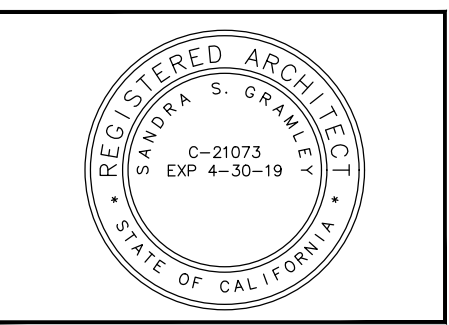
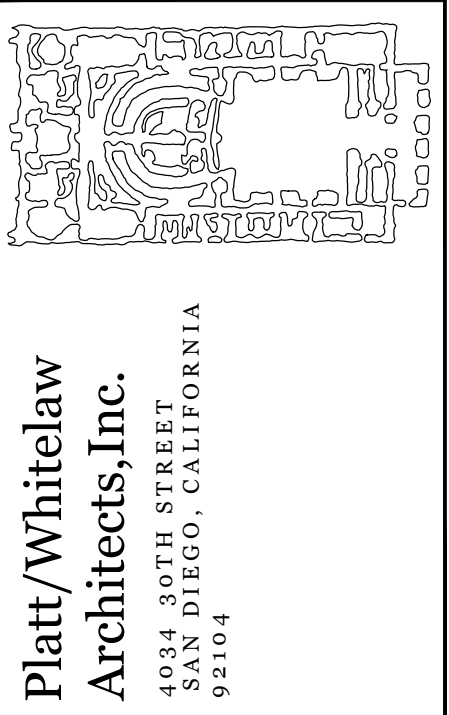
EXHAUST FAN SCHEDULE

GENERAL DATA					DESIGN			ELECTRICAL DATA					CONTROL	REMARKS	OPERATING WEIGHT (LB)
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	LOCATION	TYPE	CFM	ESP (IN)	FAN RPM	MOTOR HP/(WATTS)	OPERATING POWER (BHP)	V/PH/Hz	FLA			
EF 1	GREENHECK	SP-110-VG	RESTROOM	COMMUNITY BLDG RESTROOM	CEILING	110	0.28	940	(8)	-	115/1/60	0.2	LIGHTING CONTROLS	PROVIDE BACKDRAFT DAMPER, INTEGRAL DISCONNECT, ALL WIRING AND CONNECTIONS REQUIRED FOR FAN OPERATION, EC MOTOR WITH MOUNTED SPEED DIAL.	12
EF 2	GREENHECK	SP-A90-130-VG	MUDD/LAUNDRY	LIVING QUARTERS	CEILING	130	0.27	1,041	(12)	-	115/1/60	0.3	LIGHTING CONTROLS	PROVIDE BACKDRAFT DAMPER, INTEGRAL DISCONNECT, ALL WIRING AND CONNECTIONS REQUIRED FOR FAN OPERATION, EC MOTOR WITH MOUNTED SPEED DIAL, ROOF TERMINATION WITH FLASHING FLANGE.	19
EF 3	GREENHECK	SP-A50-90-VG	BATH	LIVING QUARTERS	CEILING	70	0.25	838	(12)	-	115/1/60	0.3	LIGHTING CONTROLS/HUMIDISTAT	PROVIDE BACKDRAFT DAMPER, INTEGRAL DISCONNECT, ALL WIRING AND CONNECTIONS REQUIRED FOR FAN OPERATION, EC MOTOR WITH MOUNTED SPEED DIAL, ROOF TERMINATION WITH FLASHING FLANGE, HUMIDISTAT.	20
EF 4	GREENHECK	SP-A50-90-VG	BATH	LIVING QUARTERS	CEILING	70	0.25	838	(12)	-	115/1/60	0.3	LIGHTING CONTROLS/HUMIDISTAT	PROVIDE BACKDRAFT DAMPER, INTEGRAL DISCONNECT, ALL WIRING AND CONNECTIONS REQUIRED FOR FAN OPERATION, EC MOTOR WITH MOUNTED SPEED DIAL, ROOF TERMINATION WITH FLASHING FLANGE, HUMIDISTAT.	20

AIR DEVICE SCHEDULE

UNIT NO	TYPE	STYLE	NECK SIZE	CFM RANGE	MODEL	ACCESSORIES
S-1	SUPPLY AIR	RECTANGULAR CURVED BLADE DIFFUSER	6"x4"	35	FOR INSTALLATION IN HARD LID CEILING: TITUS 250-AA	MULTI-LOUVER DAMPER
			12"x8"	200		
			10"x10"	260		
			16"x10"	435		
R-1	RETURN, EXHAUST, OR TRANSFER AIR	RETURN, EXHAUST, OR TRANSFER GRILLE	10"x6"	200	FOR INSTALLATION IN HARD LID CEILING OR WALL: TITUS 350RL	
			30"x18"	2,000		

NOTES: SELECT FRAME TYPES BASED ON THE CEILING TYPE.



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MECHANICAL SCHEDULES
 FIRE STATION 79 LIVING QUARTERS

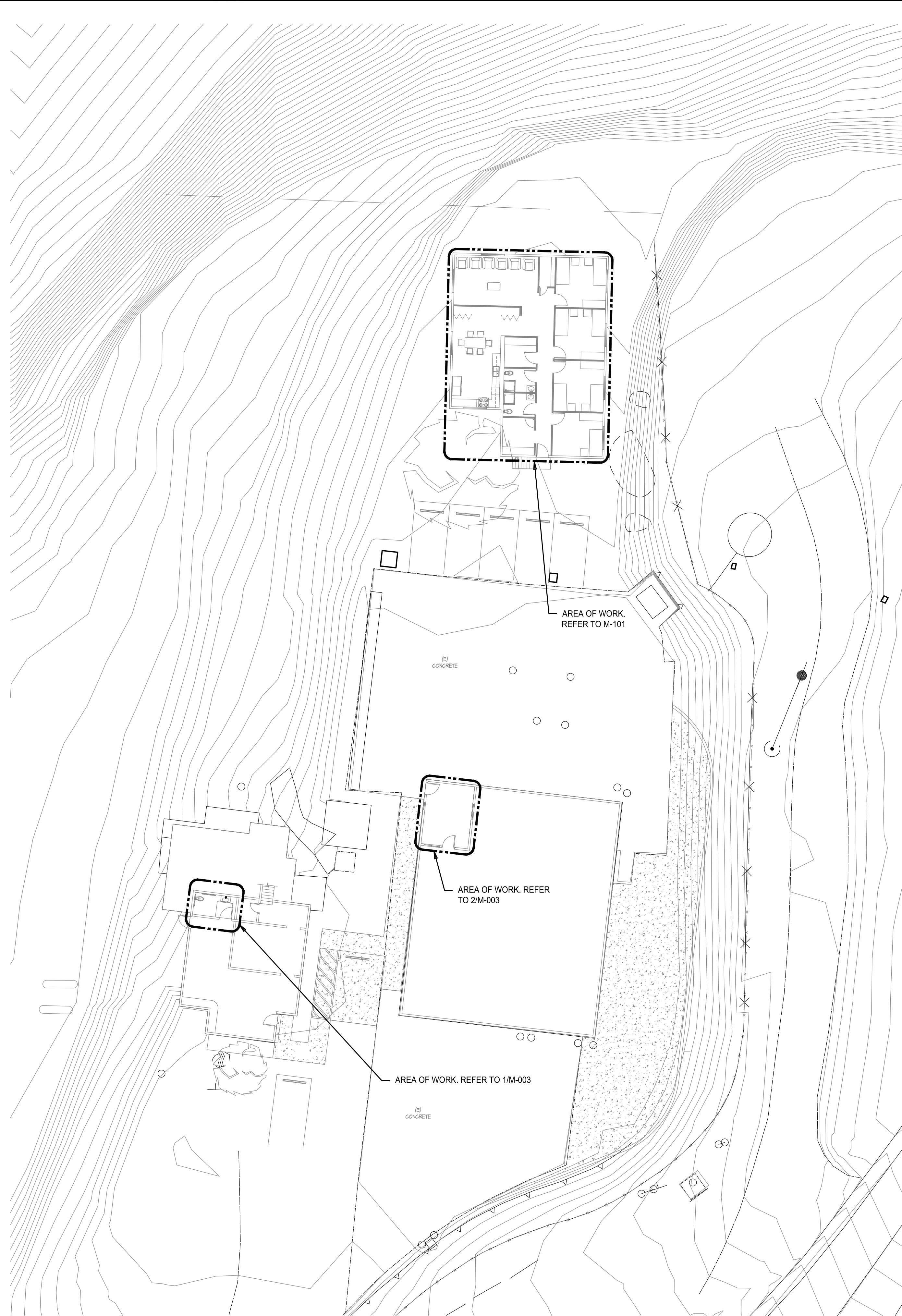
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REVISIONS	
SHEET	M-002

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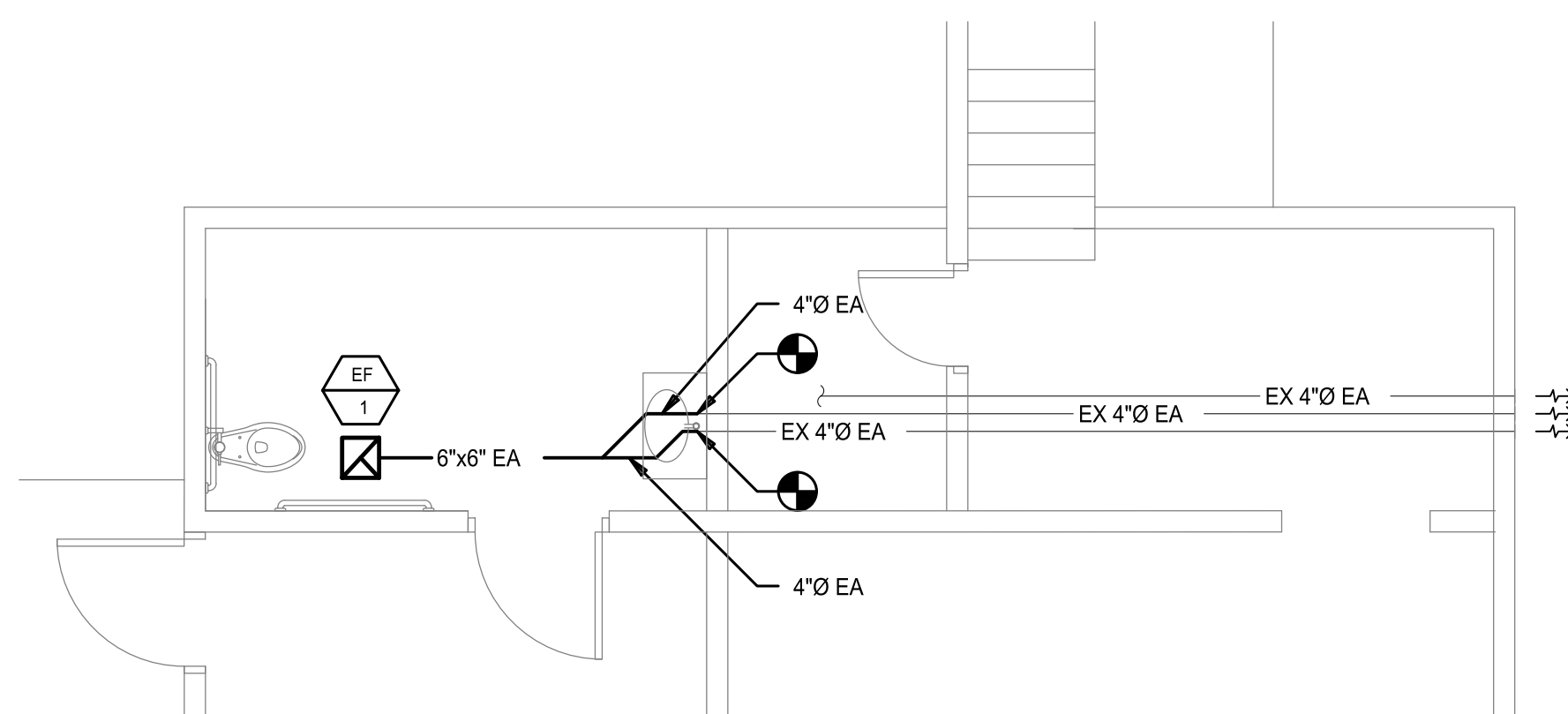
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Design Development January 16, 2019

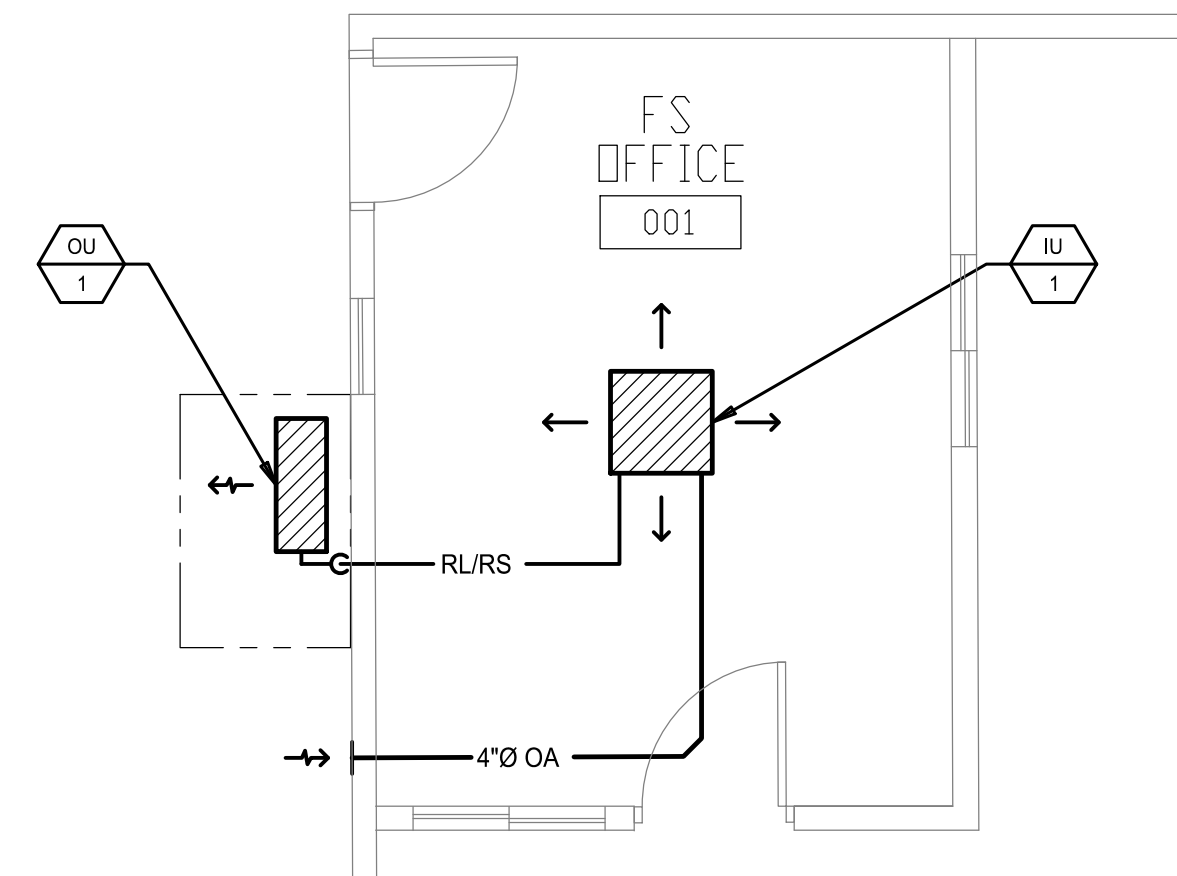
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MECHANICAL SITE PLAN
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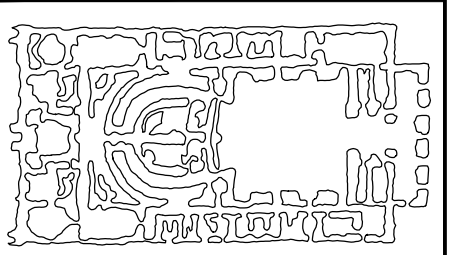


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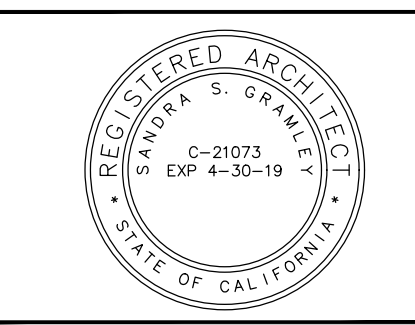


OFFICE AT EXISTING BAY
 SCALE: 1/4"=1'-0"
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 1/4" = 1'-0"

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MECHANICAL SITE PLAN

FIRE STATION 79 LIVING QUARTERS

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M-003

OF 0 SHEETS

January 16, 2019
 Design Development

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER AND CATALOG NUMBER (3)	EQUIVALENT MANUFACTURER SUBJECT TO APPROVAL OF SHOP DRAWINGS	LAMPS			FIXTURE		DRIVER TYPE (1)	MOUNTING (2, 4, 5)	DESCRIPTION
			TYPE	WATTS	COLOR TEMP.	INPUT VOLTS	TOTAL INPUT WATTS			
A	FINELITE HP-4 ID-8-S-S-840-TG-F-120V-FA-SC	OR EQUAL (INCLUDING EQUAL OR GREATER DELIVERED LUMEN OUTPUT AND EQUAL OR LESS TOTAL FIXTURE WATTAGE)	LED	58	4000° K	120	58	DIMMING	PENDANT	4" X 8", DIRECT/INDIRECT PENDANT FIXTURE WITH 6736 LUMEN OUTPUT WITH IMPACT-RESISTANT FROSTED VIRGIN ACRYLIC DIFFUSED OPTICS, TOP GLOW UPLIGHT OPTIC AND FLUSH BOTTOM LENS AND INTEGRAL 0-10V DIMMING DRIVER.
B	CONTRASTE UR4E-F-01-11-3090-M	OR EQUAL (INCLUDING EQUAL OR GREATER DELIVERED LUMEN OUTPUT AND EQUAL OR LESS TOTAL FIXTURE WATTAGE)	LED	10	3000° K	120	10	DIMMING	RECESSED	4" LED DOWNLIGHT FIXTURE WITH 850 LUMEN OUTPUT WITH FROSTED LENS, WHITE TRIM AND INTEGRAL 0-10V DIMMING DRIVER.
C	CONTRASTE UR4C-F-01-11-3090-M	OR EQUAL (INCLUDING EQUAL OR GREATER DELIVERED LUMEN OUTPUT AND EQUAL OR LESS TOTAL FIXTURE WATTAGE)	LED	10	3000° K	120	10	DIMMING	RECESSED	4" LED DOWNLIGHT SHOWER FIXTURE WITH 850 LUMEN OUTPUT WITH FROSTED LENS, WHITE TRIM AND INTEGRAL 0-10V DIMMING DRIVER.
D	COOPER METALUX 4SNLED-LDS-16SL-LW-UNV-L840-CD1-U	OR EQUAL (INCLUDING EQUAL OR GREATER DELIVERED LUMEN OUTPUT AND EQUAL OR LESS TOTAL FIXTURE WATTAGE)	LED	13	4000° K	120	13	DIMMING	PENDANT	4' LED STRIP LIGHT FIXTURE WITH 1688 LUMENS, FULL FROSTED LENS AND WIDE DISTRIBUTION.
F	SEAGULL LIGHTING 4420203-05	OR EQUAL (INCLUDING EQUAL OR GREATER DELIVERED LUMEN OUTPUT AND EQUAL OR LESS TOTAL FIXTURE WATTAGE)	LED	30	4000° K	120	30	DIMMING	PENDANT	THREE LIGHT WALL / BATH VANITY FIXTURE WITH 3 LED BULBS.

FIXTURE NOTES

1. FIXTURE CONNECTIONS SHALL BE AS INDICATED ON THE PLANS AND SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF TITLE 24, CALIFORNIA ENERGY EFFICIENCY REGULATIONS.
2. ALL TROFFER FIXTURES RECESSED IN SUSPENDED GRID CEILING SHALL BE FACTORY FURNISHED WITH EARTHQUAKE CLIP (EQC), MINIMUM OF 4 PER FIXTURE. IN ADDITION, FIXTURES SHALL BE SUPPORTED FROM THE OVERHEAD BUILDING STRUCTURE, INDEPENDENTLY FROM THE SUSPENDED CEILING SYSTEM.
3. CATALOG NUMBERS ARE BASED ON VENDOR INFORMATION, LITERATURE AND PHOTOMETRIC DATA ON HAND AT THE TIME OF PROJECT DESIGN BY TURPIN & RATTAN ENGINEERING, INC. AND ARE INTENDED TO CONVEY THE FEATURES/PERFORMANCE REQUIRED. EACH FIXTURE MUST BE PROVIDED COMPLETE WITH ALL FITTINGS AS APPROPRIATE FOR PROPER MOUNTING AT THE LOCATIONS INDICATED.
4. MOUNTING SHALL INCLUDE CONCEALED SOLID BLOCKING FOR FIXTURES MOUNTED IN/ON WALLS AND CEILING EXCEPT AT SUSPENDED CEILING WHERE SEISMIC ANCHORING AND/OR RESTRAINT SHALL BE PROVIDED. ALL LIGHT FIXTURES SHALL BE INSTALLED PER THE CALIFORNIA BUILDING CODE.
5. WHERE RECESSED FIXTURES ARE INSTALLED IN FIRE RATED CEILING, PROVIDE A FIRE RATED ENCLOSURE AROUND EACH FIXTURE.

EMERGENCY FIXTURE CONNECTIONS

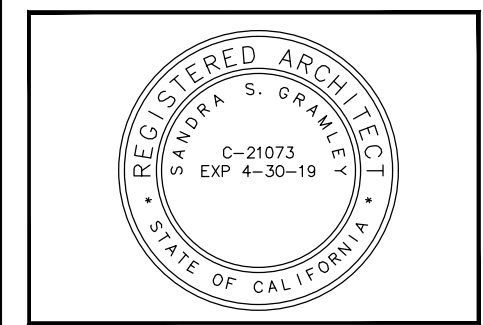
ALL LIGHT FIXTURES WITH INTEGRAL BATTERY PACKS REQUIRE PERMANENT UNSWITCHED POWER TO ENSURE THE BATTERY IS NEVER ALLOWED TO COMPLETELY DISCHARGE.

DO NOT CONNECT THESE FIXTURES TO TEMPORARY BUILDING CONSTRUCTION POWER.

CONNECT ONLY TO PERMANENT BUILDING POWER WHEN AVAILABLE, AND ACCORDING TO THE RESPECTIVE MANUFACTURER'S RECOMMENDATIONS.

SHEET NOTES

1. LIGHTING CONTROLS VENDOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PLENUM RATED COMMUNICATIONS CABLING WITH TERMINATIONS, TOGETHER WITH COORDINATION AS NECESSARY FOR THE SUPPLY OF ALL INTEGRATED LIGHTING CONTROL INTERFACE DEVICES IN ALL LIGHT FIXTURES IRRESPECTIVE OF FIXTURE MANUFACTURER TO OFFER A FULLY OPERABLE TITLE 24 COMPLIANT LIGHTING CONTROL SYSTEM.
2. CONTRACTOR SHALL PROVIDE TWO (2) WIRELESS CONFIGURATION TOOLS COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM USED ON THIS PROJECT (WATTSTOPPER CAT #LMCT-100, OR EQUAL IF OTHER MANUFACTURER). TURN OVER TO OWNER'S REPRESENTATIVE AT PROJECT COMPLETION.
3. THE LIGHTING CONTROL DIAGRAMS ARE REFLECTIVE OF LIGHTING CONTROL SYSTEMS MANUFACTURED BY COOPER-GREENGATE, N-LIGHT OR WATTSTOPPER. OTHER LIGHTING CONTROL SYSTEM MANUFACTURERS MAY NOT BE FULLY OR SATISFACTORILY REPRESENTED HEREIN. ADDITIONAL COMPONENTS MAY BE REQUIRED TO MAKE THE CONTROL SYSTEM FULLY OPERATIVE (AT NO ADDITIONAL COST TO THE OWNER) IF ALTERNATIVE MANUFACTURERS ARE SELECTED FOR THIS PROJECT.
4. PRIOR TO INSTALLATION OF LIGHT FIXTURES FOR THIS PROJECT, CONTRACTOR SHALL "BENCH-TEST" EACH FIXTURE TYPE WITH THE CHOSEN LIGHTING CONTROL SYSTEM AND EACH TYPE OF DIMMING CONTROL STATION. THESE BENCH TESTS SHALL BE DONE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE ELECTRICAL ENGINEER ON ONE OCCASION TO ENSURE FULL COMPATIBILITY AND SATISFACTORY OPERATION OF ALL FIXTURE/CONTROL SYSTEM CONFIGURATIONS.



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LIGHTING FIXTURE SCHEDULE

FIRE STATION 79 LIVING QUARTERS

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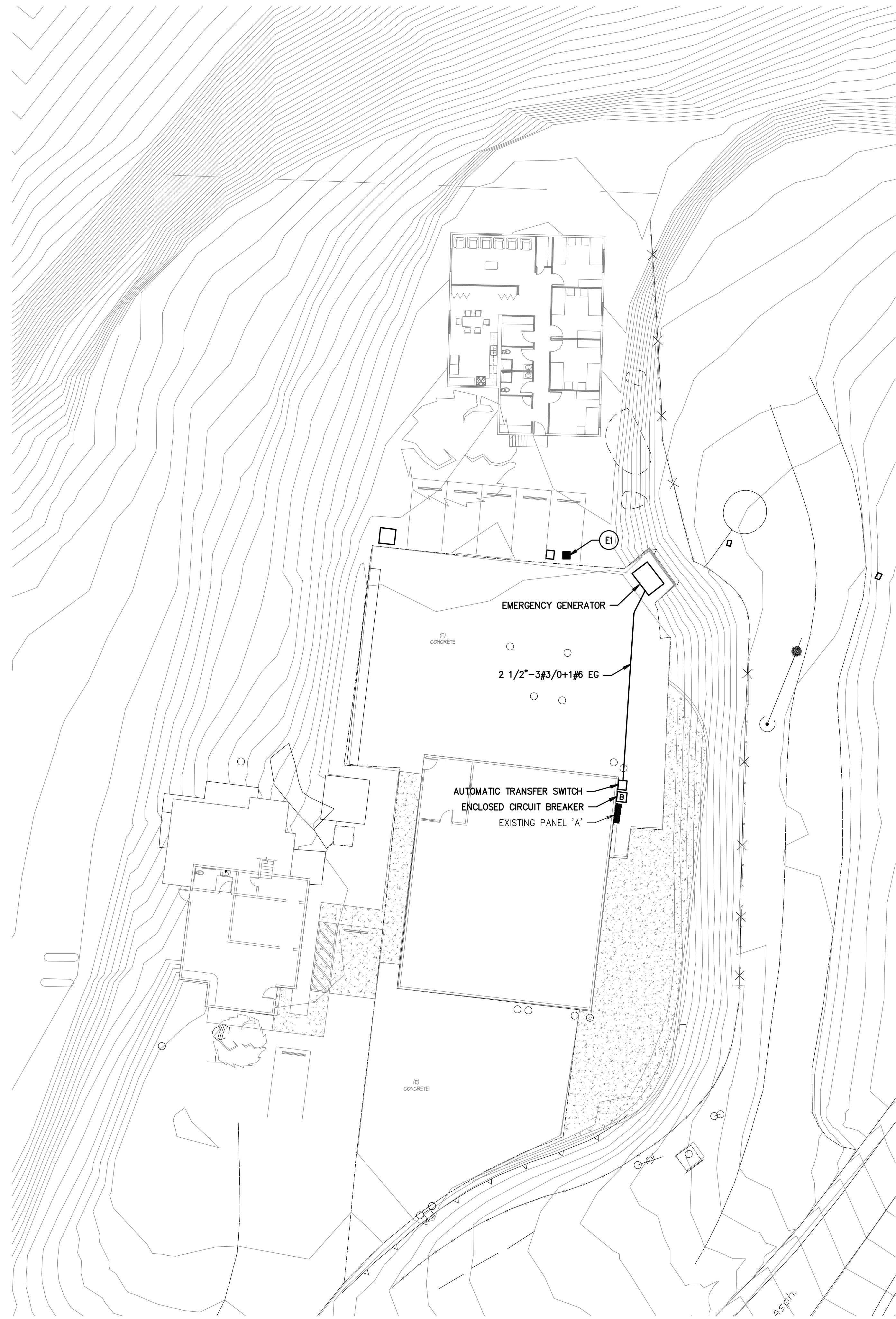
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TREI PROJECT # 17426

I:\17426\17426-00 - COSD PALM SPRING QUARTERS\17426\DWG\17426-00-E-002 LIGHTING FIXTURE SCHEDULE.DWG CREATED: 1/9/2019 10:05 AM PLOTTED: 3/5/2019 4:05 PM

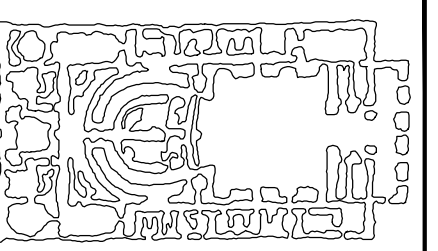
Design Development January 16, 2019

I:\17426.SD - COB PALMAR MOUNTAIN 7579 LIVING QUARTERS\17426.LIVING QUARTERS\17426.E-003 SITE PLAN - ELECTRICAL AND TECHNOLOGY DESIGNED: 12/9/2017 PLOTTED: 3/2/2018 4:05 PM

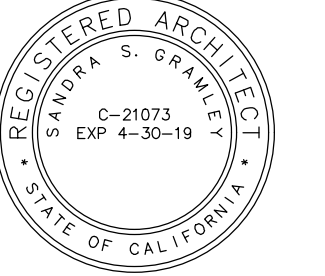


ELECTRICAL SITE PLAN
 SCALE: 1/16"=1'-0"
 0 8' 16' 32' 48'
 1/16" = 1'-0"

KEYNOTES
 (E1) INTERCEPT EXISTING SUB OUT AND EXTEND TO NEW BUILDING.



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SITE PLAN - ELECTRICAL

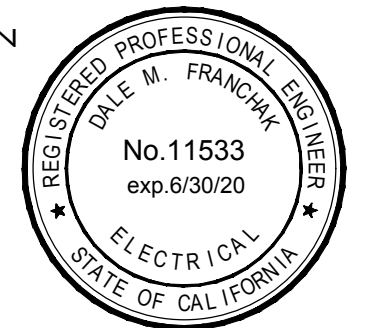
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
CHECKED/DRAWN	SC/DF
JOB	
PWA NO.	

REVISIONS	
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SHEET	E-003
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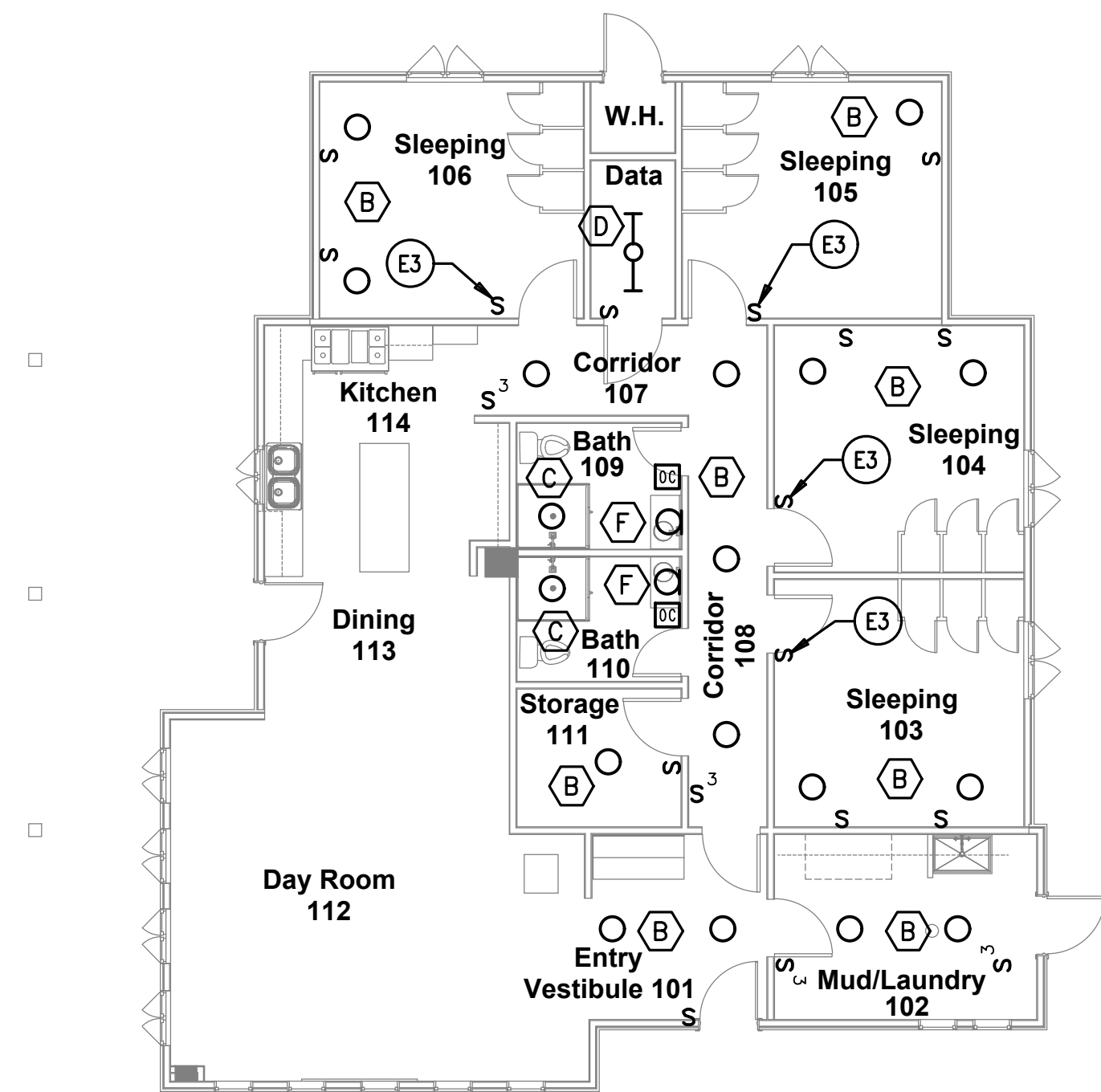



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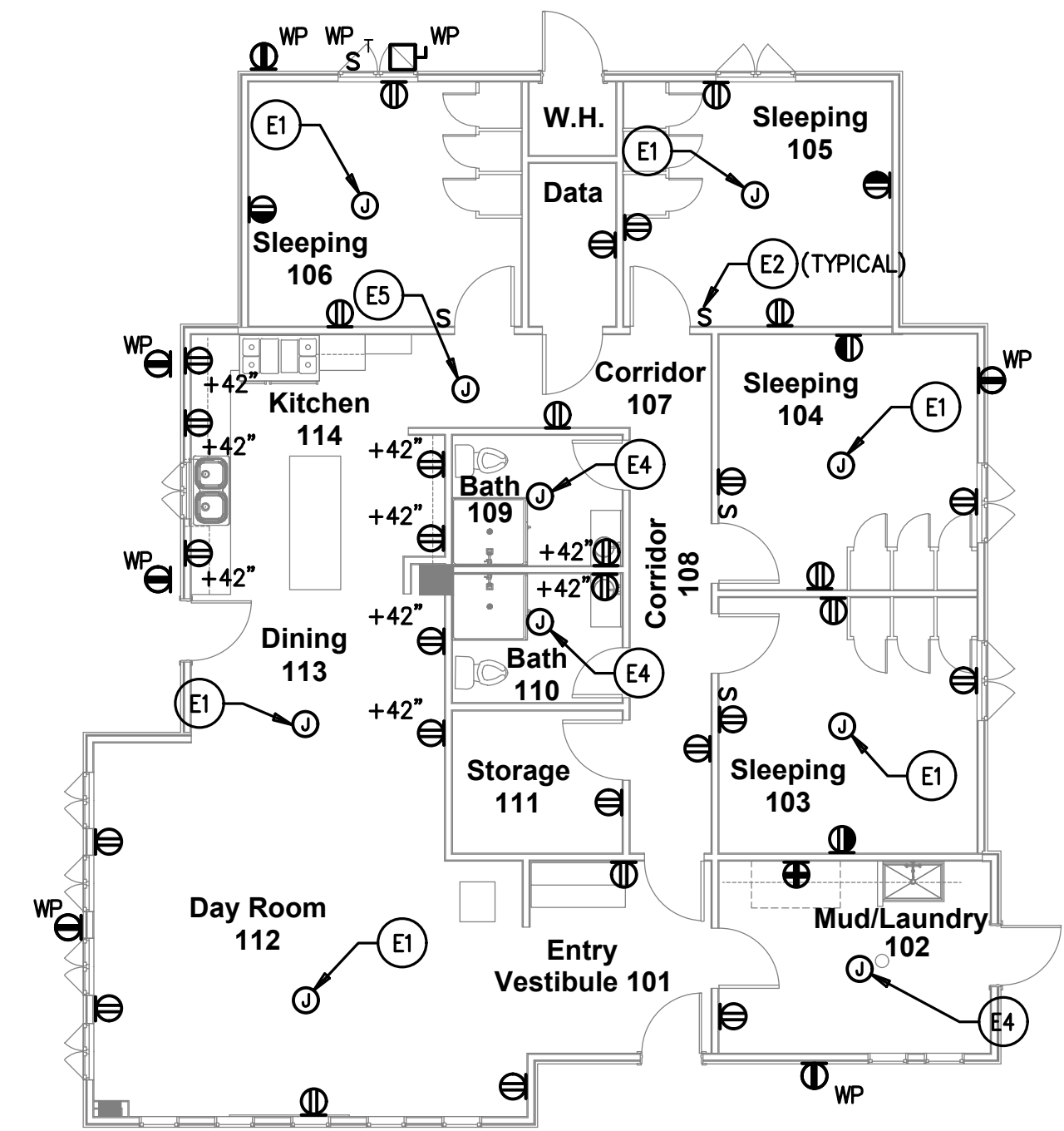
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LIVING QUARTERS FLOOR PLAN - LIGHTING
 SCALE: 1/8"=1'-0"

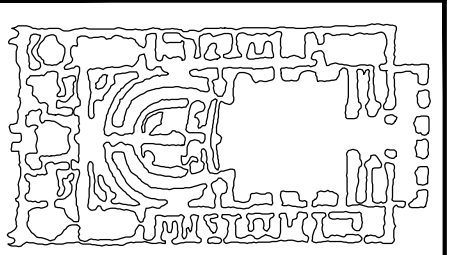
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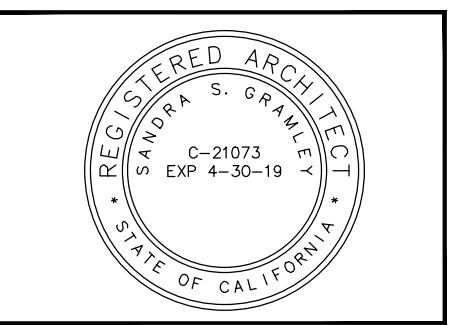
LIVING QUARTERS FLOOR PLAN - POWER
 SCALE: 1/8"=1'-0"

 1/8" = 1'-0"




- KEYNOTES**
- (E1) PROVIDE POWER FOR CEILING FAN. FIELD COORDINATE EXACT LOCATION.
 - (E2) PROVIDE SWITCH FOR SPLIT-WIRED RECEPTACLE.
 - (E3) PROVIDE SWITCH FOR FAN CONTROL AND DIMMING FOR INTEGRAL FAN LIGHT.
 - (E4) PROVIDE POWER FOR EXHAUST FAN. FIELD COORDINATE EXACT LOCATION.
 - (E5) PROVIDE POWER FOR FAN COIL. FIELD COORDINATE EXACT LOCATION.



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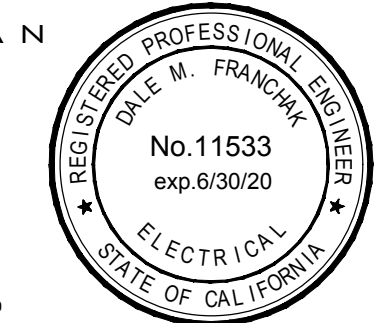
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LIVING QUARTERS FLOOR PLAN - ELECTRICAL
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
CHECKED/DRAWN	SC/DF
JOB	PWA NO. ---
REVISIONS	
SHEET	E-101

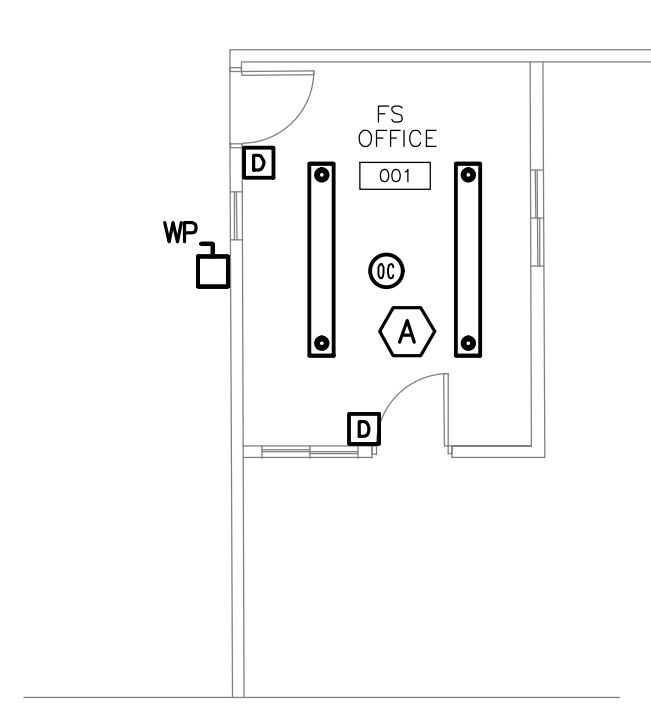
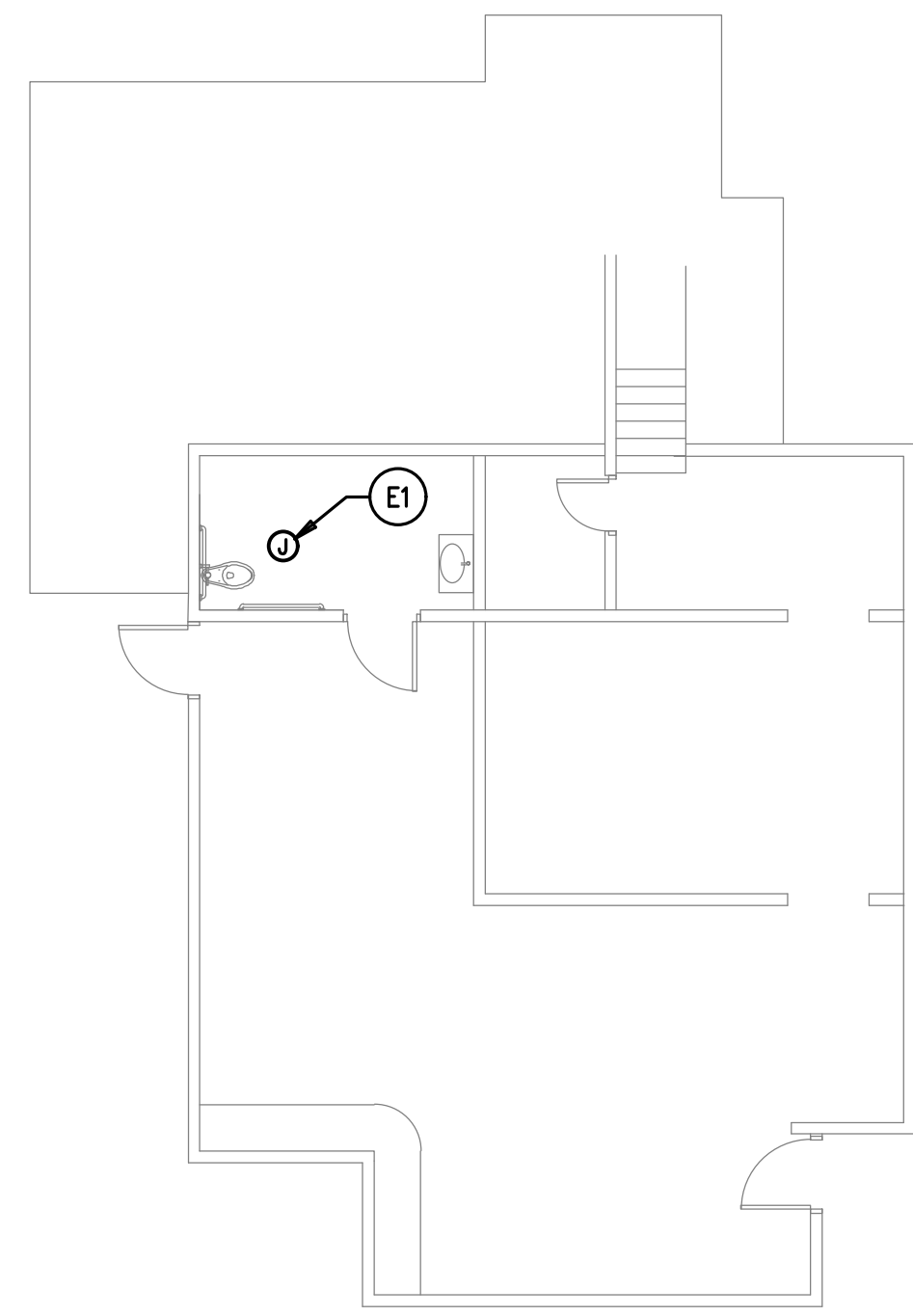
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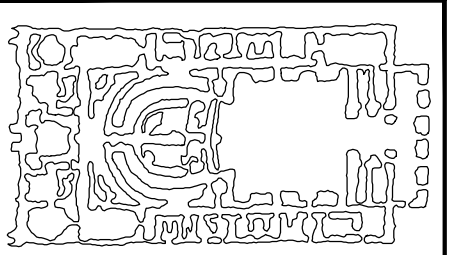
Design Development January 16, 2019

\\LA\17426.S00 - 005D PALMDAM MOUNTAIN FSTP LIVING QUARTERS\17426.DWG\APRCA\17426.E-102 OFFICE AND RESTROOM FLOOR PLANS - ELECTRICAL.DWG PLOTTED: 1/15/2019 10:07:58 AM

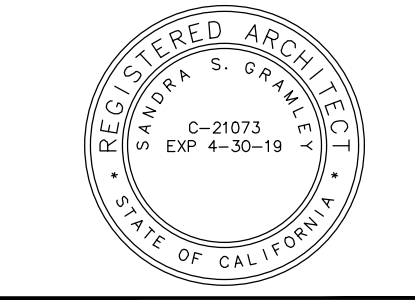


OFFICE AND RESTROOM FLOOR PLAN -ELECTRICAL
SCALE: 1/8"=1'-0"

- KEYNOTES**
- (E1) PROVIDE POWER FOR EXHAUST FAN. FIELD COORDINATE EXACT LOCATION.
 - (E2) XX



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OFFICE AND RESTROOM FLOOR PLAN -
ELECTRICAL

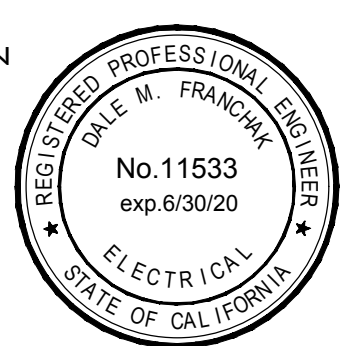
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	
AS NOTED	
CHECKED/DRAWN	
BY/CP	
JOB	
PWA NO.	

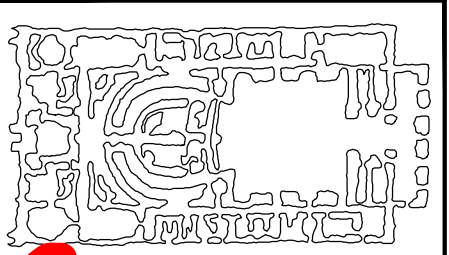
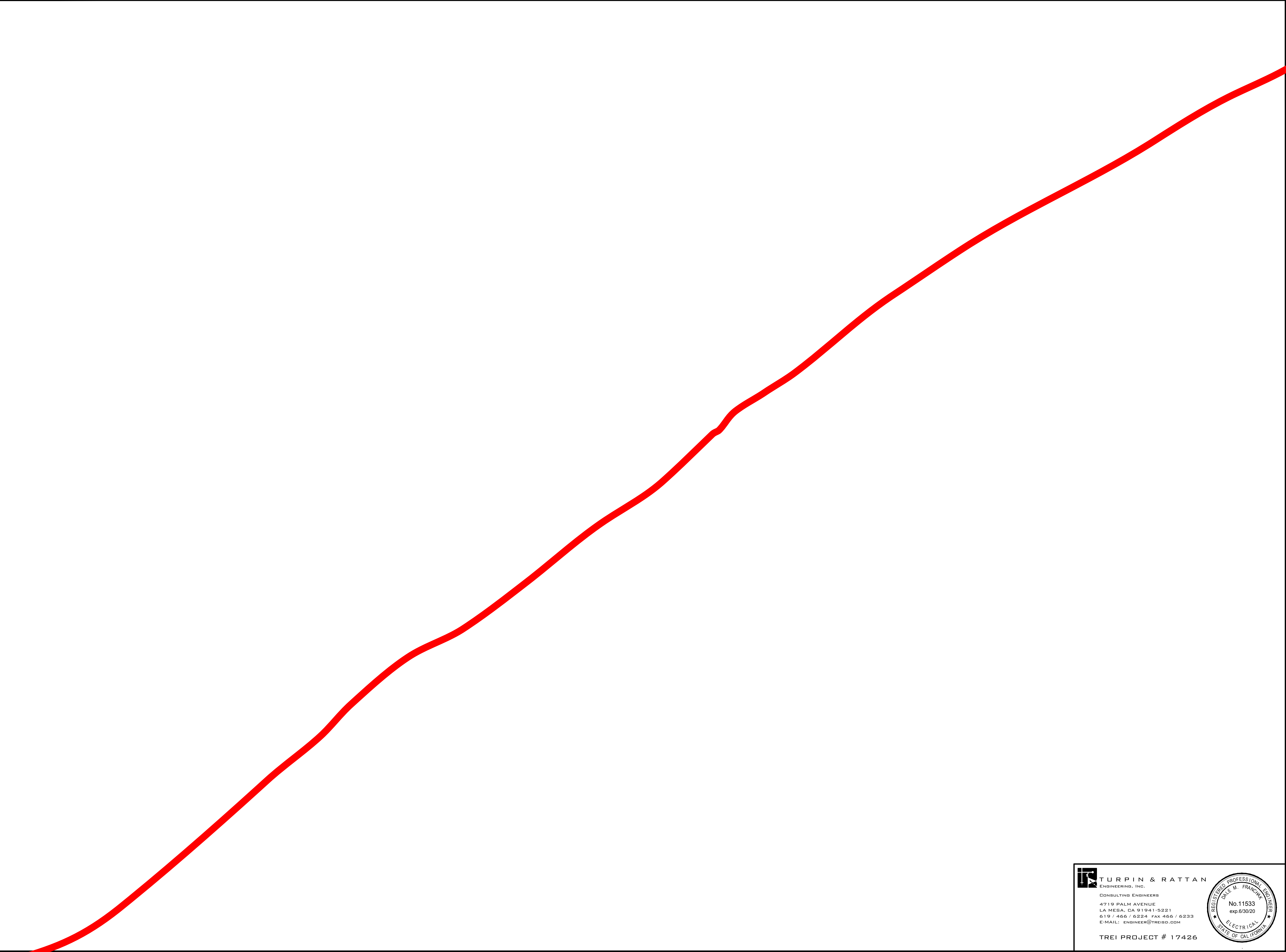
REVISIONS	
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SHEET	E-102
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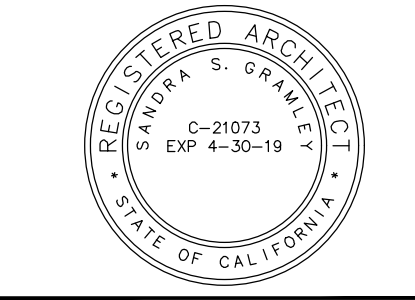
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\\A1717262.S00 - 0058 PALMDAM MOUNTAIN F579 LIVING QUARTERS\17426\DWG\17426.E-501 ELECTRICAL DETAILS.DWG CREATED: 1/9/2019 4:05 PM



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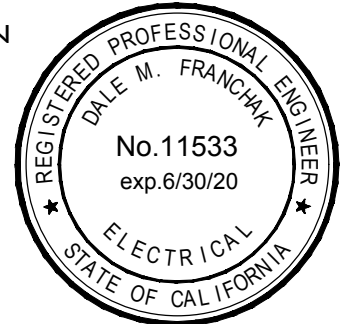
ELECTRICAL DETAILS
FIRE STATION 79 LIVING QUARTERS

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PWA NO.	

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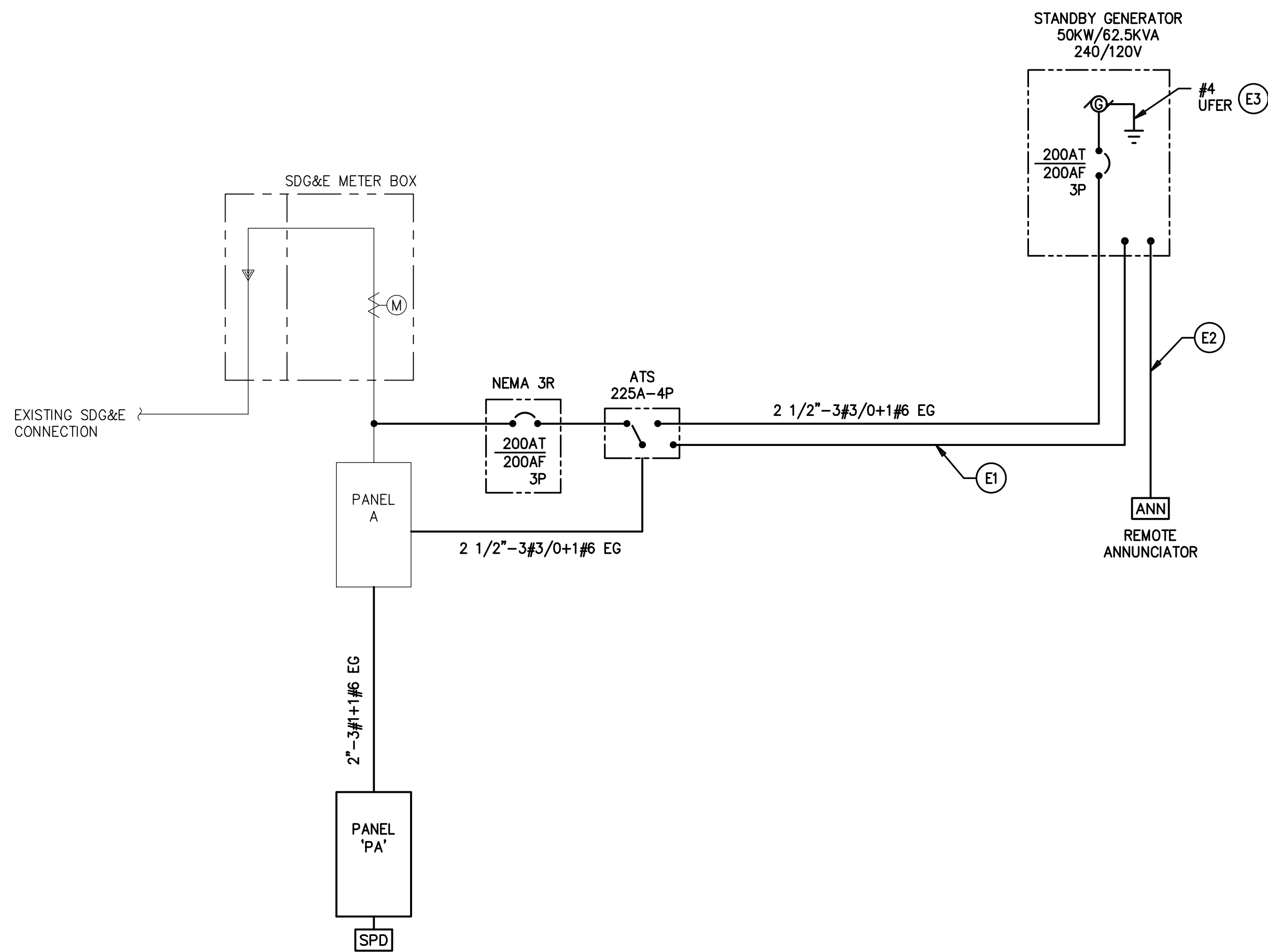
SHEET
E-501
OF 9 SHEETS

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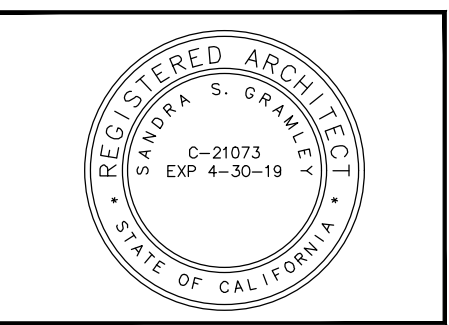
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SINGLE LINE DIAGRAM - NEW WORK
NO SCALE

- KEYNOTES**
- (E1) 1" C WITH GENERATOR START CIRCUIT.
 - (E2) 1" C WITH GENERATOR ANNUNCIATOR AND ALARM WIRING.
 - (E3) PROVIDE CONCRETE-ENCASED GROUNDING ELECTRODE PER CEC 250.32(C).

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SINGLE LINE DIAGRAM
 FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
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JOB	
PWA NO.	
REVISIONS	
SHEET	E-601

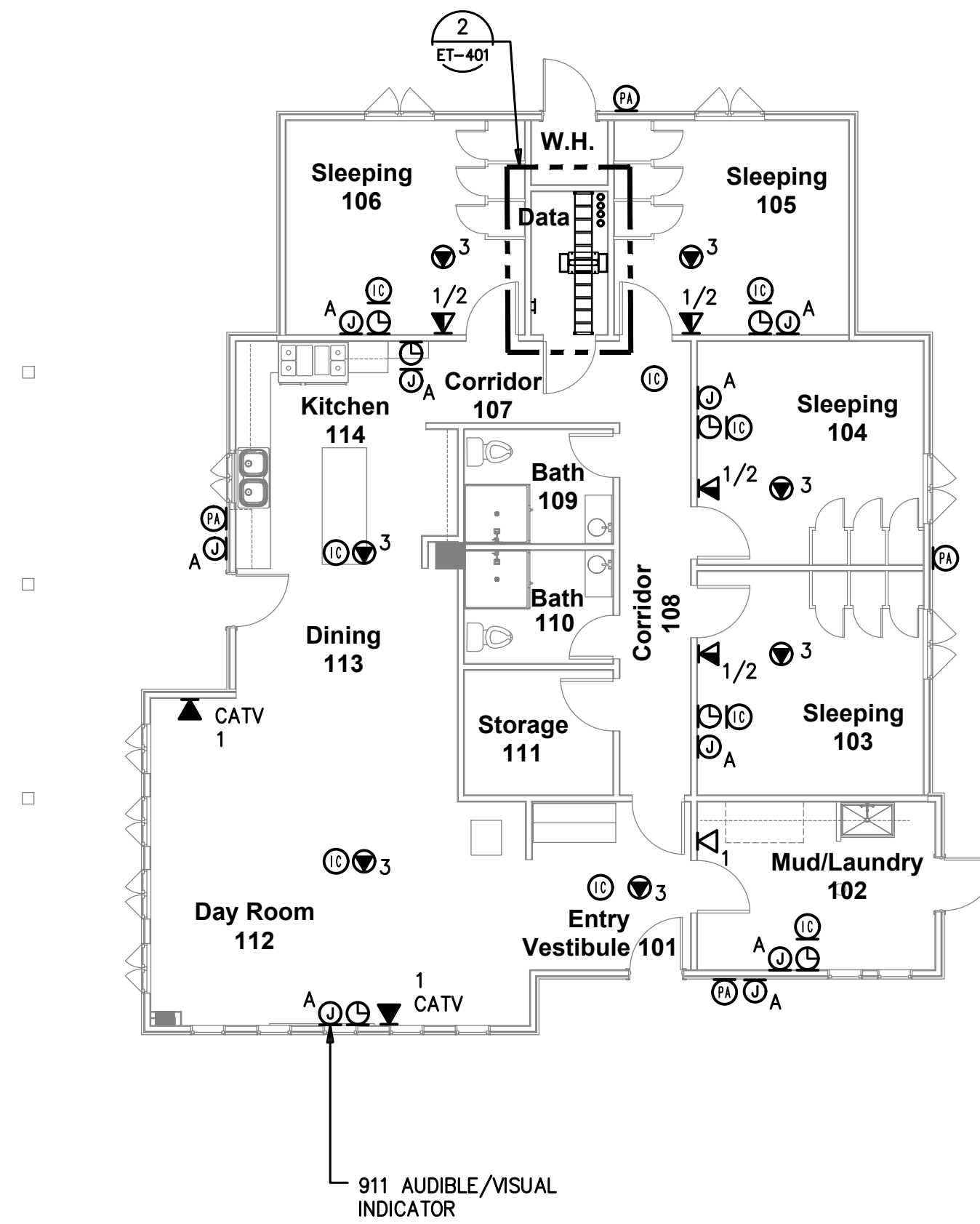
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REGISTERED PROFESSIONAL ENGINEER
 DALE M. FRANKFORT
 No. 11533
 exp. 6/30/20
 ELECTRICAL
 STATE OF CALIFORNIA

TREI PROJECT # 17426

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\\ATA\17426.500 - 0050 PALMDAR MOUNTAIN F579 LIVING QUARTERS\17426.00\ADP\17426.00_ET-101 LIVING QUARTERS FLOOR PLAN - TECHNOLOGY.DWG CREATED: 1/12/2019 10:21:10 AM



LIVING QUARTERS FLOOR PLAN - TECHNOLOGY
SCALE: 1/8"=1'-0"



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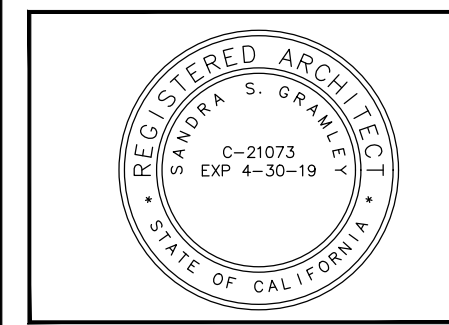
DATE	
SCALE	AS NOTED
CHECKED/DRAWN	SC/DF
JOB	
PWA NO.	
REVISIONS	
SHEET	ET-101

LIVING QUARTERS FLOOR PLAN -
TECHNOLOGY

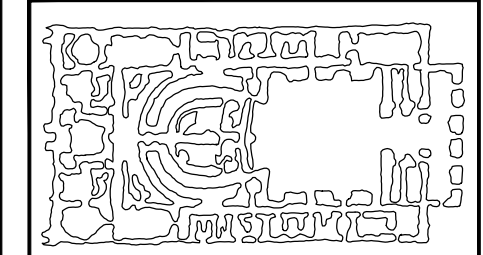
FIRE STATION 79 LIVING QUARTERS

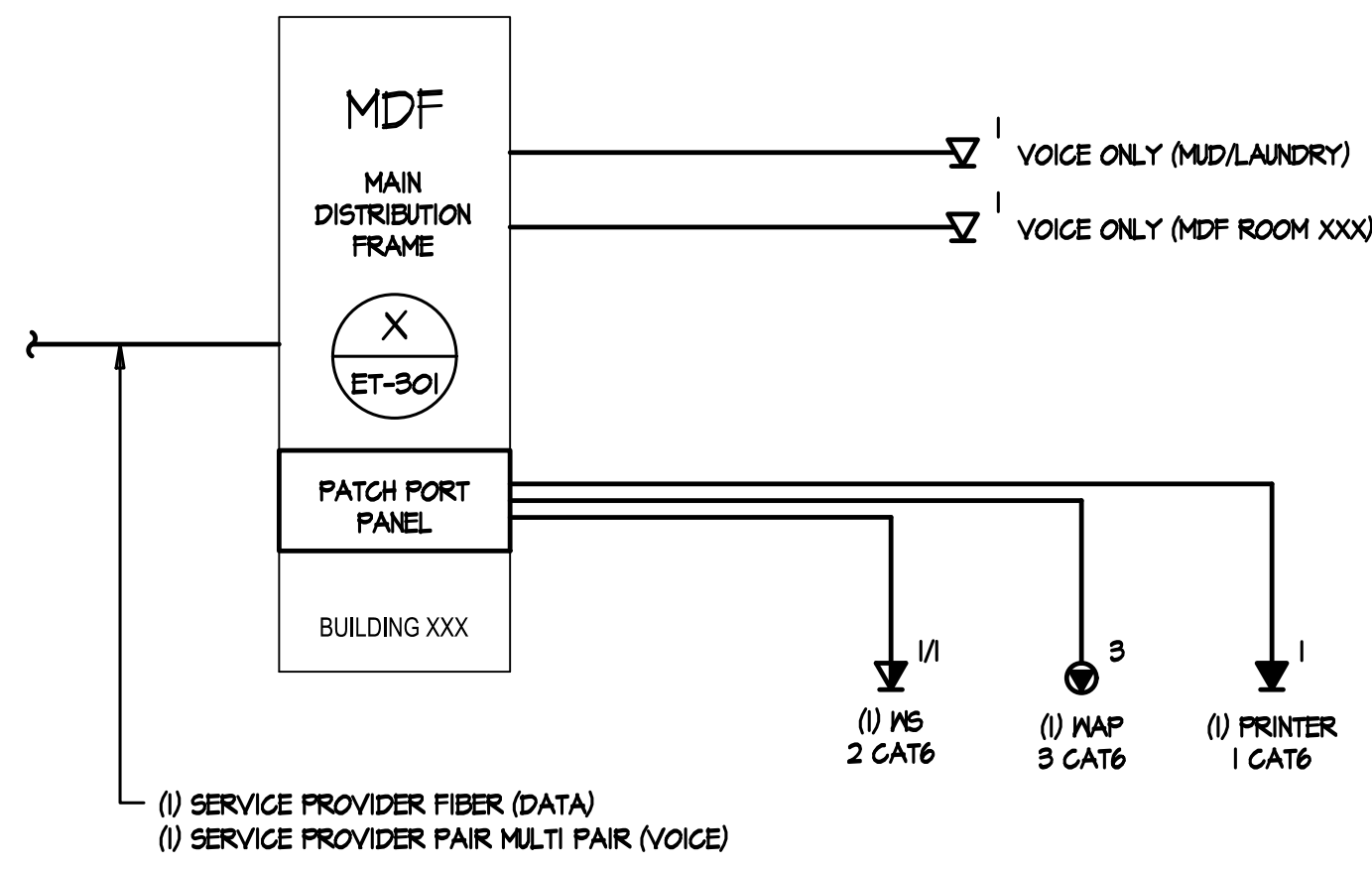


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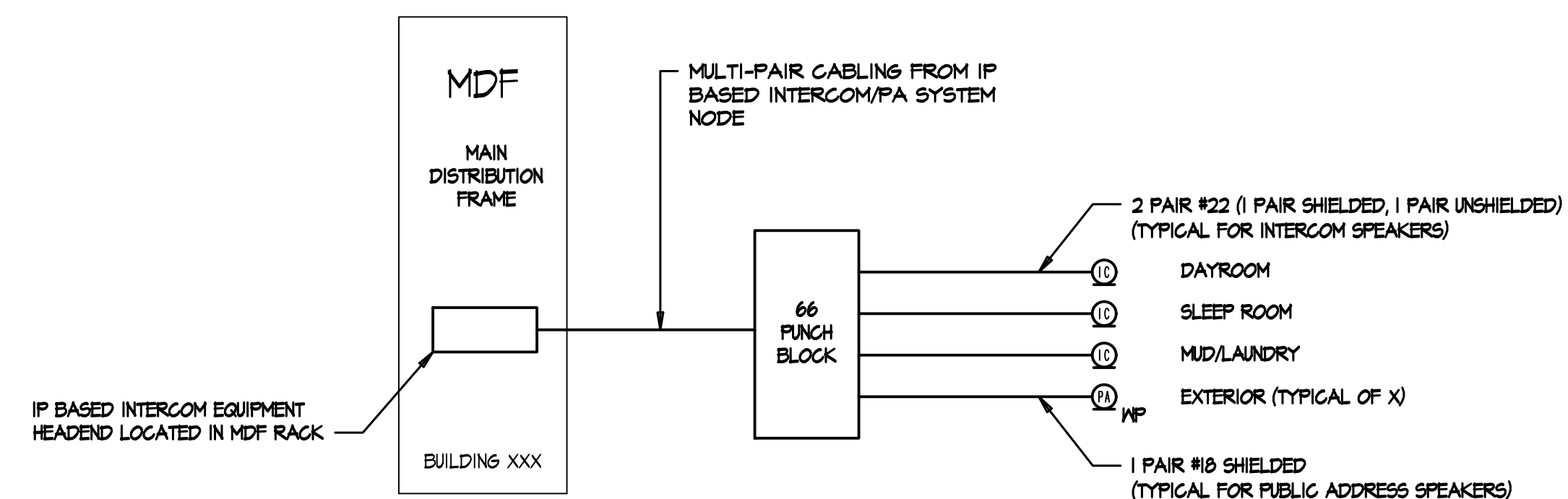




TELECOMMUNICATIONS SYSTEM RISER DIAGRAM

NO SCALE

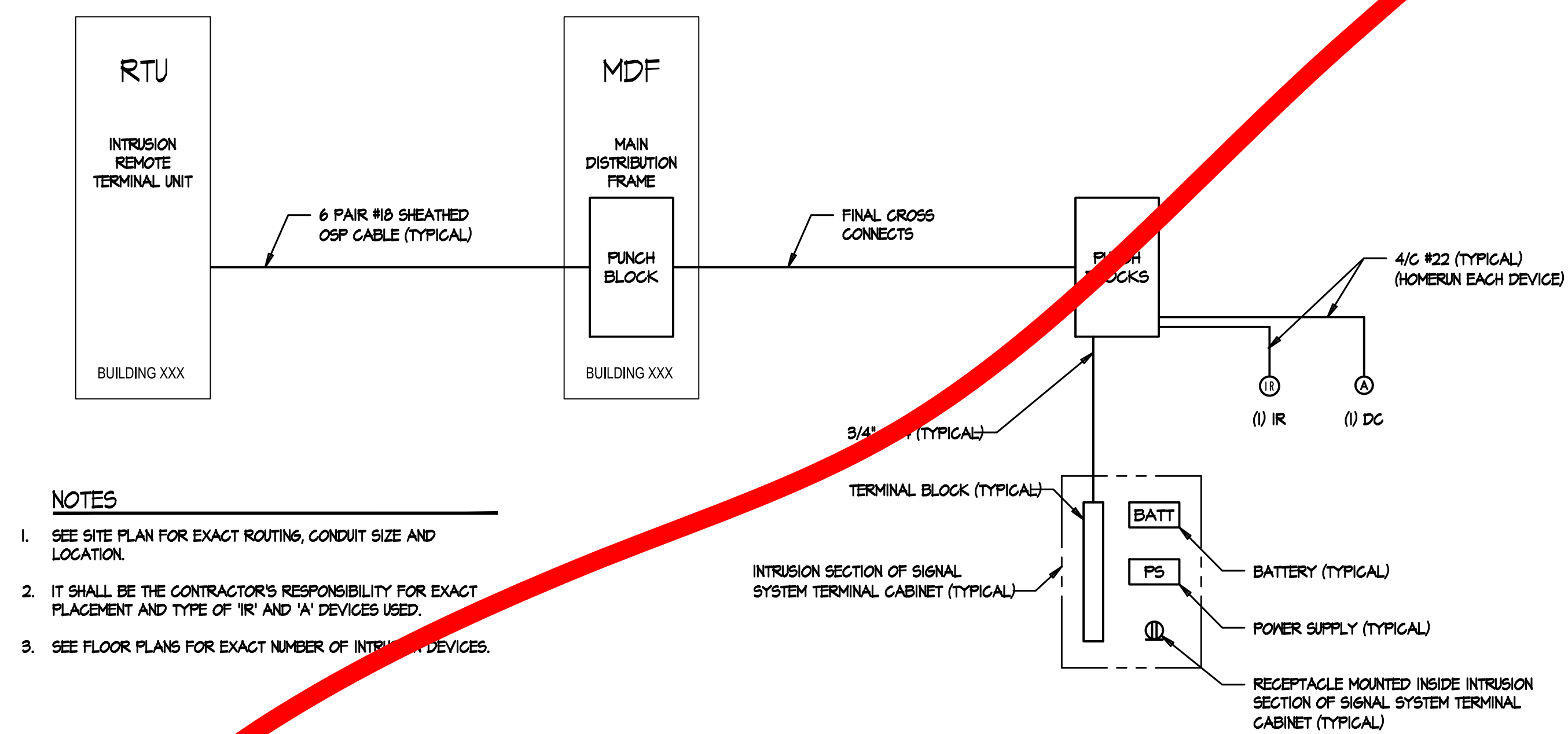
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ET-301



INTERCOM PUBLIC ADDRESS SYSTEM RISER DIAGRAM

NO SCALE

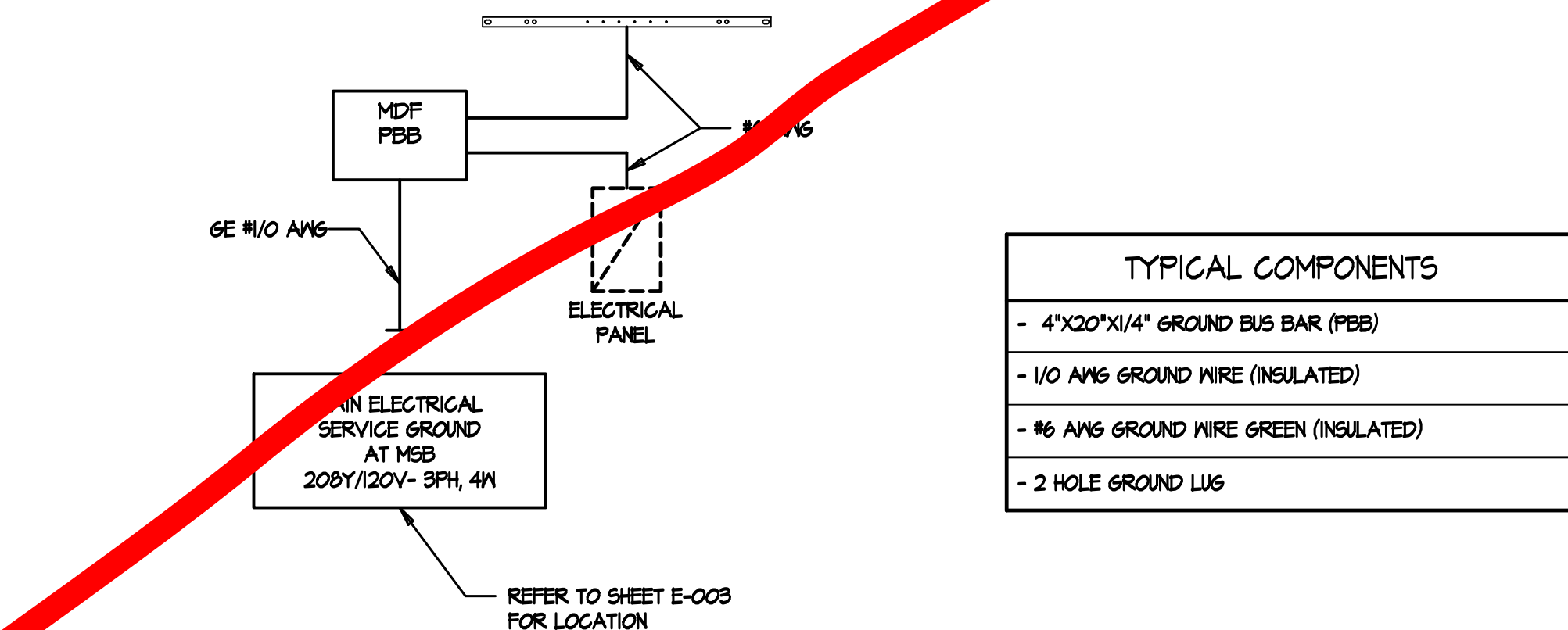
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ET-301



INTRUSION SYSTEM RISER DIAGRAM

NO SCALE

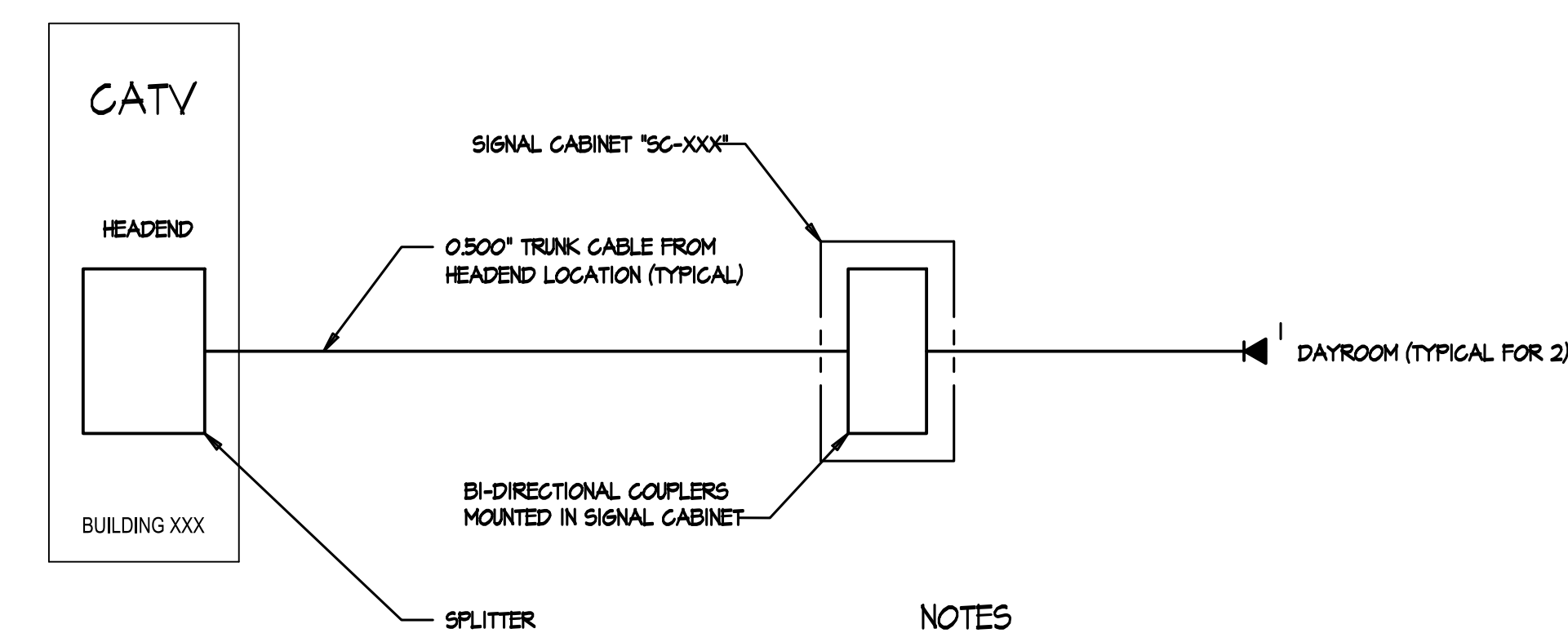
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ET-301



TELECOMMUNICATIONS GROUNDING AND BONDING RISER DIAGRAM

NO SCALE

4
ET-301



CATV SYSTEM RISER DIAGRAM

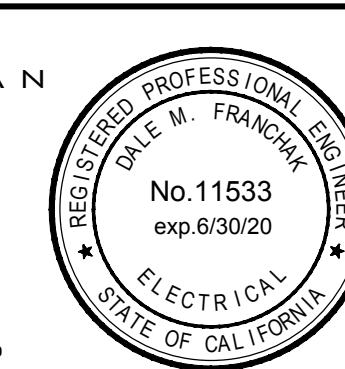
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5
ET-301

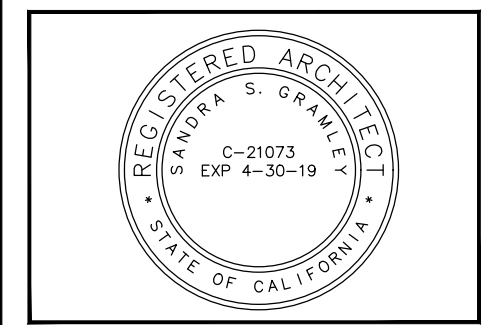
- NOTES
- SEE SITE PLAN FOR EXACT ROUTING, CONDUIT SIZE AND LOCATIONS.
 - PROVIDE D₅₀ CALCULATIONS PER SPECIFICATIONS AND PROVIDE AMPLIFIERS WHERE REQUIRED.
 - SEE FLOOR PLANS FOR EXACT NUMBER OF CATV OUTLETS.

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TECHNOLOGY RISER DIAGRAMS
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
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JOB	
PWA NO.	
REVISIONS	
SHEET	ET-301

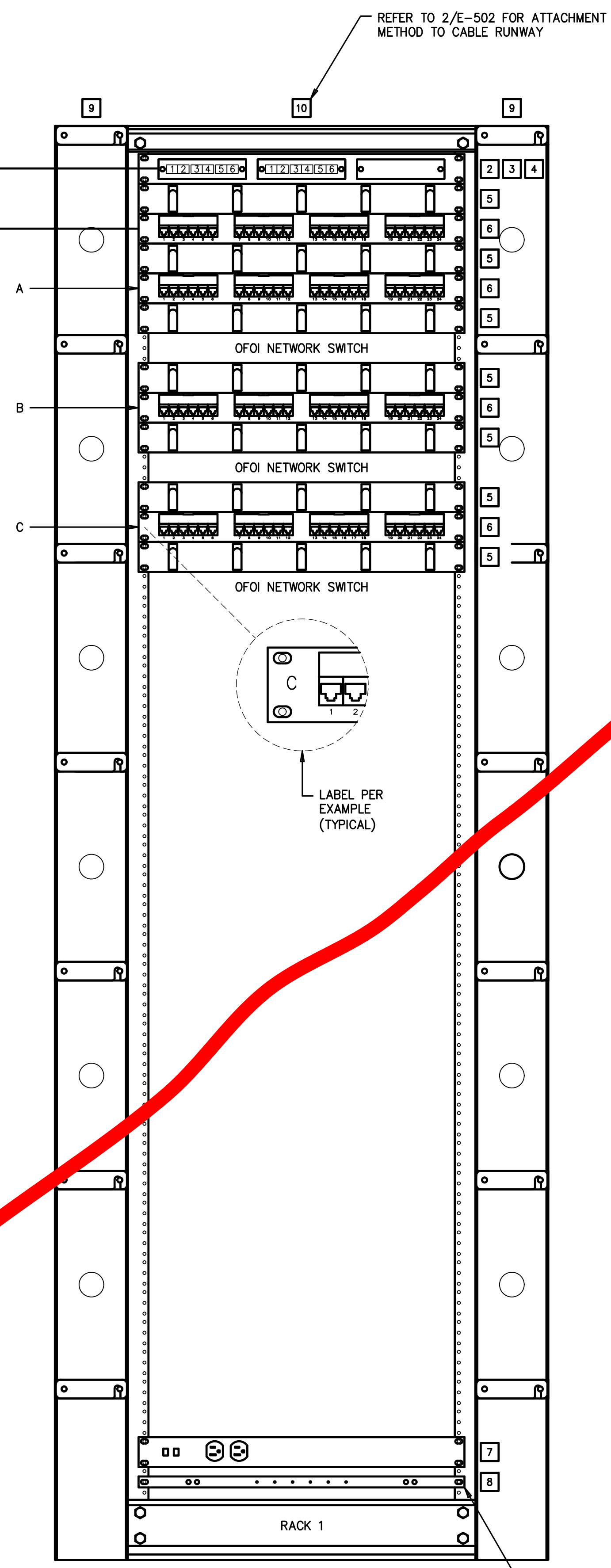
\ATA\17426.S00 - 0050 PALM SPRING QUARTERS\17426.DWG\CDR\17426.DWG ET-301 TECHNOLOGY RISER DIAGRAMS.DWG CREATED: 1/12/2019 10:18:10 AM PLOTTED: 3/2/2019 2:10 PM

January 16, 2019
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S:\DATA\17426-SDO - CSDS PALMDAR MOUNTAIN 1579 LIVING QUARTERS\17426-SDO\DWG\17426-SDO-ET-401.DWG ENLARGED PUNING CREATED: 1/12/2019 10:02:21 AM

MDF RACK ELEVATION

SCALE: NO SCALE



KEYNOTES

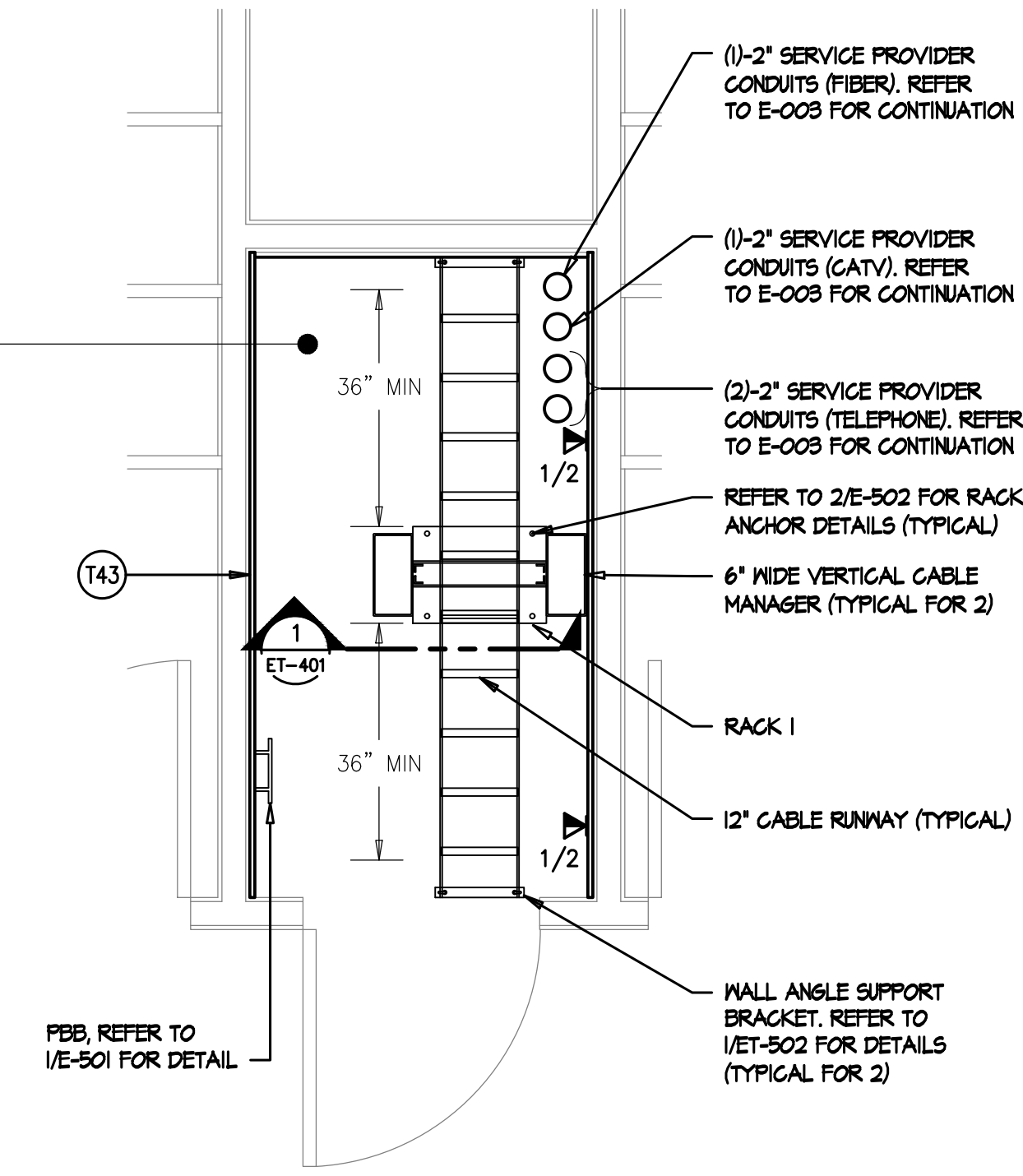
- (T40) PROVIDE MINIMUM 36" CLEARANCE IN FRONT AND REAR OF RACK(S).
- (T41) REFER TO ARCHITECTURAL PLANS FOR ARCHITECTURAL WORK IN THIS AREA.
- (T42) PROVIDE ALL NECESSARY CABLE RUNWAY COMPONENTS TO ENSURE MANUFACTURER'S SUGGESTED PRACTICES ARE MET. COMPONENTS INCLUDE CHANNEL RACK-TO-RUNWAY PLATES, J-BOLTS, BUTT-SPlice KITS, RUBBER END CAPS, AND CABLE RUNWAY EXTENSION KITS, ETC.
- (T43) 3/4" THICK X 48" W X 96" L, FIRE RESISTANT PLYWOOD BACKBOARD 8" AFF TO CEILING ON WALLS SHOWN. ATTACH BACKBOARD TO CMU WALLS WITH 1/4" DIAMETER TITEN HD ANCHOR AT 12" ON CENTER EACH WAY (ESR 1056). ATTACH BACKBOARD TO METAL STUDS WITH #8 SHEET METAL SCREWS AT 12" ON CENTER AT EACH STUD.

SHEET NOTES

1. REFER TO SHEET ET-001 FOR MATERIAL LIST, SYMBOL LEGEND, ABBREVIATIONS, GENERAL NOTES, MINIMUM CONDUIT SIZES AND ADDITIONAL REQUIREMENTS.

Data

(T40) (T41) (T42)



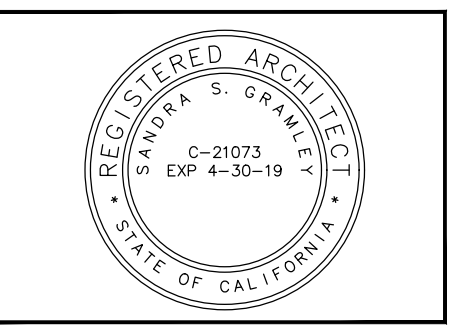
DATA ROOM ENLARGED PLAN - TECHNOLOGY

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



2
ET-401

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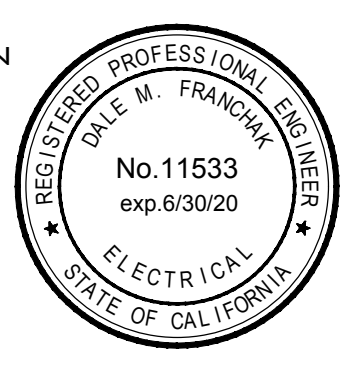


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LIVING QUARTERS FLOOR PLAN - TECHNOLOGY
FIRE STATION 79 LIVING QUARTERS

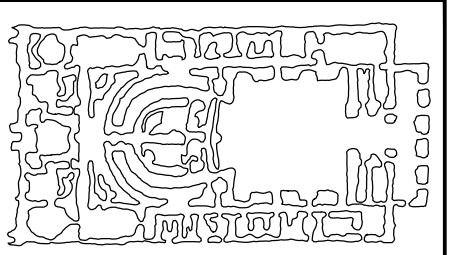
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SCALE	AS NOTED
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JOB	PWA NO. ---
REVISIONS	
SHEET	ET-401

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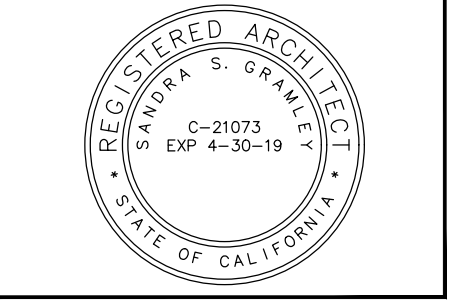


TREI PROJECT # 17426


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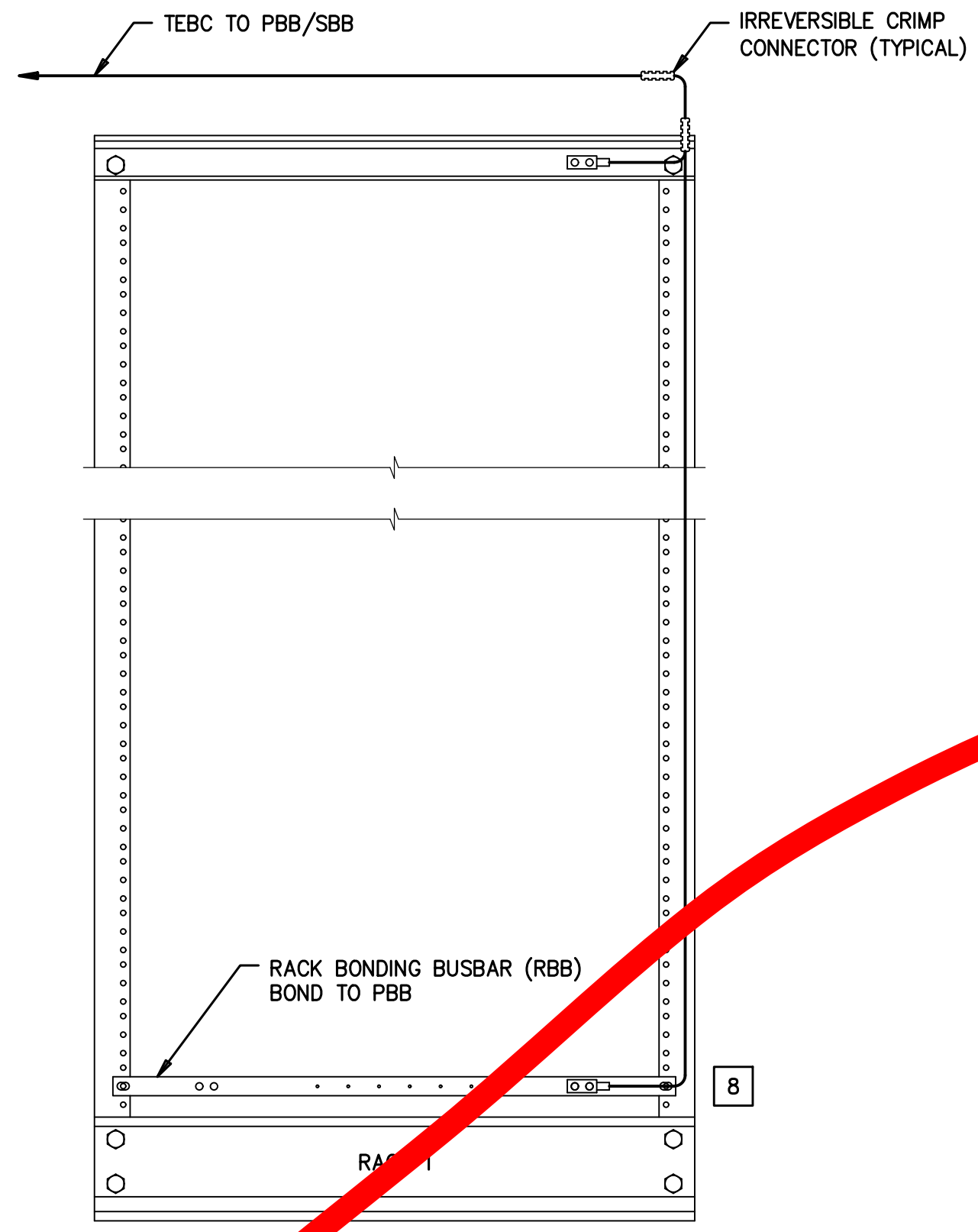
COUNTY OF SAN DIEGO
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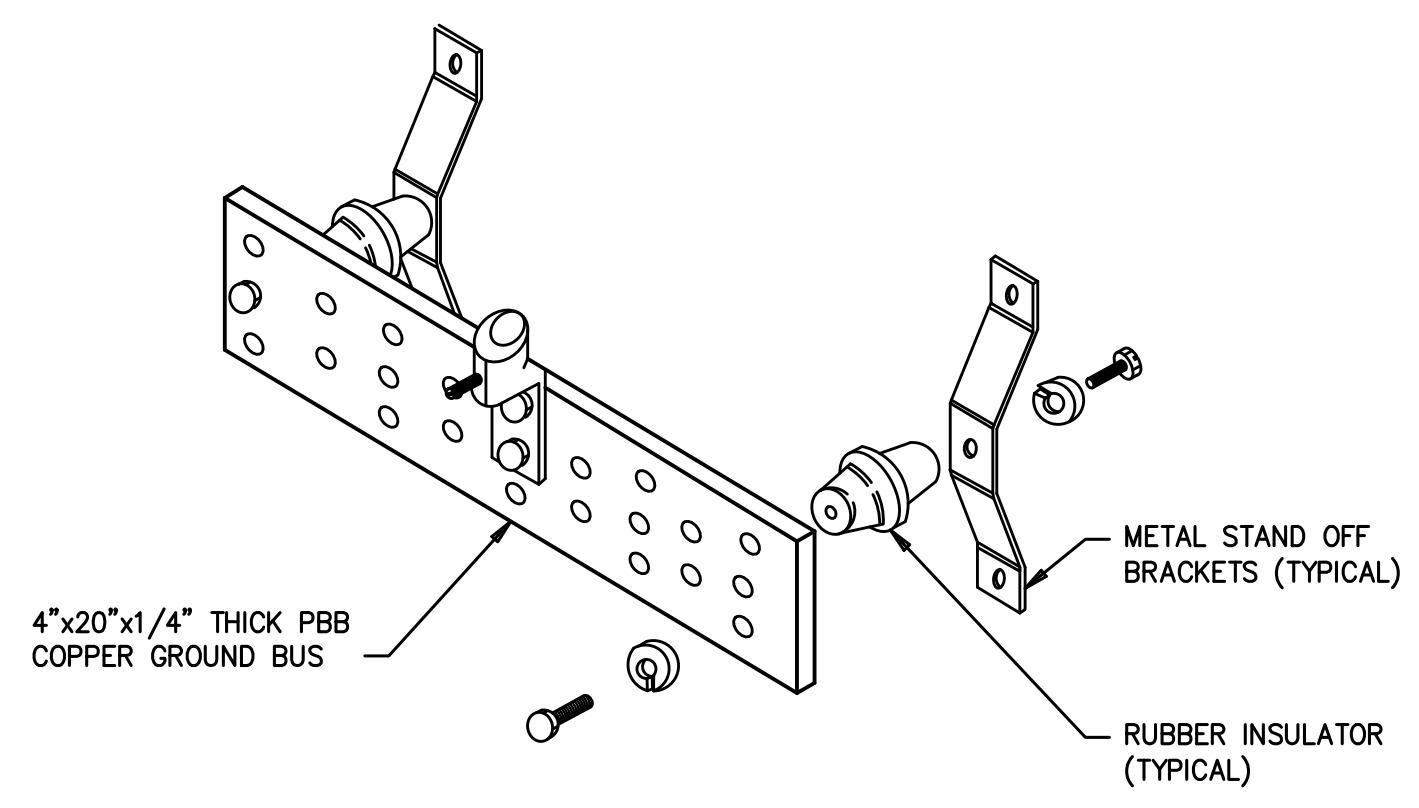
TECHNOLOGY DETAILS
FIRE STATION 79 LIVING QUARTERS

DATE	
SCALE	AS NOTED
CHECKED/DRAWN	SC/DP
JOB	
PWA NO.	
REVISIONS	
SHEET	ET-501

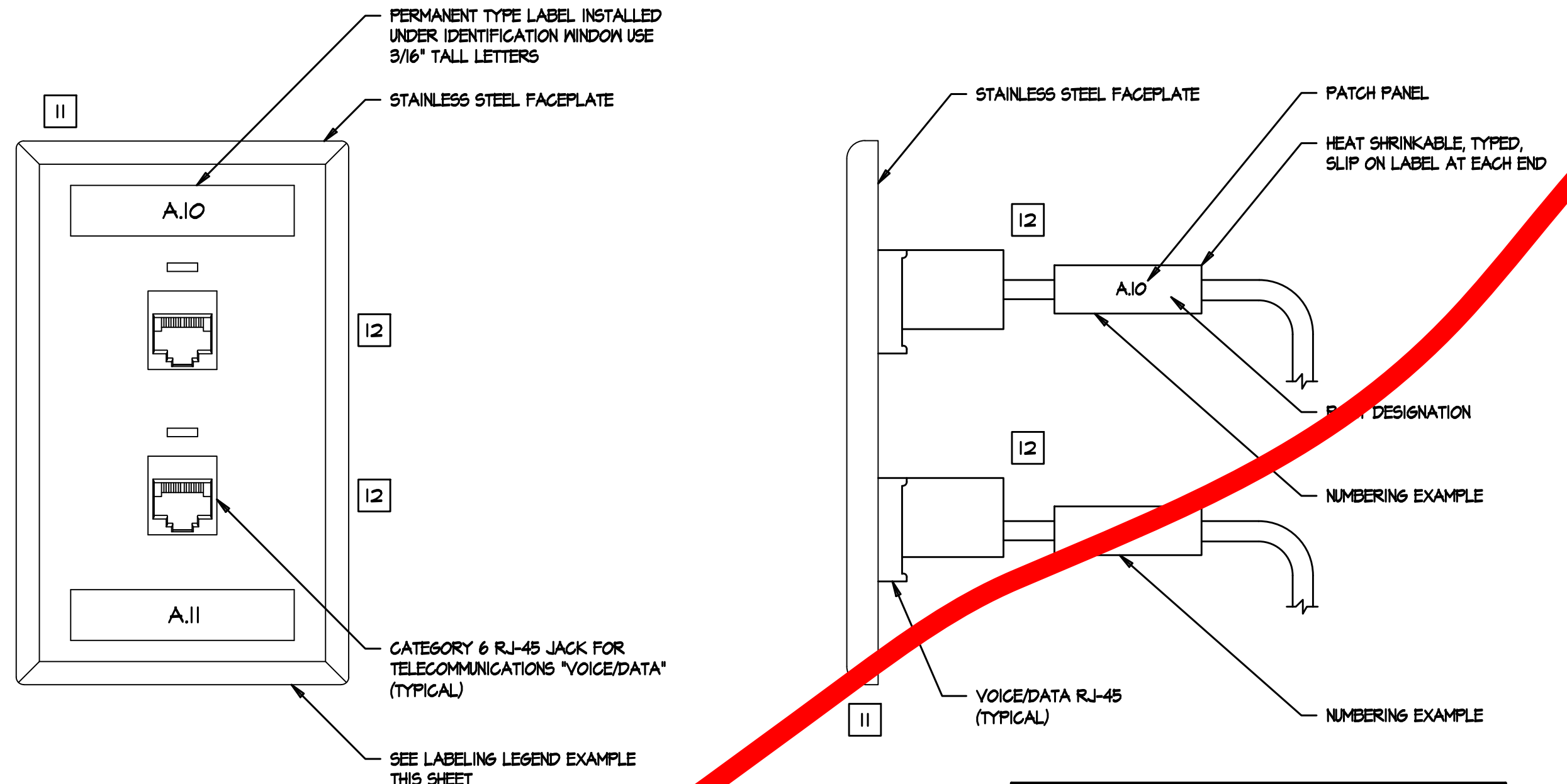
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RACK BONDING BUSBAR DETAIL
NO SCALE



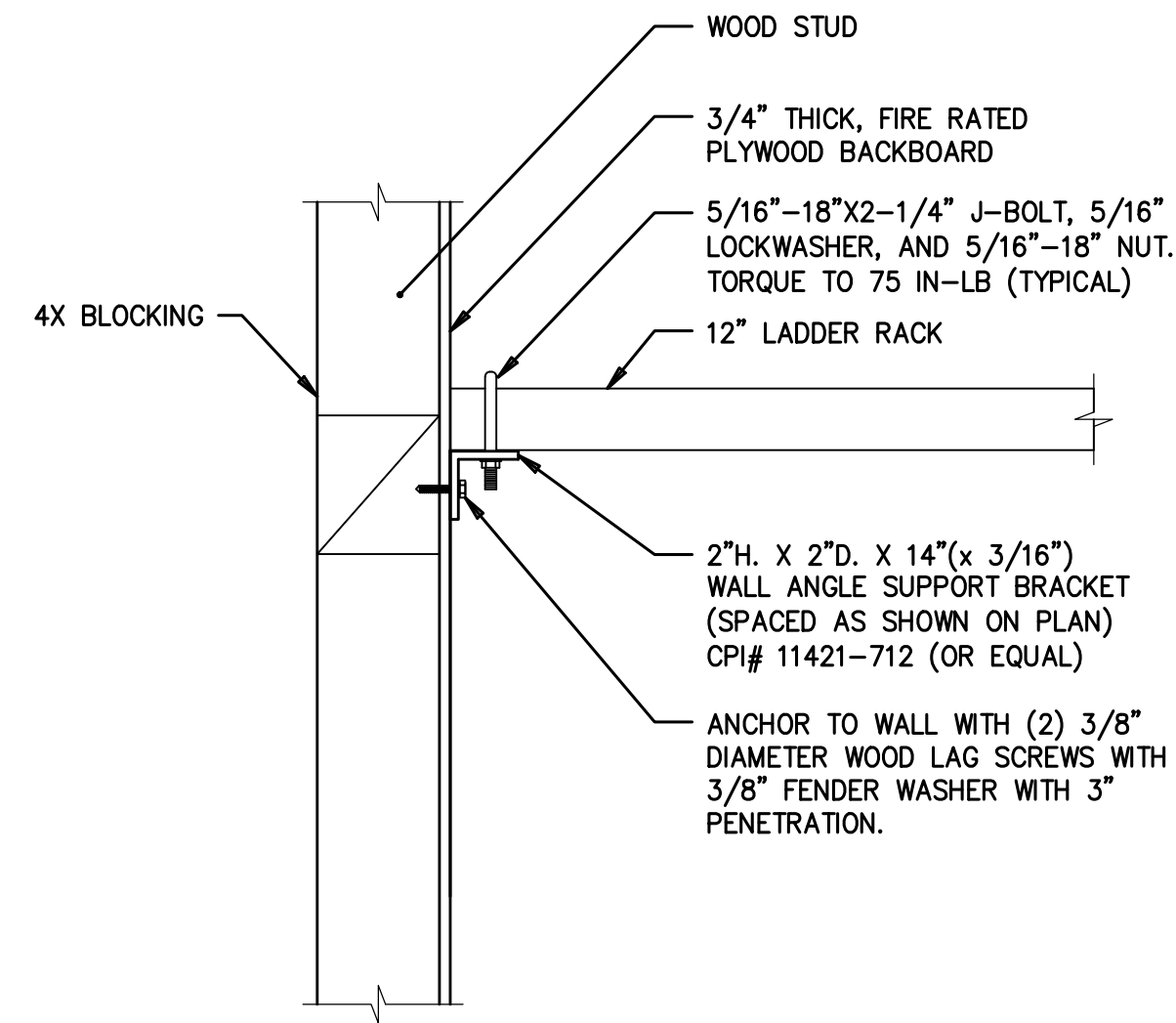
PRIMARY BONDING BUSBAR DETAIL
NO SCALE



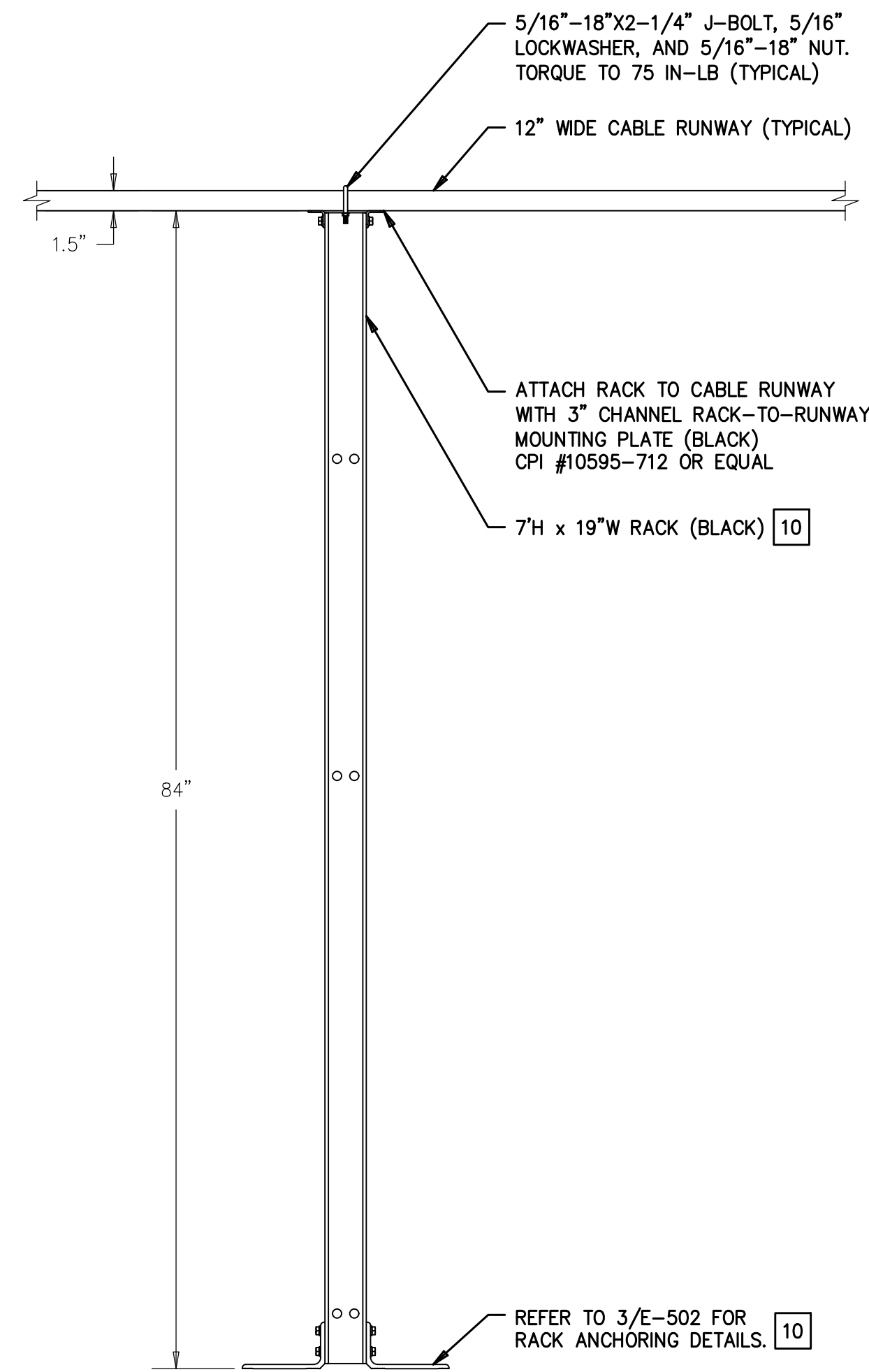
TELECOMMUNICATIONS "VOICE/DATA" LABELING DETAIL
NO SCALE

TYPICAL LABELING EXAMPLES	
CABLE	TYPICAL END USE CABINET # TYPE
25 PAIR (VOICE)	25 PAIR VOICE
25 PAIR (INTRUSION)	25 PAIR INTRUSION
6 PAIR (INTRUSION)	6 PAIR INTRUSION
200 PAIR	BLDG 200 PAIR TELCO TIE
24 FIBERS (DATA)	24 F/O DATA
CAT6 (SPARE)	CAT6 SPARE

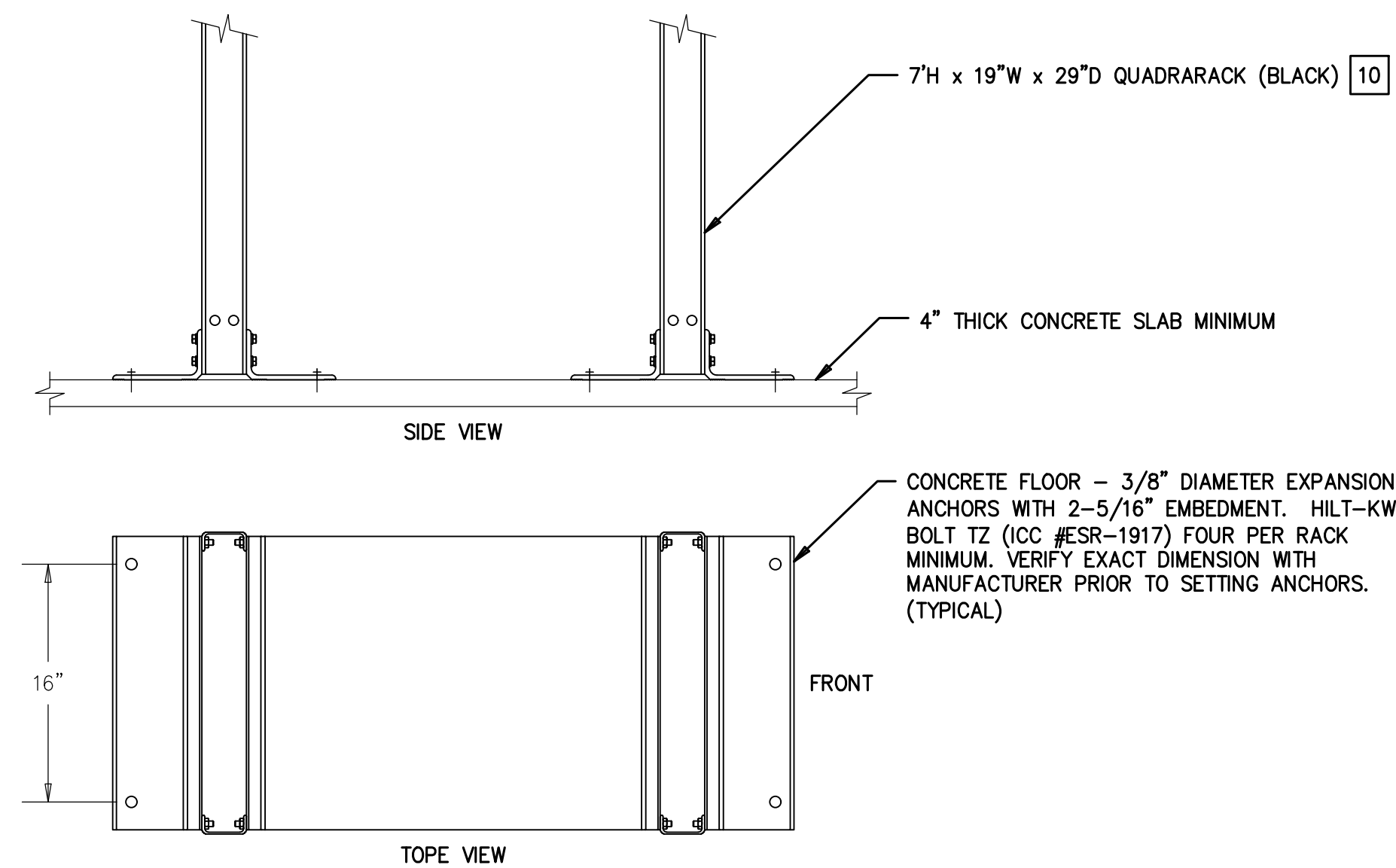
17426-00 - 0050 PALM SPRING MOUNTAIN 7579 LIVING QUARTERS 17426-00-ET-501 TECHNOLOGY DETAILS - GROUNDING & LABELING DWG CREATED: 1/12/2019 PLOTTED: 3/25/2019 2:11 PM



WALL ANGLE SUPPORT BRACKET DETAIL 1
NO SCALE E-502

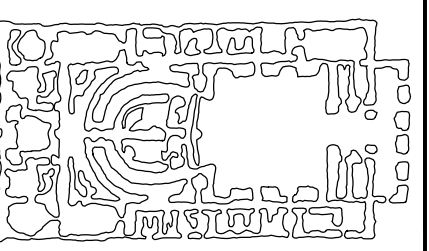


CABLE RUNWAY/RACK ATTACHMENT DETAIL 2
NO SCALE E-502



FOUR-POST RACK ANCHOR DETAIL 3
NO SCALE E-502

\ATA\17426.S00 - C05B PALMDAR MOUNTAIN F579 LIVING QUARTERS\17426.L00\ACAD\DWG\17426.E00_ET-502 TECHNOLOGY DETAILS - SUPPORTING.DWG CREATED: 1/12/2019 10:12:11 PM



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TECHNOLOGY DETAILS - SUPPORT

FIRE STATION 79 LIVING QUARTERS

January 16, 2019

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SHEET	ET-502
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