

AB	ANCHOR BOLT	LAM	LAMINATE
ABV	ABOVE	LOC	LOCATE

THE PROJECT CONSISTS OF THE RENOVATION OF AN EXISTING OFFICE AND WAREHOUSE FACILITY. THE SCOPE OF WORK INCLUDES:

REVIEWED FOR CODE COMPLIANCE	
FOR COMPLIANCE WITH	
☒	2025 CALIFORNIA BUILDING CODE
☒	2025 CALIFORNIA ELECTRICAL CODE (BASED ON 2023 NEC)
☒	2025 CALIFORNIA PLUMBING CODE
☒	2025 CALIFORNIA ENERGY CODE
☒	2025 CALIFORNIA MECHANICAL CODE
☒	2025 CALIFORNIA BUILDING CODE (STRUCTURAL ONLY)
☒	2025 CALIFORNIA GREEN CODE
☒	2025 CALIFORNIA FIRE CODE
☒	2025 CALIFORNIA RESIDENTIAL CODES

Please review approval of documents does not authorize construction to proceed in violation of any federal, state, or local regulation.

by: David Gavarovich, DATE: 8/28/26

BUREAU VERITAS NORTH AMERICA, INC.

ALL CODES REFERENCED ARE TO BE USED AS AMENDED
BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.

OWNER:
NEVADA IRRIGATION DISTRICT
1036 W MAIN ST

MEP ENGINEER
OPTIMIZED ENERGY & FACILITIES CONSULTING, INC.
CONTACT: ALEX BATISTA
5734 LONETREE BOULEVARD
ROCKLIN, CA 95765
T (916) 626-5518

COMMUNICATIONS
INFINITI WIRELESS
CONTACT: JOEY PAGE
1700 N. MARKET BLVD., SUITE 101
SACRAMENTO, CA 95834
T (916) 928-6000

CIVIL ENGINEER
SCO PLANNING & ENGINEERING, INC.
CONTACT: MARTIN WOOD
140 LITTON DR., SUITE 240
GRASS VALLEY, CA 95945
T (530) 272-5841

<u>SITE DATA</u>	
ADDRESS	148 WHITCOMB AVE

WIND EXPOSURE:	C
CLIMATE ZONE:	11

BUILDING ANALYSIS

FIRE SPRINKLERS: NFPA 13
FIRE ALARM: EXISTING

REFER TO STRUCTURAL DRAWINGS FOR COMPLETE LIST.

THE FOLLOWING SUBMITTALS WILL BE DEFERRED:

A map showing the intersection of Highway 12 and Highway 100. The proposed development is located on the east side of Highway 12, south of Highway 100. The map includes labels for Highway 12, Highway 100, and the proposed development area.

TITLE
T1.0 TITLE SHEET
CIVIL

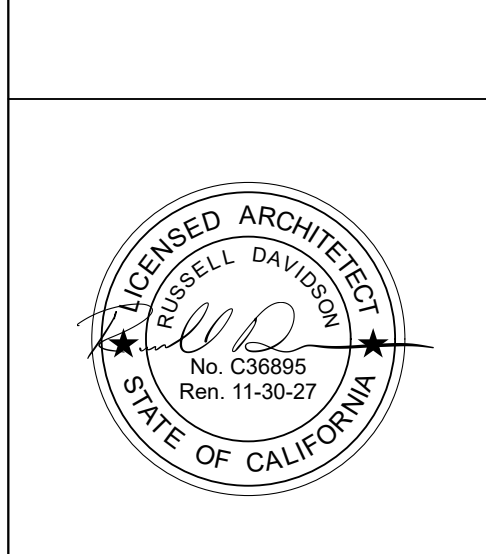
- BUILDING SECTIONS**
 - A3.0 BUILDING SECTIONS
 - A3.1 BUILDING SECTIONS
 - A3.2 BUILDING SECTIONS
- ENLARGED PLANS, INT ELEVATIONS, WALL SECTIONS**
 - A4.0 ENLARGED PLAN & INTERIOR ELEVATIONS
 - A4.1 ENLARGED PLAN & INTERIOR ELEVATIONS
 - A4.2 ENLARGED PLAN & INTERIOR ELEVATIONS
 - A4.3 ENLARGED PLAN & INTERIOR ELEVATIONS
- DETAILS**
 - A5.0 FRAMING DETAILS
 - A5.1 FRAMING DETAILS
 - A5.2 CASEWORK DETAILS
 - A5.3 CEILING DETAILS
 - A5.4 PARTITION DETAILS
 - A5.5 PENETRATION & TOP OF WALL DETAILS
 - A5.6 INT. DOOR & WINDOW DETAILS
 - A5.7 DOOR & WINDOW DETAILS
 - A5.8 ENGINEERING JUDGEMENT FIRESTOP DETAIL
- SCHEDULES & DIAGRAMS**
 - A6.0 DOOR SCHEDULES
 - A6.1 WINDOW SCHEDULES
- STRUCTURAL**
 - S-100 STRUCTURAL TITLE SHEET
 - S-101 STRUCTURAL SPECIFICATIONS
 - S-102 SPECIAL INSPECTIONS
 - S-200 OVERALL FOUNDATION PLAN
 - S-201 LEFT FOUNDATION PLAN
 - S-202 RIGHT FOUNDATION PLAN
 - S-210 OVERALL FLOOR FRAMING & LOWER ROOF FRAMING PLAN
 - S-211 LEFT FLOOR FRAMING & LOWER ROOF FRAMING PLAN
 - S-212 RIGHT FLOOR FRAMING & LOWER ROOF FRAMING PLAN
 - S-220 OVERALL UPPER ROOF FRAMING PLAN
 - S-221 LEFT UPPER ROOF FRAMING PLAN
 - S-222 RIGHT UPPER ROOF FRAMING PLAN

P0.0	PLUMBING SCHEDULES / CALCULATIONS / GENERAL NOTES
P1.1	PLUMBING PLAN – OVERALL – 1ST FLOOR
P1.2	PLUMBING PLAN – OVERALL – ROOF
P2.1	PLUMBING PLAN – VIEW A – WATER & GAS

MEC001	MECHANICAL GENERAL NOTES / LEGEND / CALGREEN NOTES
M01.0	MECHANICAL SCHEDULES
M1.1	MECHANICAL PLAN – OVERALL – 1ST FLOOR
M1.2	MECHANICAL PLAN – OVERALL – MEZZANINE
M1.3	MECHANICAL PLAN – OVERALL – ROOF
M2.1	MECHANICAL PLAN – VIEW A – 1ST FLOOR
M3.1	MECHANICAL PLAN – VIEW B – 1ST FLOOR
M4.1	MECHANICAL PLAN – VIEW C – 1ST FLOOR
M4.2	MECHANICAL PLAN – VIEW C – MEZZANINE
M4.3	MECHANICAL PLAN – VIEW C – ROOF
M5.0	MECHANICAL DETAILS
M6.1	MECHANICAL ENERGY COMPLIANCE
M6.2	MECHANICAL ENERGY COMPLIANCE
M6.3	MECHANICAL ENERGY COMPLIANCE
M6.4	MECHANICAL ENERGY COMPLIANCE

E0.1	ELECTRICAL ONE-LINE
E0.2	ELECTRICAL PANEL SCHEDULES
E0.3	ELECTRICAL PANEL SCHEDULES
E0.4	ELECTRICAL PANEL SCHEDULES

FIRE SPRINKLERS	
F001	GENERAL NOTES
F100	LEVEL 1 DEMO FIRE SPRINKLER PLAN
F101	LEVEL 1 FIRE SPRINKLER PLAN
F202	MEZZANINE FIRE SPRINKLER PLAN



ID	NAME	DATE
1	REV 1	7/11/26
2	REV 2	8/5/26

TITLE SHEET

OWNER

NEVADA IRRIGATION DISTRICT
1036 WEST MAIN STREET
GRASS VALLEY, CA 95945
CONTACT:

SITE ADDRESS

148, 152 WHITCOMB AVENUE
COLFAX, CA 95713

PLANNING/ENGINEERING

SCO PLANNING & ENGINEERING, INC.
1072 EAST MAIN STREET
GRASS VALLEY, CA 95945
(530) 272-5841
CONTACT: MARTIN WOOD, P.L.S. or JASON BARNUM, P.E.

FIRE PROTECTION

PLACER COUNTY FIRE DEPARTMENT – STATION 36
3091 COUNTY CENTER DRIVE
AUBURN, CA 95603
(530) 745-3574
CONTACT: DEREK SCHEPENS (DEPUTY FIRE MARSHALL)

ASSESSOR'S PARCEL NUMBER

100-230-054-000

ACREAGE

3.6± ACRES (156,816 SQ. FT.)

BASIS OF COORDINATES

ALL BOUNDARY INFORMATION SHOWN PER GRANT DEED REFERRING TO BOOK 19 OF PARCEL MAPS AT PAGE 71, OFFICIAL RECORDS OF PLACER COUNTY.

BASIS OF BEARINGS

THE MERIDAN FOR THIS MAP IS IDENTICAL TO THE PARCEL MAP RECORDED IN BOOK 19 OF PARCEL MAPS AT PAGE 71, OFFICIAL RECORDS OF PLACER COUNTY.

BENCHMARK

CONTOUR INTERVAL= 1.0'

VERTICAL DATUM IS BASED UPON DI GRATE ELEVATIONS AS SHOWN ON THE "COLFAX INDUSTRIAL PARK WHITCOMB AVENUE ONSITE IMPROVEMENTS" AS-BUILT DRAWINGS, DATED JANUARY, 2002 (NGVD29).

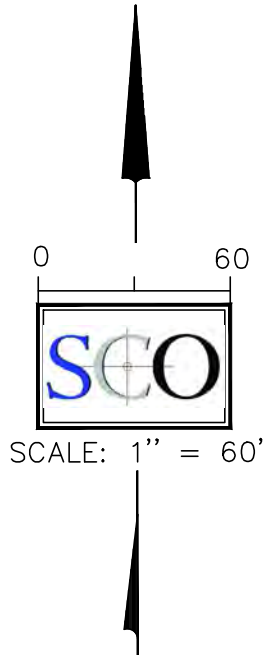
CITY OF COLFAX

SIGNED: _____ TITLE: _____
PRINT NAME: _____ DATE: _____

A.D.A. IMPROVEMENTS PLANS
FOR

148, 152 WHITCOMB AVENUE

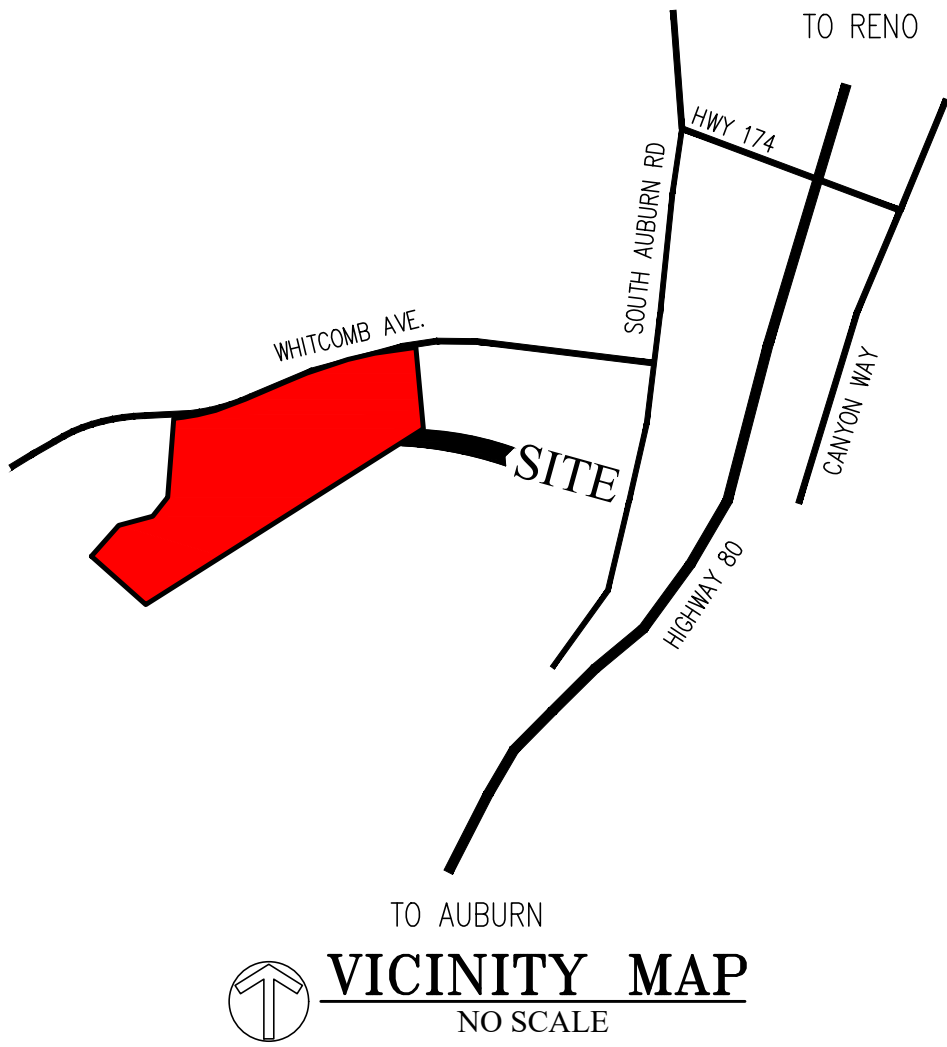
COLFAX, CALIFORNIA
JANUARY , 2026



OVERALL SITE PLAN

SPECIAL INSPECTIONS REQUIRED:

- PER CBC 1705, THE FOLLOWING SITE INSPECTIONS ARE:
1. FIELD DENSITY (COMPACTION TEST)
 2. OBSERVATION OF FOOTING EXCAVATION & SLAB REINFORCEMENT
 3. OBSERVATION, SAMPLING
 4. FILL MATERIAL
 5. PLACEMENT INSPECTION
 6. ACCEPTANCE LETTER
 7. CONCRETE COMPRESSIVE STRENGTH
 8. REBAR PLACEMENT



SHEET INDEX

- | | |
|------|------------------------------------|
| C1.0 | COVER SHEET |
| C1.1 | GENERAL NOTES |
| C2.0 | TOPOGRAPHY AND DEMOLITION PLAN |
| C3.0 | GRADING, DRAINAGE, AND SITE PLAN |
| C3.1 | ENLARGED ADA PLAN |
| C4.0 | STORM WATER POLLUTION CONTROL PLAN |
| C5.0 | GENERAL DETAILS |
| C5.1 | ADA AND DRAINAGE DETAILS DETAILS |
| C5.2 | WALL DETAILS |

ABBREVIATIONS:

- | | |
|----------|---------------------------|
| AC | ASPHALT CONCRETE |
| AB | AGGREGATE BASE |
| C | CONCRETE |
| CATV | CABLE TV |
| C.A.V. | CLEAN AIR VEHICLE |
| CMP | CORRUGATED METAL PIPE |
| COMM. | COMMUNICATION BOX |
| CF | CUBIC FEET |
| DET. | DETAIL |
| DI | DRAIN INLET |
| D.I.P. | DUCTILE IRON PIPE |
| EG | EXISTING GROUND |
| ELEC. | ELECTRICAL |
| E.V. | ELECTRIC VEHICLE |
| EX., (E) | EXISTING |
| FF | FINISH FLOOR |
| FG | FINISH GRADE |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| I.E. | INVERT ELEVATION |
| INV | INVERT |
| IRR | IRRIGATION |
| HDPE | HIGH DENSITY POLYETHYLENE |
| LF | LINEAR FEET |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MH | MAN HOLE |
| P | PAVEMENT |
| P.E. | POLYETHYLENE |
| SD | STORM DRAIN |
| SDMH | STORM DRAIN MANHOLE |
| SS | SANITARY SEWER |
| SSMH | SANITARY SEWER MANHOLE |
| STND. | STANDARD |
| TC | TOP OF CURB |
| TYP. | TYPICAL |
| W | WATER |
| WV | WATER VALVE |
| WSE | WATER SURFACE ELEVATION |

DESIGNED: JTB	DATE	NO. REVISIONS	1ST PLAN CHECK	07/10/2026	PROJECT NO: 202506	DATE: NOVEMBER, 2025	DWG: SEE DAY STAMP
DRAWN: JTB							
A.D.A. IMPROVEMENTS FOR 148, 152 WHITCOMB AVE COVER SHEET							
CALIFORNIA							
COLFAX							
GRASS VALLEY (530) 272-5841 TRUCKEE (530) 582-4043							
C1.0							

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS ON LANDS OF THE OWNER OF **TYPE IN ADDRESS** IN EASEMENTS OBTAINED FROM THE CITY OR PUBLIC AGENCIES. THE CONTRACTOR SHALL OBTAIN THE REQUIRED ENCROACHMENT PERMITS FROM THE APPROPRIATE PUBLIC AGENCIES. WHERE WORK IS LOCATED IN EASEMENTS, TRAVERSING LANDS OTHER THAN THOSE OF THE CITY, THE CONTRACTOR SHALL MAKE ALL APPROPRIATE NOTIFICATIONS AND CONFINE HIS/HER OPERATIONS WITHIN THE EASEMENT BOUNDARIES.
2. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES. HOWEVER, THE DESIGN ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE DESIGN ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. IF SO DIRECTED BY THE DESIGN ENGINEER, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COST RESULTING FROM THE CONTRACTORS FAILURE TO REPORT FAILURE TO STOP WORK AS DIRECTED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENT AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF THE LOCATION OF EXISTING UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENT. ANY DAMAGED IMPROVEMENTS SHALL BE REPLACED BY THE CONTRACTOR TO EQUAL OR BETTER THAN PRE-PROJECT CONDITIONS INCLUDING BUT NOT LIMITED TO ROADWAYS, DRAINAGE STRUCTURES, DRIVEWAYS, AND UTILITIES.
5. INCLUDE ANY NECESSARY SIGNAGE FOR CAL TRANS. SIGNAGE FOR LARGE TRUCKS ENTERING & LEAVING SITE, INCLUDING FLASHING LIGHTS IF REQUIRED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS AND REGULATIONS OF ANY JURISDICTIONAL BODY. FOR INFORMATION CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS AND MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. PRIOR TO ANY CORRECTIVE ACTION BY THE CONTRACTOR WHICH IS NECESSARY DUE TO STAKING ERRORS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER FOR VERIFICATION AND RESTAKING.
9. WHEN THE CONTRACTOR'S OPERATIONS TEMPORARILY INTERFERE WITH THE EXISTING FLOW OF SEWAGE, WATER, GAS, ELECTRICITY, TELEPHONE COMMUNICATION, OR THE OPERATION OF ANY OTHER FACILITY, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCY/UTILITY AT LEAST THREE (3) DAYS PRIOR TO THE INTERFERENCE, AND PROVIDE, OR MAKE ARRANGEMENTS FOR SATISFACTORY BYPASS FACILITIES.
10. THE CONTRACTOR SHALL REQUEST PERMISSION TO INTERFERE WITH SAID UTILITIES BY APPLYING TO THE RELATED UTILITY AND SHALL COMPLY WITH THEIR RECOMMENDATIONS AND ORDINANCES IN EACH CASE. SAID BYPASS FACILITIES SHALL BE SO CONSTRUCTED AS TO PROVIDE A NON-INTERRUPTIVE SERVICE OF SAID UTILITY.
11. IF BYPASS FACILITIES ARE NOT FEASIBLE OR REASONABLE, AS DETERMINED BY THE ENGINEER, THE RESIDENTS AND/OR OWNERS OF ALL PROPERTIES AFFECTED BY A TEMPORARY INTERRUPTION (LESS THAN 8 HOURS) MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE INTERRUPTION BY THE CONTRACTOR.
12. ALL INSTALLATIONS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS AND GUIDELINES UNLESS OTHERWISE NOTED ON THE PLANS. MANUFACTURERS INSTALLATION GUIDELINES SHALL BE ON CONSTRUCTION SITE AT ALL TIMES.
13. DURING THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL KEEP THE ENTIRE JOB SITE IN A CLEAN AND ORDERLY CONDITION. EXCESS UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE JOB SITE. SPILLAGE RESULTING FROM CONTRACTOR'S ACTIVITY SHALL BE REMOVED BY THE CONTRACTOR. ALL GUTTERS AND ROADSIDE DITCHES SHALL BE KEPT FREE AND CLEAR FROM OBSTRUCTIONS. ANY DEVIATION FROM THE ABOVE PRACTICE SHALL HAVE PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
14. THE CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF AS-BUILT CHANGES. THE CHANGES SHALL BE PLACED ON A CLEAN SET OF BLUELINE DRAWINGS IN RED AND GIVEN TO THE DESIGN ENGINEER AT JOB COMPLETION.
15. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, PROVIDE ALL PERMITS, CERTIFICATES AND LICENSES REQUIRED BY LAW.
16. WHEN TRANSPORTING ANY MATERIAL DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO PREVENT MATERIAL FROM BLOWING OR SPILLING ONTO STREETS AND HIGHWAYS. EARTHEN MATERIAL, IF TRANSPORTED, SHALL BE ADEQUATELY SPRAYED WITH WATER PRIOR TO TRANSPORT ONTO PUBLIC ROADS. VEGETATIVE MATERIAL SHALL BE COVERED OR TARPED PRIOR TO TRANSPORT.
17. INERT WASTE SUCH AS CONCRETE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
18. TOXIC WASTE (PETROLEUM AND OTHER CHEMICAL PRODUCTS), IF ENCOUNTERED, SHALL BE IDENTIFIED, SEPARATED AND DELIVERED TO THE PROPER LANDFILL AREA.
19. THE CONTRACTOR SHALL CHIP OR HAUL TO AN APPROVED DUMP SITE OR LANDFILL, ALL CLEARED VEGETATION.
20. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
21. SHOP DRAWINGS – THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AS MAY BE NECESSARY FOR THE PROSECUTION OF THE WORK, AS REQUIRED BY THESE NOTES. THE ENGINEER SHALL PROMPTLY REVIEW ALL SHOP DRAWINGS. THE ENGINEER'S REVIEW OF ANY SHOP DRAWING SHALL NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS.
22. MATERIALS, SERVICES AND FACILITIES – MATERIALS AND EQUIPMENT SHALL BE SO STORED AS TO INSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK. STORED MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE WORK SHALL BE LOCATED SO AS TO FACILITATE PROMPT INSPECTION.
23. ALL MATERIAL SHALL BE UNLOADED, STORED, LOWERED INTO THE TRENCH AND JOINED, USING SUITABLE TOOLS AND EQUIPMENT AND IN A MANNER THAT WILL PREVENT DAMAGE TO THE MATERIAL, JOINTS, COATING, OR LINING. STORAGE AND HANDLING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
24. DAMAGED MATERIAL WILL BE REJECTED. THE CONTRACTOR SHALL CLEARLY MARK THE REJECTED MATERIAL AND REMOVE IT FROM THE IMMEDIATE CONSTRUCTION AREA. WHEN APPROVED BY THE ENGINEER, DAMAGED MATERIAL MAY BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND USED IN THE CONSTRUCTION. REPLACEMENT OR REPAIR OF REJECTED MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT NO EXPENSE TO THE OWNER.
25. INSPECTION AND TESTING – ALL MATERIALS MAY BE INSPECTED, SAMPLED AND TESTED BY THE OWNER. THE CONTRACTOR SHALL GIVE SUFFICIENT ADVANCE NOTICE OF PLACING OF ORDER TO PERMIT TESTS TO BE COMPLETED BEFORE THE MATERIALS ARE INCORPORATED IN THE WORK AND HE SHALL AFFORD SUCH FACILITIES AS THE OWNER MAY REQUIRE FOR COLLECTING AND MAKING INSPECTIONS. ALL SAMPLES SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. THE OWNER MAY WAVE SAMPLING AND TESTING IF ADEQUATE INFORMATION, PROPERLY CERTIFIED, IS AVAILABLE TO INDICATE THAT MATERIALS COMPLY WITH TERMS OF THE SPECIFICATIONS.
26. THE CONTRACTOR SHALL FURNISH THE OWNER WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER OR NOT THE WORK AS PERFORMED IS IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT. IF THE OWNER REQUESTS IT, THE CONTRACTOR AT ANY TIME BEFORE ACCEPTANCE OF THE WORK SHALL REMOVE OR UNCOVER SUCH PORTIONS OF THE FINISHED WORK AS MAY BE DIRECTED. AFTER EXAMINATION, THE CONTRACTOR SHALL RESTORE SAID PORTIONS OF THE WORK TO THE STANDARDS REQUIRED BY THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
27. CONTRACTOR WILL BE REQUIRED TO MEET ALL CEQUA REQUIREMENTS APPERTAINING TO THE CEQUA PERMIT FOR THIS PROJECT.
28. WATER AND POLLUTION – THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS PERTAINING TO WATER POLLUTION AND SOIL EROSION INCLUDING THE PAYMENT OF ANY FINES OR PENALTIES IMPOSED BY ANY GOVERNMENT AGENCY AS A RESULT OF WORK PERFORMED BY THE CONTRACTOR.
29. THE CONTRACTOR SHALL COMPLY WITH ALL AIR POLLUTION CONTROL RULES, REGULATIONS, ORDINANCES AND STATUTES WHICH APPLY TO THE WORK AREA. PLACER COUNTY AIR POLLUTION CONTROL DISTRICT CAN BE CONTACTED AT TELEPHONE 530-745-2330.
30. CONSTRUCTION SAFETY – THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PROCEDURES NECESSARY TO PROVIDE A SAFE WORKING CONDTION THROUGH ALL PHASES OF THE PROJECT. SAID PROCEDURES SHALL CONFORM TO THE SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE AND ALL OTHER PROVISIONS REQUIRED BY FEDERAL, STATE AND COUNTY LAW OR ORDINANCE.
31. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OUTLINING THE SAFETY PROCEDURES TO BE FOLLOWED BY ITS WORKMEN, ALL SUBCONTRACTORS, AND RELATED TRADES WORKING ON ITS JOBS AND EFFECTIVELY ASSURING COMPLIANCE WITH SUCH PROCEDURES. IT SHALL ALWAYS PROVIDE FOR THE SAFETY OF THE PUBLIC BOTH DAY AND NIGHT WHERE THEY ARE EXPOSED TO ITS CONSTRUCTION OPERATION.
32. PROJECT CLEANUP AND FINISHING – THE CONTRACTOR SHALL REMOVE FROM THE VICINITY OF THE COMPLETED WORK ALL RUBBISH, UNUSED MATERIAL, FORMS, CONSTRUCTION STAKES, ETC. BELONGING TO HIM OR USED UNDER HIS DIRECTION DURING CONSTRUCTION. THE WORK SHALL BE LEFT IN A NEAT AND PRESENTABLE MANNER AT ALL TIMES INSOFAR AS CONSTRUCTION CONDITIONS PERMIT. AS PORTIONS OF THE WORK ARE COMPLETED, THE CONTRACTOR SHALL CLEAN THE INDIVIDUAL SITES.
33. TOUCHUP AND REPAIR – THE CONTRACTOR SHALL TOUCHUP OR REPAIR ALL FINISHED SURFACES ON STRUCTURES, EQUIPMENT, FIXTURES, OR WHATEVER, THAT HAVE BEEN DAMAGED PRIOR TO FINAL ACCEPTANCE. SURFACE ON WHICH SUCH TOUCHUP OR REPAIR CANNOT BE SUCCESSFULLY ACCOMPLISHED SHALL BE COMPLETELY REFINISHED OR IN THE CASE OF HARDWARE AND SIMILAR SMALL ITEMS, THE ITEMS SHALL BE REPLACED.
34. CEMENT MATERIALS – PORTLAND CEMENT SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TYPE "II" PORTLAND CEMENT OF THE AMERICAN SOCIETY FOR TESTING MATERIALS. ALL CEMENT SHALL BE OF THE SAME BRAND.

35. CONCRETE: INCLUDE 3000 PSI/6 SACK AT ADA PARKING & WALKWAYS FOR LONGEVITY – DESIGN SPECIFICATION = 2500 PSI
36. UNLESS OTHERWISE SPECIFIED HEREIN, CEMENT GROUT OR MORTAR SHALL BE COMPOSED OF ONE PART CEMENT TO TWO PARTS FINE AGGREGATE MIXED WITH WATER IN A MECHANICAL BATCH MIXER TO PRODUCE A PLASTIC WORKABLE MIXTURE.
37. STEEL REINFORCEMENT – THE CONTRACTOR SHALL FURNISH AND PLACE ALL STEEL REINFORCEMENT OF THE SIZES AND SHAPES AS SHOWN ON THE PLANS OR SPECIFIED HEREIN. MATERIAL AND PLACEMENT SHALL CONFORM TO REQUIREMENTS OF SECTION 52 OF STANDARD SPECIFICATIONS. STEEL SHALL BE A.S.T.M. A615, GRADE 40 UNLESS CALLED OUT OTHERWISE ON THE DRAWINGS.
38. FORM AND FORMWORK – THE FORMS SHALL BE SMOOTH, MORTARTIGHT, TRUE TO THE REQUIRED LINES AND GRADES, AND OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE FRESH CONCRETE WITHOUT SPRINGING OUT OF SHAPE OR APPRECIABLE DEFLECTION DURING THE PLACING OF THE CONCRETE. ALL EXPOSED SHARP EDGES SHALL BE CHAMFERED WITH TRIANGULAR FILLETS NOT LESS THAT 0.75" BY 0.75", UNLESS OTHERWISE SHOWN ON THE PLANS. FORMS PREVIOUSLY USED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, MORTAR AND FOREIGN MATTER BEFORE BEING REUSED.
39. INSERTS – THE CONTRACTOR SHALL, BEFORE PLACING CONCRETE, MAKE PROVISION FOR ALL CORED HOLES, HANGERS, ANCHOR AND OTHER BOLTS, CONDUITS, PIPES, WATER SEALS AND OTHER INSERTS TO BE PLACED IN THE CONCRETE. HE SHALL VERIFY THE LOCATIONS AND DETAILS OF ALL SUCH WORK AND SHALL PREVENT THE DISTURBANCE OF SUCH INSERTS DURING THE PLACING OF THE CONCRETE.
40. IF ANY EXISTING FACILITIES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR AT NO COST TO THE OWNER.
41. THAT PRIOR TO ANY WORK BEING CONDUCTED WITHIN THE STATE, COUNTY OR CITY RIGHT OF WAY, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE APPROPRIATE AGENCY.
42. ALTERNATIVES TO DIESEL GENERATOR SETS (SUCH AS GRID POWER) SHALL BE USED FOR ON-SITE ELECTRICAL NEEDS DURING CONSTRUCTION, UNLESS DEEMED INFEASIBLE BY THE AIR POLLUTION CONTROL OFFICER AND STATED IN WRITING.
43. IF GRADING OR OTHER CONSTRUCTION OPERATIONS UNEARTH ARCHEOLOGICAL OR HISTORICAL ARTIFACTS OF RESOURCES, CONSTRUCTION ACTIVITIES SHALL CEASE WITHIN A 200-FOOT RADIUS OF THE DISCOVERY. THE PLANNING DEPARTMENT SHALL BE NOTIFIED OF THE EXTENT AND LOCATION OF DISCOVERED MATERIALS SO THAT THEY MAY BE RECORDED BY A QUALIFIED ARCHAEOLOGIST. DISPOSITION OF ARTIFACTS SHALL COMPLY WITH STATE AND FEDERAL LAWS.
44. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF PAVEMENT BASE MATERIALS, ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEHIND THE HARDSCAPE IMPROVEMENT. PUBLIC UTILITIES, CABLE TV, SANITARY SEWERS, AND WATER LINES, SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE STREET PAVEMENT, CURB, GUTTER AND SIDEWALK, WHEN FUTURE SERVICE CONNECTIONS OR EXTENSIONS ARE MADE.
45. IF GRADING IS TO TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15, BOTH TEMPORARY AND PERMANENT EROSION CONTROL PLANS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL ALONG WITH THE GRADING PLAN. PERMANENT EROSION CONTROL MEASURES SHALL INCLUDE TREATMENT ALL GRADED SLOPES WITHIN 60 DAYS OF COMPLETION OF GRADING. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15.
46. WHERE SOIL OR GEOLOGIC CONDITIONS ENCOUNTERED DURING GRADING OPERATIONS ARE DIFFERENT FROM THAT ANTICIPATED IN THE SOIL AND/OR GEOLOGIC INVESTIGATION REPORT, OR WHERE SUCH CONDITIONS WARRANT CHANGES TO RECOMMENDATIONS CONTAINED IN THE ORIGINAL SOIL INVESTIGATION, A REVISED SOIL OR GEOLOGIC REPORT SHALL BE SUBMITTED BY THE CONTRACTOR, FOR APPROVAL BY THE OWNERS REPRESENTATIVE. IT SHALL BE ACCOMPANIED BY AN ENGINEERING AND GEOLOGICAL OPINION AS TO SAFETY OF THE SITE FROM HAZARDS OF LAND SLIPPAGE, EROSION, SETTLEMENT, AND SEISMIC ACTIVITY.
47. IF HUMAN REMAINS OF ANY KIND ARE FOUND DURING CONSTRUCTION, ALL ACTIVITIES SHALL CEASE IMMEDIATELY, AND THE NEVADA COUNTY CORONER BE NOTIFIED AS REQUIRED BY STATE LAW. IF THE CORONER DETERMINES THE REMAINS TO BE OF NATIVE AMERICAN ORIGIN, HE/SHE SHALL NOTIFY THE NATIVE AMERICAN HERITAGE COMMISSION (NAHC). THE NAHC SHALL THEN IDENTIFY THE MOST LIKELY DESCENDANT(S) (MLD) TO BE CONSULTED REGARDING TREATMENT AND/OR REBURIAL OF THE REMAINS. IF AN MLD CANNOT BE IDENTIFIED, OR THE MLD FAILS TO MAKE A RECOMMENDATION REGARDING THE TREATMENT OF THE REMAINS WITHIN 48 HOURS AFTER GAINING ACCESS TO THE REMAINS, THE CITY SHALL REBURY THE NATIVE AMERICAN HUMAN REMAINS AND ASSOCIATED GRAVE GOODS WITH APPROPRIATE DIGNITY ON THE PROPERTY IN A LOCATION NOT SUBJECT TO FURTHER SUBSURFACE DISTURBANCE. WORK CAN CONTINUE ONCE THE MLD'S RECOMMENDATIONS HAVE BEEN IMPLEMENTED OR THE REMAINS HAVE BEEN REBURIED IF NO AGREEMENT CAN BE REACHED WITH TEH MLD.
48. CONSTRUCTION ACTIVITIES (INCLUDING FORKLIFT ACTIVITY AND TRUCK DELIVERY/PICKUPS), SHALL BE LIMITED TO THE HOURS OF 6:00 A.M. TO 8:00 P.M., MONDAY THROUGH FRIDAY, PURSUANT TO COUNTY OF PLACER CODE9.36.030.

DRAINAGE SYSTEM IMPROVEMENT NOTES

1. DRAINAGE SYSTEM IMPROVEMENTS SHALL MEET THE REQUIREMENTS OF THE COUNTY OF PLACER ENGINEERING DIVISION. ALL DRAINAGE IMPROVEMENTS SHALL BE INSTALLED TO THE LINES AND GRADES AS SHOWN ON THE PLANS. IF A CONFLICT IS DISCOVERED, CONSTRUCTION OF THE FACILITY SHALL HALT AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY.
2. CORRUGATED POLYETHYLENE PIPE FOR DRAINAGE SHALL MEET THE REQUIREMENTS OF THESE NOTES. THE PIPE SHALL BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR WITH SMOOTH INTERIOR. THE PIPE AND MATERIALS SHALL CONFORM TO AASHTO M294 AND MEET ASTM F667, UNLESS OTHERWISE NOTED ON THE PLANS.
3. STORM DRAINAGE INLETS AND MANHOLES SHALL CONFORM TO THE REQUIREMENTS IN THESE NOTES AND TO THE DETAILS IN THE PLANS. ALL INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
4. STORM DRAIN INLETS SHALL HAVE PRECAST BASES AND RISERS. THE FRAME SHALL BE CAST INTO THE TOP RISER.
5. STORM DRAIN MANHOLES SHALL BE THE CONCENTRIC TYPE WITH PRECAST BASES AND RISERS. LIDS SHOULD BE SET TO MATCH FINISHED GRADE AND FINISHED AS SHOWN IN THE PLANS AND DETAILS. ALL LIDS SHALL BE SET 1/4" BELOW FINISH GRADE.
6. TRENCH EXCAVATION AND BACKFILL DETAILS ARE SHOWN ON THE PLANS.

GRADING – DUST SUPPRESSION NOTES:

1. ALTERNATIVES TO OPEN BURNING OF VEGETATIVE MATERIAL ON THE PROJECT SITE SHALL BE USED UNLESS DEEMED INFEASIBLE BY THE NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT. SUITABLE ALTERNATIVES ARE CHIPPING, MULCHING OR CONVERSION TO BIOMASS FUEL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TIMELY DUST CONTROL OF DISTURBED AREAS AT ALL TIMES, TO THE SATISFACTION OF THE CITY ENGINEER. ALL MATERIAL EXCAVATED, STOCKPILED, GRADED, OR TRANSPORTED OFF-SITE SHALL BE SUFFICIENTLY WATERED, TREATED OR COVERED TO PREVENT DUST FROM CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD.
3. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO DIRECT CONSTRUCTION TRAFFIC FLOW TO OFF-PEAK HOURS AS MUCH AS POSSIBLE.
4. WHEEL WASHERS SHALL BE INSTALLED WHERE PROJECT VEHICLES AND/OR EQUIPMENT ENTER AND/OR EXIT ONTO PAVED STREETS FROM UNPAVED ROADS. VEHICLES AND/OR EQUIPMENT SHALL BE WASHED PRIOR TO EACH TRIP, AS NECESSARY TO PREVENT VISIBLE DUST EMISSIONS FROM ADHERING DIRT OR DEPOSITION ON ROADWAYS.
5. ALL MOBILE AND STATIONARY EQUIPMENT SHALL BE PROPERLY MAINTAINED.
6. THE COUNTY SHALL REQUIRE PROJECTS TO UTILIZE BEST MANAGEMENT PRACTICES AND THE USE OF CONSTRUCTION EQUIPMENT THAT MEETS APPLICABLE STATE AND FEDERAL NON-ROAD DIESEL FUEL EMISSION STANDARDS.
7. ALL CONSTRUCTION ACTIVITIES SHALL BE SUBJECT TO THE REQUIREMENTS OF THE NSAQMD'S REGULATION 2, RULE 226 REGARDING DUST CONTROL. THEY ARE AS FOLLOWS:
- 7.1.PERSON RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY AND EFFECTIVE MANNER: (NAME)_____ (PHONE NUMBER)_____
- 7.2.ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT FUGITIVE DUST FROM LEAVING THE PROPERTY BOUNDARIES AND/OR CAUSING A PUBLIC NUISANCE. WATERING DURING SUMMER MONTHS SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE COVERAGE OF DISTURBED AREAS.
- 7.3.ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY TO MINIMIZE DUST EMISSIONS.
- 7.4.ALL ON-SITE VEHICLE TRAFFIC SHALL BE LIMITED TO A SPEED OF 15 MPH ON UNPAVED ROADS.
- 7.5.ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON A PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.
- 7.6.ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, OR WATERED OR OTHERWISE STABILIZED UNTIL A SUITABLE COVER IS ESTABLISHED.
- 7.7.ALL MATERIAL TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT IT BEING ENTRAINED IN THE AIR, AND THERE MUST BE A MINIMUM OF SIX (6) INCHES OF FREEBOARD IN THE BED OF THE TRANSPORT VEHICLE.
- 7.8.PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEEP OR WASHED AT THE END OF EACH DAY, OR MORE FREQUENTLY IF NECESSARY, TO REMOVE EXCESSIVE ACCUMULATIONS OR VISIBLY RAISED AREAS OF SOIL WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT SITE.
- 7.9. PRIOR TO FINAL OCCUPANCY, THE APPLICANT SHALL RE-ESTABLISH GROUND COVER ON THE SITE THROUGH SEEDING AND WATERING

EARTHWORK AND GRADING NOTES

1. THE FOLLOWING ESTIMATED QUANTITIES ARE GIVEN FOR INFORMATION ONLY. THE AMOUNT OF EXPORT/ IMPORT IS AN ROUGH ESTIMATE WHICH INCLUDES AN ALLOWANCE FOR CLEARING LOSS, UNSUITABLE MATERIAL, PLUS SHRINK AND SWELL OF EXCAVATED MATERIAL PLACED IN EMBANKMENTS OR USED FOR BACKFILL.
- | | |
|---------------|---------|
| TOTAL CUT: | 17 C.Y. |
| TOTAL FILL: | 81 C.Y. |
| TOTAL IMPORT: | 64 C.Y. |
- ASSUMPTIONS:
CLEARING LOSS = 0"
FOOTING / TRENCH EXCAVATION: NOT INCLUDED IN THIS CALCULATION.
ANY EXCESS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE OWNER'S PROPERTY AND LEGALLY DISPOSED OF AT THE CONTRACTORS EXPENSE OR UTILIZED FOR ONSITE LANDSCAPING OR STREAM RESTORATION MATERIALS.
THE TOPOGRAPHY FROM WHICH THE ABOVE QUANTITIES WERE COMPUTED WAS OBTAINED BY FIELD SURVEY PROVIDED BY NEVADA IRRIGATION DISTRICT.
2. NO CLASSIFICATION OF MATERIAL TO BE EXCAVATED IS MADE WITH THESE PLANS AND SPECIFICATIONS. EXCAVATION SHALL INCLUDE THE REMOVAL AND SUBSEQUENT HANDLING OF ALL EARTH, GRAVEL, ROCK, OR OTHER MATERIAL ENCOUNTERED REGARDLESS OF THE TYPE, CHARACTER, COMPOSITION, OR CONDITION OF THE MATERIAL IN ACCORDANCE WITH THESE NOTES AND APPLICABLE LAWS AND CODES.
3. GRADING – FINISH GRADES AND EXISTING OR NATURAL GRADES ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL DO ALL GRADING, FILLING-IN OR EXCAVATING AS REQUIRED TO COMPLETELY GRADE THE SITE TO LINES AND GRADES SHOWN, AND TO PROVIDE FOR THE INDICATED DRAINAGE, WHERE FINISH GRADE CORRESPONDS PRACTICALLY WITH EXISTING GRADE, THE GROUND SHALL BE WORKED UP AND GRADED OFF EVENLY WITH EXISTING GRADE. THE TOP SOIL SHALL BE STRIPPED AND STOCKPILED FOR TOP LAYERS OF FILL. THE GRADING OPERATION SHALL GENERALLY CONSIST OF MOVING AND TRANSPORTING MATERIALS WITHIN THE AREA; HOWEVER, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FILL MATERIAL IF NECESSARY TO COMPLETE THE SITE GRADING TO THE ELEVATIONS SHOWN, OR TO OFFHAUL ANY EXCESS MATERIAL WHICH MAY RESULT.
4. THE TOPOGRAPHY FROM WHICH THE ABOVE QUANTITIES WERE COMPUTED WAS OBTAINED FROM FROM A FIELD TOPOGRAPHIC SURVEY, RESULTING IN A 1' CONTOUR INTERVAL MAP THAT IS BEING UTILIZED FOR DESIGN PURPOSES.
5. THE CONTRACTOR IS ADVSED TO MAKE AN INDEPENDENT EVALUATION OF THE EARTHWORK QUANTITIES INVOLVED. THE OWNER AND SCO PLANNING AND ENGINEERING, INC. DO NOT, EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL EARTHWORK QUANTITIES WILL CORRESPOND TO THOSE GIVEN ABOVE. EARTHWORK QUANTITIES MAY FLUCTUATE DEPENDING UPON SIZE AND AMOUNT OF ROCK ENCOUNTERED. ANY EXCESS OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE OWNER'S PROPERTY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
6. ALL CLEARING AND GRUBBING, OVER-EXCAVATION, REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL, PREPARATION OF GRADE OR SUBGRADE, PLACEMENT OF FILL OR BACKFILL, SURFACE AND SUBSURFACE WATER DRAINAGE, TRENCHING AND EXCAVATIONS, AND CONSTRUCTION MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHICAL ENGINEERING REPORT FOR THIS PROJECT.
7. CONTRACTOR WILL BE REQUIRED TO PASS ALL COMPACTION TESTING AND OTHER REQUIREMENTS FROM THE GEOTECHNICAL REPORT.



CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION

DESIGNED: JTB

DRAWN: JTB

PROJECT NO: 202506

DATE: NOVEMBER, 2025

DWG: SEE DAY STAMP

NO. REVISIONS

DATE

1ST PLAN CHECK

07/10/2026

NO. REVISIONS

DATE

1ST PLAN CHECK

07/10/2026

A.D.A. IMPROVEMENTS FOR

148, 152 WHITCOMB AVE

NOTES

CALIFORNIA

COLFAX

GRASS VALLEY

(530) 272-5841

TRUCKEE

(530) 582-4043

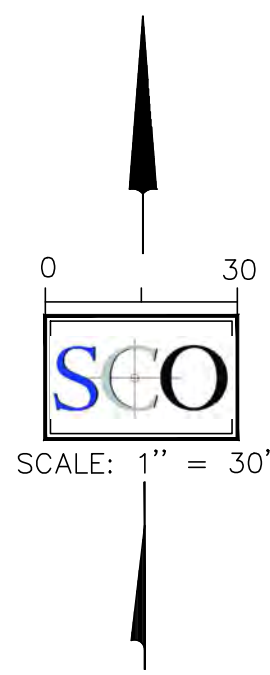
REGISTERED PROFESSIONAL ENGINEER

JASON T. BARNUM

0711012026

Exp. 07/10/2026

C1.1



100-230-061
PARCELS B&D & PTN PARCEL C 19PM71
PCDOC 2022-74242

100-230-008
PARCEL A 19PM71
PCDOC 2022R0077963

100-160-006
PCDOC2014R0066278

NID
100-230-054
PARCELS H & I & PTN PARCEL G 19PM71
PCDOC 2022-91545

100-230-053
PTN PARCEL G
19PM71
PCDOC 2017-23845

LOT 63 MINK CREEK MOBIL HOME SUBD PH 2 M

LEGEND

	PROPERTY LINE
	EASEMENT LINE (AS DESCRIBED)
	SETBACK LINE (AS DESCRIBED)
	MAJOR CONTOUR LINE (5' INTERVAL)
	MINOR CONTOUR LINE (1' INTERVAL)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN MANHOLE & INLET
	EXISTING SEWER LINE (8" PVC SDR35)
	EXISTING SEWER MANHOLE & CLEANOUT
	EXISTING FENCE
	EXISTING WATER PIPE
	PROPERTY CORNER MONUMENT (AS DESCRIBED)
	PROPERTY CORNER NOT FOUND
	EXISTING LIGHT POLE
	EXISTING ASPHALT PAVEMENT
	EXISTING ASPHALT/ HARDSCAPE TO BE REMOVED

UTILITY NOTE

1. SURFACE UTILITY FEATURES AS WELL AS SIZE, TYPE, AND LOCATION OF UNDERGROUND UTILITIES SHOWN ARE PER FIELD SURVEY, "AS BUILT", AND VARIOUS SOURCES. ACTUAL LOCATION MAY VARY. CONTRACTOR TO POTHOLE AND VERIFY PRIOR TO CONSTRUCTION.

DEMOLITION NOTES:

- D1 SAWCUT AND REMOVE EXISTING PAVEMENT PER DETAIL 2, SHEET C5.0.
- D2 INSTALL TREE PROTECTION FENCING WHERE SHOWN. OR WITHIN 10' OF GRADING OPERATIONS SEE DETAIL 8, SHEET C5.0

A.D.A. IMPROVEMENTS FOR
148, 152 WHITCOMB AVE
TOPOGRAPHY & DEMOLITION PLAN

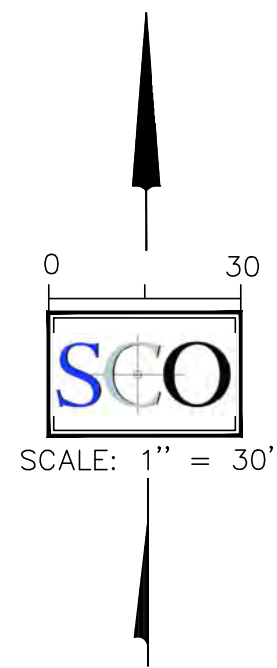
COLFAX



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TRUCKEE
(530) 582-4043



C2.0



100-230-061
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100-230-054
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PCDOC 2022-91545

100-230-053
PTN PARCEL G
19PM71
PCDOC 2017-23845

LOT 63 MINK CREEK MOBIL HOME SUBD PH 2 M

LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE (5' INTERVAL)
	EXISTING MINOR CONTOUR LINE (1' INTERVAL)
	PROPOSED MAJOR CONTOUR LINE (5' INTERVAL)
	PROPOSED MINOR CONTOUR LINE (1' INTERVAL)
	ACCESSIBLE PATH OF TRAVEL
	EXISTING FIRE HYDRANT
	EXISTING DRAINAGE INLET
	EXISTING STORM DRAIN MANHOLE
	EXISTING SEWER MANHOLE
	EXISTING ELECTRIC TRANSFORMER
	EXISTING ELECTRIC VAULT
	EXISTING COMMUNICATION BOX
	EXISTING SIGN
	CONTOUR LABEL (SEE COVER SHEET FOR ABBREVIATIONS)
	(PROPOSED) CONCRETE HARDSCAPE
	(PROPOSED) ASPHALT PAVEMENT
	EXISTING LIGHT POLE
	EXISTING CONCRETE HARDSCAPE
	EXISTING ASPHALT PAVEMENT

DRAINAGE FACILITIES:

D1 REPAIR/REPLACE EXISTING 24" DRAIN INLET WITH TRAFFIC RATED GRATE. OPENINGS SHALL NOT ALLOW THE PASSAGE OF A 1/2 INCH DIAMETER SPHERE. ELONGATED OPENINGS ARE TO ORIENTED PERPENDICULAR TO DOMINAT DIRECTION OF TRAVEL PER CBC 11B-302.3. CONTRACTOR TO COORDINATE AND VERIFY

CUT AND FILL VOLUMES

TOTAL CUT: 17 CY
TOTAL FILL: 81 CY
NET (IMPORT): 64 CY

CONSTRUCTION NOTES:

- C1 CONSTRUCT SECURITY FENCE PER DETAIL 15 SHEET C5.0
C2 ENTRY GATE PER DETAIL 15 SHEET C5.0
C3 CONSTRUCT 12-INCH CURB AT BACK OF WALK PER DETAIL 16 SHEET C5.0
C4 INSTALL PULL BOX AND AC/DC EV CHARGER TERMINAL, SEE ARCH FOR DETAILS.

EV CHARGER NOTE:
EV CHARGING STATIONS ARE NOT AVAILABLE TO THE GENERAL PUBLIC AND ARE PROVIDED EXCLUSIVELY FOR FLEET VEHICLES. EVCS ARE EXEMPT FROM THE ACCESSIBLE EVCS SCOPING REQUIREMENTS OF CBC SECTION 11B-228.3.2 PER EXCEPTION 2.

CONTRACTOR NOTES:

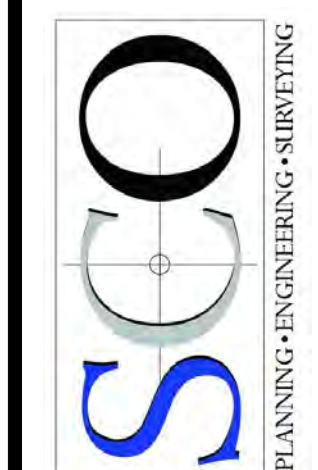
CONTRACTOR TO REFER TO ALL GENERAL, GRADING, DUST CONTROL, AIR EMISSIONS, EARTHWORK AND SAFETY REQUIREMENTS ON SHEET C1.1.

SITE WORK CONTRACTOR (EARTHWORK AND PAVING CONTRACTOR) SHALL REFER TO ALL PLANS AND DOCUMENTS (INCLUDING LANDSCAPE, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND SPECIFICATION SECTIONS) AND SHALL PERFORM ALL EXCAVATION, TRENCHING, SUBGRADE PREPARATION, EMBEDMENT AND BACKFILL AS REQUIRED FOR INSTALLATION OF OTHER WORK.

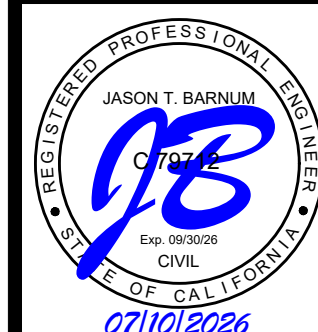
SITE WORK CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR INSTALLATION OF UTILITIES AND STRUCTURES.

A.D.A. IMPROVEMENTS FOR
148, 152 WHITCOMB AVE
OVERALL GRADING DRAINAGE AND SITE PLAN

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TRUCKEE
(530) 582-4043



C3.0

SITE FACILITIES:

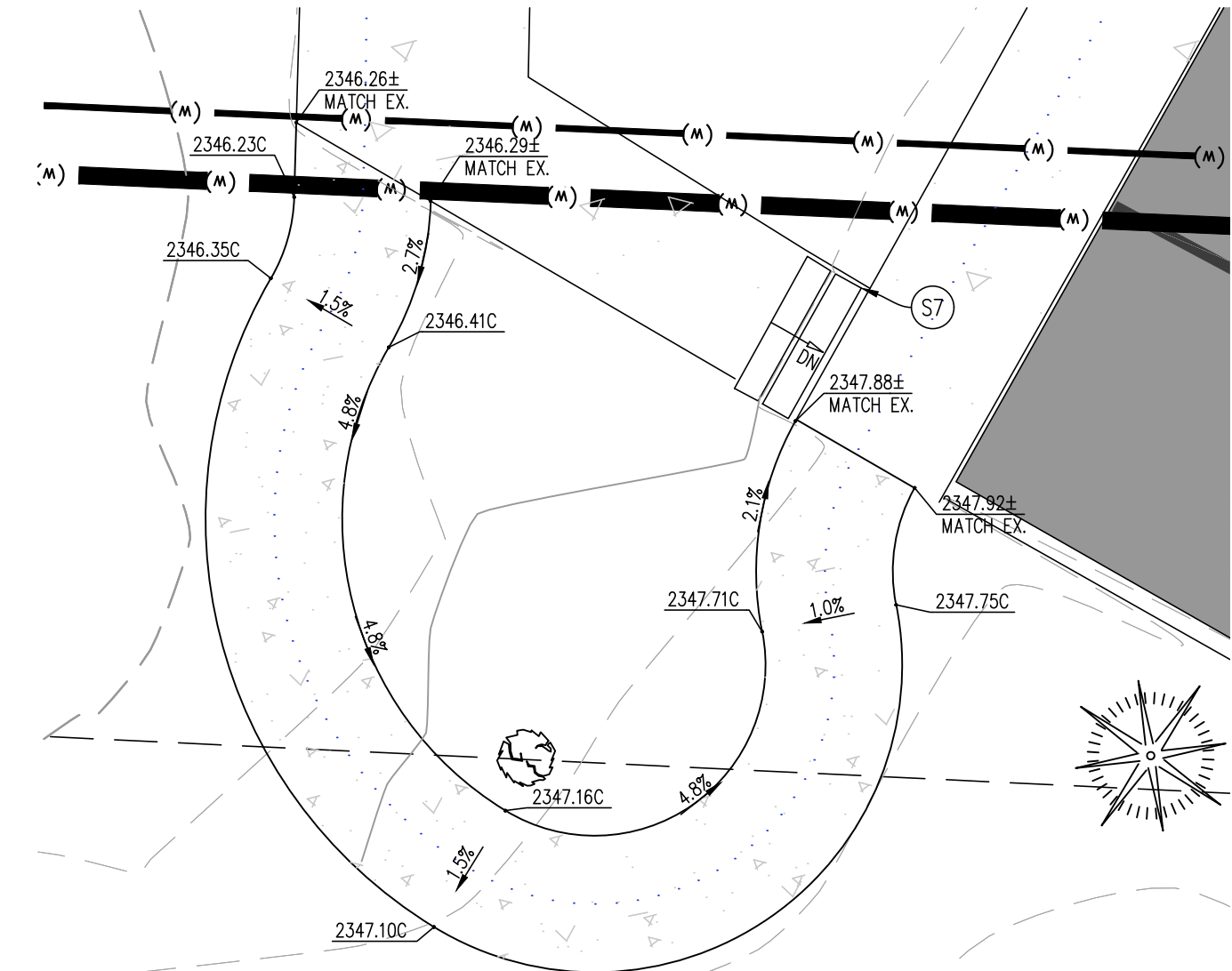
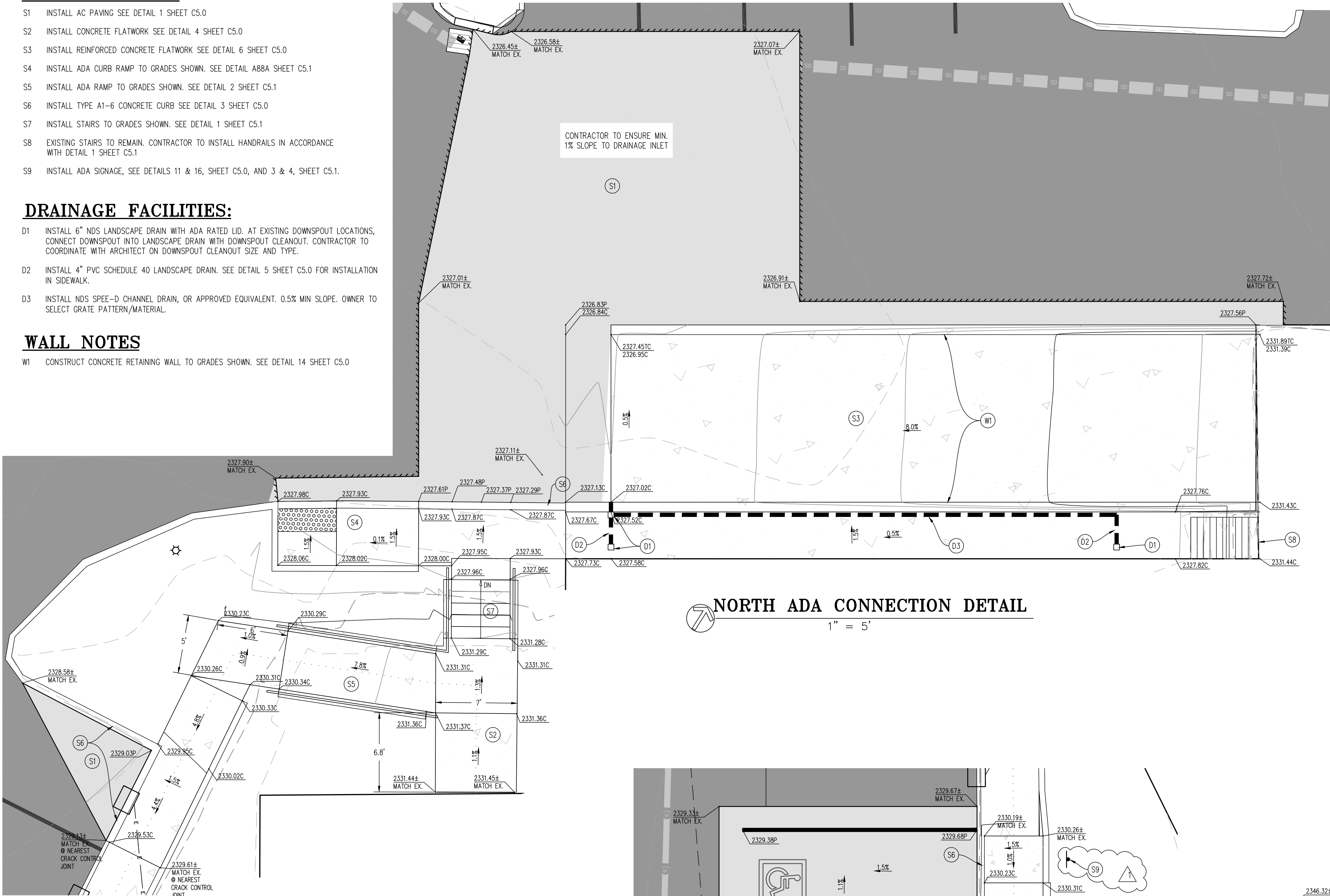
- S1 INSTALL AC PAVING SEE DETAIL 1 SHEET C5.0
- S2 INSTALL CONCRETE FLATWORK SEE DETAIL 4 SHEET C5.0
- S3 INSTALL REINFORCED CONCRETE FLATWORK SEE DETAIL 6 SHEET C5.0
- S4 INSTALL ADA CURB RAMP TO GRADES SHOWN. SEE DETAIL A88A SHEET C5.1
- S5 INSTALL ADA RAMP TO GRADES SHOWN. SEE DETAIL 2 SHEET C5.1
- S6 INSTALL TYPE A1-6 CONCRETE CURB SEE DETAIL 3 SHEET C5.0
- S7 INSTALL STAIRS TO GRADES SHOWN. SEE DETAIL 1 SHEET C5.1
- S8 EXISTING STAIRS TO REMAIN. CONTRACTOR TO INSTALL HANDRAILS IN ACCORDANCE WITH DETAIL 1 SHEET C5.1
- S9 INSTALL ADA SIGNAGE, SEE DETAILS 11 & 16, SHEET C5.0, AND 3 & 4, SHEET C5.1.

DRAINAGE FACILITIES:

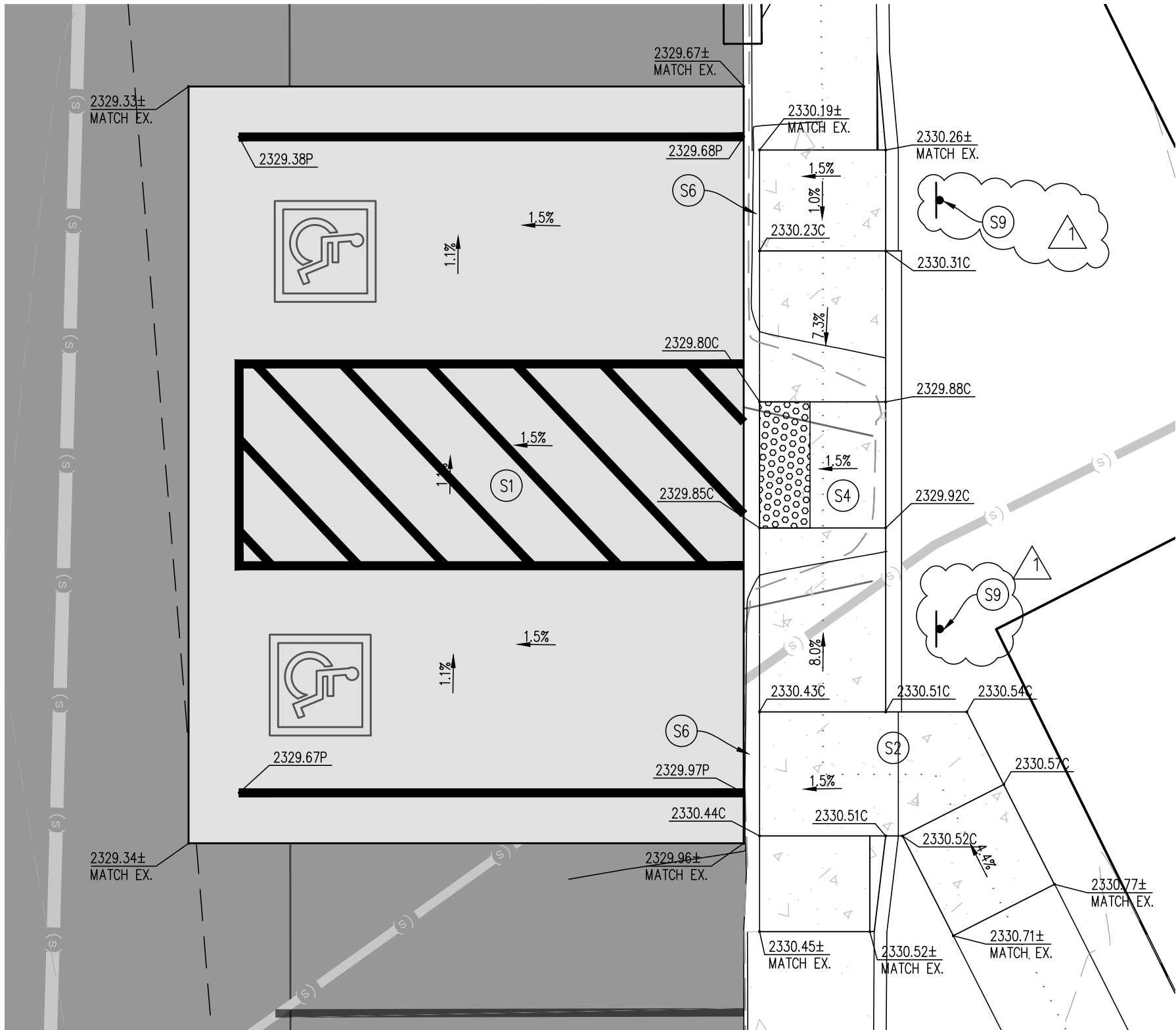
- D1 INSTALL 6" NDS LANDSCAPE DRAIN WITH ADA RATED LID. AT EXISTING DOWNSPOUT LOCATIONS, CONNECT DOWNSPOUT INTO LANDSCAPE DRAIN WITH DOWNSPOUT CLEANOUT. CONTRACTOR TO COORDINATE WITH ARCHITECT ON DOWNSPOUT CLEANOUT SIZE AND TYPE.
- D2 INSTALL 4" PVC SCHEDULE 40 LANDSCAPE DRAIN. SEE DETAIL 5 SHEET C5.0 FOR INSTALLATION IN SIDEWALK.
- D3 INSTALL NDS SPEE-D CHANNEL DRAIN, OR APPROVED EQUIVALENT. 0.5% MIN SLOPE. OWNER TO SELECT GRATE PATTERN/MATERIAL.

WALL NOTES

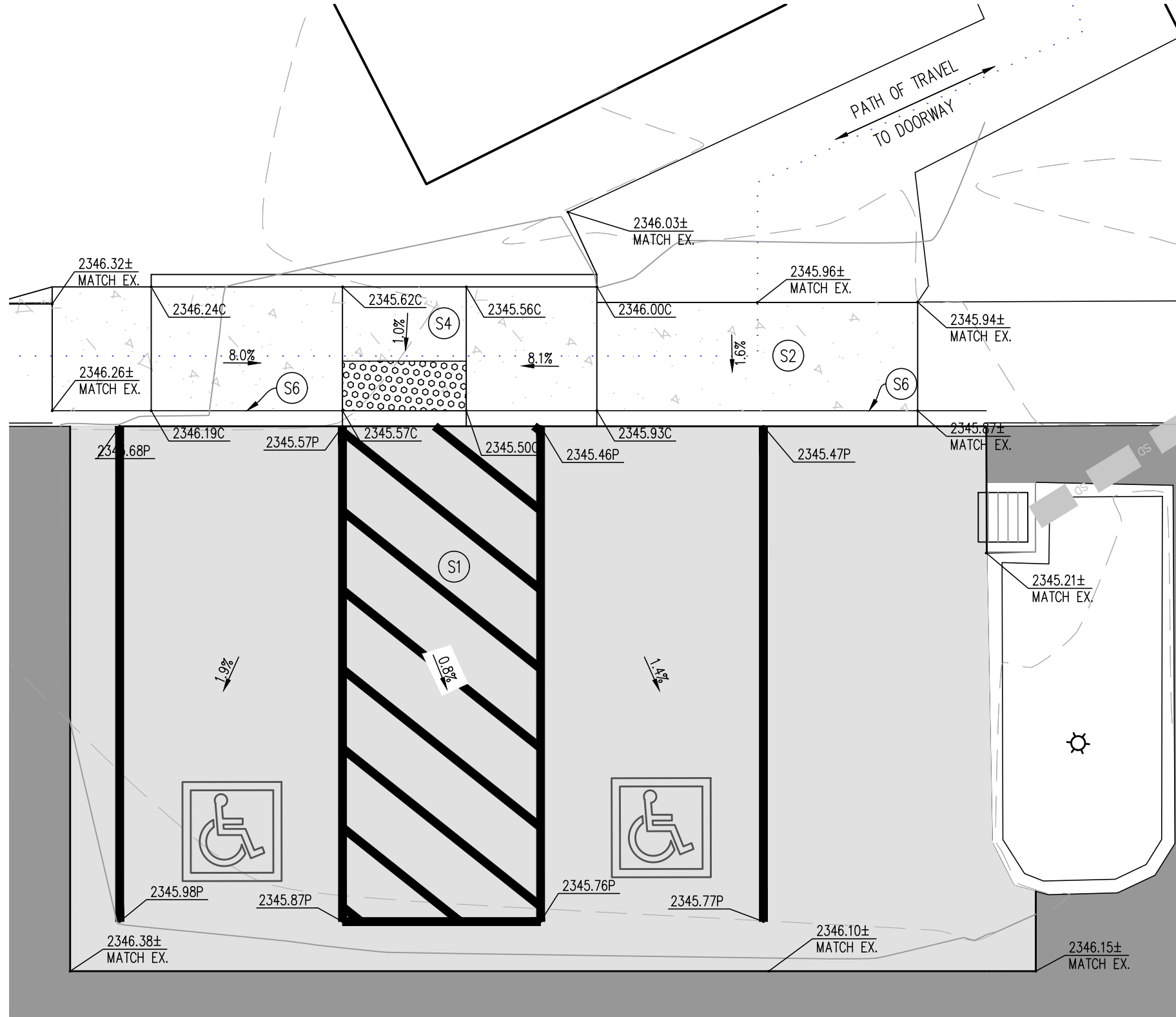
- W1 CONSTRUCT CONCRETE RETAINING WALL TO GRADES SHOWN. SEE DETAIL 14 SHEET C5.0



SOUTH ADA CONNECTION DETAIL



WEST ADA CONNECTION DETAIL



EAST ADA CONNECTION DETAIL

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE (5' INTERVAL)
- EXISTING MINOR CONTOUR LINE (1' INTERVAL)
- PROPOSED MAJOR CONTOUR LINE (5' INTERVAL)
- PROPOSED MINOR CONTOUR LINE (1' INTERVAL)
- ACCESSIBLE PATH OF TRAVEL
- EXISTING FIRE HYDRANT
- EXISTING DRAINAGE INLET
- EXISTING STORM DRAIN MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING ELECTRIC TRANSFORMER
- EXISTING ELECTRIC VAULT
- EXISTING COMMUNICATION BOX
- EXISTING SIGN
- CONTOUR LABEL (SEE COVER SHEET FOR ABBREVIATIONS)
- (PROPOSED) CONCRETE HARDSCAPE
- (PROPOSED) ASPHALT PAVEMENT
- EXISTING LIGHT POLE
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE HARDSCAPE

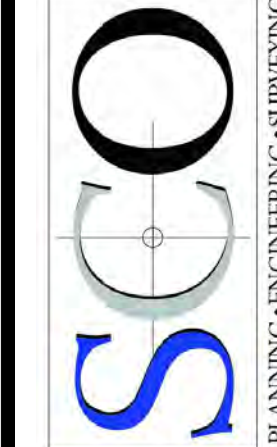
CONTRACTOR NOTES:

CONTRACTOR TO REFER TO ALL GENERAL, GRADING, DUST CONTROL, AIR EMISSIONS, EARTHWORK AND SAFETY REQUIREMENTS ON SHEET C1.1.

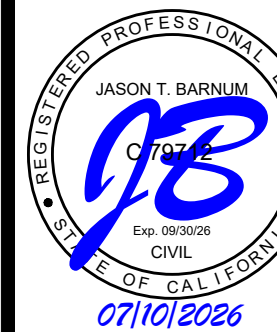
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SITE WORK CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR INSTALLATION OF UTILITIES AND STRUCTURES.

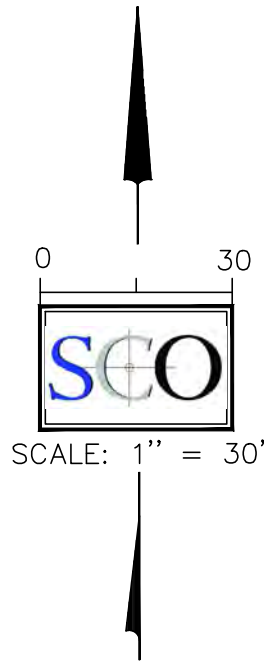
A.D.A. IMPROVEMENTS FOR
148, 152 WHITCOMB AVE
GRADING AND DRAINAGE PLAN



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C3.1



100-230-061
PARCELS B&D & PTN PARCEL C 19PM71
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100-230-008
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PCDOC 2022-91545

100-230-053
PTN PARCEL G
19PM71
PCDOC 2017-23845

LOT 63 MINK CREEK MOBIL HOME SUBD PH 2 M

LEGEND:

- PROPERTY LINE
- SE-1-SILT FENC
- SE-4 CHECK DAMS
- SE-5-FIBER ROLLS
- SE-6 GRAVEL BAG BERM
- SE-10-STORM DRAIN INLET PROTECTION
- EC-2 CONSTRUCTION FENCE
- EC-9-DRAINAGE SWALES/EARTH DIKE
- EC-10 OUTLET PROTECTION/VELOCITY DISSIPATION DEVICE
- NS-8-VEHICLE & EQUIPMENT CLEANING
- NS-9-VEHICLE & EQUIPMENT FUELING
- NS-10-VEHICLE & EQUIPMENT MAINTENANCE
- STORMWATER DISCHARGE LOCATION
- FLOW LINE
- SURFACE FLOW DIRECTION
- DRAIN INLET
- STORM DRAIN PIPE
- BEST MANAGEMENT PRACTICES
- CALIFORNIA STORM WATER QUALITY ASSOCIATION
- CONSTRUCTION STAGING AREA
- WM-8 CONCRETE WASH-OUT AREA

CONSTRUCTION NOTES:

- LOCATION OF CONCRETE CLEANOUT AREA SHALL BE LOCATED BY THE CONTRACTOR SUBJECT TO BMP REQUIREMENTS OR SHALL BE CONDUCTED OFFSITE AT THE CONCRETE PLANT. SEE BMP WM-8 FOR ADDITIONAL INFORMATION IN THE CALIFORNIA STORM WATER QUALITY ASSOCIATION (CASQA) .
- INSTALL STORM DRAIN INLET PROTECTION. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE REVEGETATED. SEE BMP SE-10 IN THE CALIFORNIA STORM WATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP HANDBOOK FOR ADDITIONAL INFORMATION.
- LOCATION OF COMBINED VEHICLE CLEANING, FUELING AND MAINTENANCE STORAGE AREA SHALL BE LOCATED PER THE CONTRACTOR SUBJECT TO BMP REQUIREMENTS. SEE BMPs NS-8, NS-9, AND NS-10 IN THE THE CALIFORNIA STORM WATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP HANDBOOK FOR ADDITIONAL INFORMATION.
- LOCATION OF CONSTRUCTION STAGING AREA. CONTRACTOR MAY RELOCATE STAGING AREA AS NEEDED. STAGING AREA PERIMETER SHALL BE FENCED AND FIBER ROLLS AND SHALL BE PLACED AT PERIMETER
- INSTALL CONSTRUCTION FENCING (DETAIL 8/C5.0) SEE BMP EC-2 FOR ADDITIONAL INFORMATION.

STORM WATER POLLUTION NOTES:

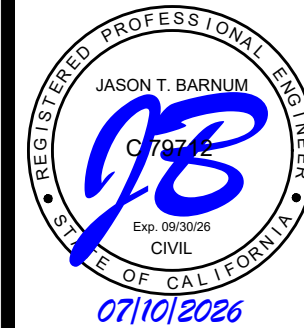
- THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
- THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE CASQA STANDARDS
- FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THE PLAN AS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
- PERMANENT EROSION CONTROL WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE.
- ALL DRAINAGE INLETS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS WILL BE PROTECTED WITH A SEDIMENT TRAP INLET PROTECTION.
- TEMPORARY EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL FINAL IMPROVEMENTS ARE COMPLETED AND GRADED AREAS ARE REVEGETATED.
- IN THE EVENT OF A CHANGED CONDITION, APPLICANT SHALL NOTIFY BUILDING OFFICIAL OF SUCH CHANGES AND SHALL PROVIDE REVISED PLANS FOR APPROVAL.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE FINAL APPROVED GRADING PLAN.

A.D.A. IMPROVEMENTS FOR
148, 152 WHITCOMB AVE
WATER POLLUTION CONTROL PLAN

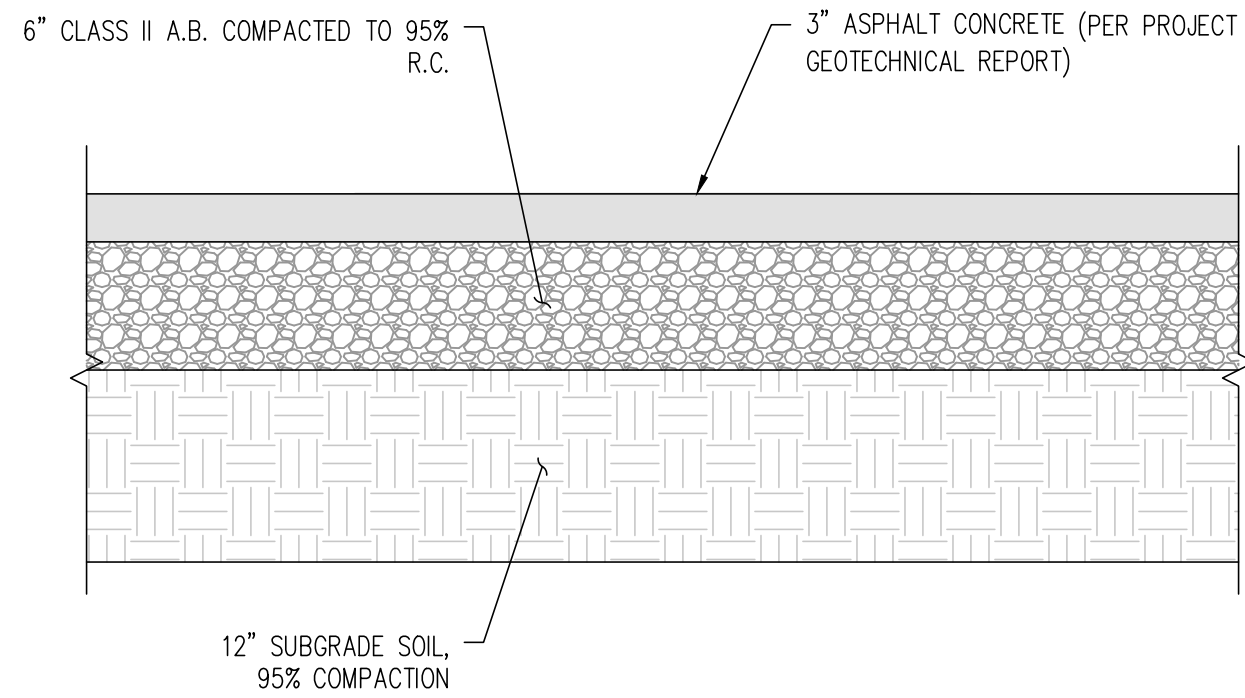
COLFAX



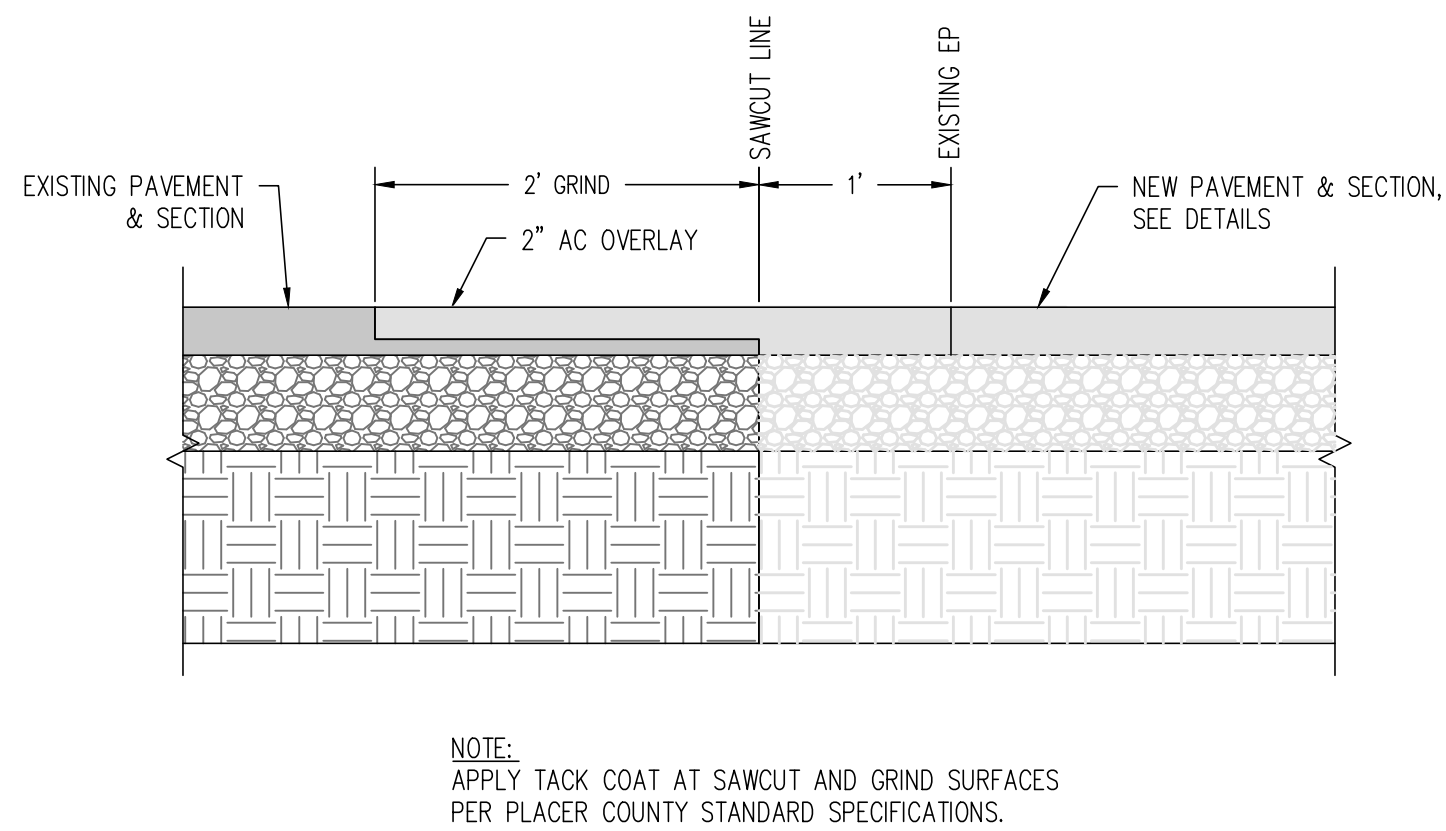
GRASS VALLEY
(530) 272-5841
TRUCKEE
(530) 582-4043



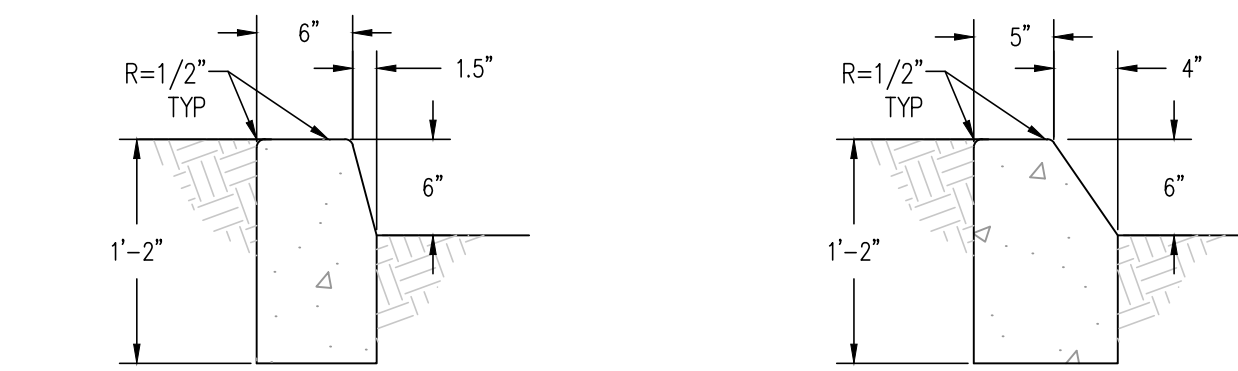
C4.0



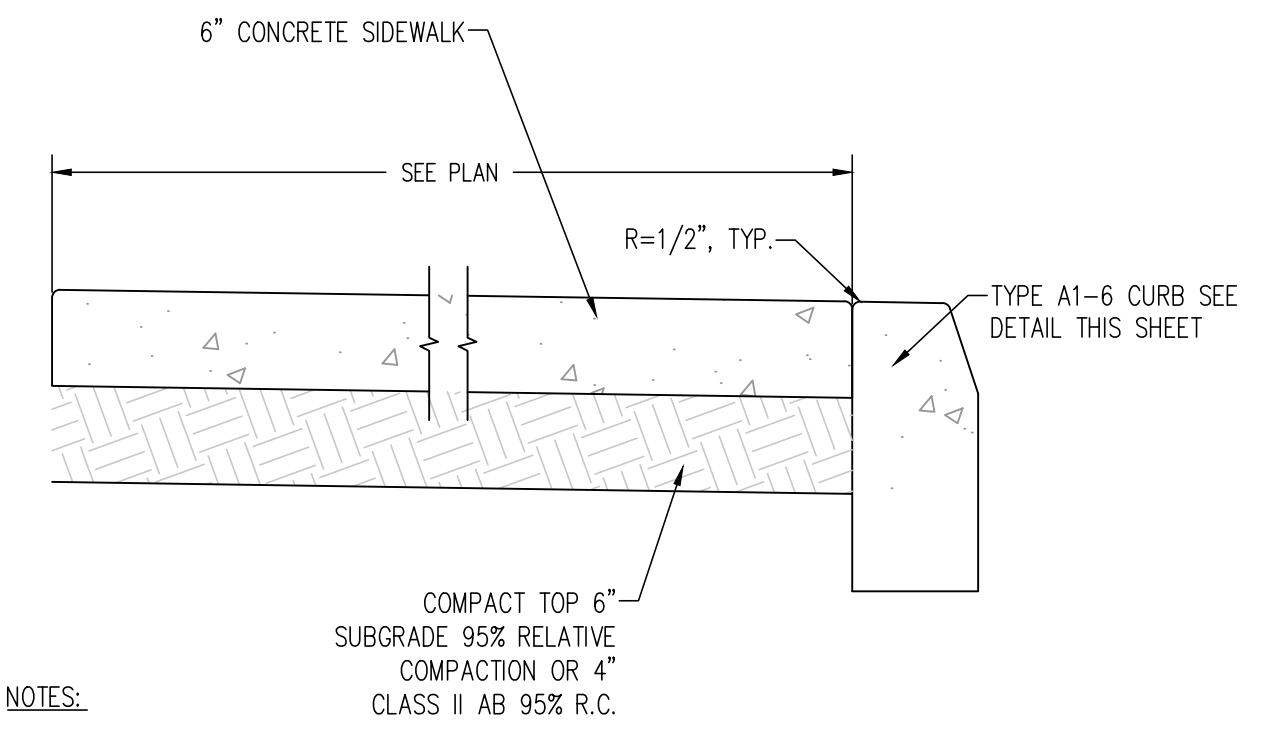
1 **TYPICAL ASPHALT SECTION**
SCALE: 1" = 1'-0"



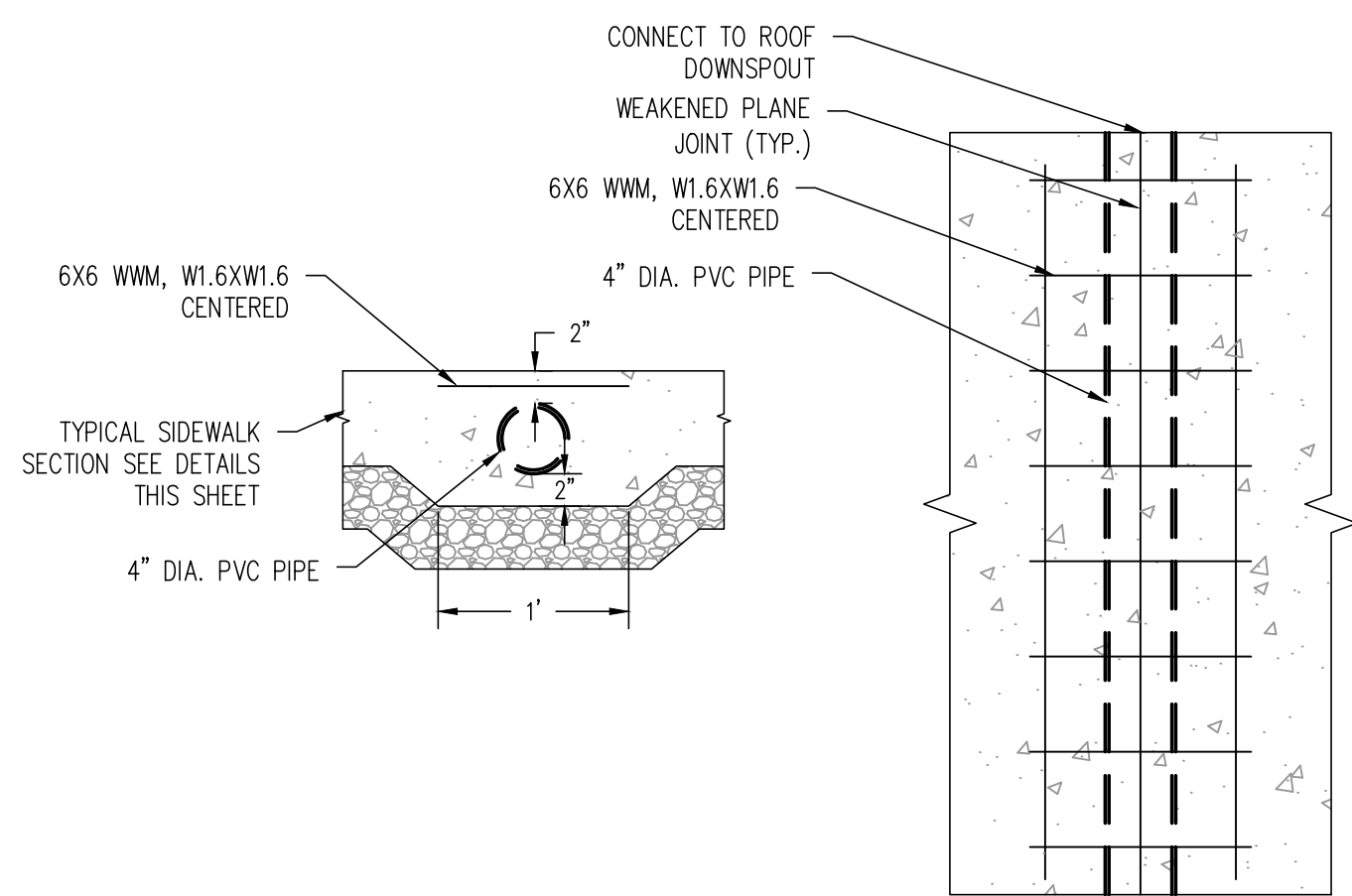
2 **JOIN EXISTING ASPHALT DETAIL**
SCALE: 1" = 1'-0"



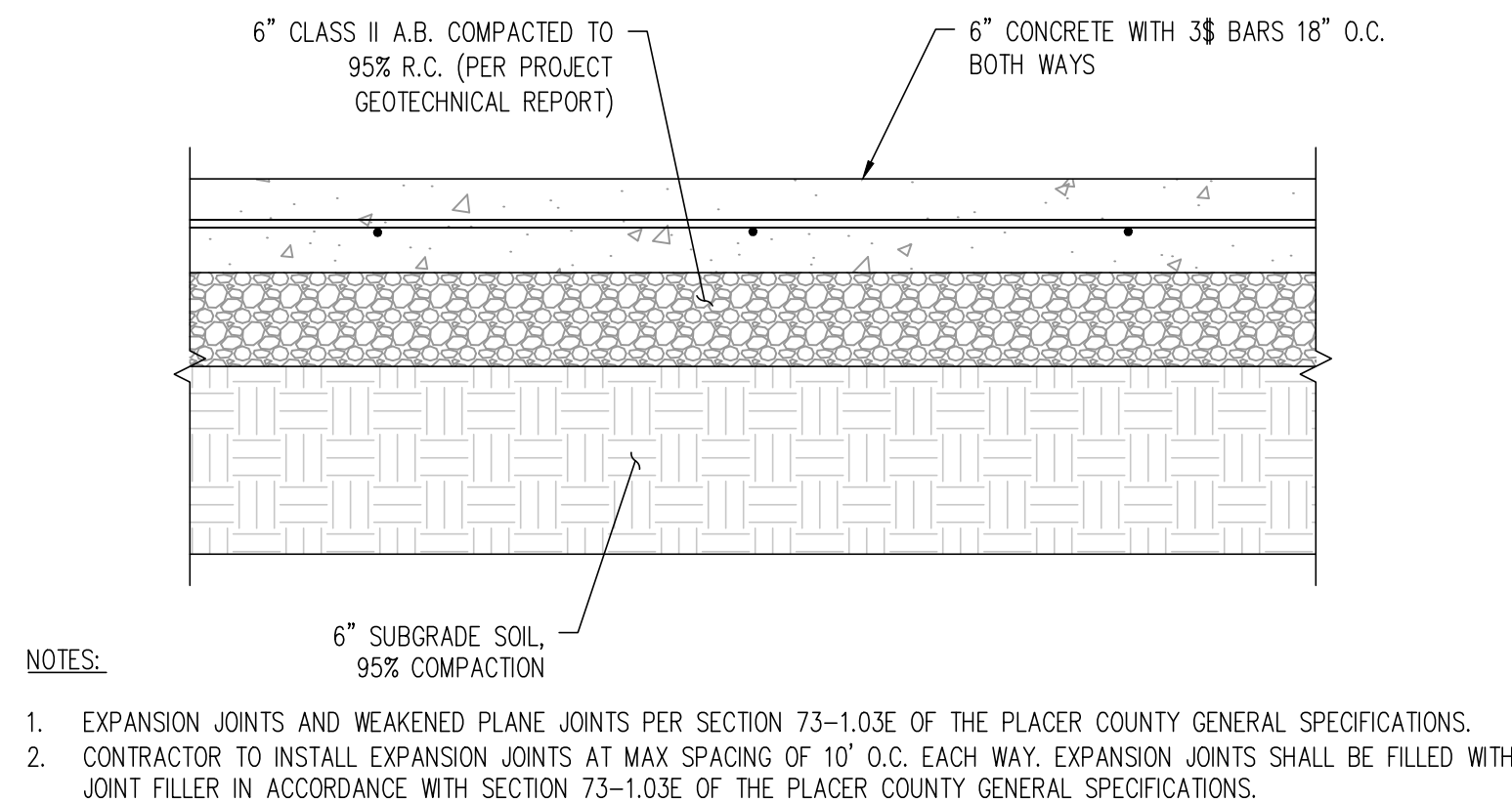
TYPE AI - BARRIER CURB **TYPE BI - BARRIER CURB**



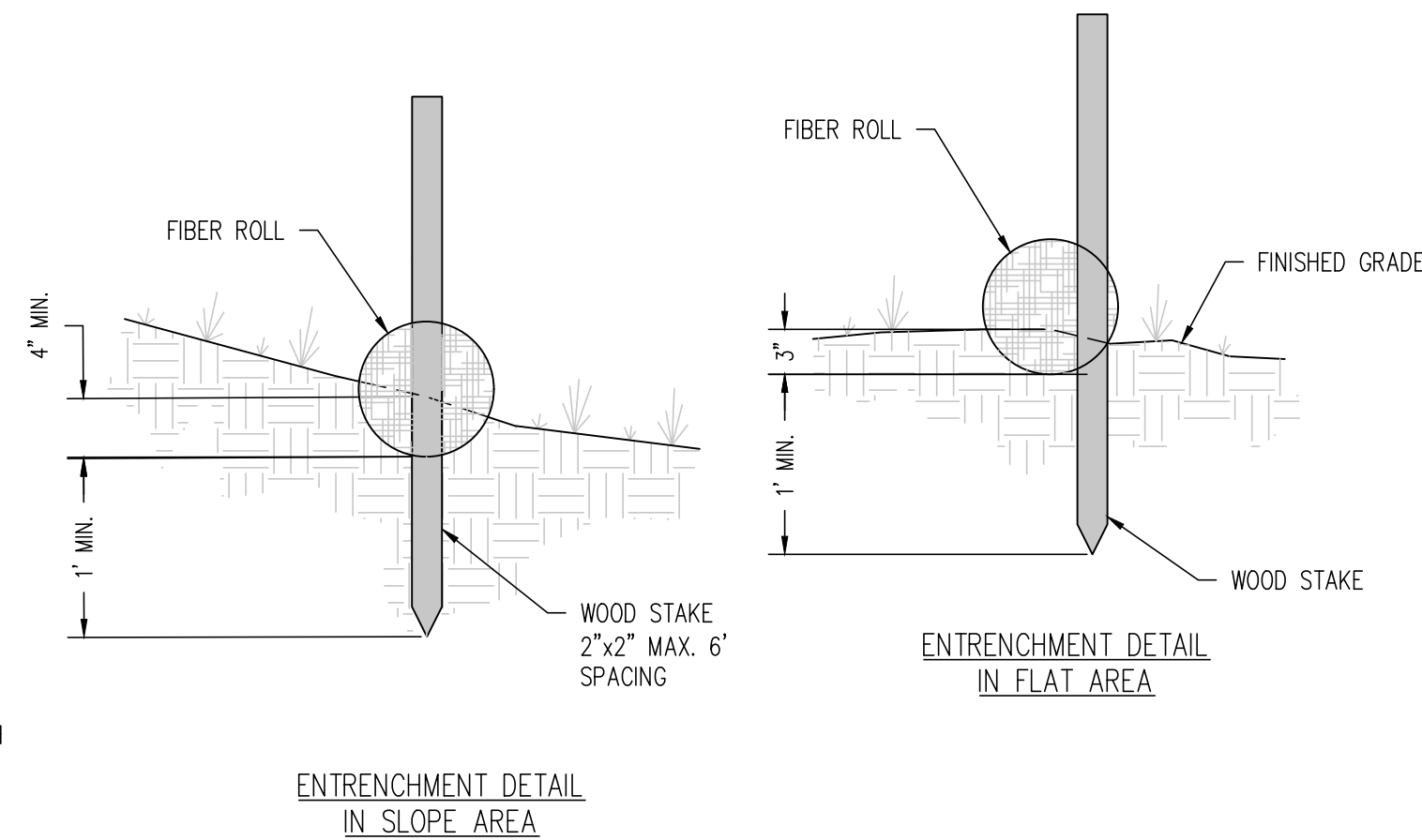
4 **TYPICAL SIDEWALK SECTION**
NTS



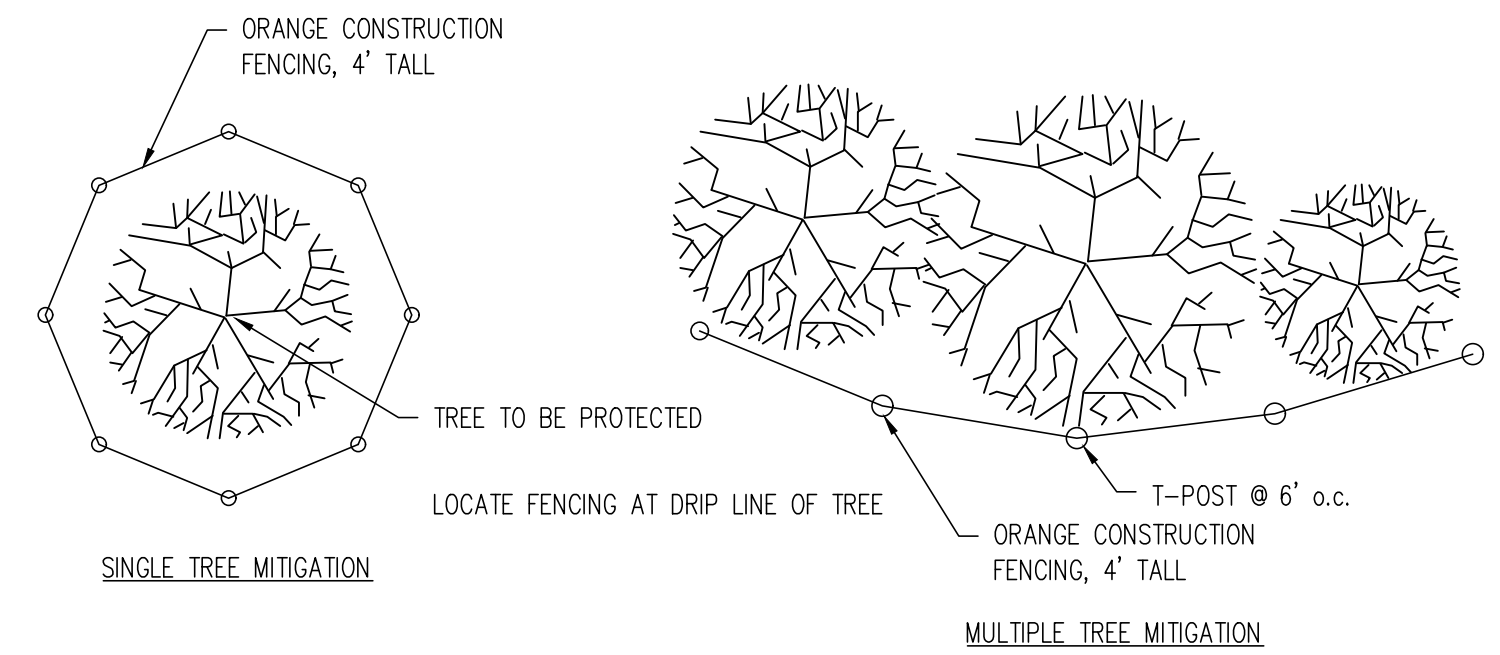
5 **SIDEWALK DRAIN DETAIL**
NTS



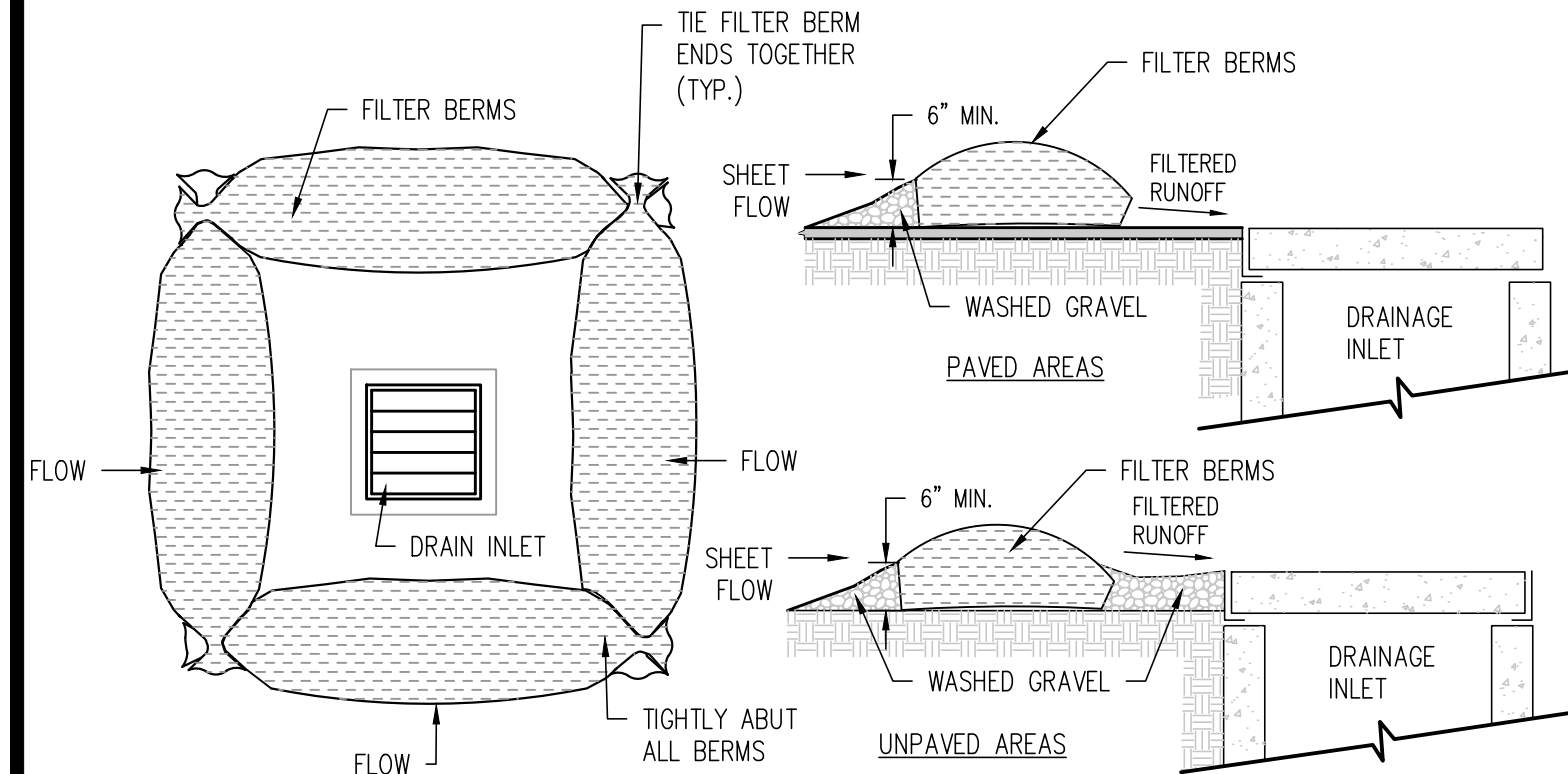
6 **REINFORCED CONCRETE SECTION**
NTS



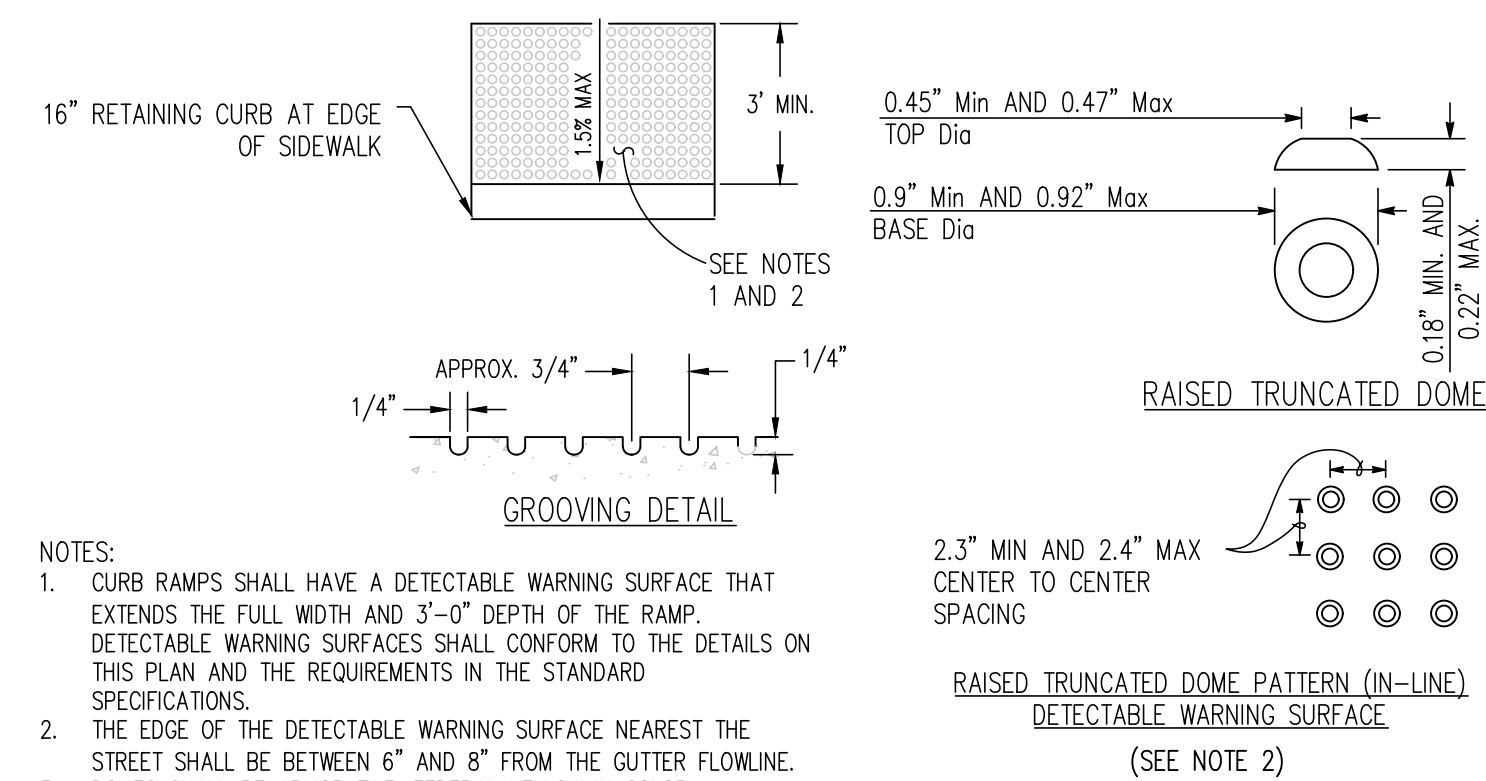
7 **FIBER ROLL DETAIL**
SCALE: 1" = 1'-0"



8 **TREE MITIGATION DETAIL**
NTS



9 **STORM DRAIN INLET PROTECTION DETAIL**
NTS

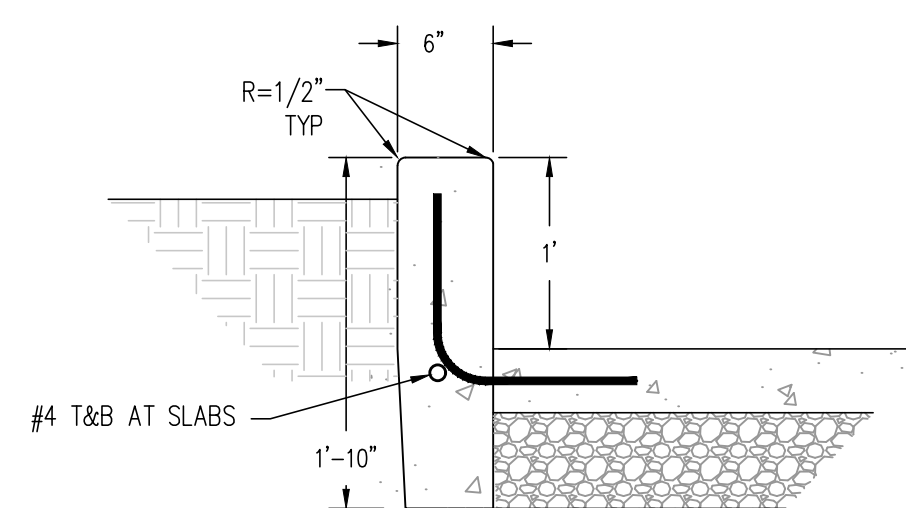


10 **TRUNCATED DOME DETAIL**
NTS

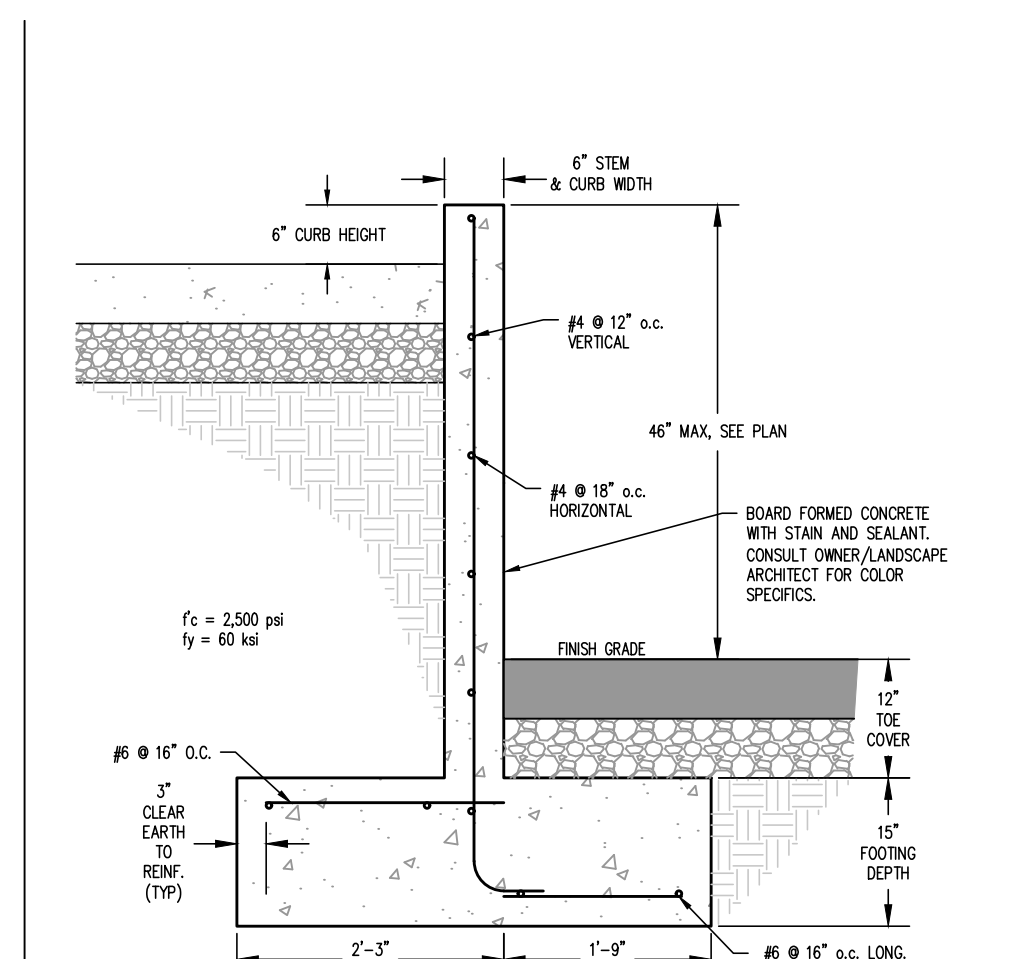


NOTES:
A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY. LETTERS ARE TO BE A MINIMUM OF 1-INCH IN HEIGHT.

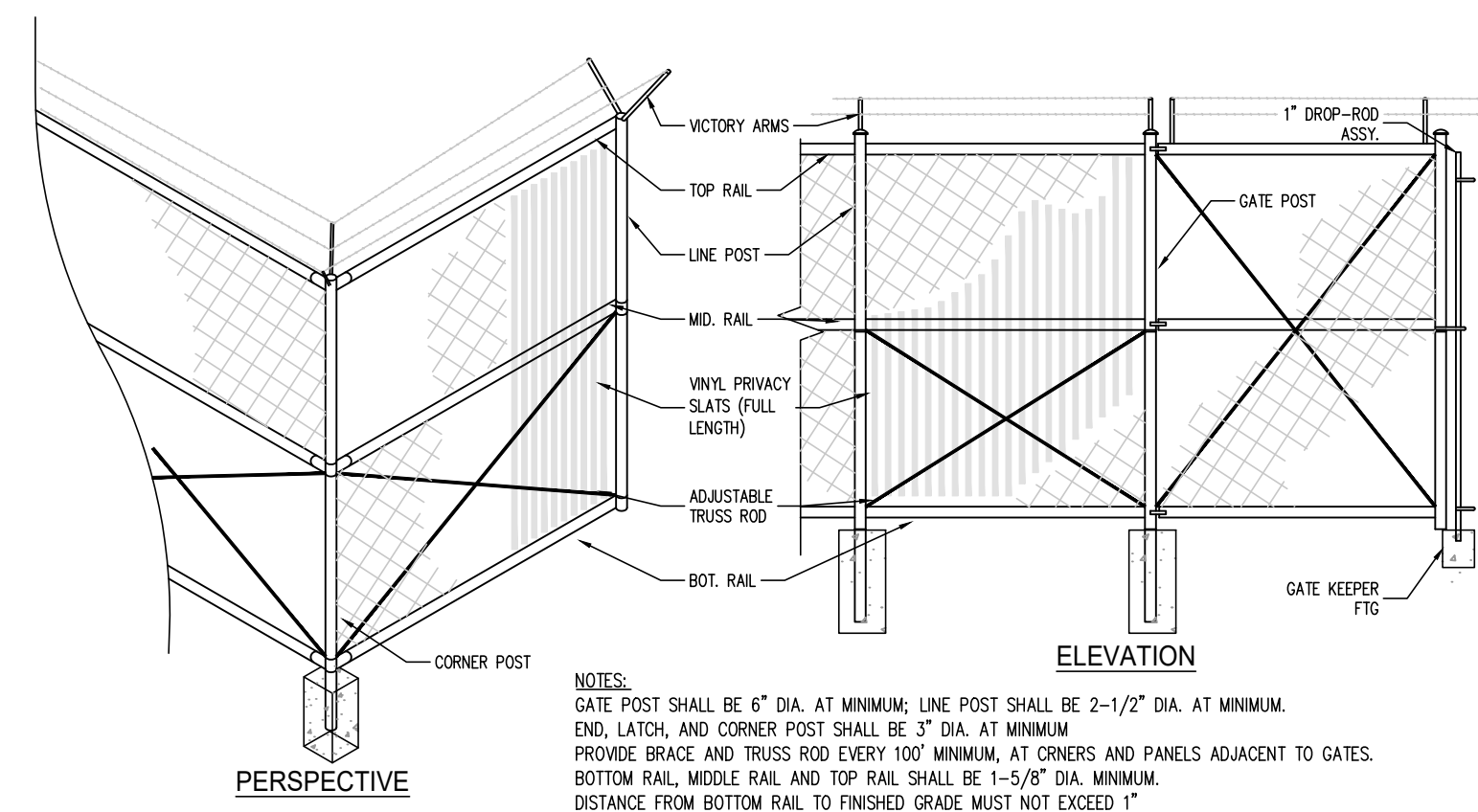
11 **UNAUTHORIZED VEHICLE SIGN**
NTS



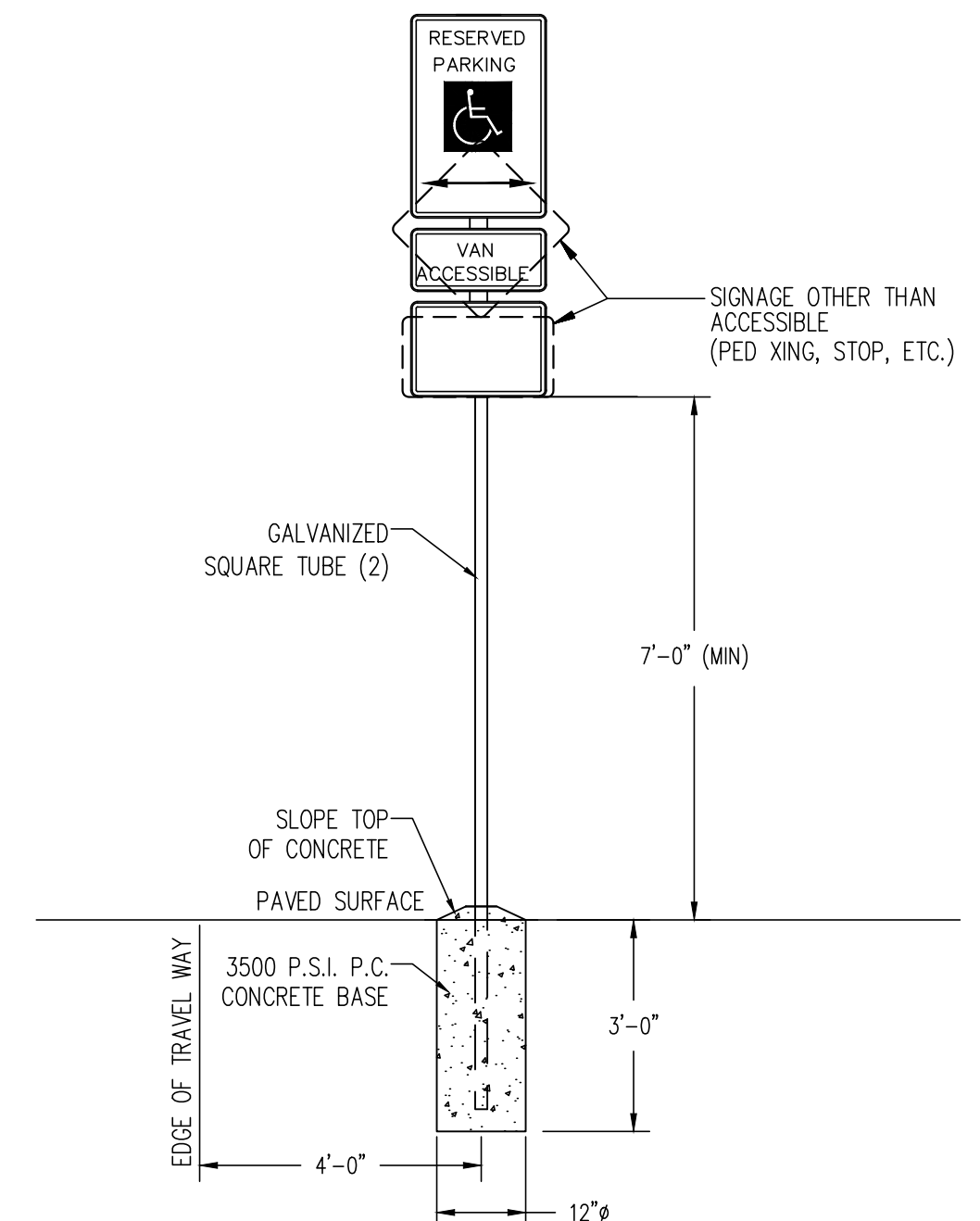
13 **LANDSCAPING CURB**
NTS



14 **CONCRETE RETAINING WALL**
NTS



15 **PRIVACY & SECURITY FENCE**
NTS



NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED, MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE
POST TUBES - 2"x2"x3/16" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

16 **ADA PARKING SIGN DETAIL**
NTS

A.D.A. IMPROVEMENTS FOR
148, 152 WHITCOMB AVE
GENERAL DETAILS

COLFAX



GRASS VALLEY
(530) 272-5841
TRUCKEE
(530) 582-4043

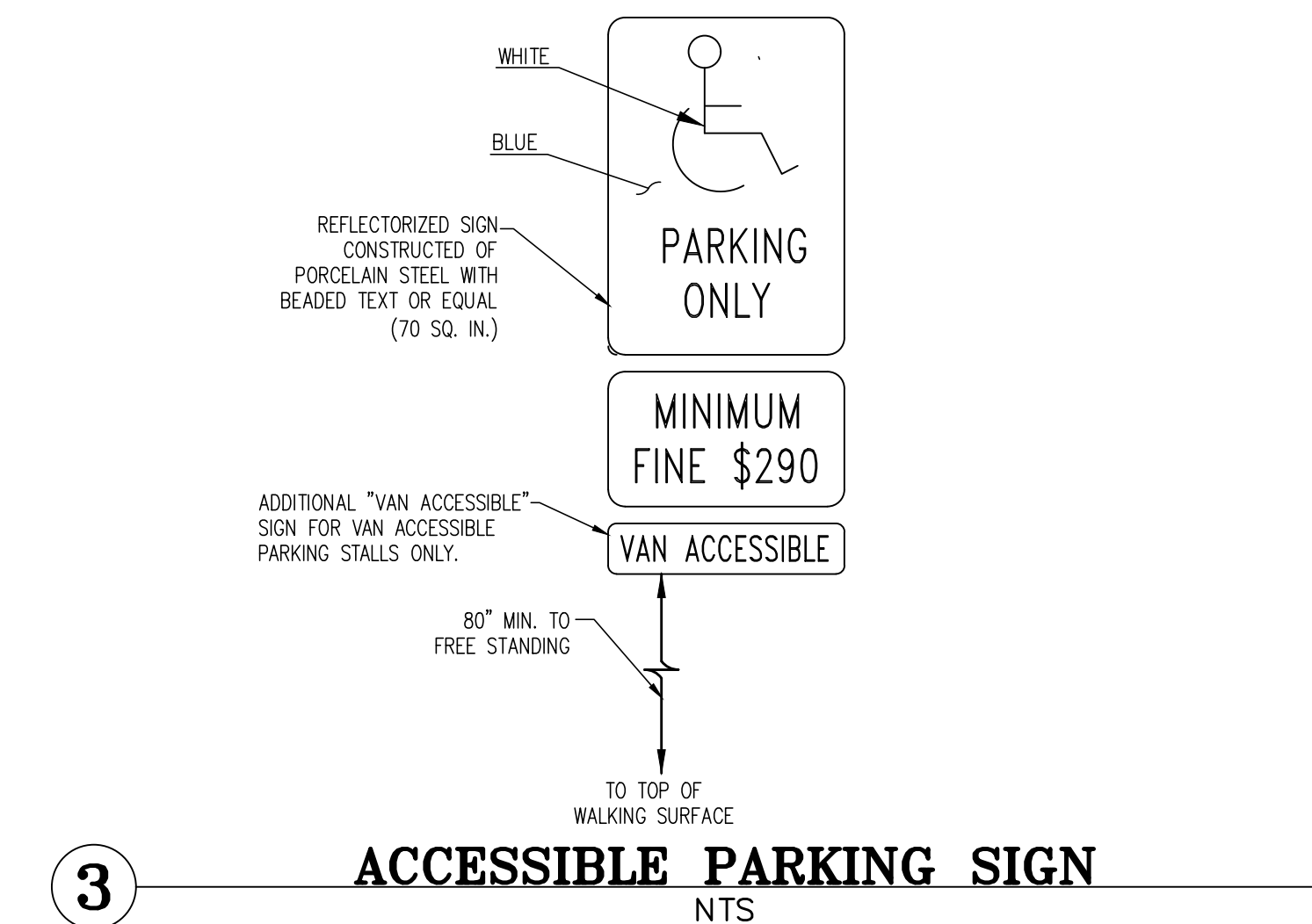
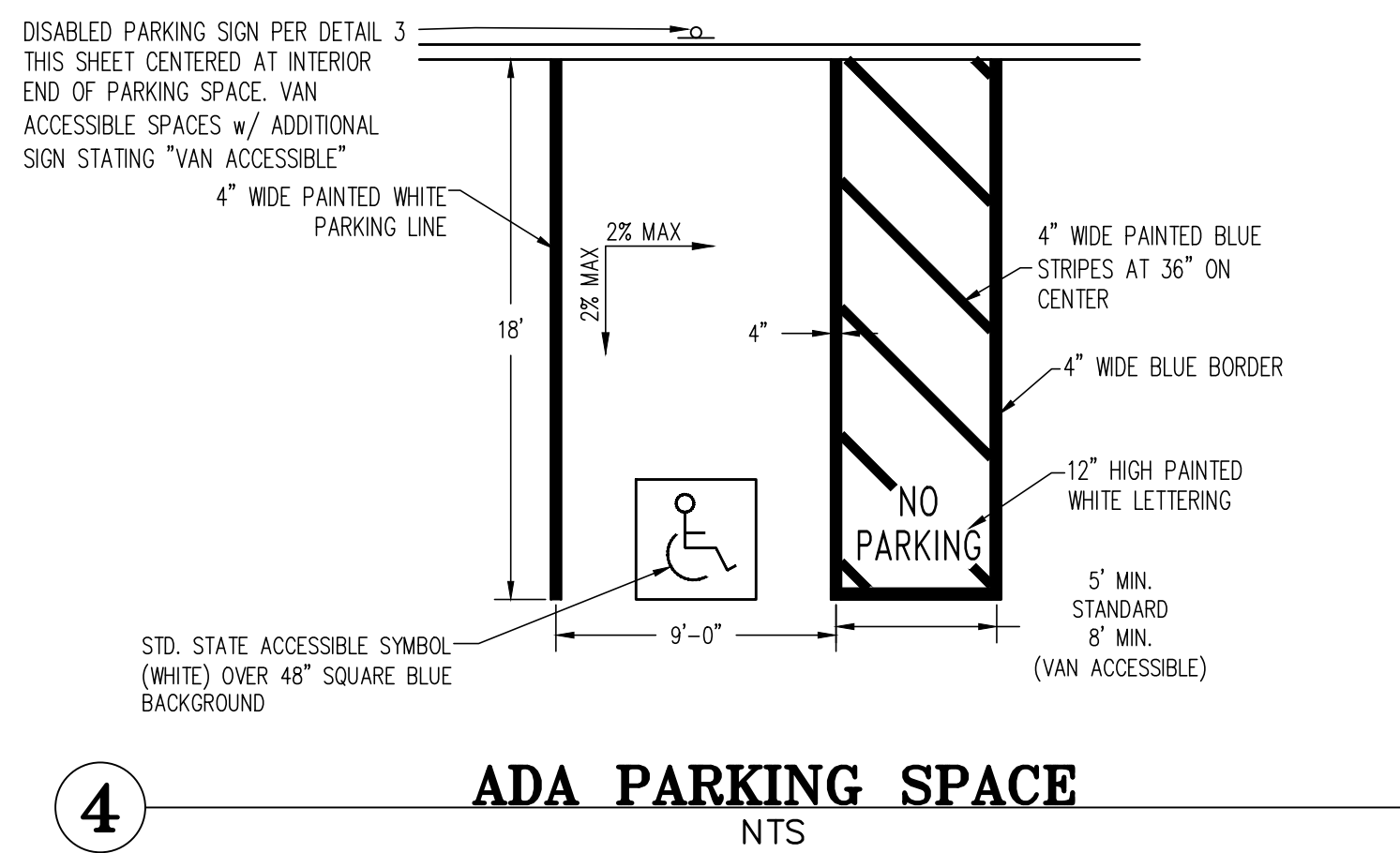
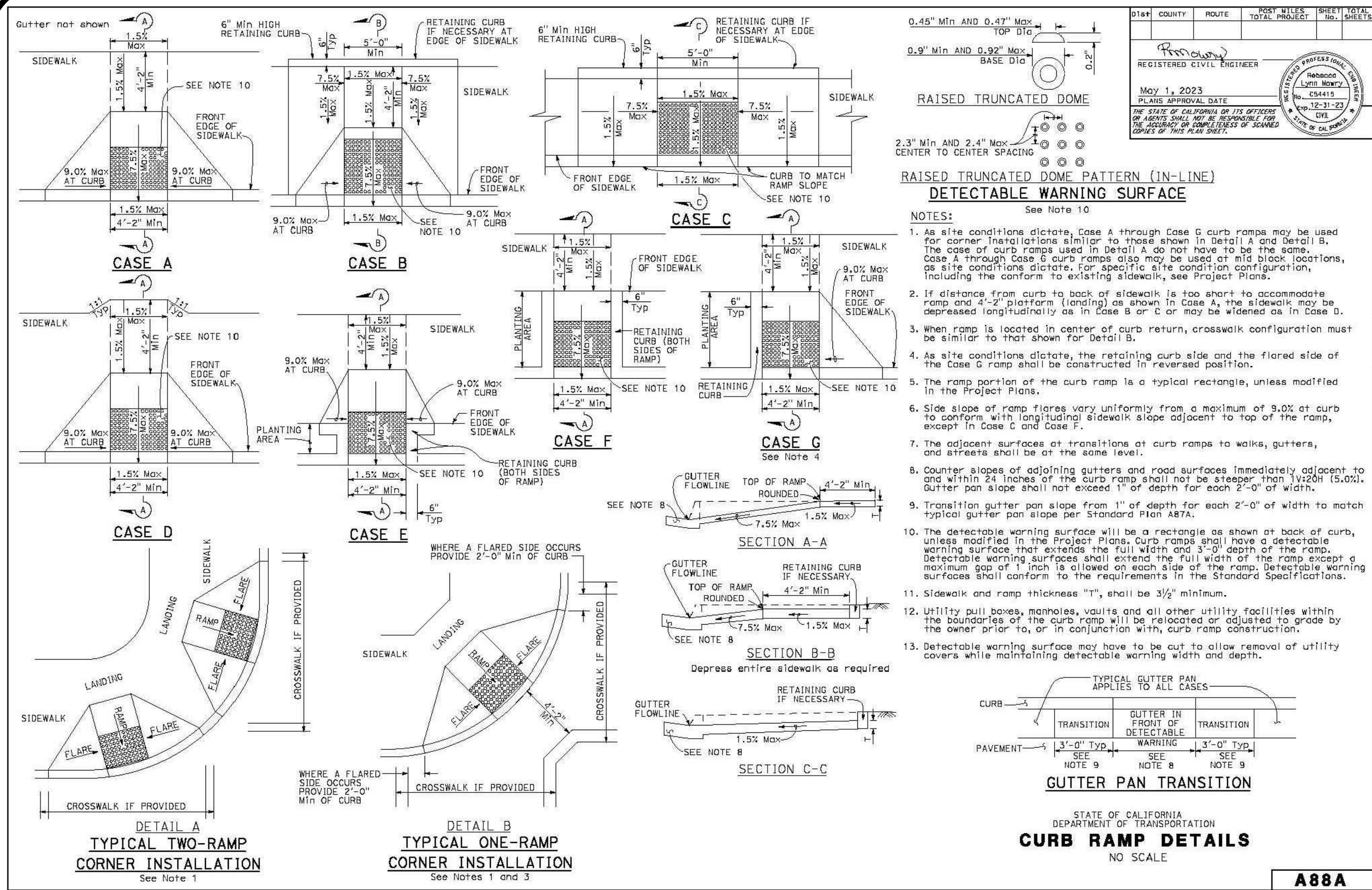


C5.0

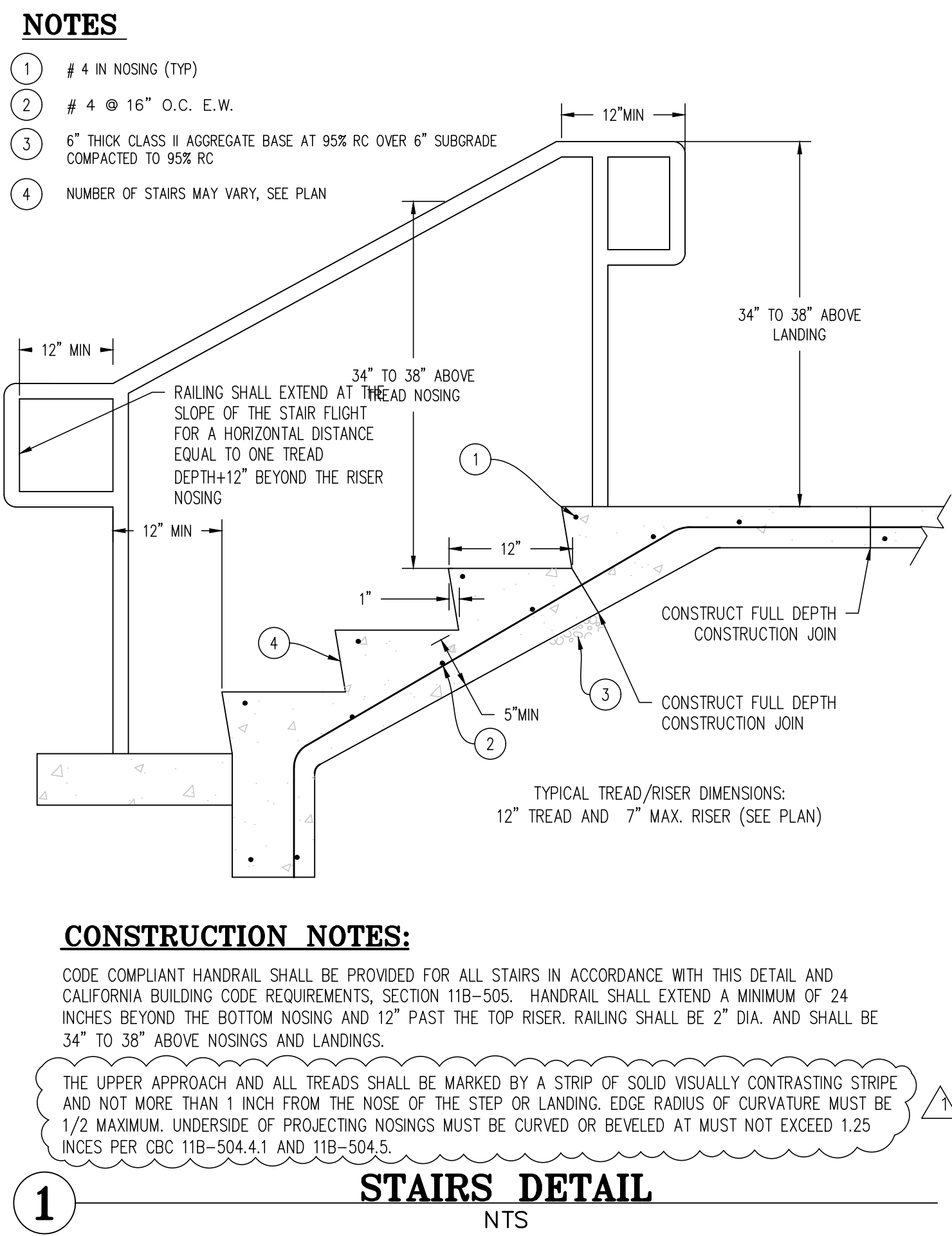
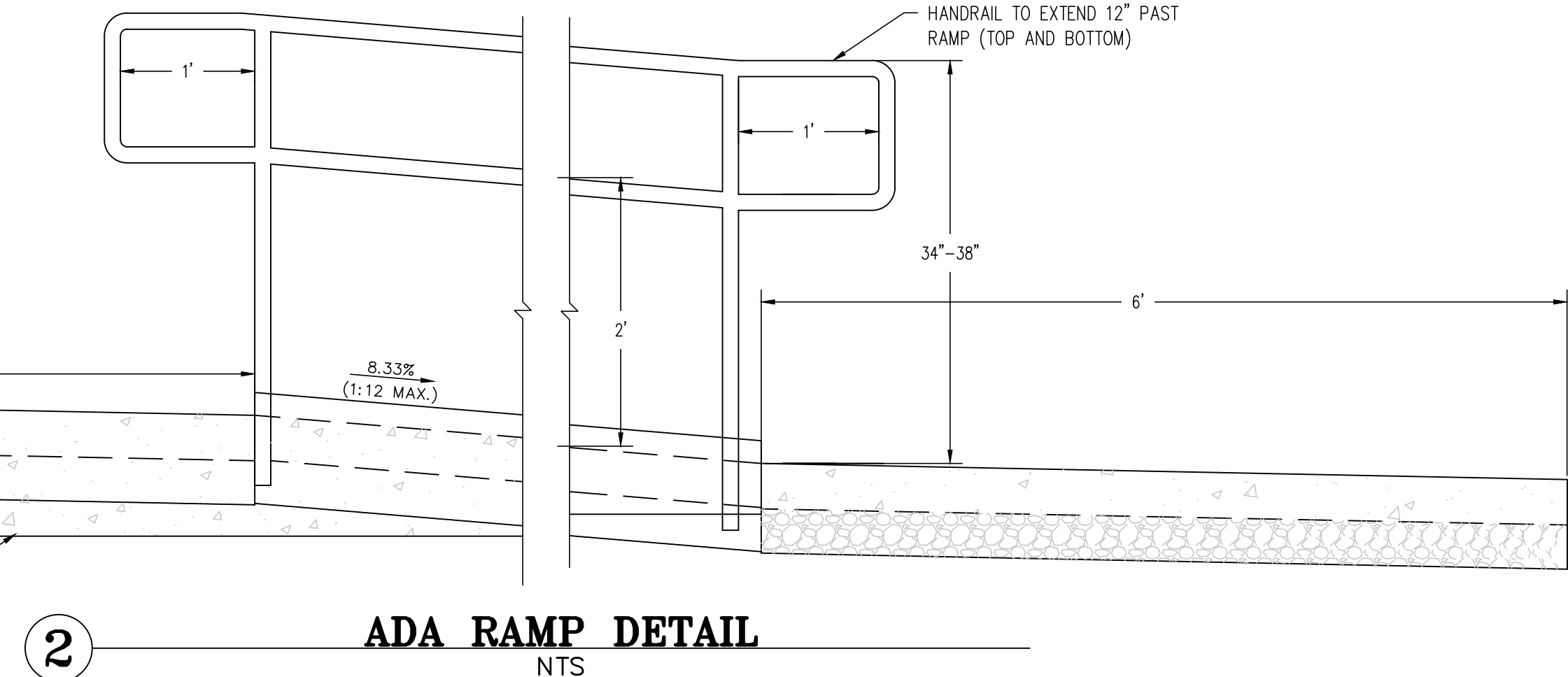
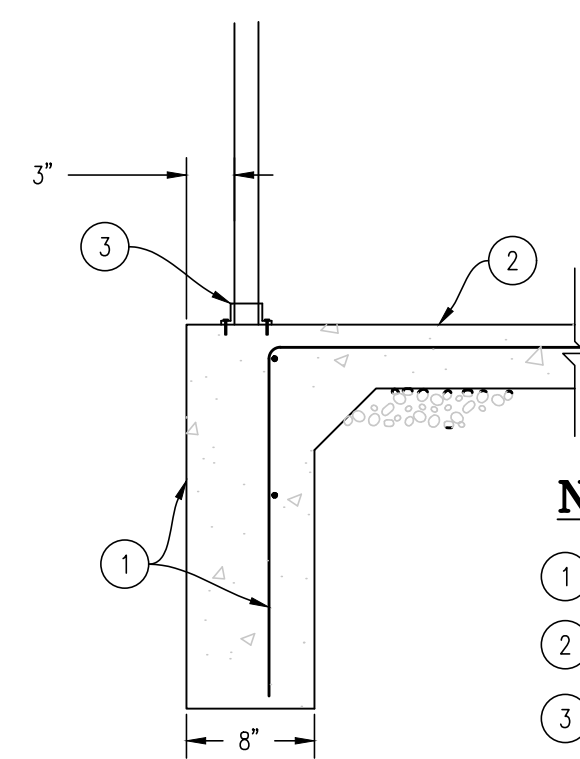
CALIFORNIA

DESIGNED: JTB
DRAWN: JTB
PROJECT NO: 202506
DATE: NOVEMBER, 2025
DWG: SEE DAY STAMP

NO.	REVISIONS	DATE	DESIGNED: JTB
1	1ST PLAN CHECK	07/10/2025	



- NOTES**
- 8" THICK CONCRETE WALL W/ #4 @ 12" O.C. HORIZONTAL & 16" O.C. VERTICAL, TYP.
 - 4" THICK SLAB OVER 6" CLASS II AGGREGATE BASE OVER 6" SUBGRADE COMPACTED TO 95% R.C.
 - BOLTED BASE PLATE PER ARCHITECTURAL RECOMMENDATIONS



- CONSTRUCTION NOTES:**
- CODE COMPLIANT HANDRAIL SHALL BE PROVIDED FOR ALL STAIRS IN ACCORDANCE WITH THIS DETAIL AND CALIFORNIA BUILDING CODE REQUIREMENTS, SECTION 11B-505. HANDRAIL SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE BOTTOM NOSING AND 12" PAST THE TOP RISER. RAILING SHALL BE 2" DIA. AND SHALL BE 34" TO 38" ABOVE NOSINGS AND LANDINGS.
- THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED BY A STRIP OF SOLID VISUALLY CONTRASTING STRIPE AND NOT MORE THAN 1 INCH FROM THE NOSE OF THE STEP OR LANDING. EDGE RADIUS OF CURVATURE MUST BE 1/2" MAXIMUM. UNDERSIDE OF PROJECTING NOSINGS MUST BE CURVED OR BEVELED AT MUST NOT EXCEED 1.25 INCHES PER CBC 11B-504.4.1 AND 11B-504.5.

RUSSELL DAVIDSON

ARCHITECTURE + DESIGN

LICENSED ARCHITECT

RUSSELL DAVIDSON

No. C38895

Ren. 11-30-27

STATE OF CALIFORNIA

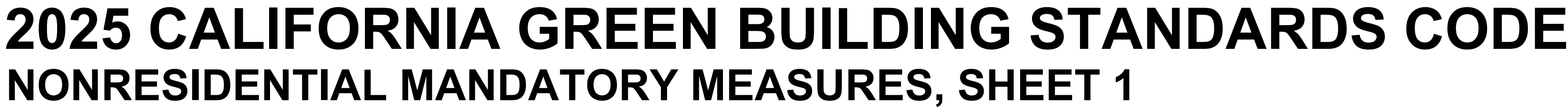
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

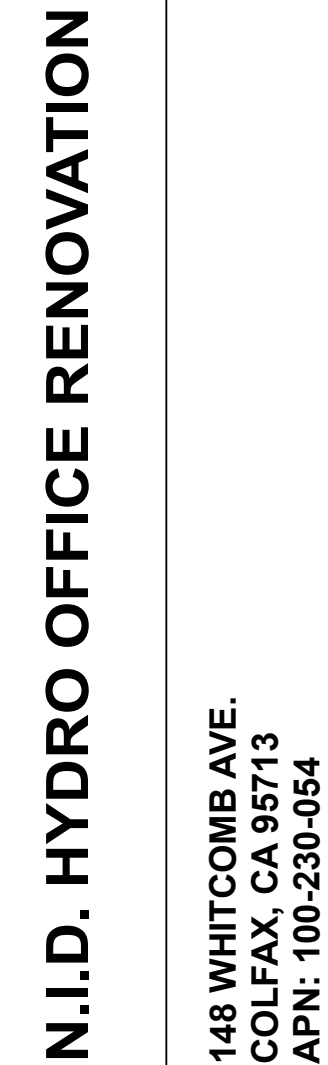
ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:	03/20/2026	
SCALE	AS NOTED	
DRAWN BY:	RPD	
CHECKED BY:	RPD	
JOB:	2025.35	

GENERAL NOTES

G1.0



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



G2.0

2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:		Y	NA	PARTY
a. Dewatering activities.				
b. Material handling and waste management.				
c. Building materials stockpile management	☐	☒		
d. Management of washout areas (concrete, paints, stucco, etc.).				
e. Control of vehicle/equipment fueling to contractor's staging area.				
f. Vehicle and equipment cleaning performed off site.				
g. Spill prevention and control				
h. Other housekeeping BMPs acceptable to the enforcing agency.				
5.106.2.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.				
Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).				
The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.				
Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/construction/stormwater . Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.				
5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2				
5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.				
5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitors, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 20% of the peak daily visitors, with a minimum of one two-bike capacity rack.	☐	☒		
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.				
5.106.4.1.2 Long-term bicycle parking. Acceptable bicycle parking facility for Section 5.106.4.1.2.1, 5.106.4.1.2.2 and 5.106.4.1.2.3 shall be conveniently located near the street and shall meet one of the following:				
1. Covered, lockable enclosures with permanently anchored racks for bicycles;				
2. Lockable bicycle rooms with permanently anchored racks; or				
3. Lockable, permanently anchored bicycle lockers.				
Calculations for bicycle parking requirements shall be rounded up to the nearest whole number.	☐	☒		
5.106.4.1.2.1				
For new buildings with tenant spaces, provide secure bicycle parking for 10 percent of the tenant-occupants, with a minimum of one bicycle parking facility.	☐	☒		
5.106.4.1.2.2				
For additions or alterations, provide secure bicycle parking for 10 percent of the tenant-occupants being added, with a minimum of one bicycle parking facility.				
5.106.4.1.2.3				
For new shell buildings in phased projects, provide secure bicycle parking for 10 percent of the anticipated tenant-occupants, with a minimum of one bicycle parking facility.	☐	☒		
5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2				
5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.				
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:				
1. Covered, lockable enclosures with permanently anchored racks for bicycles;				
2. Lockable bicycle rooms with permanently anchored racks; or				
3. Lockable, permanently anchored bicycle lockers.				
5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.3 Electric vehicle charging stations (EVCS)—Power delivery method and associated Table 5.106.5.3.3 and shall be provided in accordance with regulations in the <i>California Building Code</i> and the <i>California Electrical Code</i> .				
Exceptions:				
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:				
a. Where there is no local utility power supply				
b. Where the local utility is unable to supply adequate power.				
c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.				
2. Areas of parking facilities served by parking lifts, including but not limited to, automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging.				
5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:				
1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.				
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.				
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.				
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."				
Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.				
TABLE 5.106.5.3.1 EV Capable Spaces and EVCS				
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED EVCS^{a,2,3}	OFFICE AND RETAIL NUMBER OF REQUIRED EVCS^{a,2,3}	
1-9	0	0	0	
10-25	4	2	3	
26-50	8	4	6	
51-75	13	6	8	
76-100	17	8	13	
101-150	25	12	19	
151-200	35	18	26	

	Y	N/A	RESPON.	PARTY
1. Calculation for spaces shall be rounded up to the nearest whole number. 2. Each EVCS shall reduce the number of required capable spaces by the same number. 3. At least one Level 2 EVSE shall be provided.	☐	☒		
5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.3. At least one Level 2 EVSE shall be provided.	☐	☒		
One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.	☐	☒		
5.106.5.3.2.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations: 1. For 20-ampere receptacles, NEMA 6-20R 2. For 30-ampere receptacles, NEMA 14-30R 3. For 50-ampere receptacles, NEMA 14-50R	☐	☒		
5.106.5.3.2.2 EV charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors. When using level 2 SAE J3400 SAE connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.	☐	☒		
5.106.5.3.2.3 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.	☐	☒		
5.106.5.3.2.4 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.	☐	☒		
5.106.5.3.2.4.1 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.	☐	☒		
5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.	☐	☒		
5.106.5.3.3.4 Accessible EVCS. When EVSE is installed, accessible EVSC shall be provided in accordance with the <i>California Building Code</i> , Chapter 11B, Section 11B-228.3.	☐	☒		
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).	☐	☒		
5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the <i>California Building Code</i> , Chapter 11B, Section 11B-228.3.	☐	☒		
5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).	☐	☒		
Power allocation method shall include the following: 1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSES. 2. At least one Level 2 EVSE shall be provided.	☐	☒		
5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1. Section 5.106.5.3.2 and associated Table 5.106.5.3.1. See Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.	☐	☒		
TABLE 5.106.5.3.6 Power Allocation Method				
TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL KVA @ 6.6 KVA	OTHER THAN OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE ^{3,4} LOW POWER LEVEL 2, LEVEL 2, ^{1,2} OR DCFC	OFFICE AND RETAIL TOTAL KVA REQUIRED IN ANY COMBINATION OF EV CAPABLE ^{4,5} LOW POWER LEVEL 2, LEVEL 2, ^{1,2} OR DCFC	
1-9	0	0	0	
10-25	26.4	26.4	26.4	
26-50	52.8	52.8	52.8	
51-75	85.8	85.8	85.8	
76-100	112.2	112.2	112.2	
101-150	165	165	165	
151-200	231	231	231	
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility	
1. Level 2 EVSE @ 6.6 KVA minimum. 2. At least one Level 2 EVSE shall be provided. 3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent. 4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces. 5. For Office and Retail buildings the maximum allowed kVA to be utilized for EV capable is 25 percent.				
5.106.5.3.6.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations: 1. For 20-ampere receptacles, NEMA 6-20R. 2. For 30-ampere receptacles, NEMA 14-30R. 3. For 50-ampere receptacles, NEMA 14-50R.	☐	☒		
5.106.5.3.6.2 EV Charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors. When using level 2 SAE J3400 connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.	☐	☒		
5.106.5.3.6.3 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.	☐	☒		
5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-GC] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the <i>California Building Code</i> , Chapter 11B, Section 11B-228.3.	☐	☒		
1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration. 2. When a new photovoltaic system is installed covering existing parking spaces. 3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.	☐	☒		
Exceptions: 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply. b. Where the local utility is unable to supply adequate power. c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.	☐	☒		

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.			
5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6. Install EVCS at all existing EV capable spaces, utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered, prior to adding any new EV capable spaces. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.			
5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.			
Exceptions: - On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based on one of the following conditions: - Where there is no local utility power supply. - Where the local utility is unable to supply adequate power. - Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project. When EVSE(s) are installed, it shall be in accordance with the <i>California Building Code</i> , the <i>California Electrical Code</i> and as follows:			
5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]			
In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:			
- The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE. - The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1. - Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles. - The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.			
TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]			
BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Office Buildings	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Retail	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Warehouse	20,000 to 256,000	3 or Greater	400
	Greater than 256,000	1 or Greater	400
5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.			
Exceptions: - On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions, and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required. - Where there is no local utility power supply. - Where the local utility is unable to supply adequate power. - The installation of EVCS is impracticable. - Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.			
5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:			
- Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces. - A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVCS at each EVCS. - The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space. - The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."			

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC



148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

G2.1

	3. The door is recessed at least 4 feet.
	4. Other methods which provide equivalent protection.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane

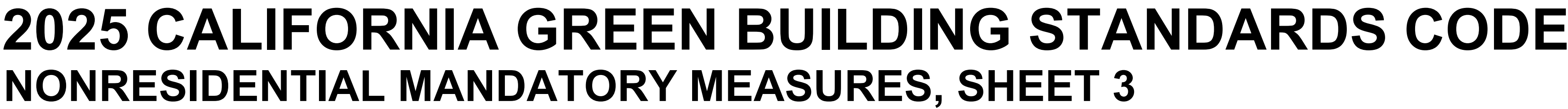
Exceptions to Sections 5.408.1.1 and 5.408.1.2:

- 5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

- 5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: <http://www.dtsc.ca.gov/universalwaste>

CGBSC



BUREAU VERITAS NORTH AMERICA, INC

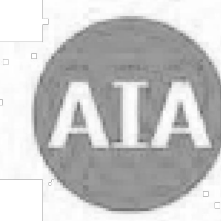


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ARCHITECTURE + DESIGN



G2.2

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California

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

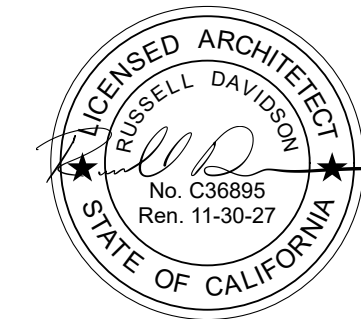
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

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



RUSSELL DAVIDSON
ARCHITECTURE + DESIGN



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:	03/20/2026	
SCALE	AS NOTED	
DRAWN BY:	RPD	
CHECKED BY:	RPD	
JOB:	2025.35	

CGBSC

G2.3

Y N/A RESPON. PARTY

☒ CONT.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2,3}

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS:	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

- GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
- THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification
- Field verification of on-site product containers

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

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEH/BI/IAQ/Pages/VOC.aspx#material>

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

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEH/BI/IAQ/Pages/VOC.aspx#material>

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

Y N/A RESPON. PARTY

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5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
- Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS:

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
- THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

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5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. <https://www.cdph.ca.gov/Programs/CDC/DPH/DEOD/CEH/BI/IAQ/Pages/VOC.aspx#material>

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

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

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

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

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

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5.504.5 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

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5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO₂) monitoring in classrooms. [DSA-SS] Classrooms and other similar rooms that are used for group instruction shall be equipped with a carbon dioxide monitor or sensor.

[BSC-CG] Newly constructed projects and qualifying additions and alterations (per scope in Section 301.3) for University of California, California State University and private school classrooms, lecture and post-secondary classrooms shall be equipped with a carbon dioxide monitor or sensor.

[DSA-SS, BSC-CG] The carbon dioxide monitor or sensor shall meet the following requirements:

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

Y N/A RESPON. PARTY

☒ ARCH.

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- Within the 65 CNEL noise contour of an airport.

Exceptions:

- L_w or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
- L_w or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

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

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

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbox.org/PDF/CaseStudies/stc_jcc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

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

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

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

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

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

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

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

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

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

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

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

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

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

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

J:\users\russell\RD\A-D Dropbox\RD\A-D Projects\Current\2024_35_NID Hydro\Acad\CAD\Current\NID Hydro Renovation Rev 1.rvt

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August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

ACCESSIBILITY NOTES:

- A CLEAR OPENING OF 32 INCHES WITH THE DOOR OPEN 90 DEGREES MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
- WHERE THE DOORS ARE LOCATED WITHIN THE ACCESSIBLE ROUTE, THE DOOR LANDING IS REQUIRED TO HAVE A DEPTH CLEARANCE OF 60 INCHES MINIMUM IN THE DIRECTION OF THE DOOR SWING. THE DEPTH CLEARANCE SHALL BE 48 INCHES IN THE OPPOSITE DIRECTION OF DOOR SWING OR:
 - IF APPROACH CAN BE MADE FROM THE LATCH SIDE, THE CLEARANCE DEPTH CAN BE 44 INCHES IF THE DOOR HAS NO CLOSER.
 - IF APPROACH CAN BE MADE FROM THE STRIKE SIDE AND THE DOOR, THE CLEARANCE DEPTH CAN BE 44 INCHES IF IT HAS NEITHER LATCH NOR CLOSER (CBC 1003.3.3.2)
- DOORS SHALL BE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE (I.E., LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR AND THE DOOR SHALL HAVE A 10" KICK-PLATE. (CBC 11B-404.2.7, 11B-404.2.10)
- THE FORCE FOR PUSHING OR PULLING OPEN EXTERIORS ACCESSIBLE EGRESS DOORS IS 5 LB. AND 15 LB AT REQUIRED FIRE DOORS. (CBC 11B-404.2.9)
- LANDINGS AT DOORS SHALL BE LEVEL EXCEPT THAT EXTERIOR DOOR LANDINGS MAY HAVE A SLOPE NOT TO EXCEED 1/2" PER FT (2% SLOPE). (CBC 11B-404.2.4.4)
- WHEN THE ACCESSIBLE DOOR HAS A CLOSER, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MIN. (CBC 11B-404.2.8.1)
- WHERE THERE IS A CARPET DOORMAT, ACCESSIBILITY WILL BE MAINTAINED AND THE DOORMAT SHALL BE SECURELY ATTACHED. EXPOSED EDGES SHALL BE FASTENED TO FLOOR SURFACES AND HAVE A TRIM ALONG ENTIRE LENGTH OF THE EXPOSED EDGE. PILE HEIGHT SHALL BE NO MORE THAN 1/2". CHANGES IN LEVEL OF 1/4" MAX SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. (CBC 11B-303 AND CBC 11B-302.2)
- 4" STRIKE SIDE X 60" DEEP CLEARANCE AT EXTERIOR DOORS. THE TOTAL CLEARANCE DIMENSIONS ON THE PULL SIDE OF THE DOOR ARE 60"x60" (36" DOOR WIDTH PLUS 24" SIDE STRIKE). (CBC 11B-404.2.4)
- MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS AND SURFACE BOLTS OR ANY OTHER TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED PER CBC 1008.1.9.4.
- EXIT DOORS ARE TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. HOWEVER, KEY-LOCKING HARDWARE MAY BE USED ON THE MAIN EXIT WHEN THE MAIN EXIT DOOR HAS A DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS. THE SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE DOOR MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE. (CBC 1008.1.9.3)
- FLOORS AND WALL BASE FINISH MATERIALS. IN OTHER THAN DWELLING UNITS, TOILET, BATHING AND SHOWER ROOM FLOOR FINISH MATERIALS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 INCHES. (CBC 1210.2.1)
- WALLS AND PARTITIONS. WALLS AND PARTITIONS WITHIN 2 FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. (CBC 1210.2.2)
EXCEPTIONS:
 - DWELLING UNITS AND SLEEPING UNITS.
 - TOILET ROOMS THAT ARE NOT ACCESSIBLE TO THE PUBLIC AND WHICH HAVE NOT MORE THAN ONE WATER CLOSET. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE. (CBC 1210.2.2)

RD
RUSSELL DAVIDSON
ARCHITECTURE + DESIGN



N.I.D. HYDRO OFFICE RENOVATION

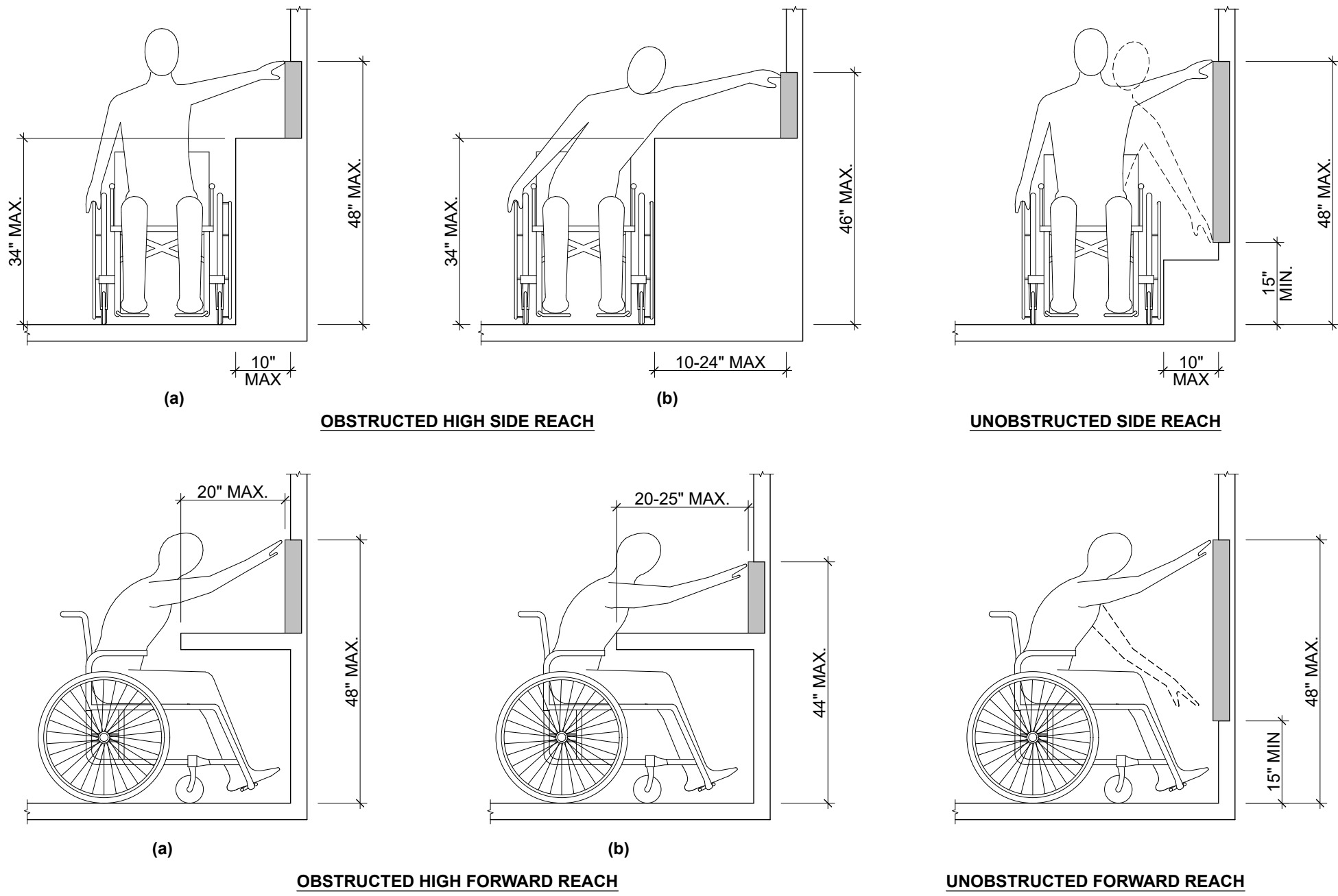
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

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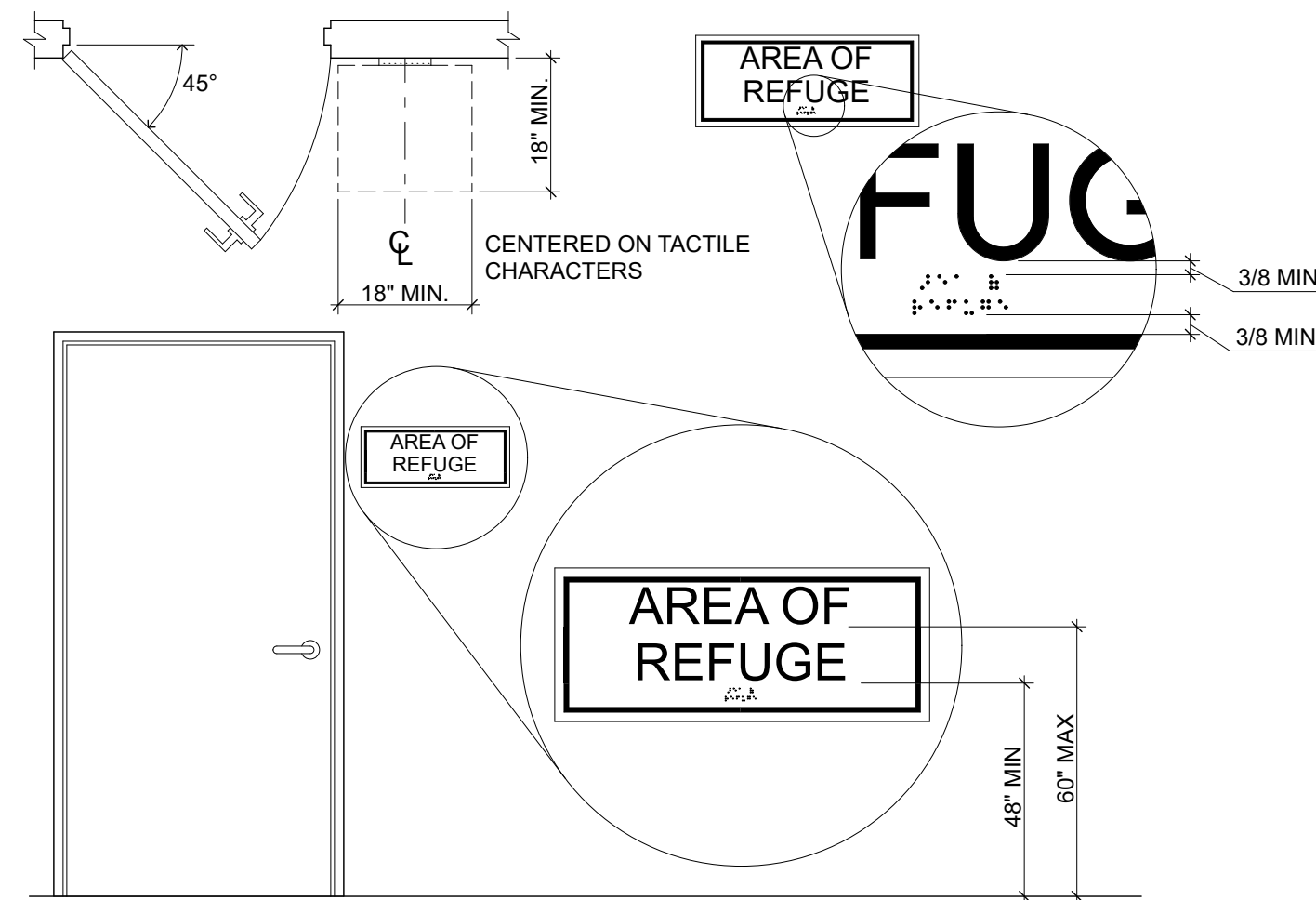
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SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

TYPICAL
ACCESSIBILITY
DETAILS

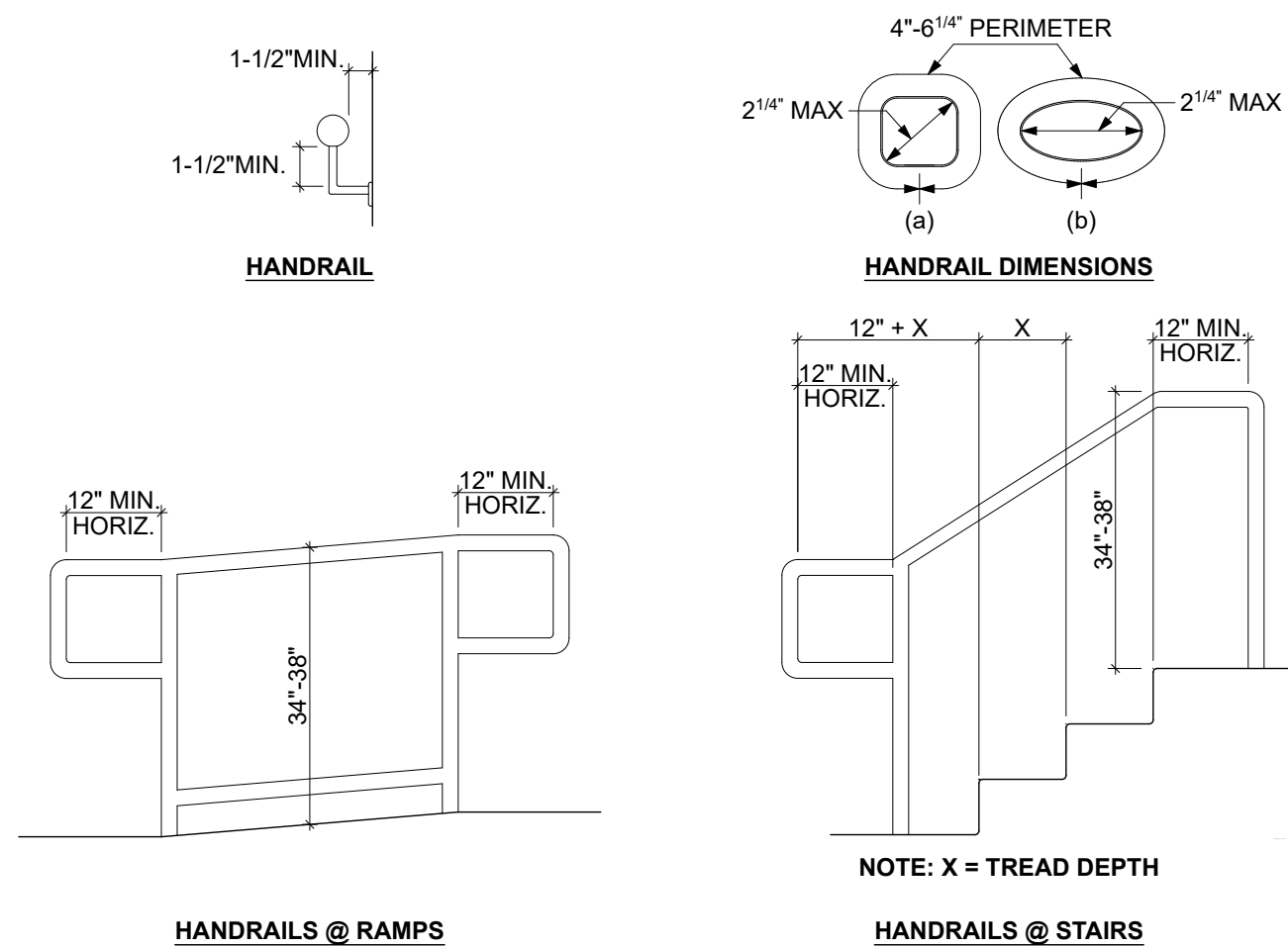
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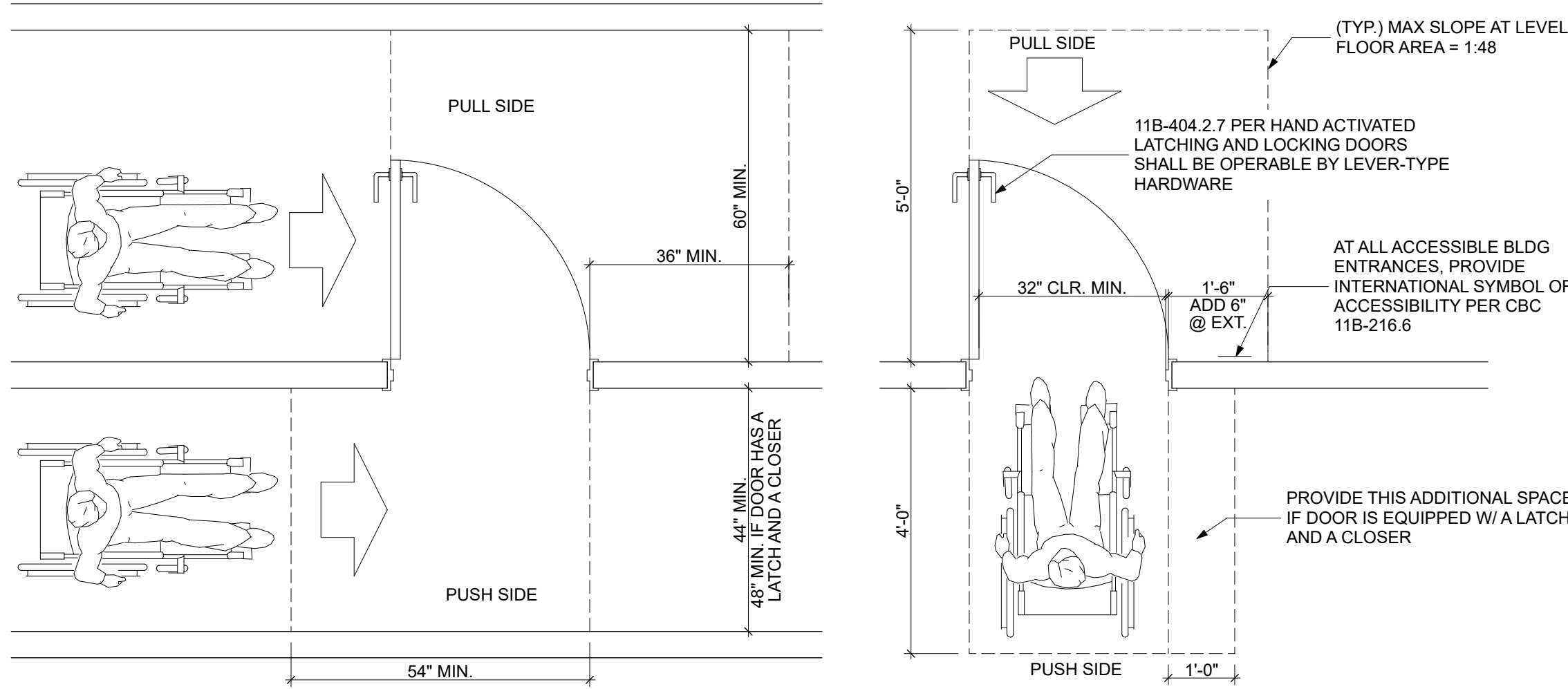
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SCALE: 1/2" = 1'-0"



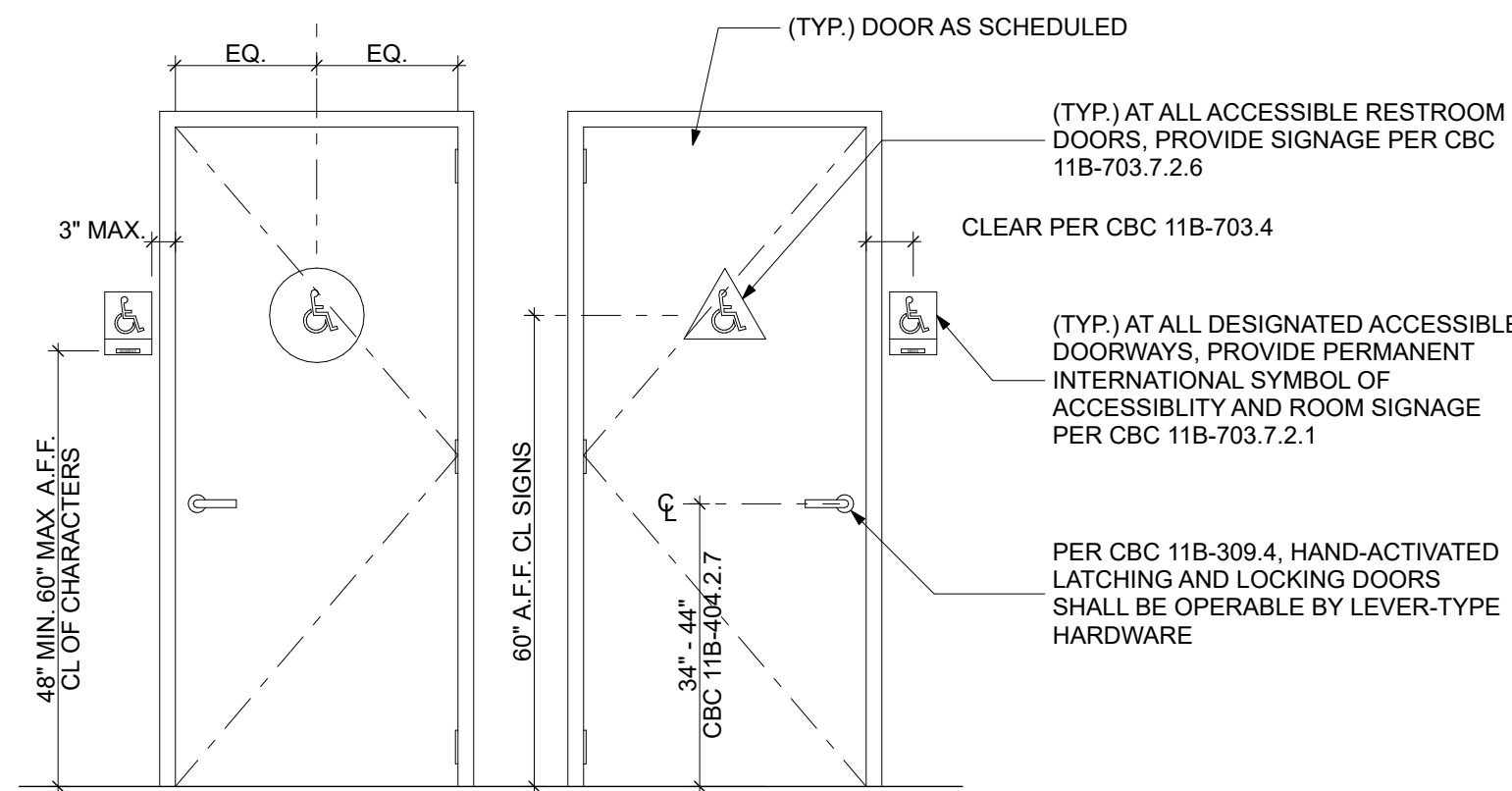
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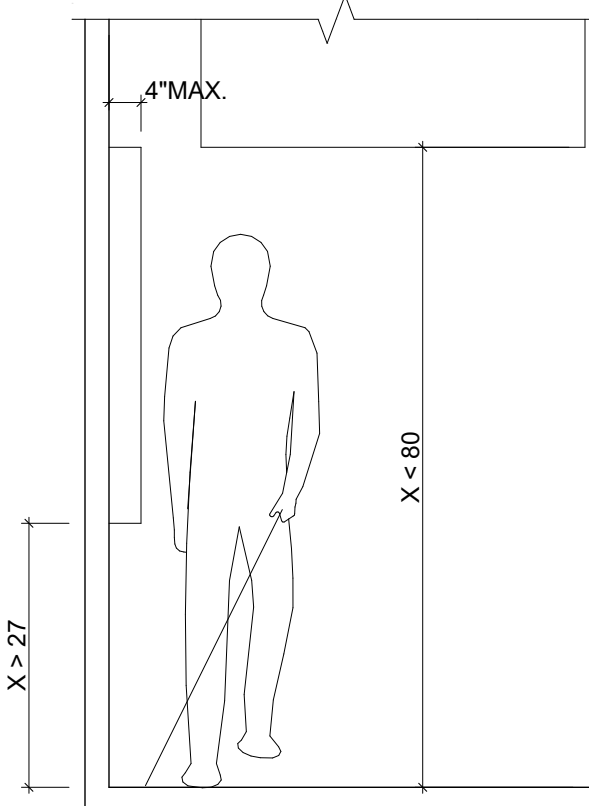
5 HANDRAIL
SCALE: 1/2" = 1'-0"



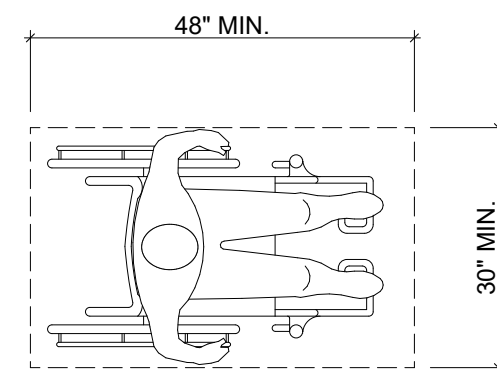
13 LEVEL MANUEVERING CLEARANCE AT DOORS
SCALE: 1/2" = 1'-0"



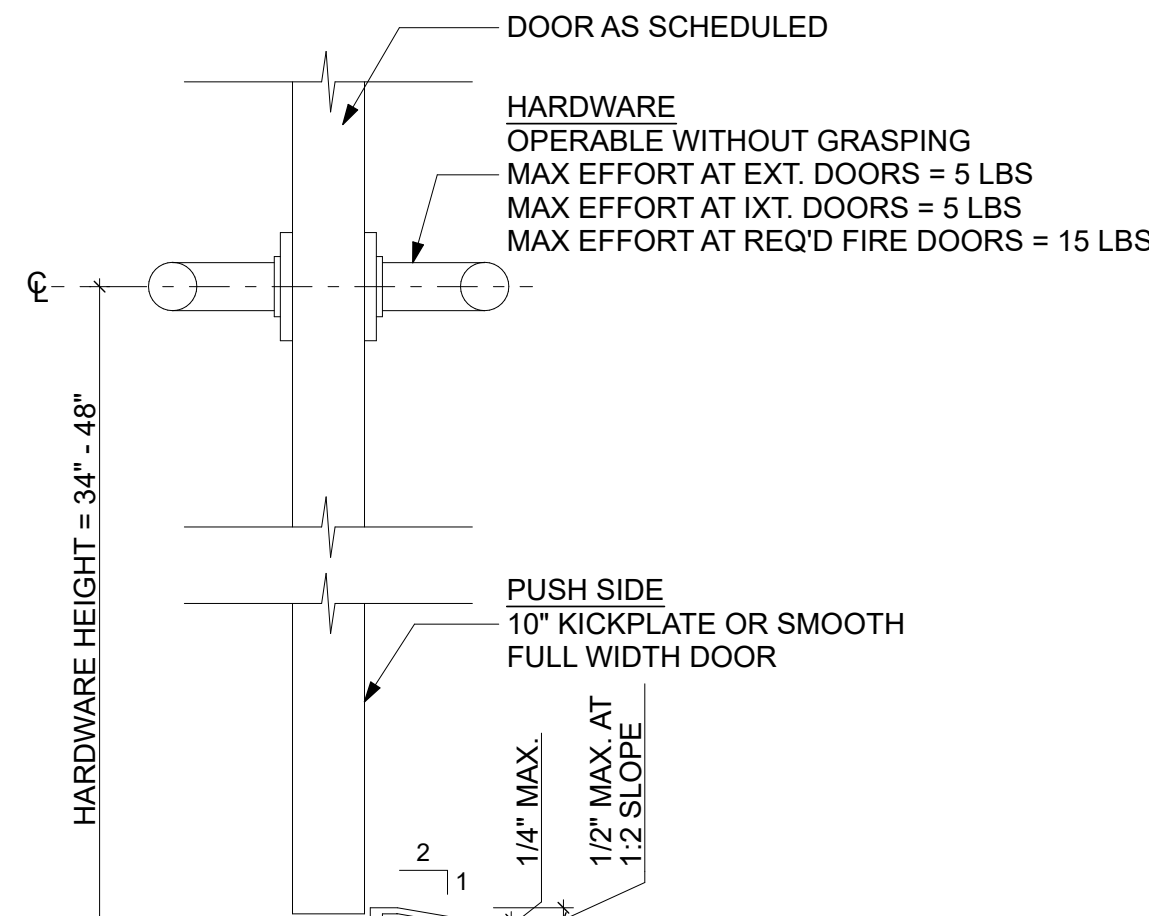
8 DISABLED ACCESS DOOR SIGNAGE
SCALE: 1/2" = 1'-0"



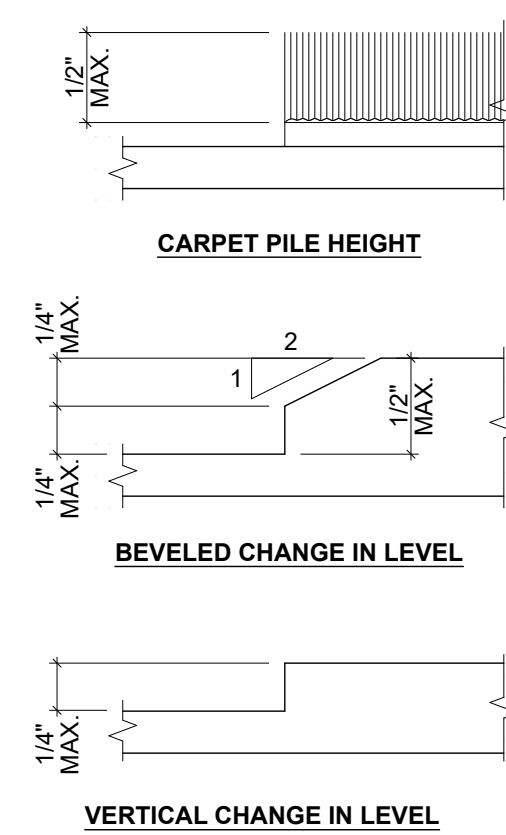
3 LIMITS OF PROTRUDING OBJECTS
SCALE: 1/2" = 1'-0"



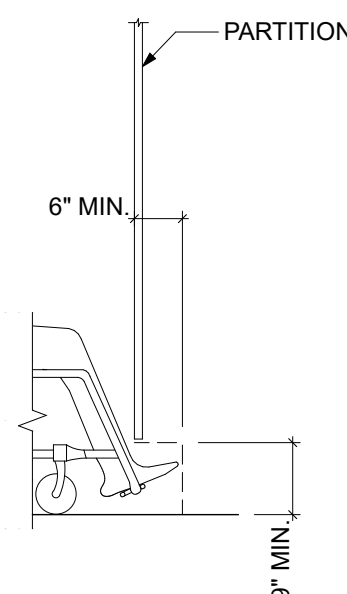
2 CLEAR FLOOR SPACE
SCALE: 1/2" = 1'-0"



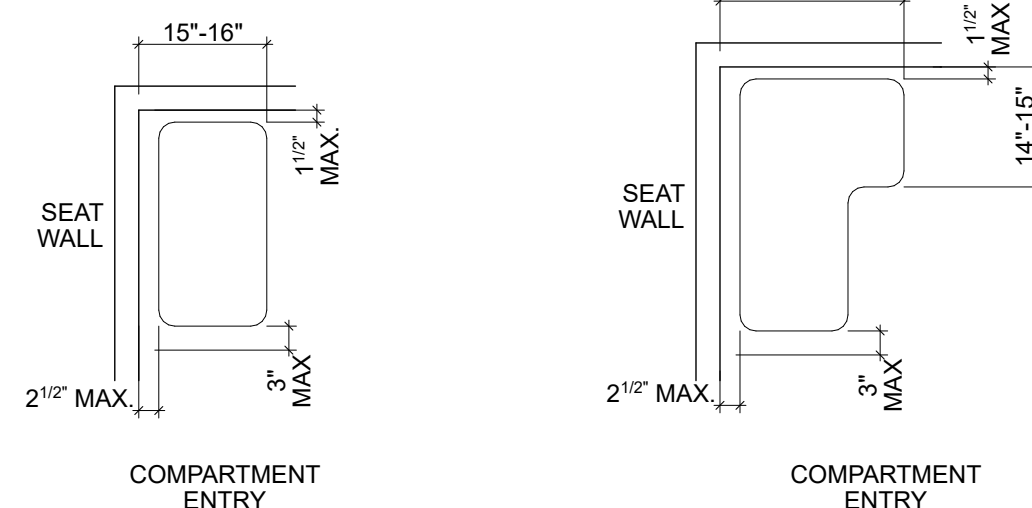
6 DISABLED ACCESS DOOR THRESHOLD
SCALE: 3" = 1'-0"



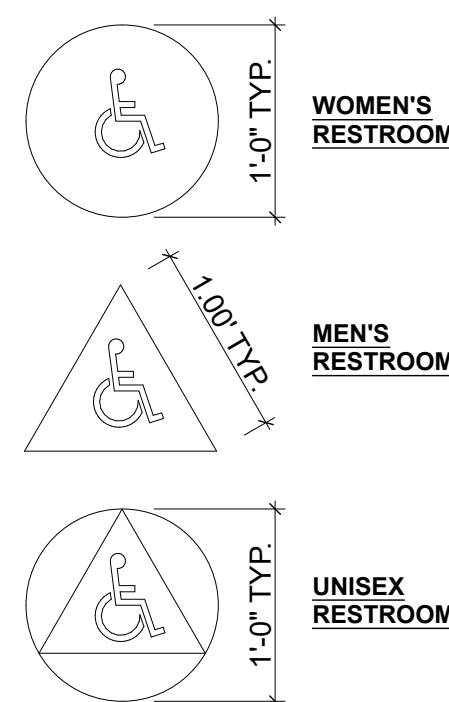
1 VERTICAL CHANGE IN LEVEL
SCALE: 1/2" = 1'-0"



15 TOILET COMPARTMENT TOE CLEARANCE
SCALE: 1/2" = 1'-0"



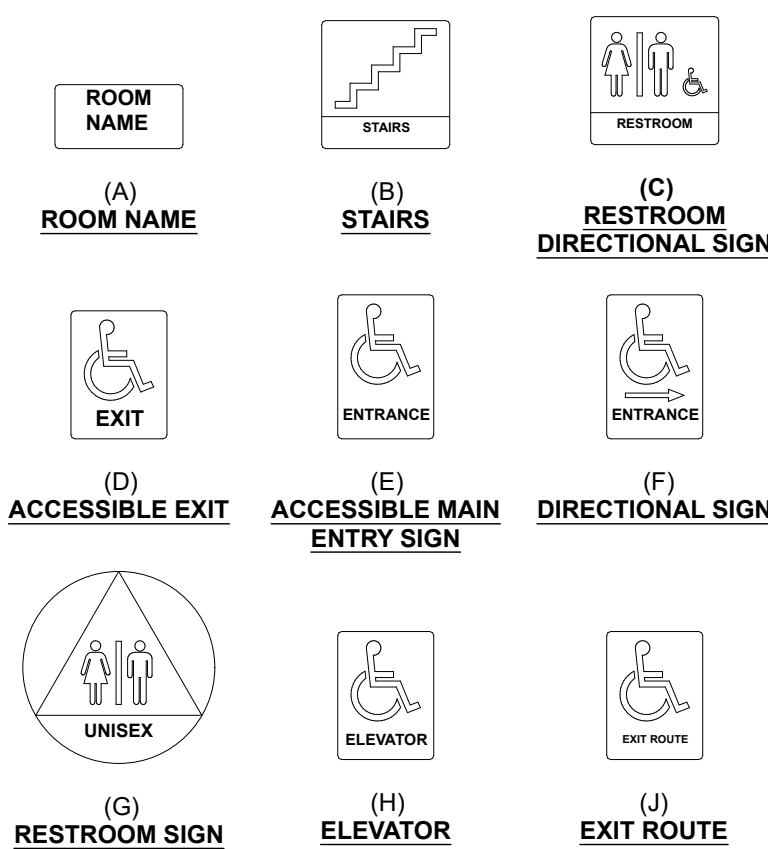
14 SHOWER COMPARTMENT SEAT
SCALE: 1/2" = 1'-0"



RESTROOM SIGNAGE NOTES:

1. SIGNAGE SHALL BE MOUNTED 60" ABOVE FINISH FLOOR TYP. U.O.N.
2. WOMEN'S AND MEN'S DOOR SIGNAGE TO BE 1/4" THICK WITH PICTOGRAM, UNISEX SIGNAGE TO BE 1/4" THICK TRIANGLE ON 1/4" THICK CIRCLE WITH PICTOGRAM. 11B-703.7.2.6
3. TITLE 24 RECOMMENDS NO RAISED PICTOGRAM, BRAILLE OR LETTERS ON CIRCLE / TRIANGLE DOOR SIGNS

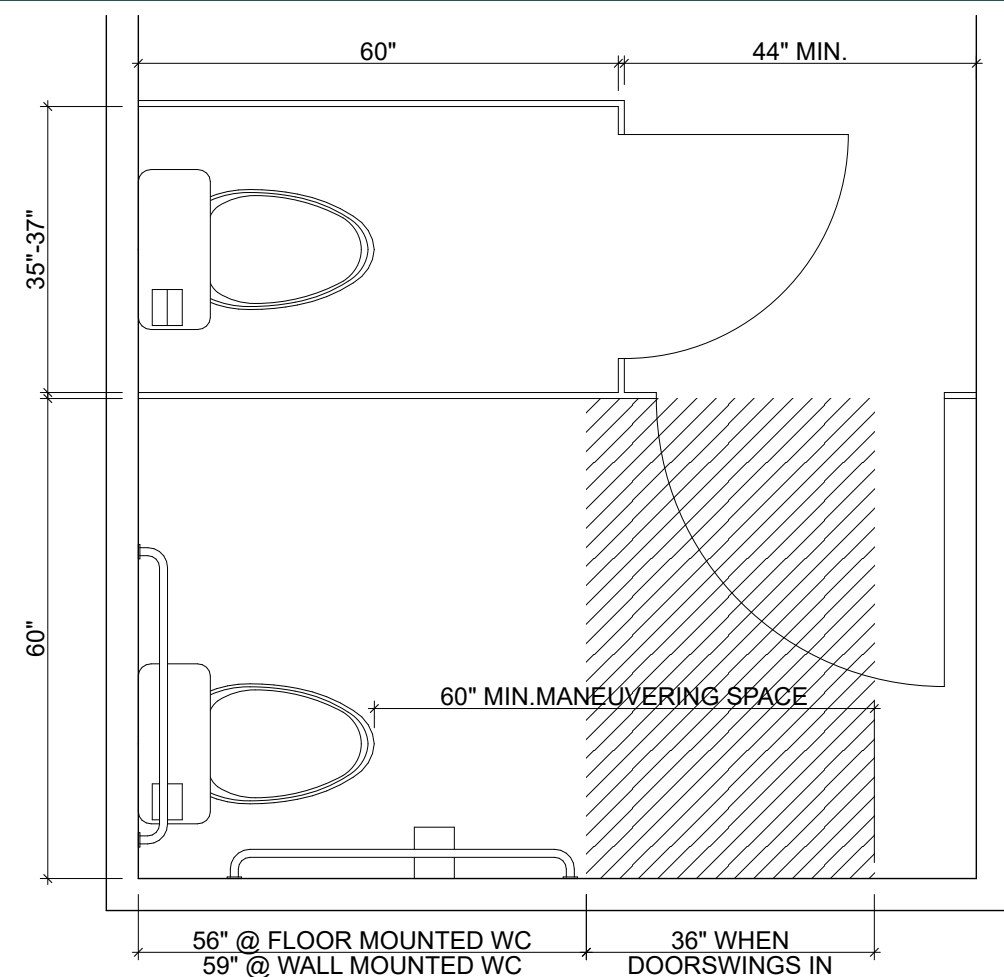
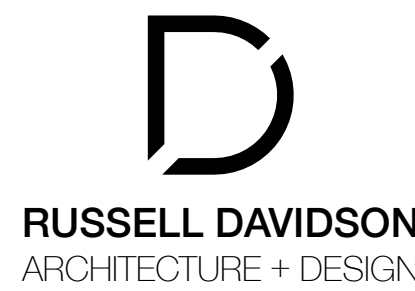
13 RESTROOM SIGNAGE
SCALE: 1" = 1'-0"



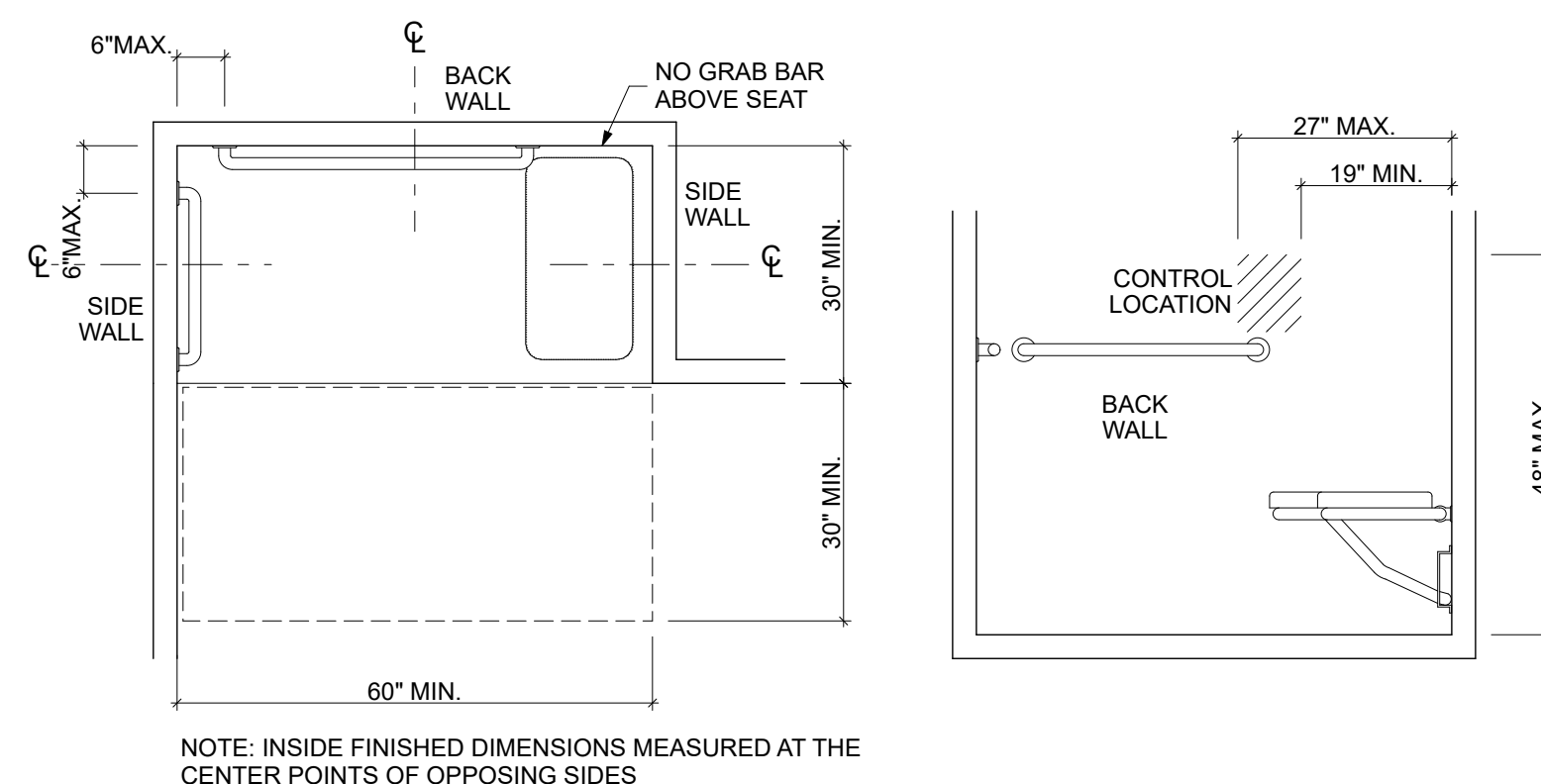
12 ADA SIGNAGE
SCALE: 1" = 1'-0"

ACCESSIBILITY NOTES:

1. ALL DRINKING FOUNTAINS SHALL EITHER BE LOCATED COMPLETELY WITHIN ALCOVES, POSITIONED COMPLETELY BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCRoACH INTO PEDESTRIAN WAYS. THE PROTECTED AREA WITHIN WHICH A DRINKING FOUNTAIN IS LOCATED SHALL BE FENCED SHIELDED SHIELDED BY 36 INCHES DEEP MINIMUM, AND SHALL COMPLY WITH SECTION 11B-305.7. WHEN USED, WING WALLS OR BARRIERS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6 INCHES VERTICALLY FROM THE FLOOR OR GROUND SURFACE. (11B-602.9)
2. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. (11B-604.2)
3. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 11B-309 EXCEPT THEY SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OUTSIDE OF THE WATER CLOSET. WATER CLOSET PARTITION ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 11B-604.2 (11B-604.4)
4. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-309 AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE FIVE INCHES ABOVE THE GRAB BAR AND 18 INCHES ABOVE THE FIFTH FOOT AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. (11B-604.7)
5. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 11B-404 EXCEPT THAT IF THE APPROACH IS FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 48 INCHES MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION. DOORS SHALL BE LOCATED IN THE PARTITION WITHIN 9 INCHES MINIMUM, OR ABOVE THE FIFTH FOOT AND SHALL CLOSET WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR OR A DOOR OPENING COMPLYING WITH SECTION 11B-404 SHALL BE ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS MAY SWING INTO THAT PORTION OF MANEUVERING SPACE WHICH DOES NOT OVERLAP THE CLEARANCE REQUIRED AT THE WATER CLOSET. (11B-604.9)
6. A SHOWER SPRAY UNIT WITH A HOSE 59 INCH LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HANDHELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. ON AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR OR A SHOWER BAR WITH AN ADJUSTABLE-HEIGHT SHOWER HEAD. SHOWER HEADS OR BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120 F (49°C) MAXIMUM. (11B-605.6)
7. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2 INCH HIGH MAXIMUM IN ACCORDANCE WITH SECTION 11B-303. (11B-605.7)
8. SEATING FLOOR OR GROUND SURFACES OF SEATING OR GROUND SURFACES OF SHOWERS SHALL COMPLY WITH SECTION 11B-302.1 AND SHALL BE SLOPED 1:48 MAXIMUM IN ANY DIRECTION, WHERE DRAINS ARE PROVIDED, GRATE OPENINGS SHALL BE 1/4 INCH MAXIMUM AND FLUSH WITH THE FLOOR SURFACE. (11B-605.9)
9. IF A SEATING OR GROUND SURFACE IN A SHOWER COMPARTMENT SHALL BE A FOLDING TYPE, IT SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. A SEAT IN AN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE FRONT WALL OPPOSITE THE BACK WALL, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FINISH FLOOR. WHEN FOLDED, THE SEAT SHALL EXTEND 6 INCHES MAXIMUM FROM THE MOUNTING WALL. SEATS SHALL COMPLY WITH SECTION 11B-610.3.1 OR 11B-610.3.2. (11B-610.3)
10. ALL DIMENSIONS ARE TO FINISHED INTERIOR OR EXTERIOR WALL FINISH, VERIFY IN FIELD.

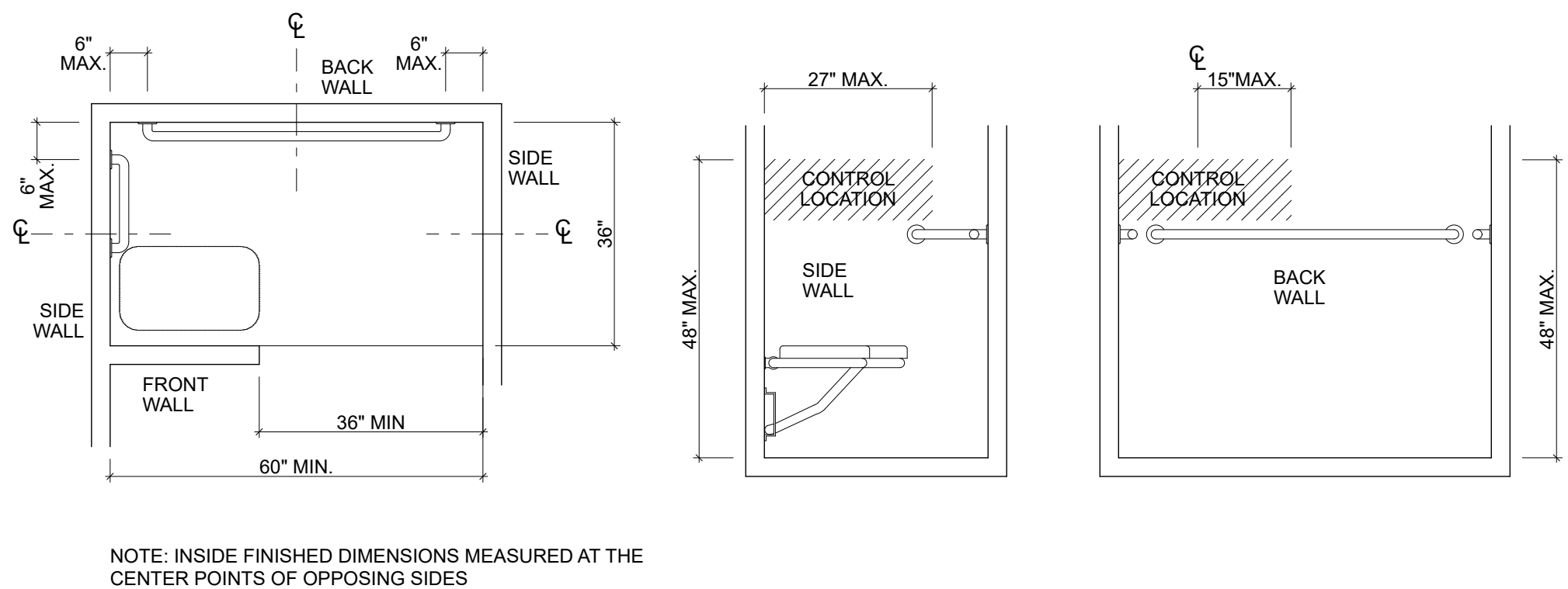


10 (TYP) MULTI-OCCUPANCY RESTROOM
SCALE: 1/2" = 1'-0"



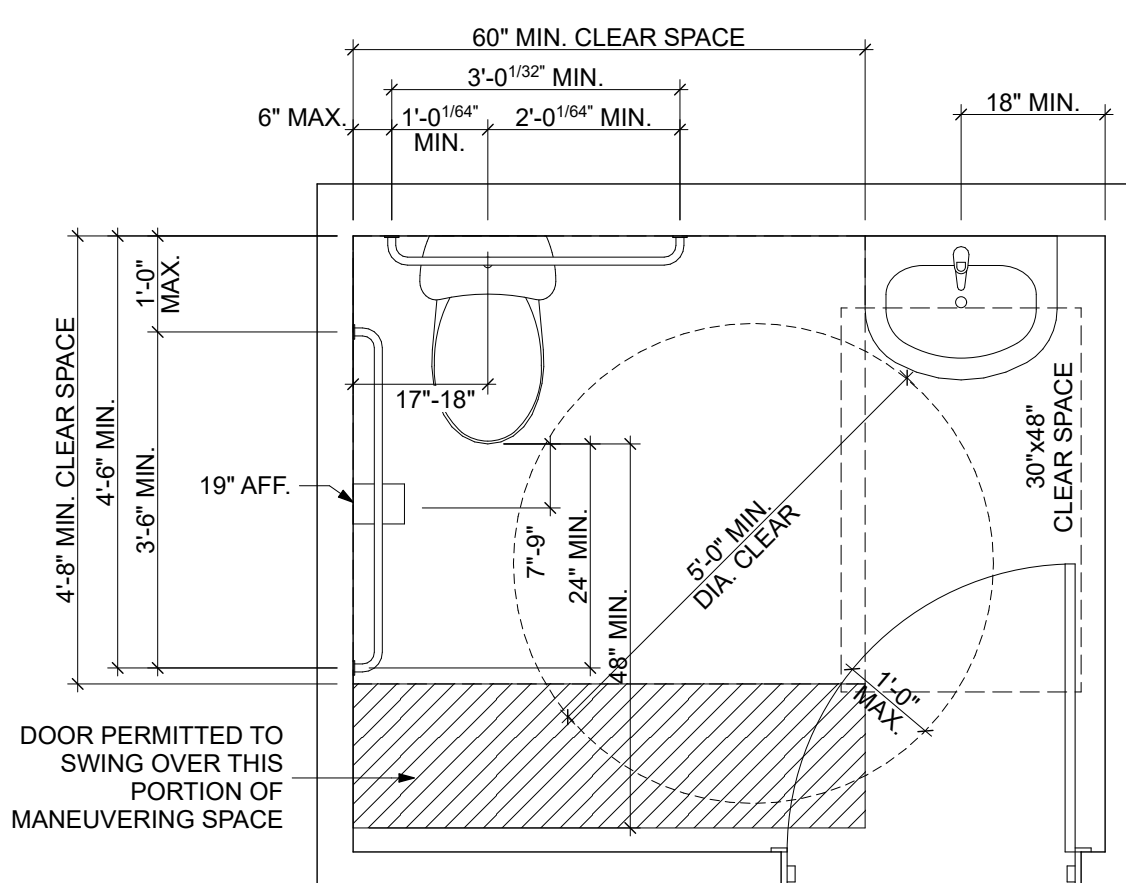
NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

9 ROLL-IN TYPE SHOWER COMPARTMENT
SCALE: 1/2" = 1'-0"

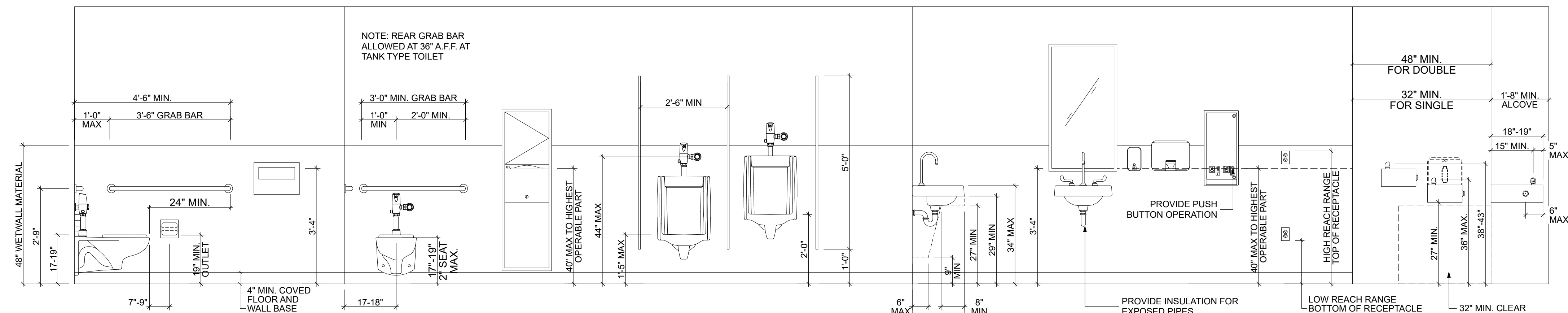


NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

7 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT
SCALE: 1/2" = 1'-0"



5 (TYP.) ACCESSIBLE RESTROOM
SCALE: 1/2" = 1'-0"



4. FIXTURE MOUNTING HEIGHT

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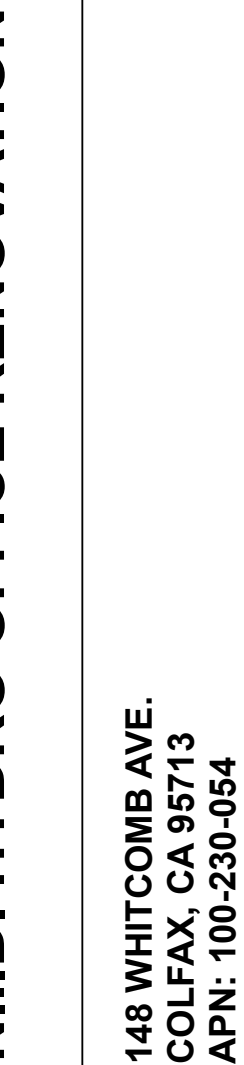
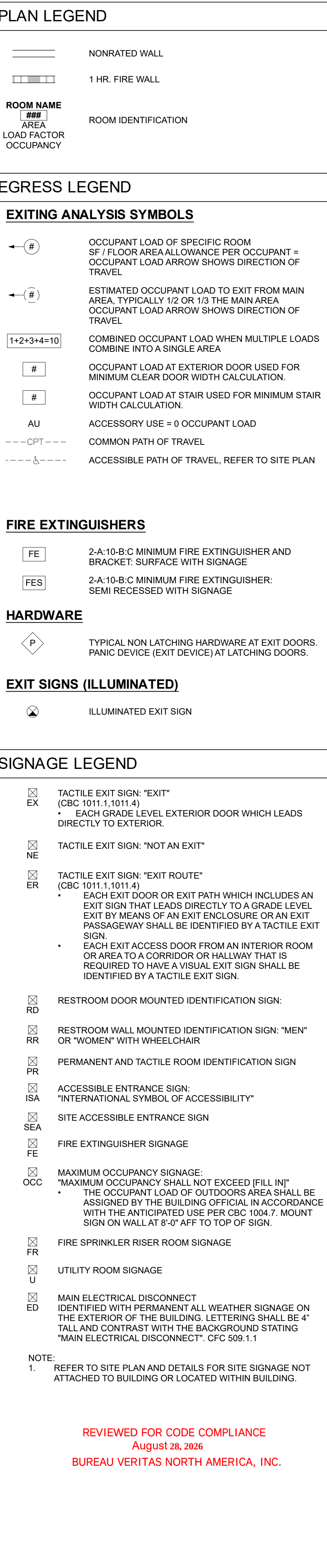
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COLFAX, CA 95713
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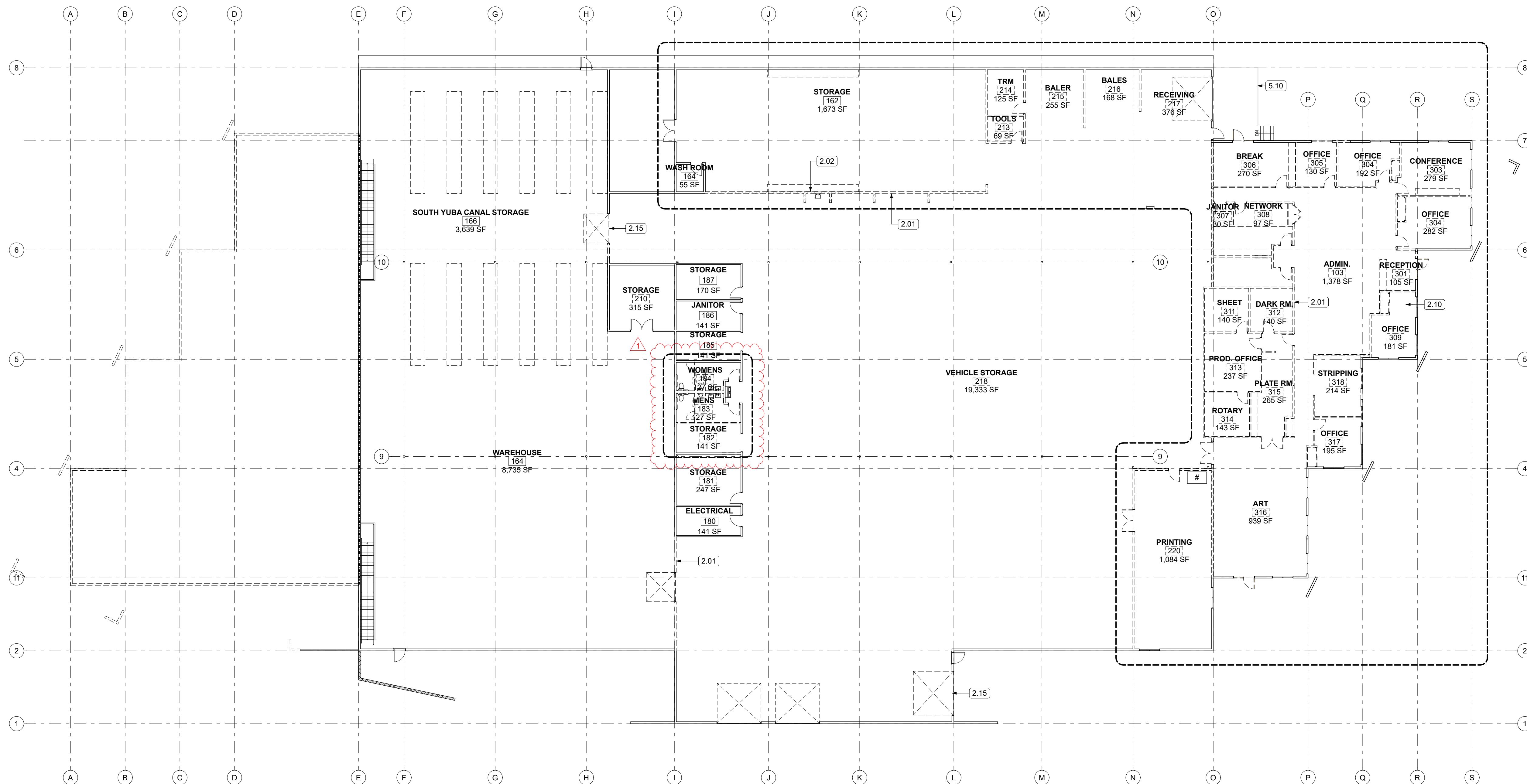
ID	NAME	DATE
1	REV 1	7/11/26

SUBMITTED:	03/20/2026
SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

TYPICAL ACCESSIBILITY DETAILS

G3.1





1 MAIN LEVEL DEMO PLAN
SCALE: 1/16" = 1'-0"

LEGEND

- | | |
|---|----------------------------|
|  | (E) WALL TO REMAIN |
|  | (E) WALL TO BE DEMOLISHED |
|  | (E) FINISHES TO BE REMOVED |
|  | STRUCTURE TO REMAIN |
|  | AREA OF WORK |

NEW PLAN

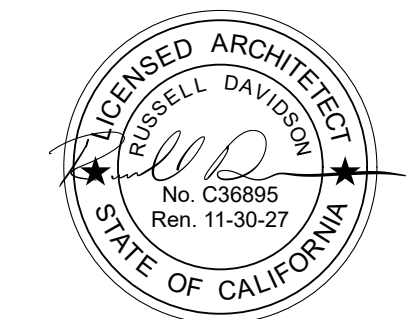
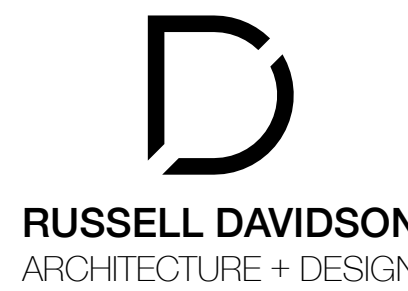
DEMO PLAN NOTES

1. REMOVE EXISTING FINISHES AS NOTED ON PLANS & REPAIR & PREPARE ALL SURFACES FOR FINISHES
2. MATERIAL HAVING SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE OWNER ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER
3. FURNISH, INSTALL, AND MAINTAIN IN SAFE CONDITIONS AT ALL TIMES TEMPORARY PROTECTION REQUIRED TO ENSURE SAFETY FOR PERSONS AND PROPERTY DURING DEMOLITION AND REMOVAL WORK.
4. FURNISH, INSTALL, AND MAINTAIN DUST COVERINGS TO PREVENT THE SPREAD OF DUST BEYOND THE IMMEDIATE AREA WHERE DEMOLITION IS BEING PERFORMED.
5. REMOVE EXISTING ELECTRICAL OUTLETS AND WIRING AS REQUIRED IN WALLS, FLOORS AND FURNISHINGS TO BE DEMOLISHED.
6. ALL ELECTRICAL, PLUMBING AND MECHANICAL WORK (DEMOLITION AND NEW) IS TO BE PERFORMED BY LICENSED, COMPETENT CONTRACTORS.
7. PRIOR TO THE START OF DEMOLITION WORK GENERAL CONTRACTOR SHALL DETERMINE THE LOCATION OF LOAD BEARING PARTITIONS AND COLUMNS AND PROVIDE TEMPORARY SUPPORTS AS REQUIRED BY REMOVAL OR RELOCATION OF SUCH PARTITIONS. G.C. TO ENSURE ALL TEMPORARY SUPPORTS ARE CARRIED TO SUFFICIENT BEARING MATERIALS.
8. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DEMOLITION LOCATIONS & DETAILS.
9. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
10. ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.

KEYNOTES

- 2.01 REMOVE EXISTING PARTITION
2.02 REMOVE EXISTING GYP. BOARD, FRAMING TO REMAIN
2.10 REMOVE EXISTING FLOORING
2.15 REMOVE EXISTING DOORS & FRAMES
5.10 (N) PIPE RAIL: GALV. STEEL

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
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LOWER LEVEL
EXISTING &
DEMOLITION
OVERALL PLAN

A1.0

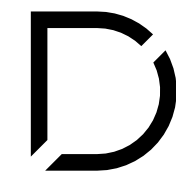
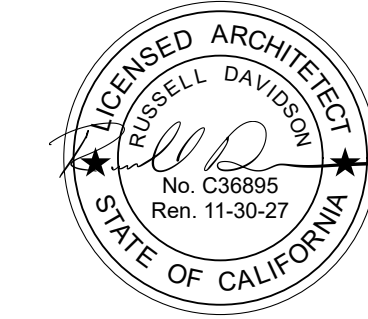
1 2ND FLOOR DEMO PLAN
SCALE: 1/16" = 1'-0"

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

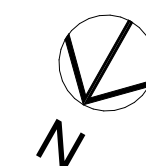
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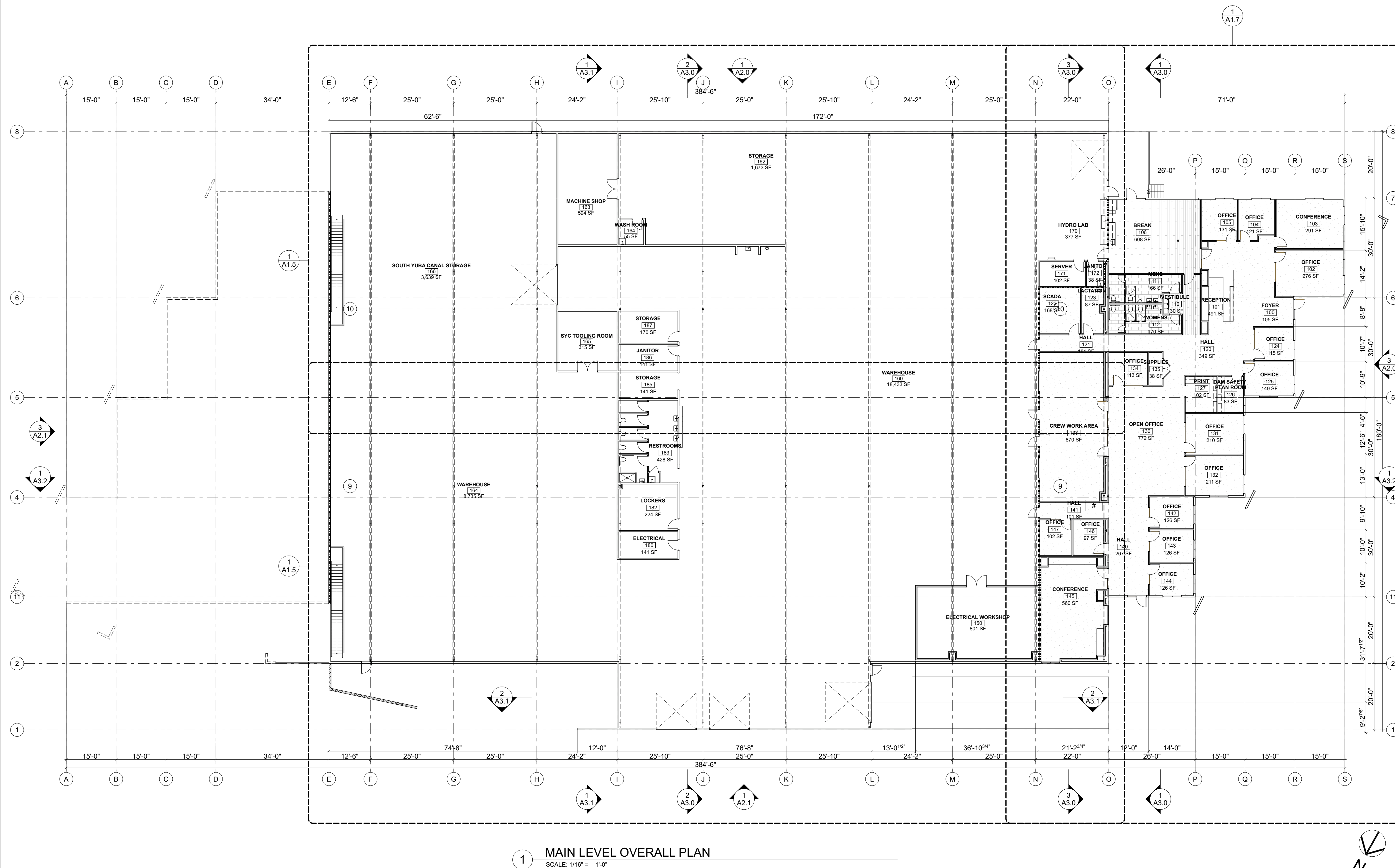
UPPER LEVEL
EXISTING &
DEMOLITION
OVERALL PLAN

A1.1



RUSSELL DAVIDSON
ARCHITECTURE + DESIGN





/Users/russell/RDA+D Dropbox/RDA+D/Projects/Current/2024.35 NID Hydro/ArchiCAD/Current/NID Hydro Renovation Rev 1.pln

- # LEGEND
- | | |
|---|----------------------------------|
|  | (E) WALL TO REMAIN |
|  | (N) WALL |
|  | 1 HR. FIRE WALL |
| ROOM NAME
 | ROOM IDENTIFICATION |
| OCCUPANCY TYPE | |
|  | WINDOW NUMBER |
|  | DOOR NUMBER |
|  | PARTITION TYPE
REFER TO A.5.4 |

- # GENERAL NOTES
- | REFERENCES |
|--|
| 1. REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O. |
| 2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES. |
| 3. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS. |
| 4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS. |
| 5. INSTALL WINDOWS PER SCHEDULE ON A6.0 |
| 6. INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0 |
| NOTES |
| 1. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. |
| 2. EXTERIOR DIMENSIONS ARE TO FACE OF STRUCTURAL SHEATHING, SLAB EDGE, OR CENTERLINE OF STRUCTURE U.N.O. |
| 3. INTERIOR DIMENSIONS ARE TO FACE OF STUD. U.N.O. |
| 4. DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF OPENINGS, U.N.O. |
| 5. ALL ANGLED WALLS TO BE SET AT 45 DEGREES U.N.O. |
| 6. SET JAMB AT HINGE SIDE OF DOORS AS FOLLOWS: EXTERIOR DOORS @ 4.5" U.N.O.; INTERIOR DOORS @ 4.5" U.N.O. |
| 7. PROVIDE MINIMUM LEVEL LANDINGS OUTSIDE ALL EXTERIOR DOORS PER CBC 1010.1.8. DIMENSIONS AND MAXIMUM THRESHOLD HEIGHTS TO COMPLY WITH CBC ACCESSIBILITY REQUIREMENTS (CBC CH. 11B). LANDINGS SHALL SLOPE 1/4"/FT MAXIMUM AWAY FROM DOORS. |
| 8. SAFETY GLAZING: ALL GLASS IN DOORS, ADJACENT TO DOORS, IN HAZARDOUS LOCATIONS, OR WITHIN 24 IN. OF A DOOR EDGE OR 60 IN. OF A WET SURFACE SHALL BE TEMPERED OR LAMINATED SAFETY GLASS PER CBC 2406. |
| 9. BATHROOM AND TOILET ROOM FLOORS TO HAVE SLIP-RESISTANT SURFACE PER CBC 1210.2.2. |
| 10. SHOWER RECEPTORS TO HAVE LINERS SLOPED TO DRAIN AT 1/4"/FT MIN. PER CPC 408.7. |
| 11. GUARDS SHALL BE 42 IN. MINIMUM IN HEIGHT; OPENINGS SHALL NOT ALLOW PASSAGE OF A 4-IN. DIAMETER SPHERE PER CBC 1015.4. |
| 12. PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER CBC 718. |
| 13. ACCESSIBLE ROUTES, DOORS, AND CLEARANCES SHALL COMPLY WITH CBC CH. 11B (ADA SCOPING). |
| 14. INTERIOR NON-RATED PARTITIONS SHALL EXTEND ABOVE T-BAR CEILINGS U.N.O. RATED WALLS, SHAFT WALLS, AND SOUND-ATTENUATED WALLS SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE. |
| 15. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRESTOP SYSTEMS PER CBC 714. |
| 16. PROVIDE SOUND ATTENUATION INSULATION AT TOILET ROOMS, MECHANICAL ROOMS, AND AS INDICATED ON DRAWINGS. |
| 17. SMOKE DETECTORS, ALARMS, AND EXIT SIGNS SHALL BE PROVIDED PER CBC 907 & 1013 AND COORDINATED WITH ELECTRICAL DRAWINGS. |
| 18. SIGNAGE TO COMPLY WITH CBC 11B-703 (TACTILE & VISUAL). |

KEYNOTES

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

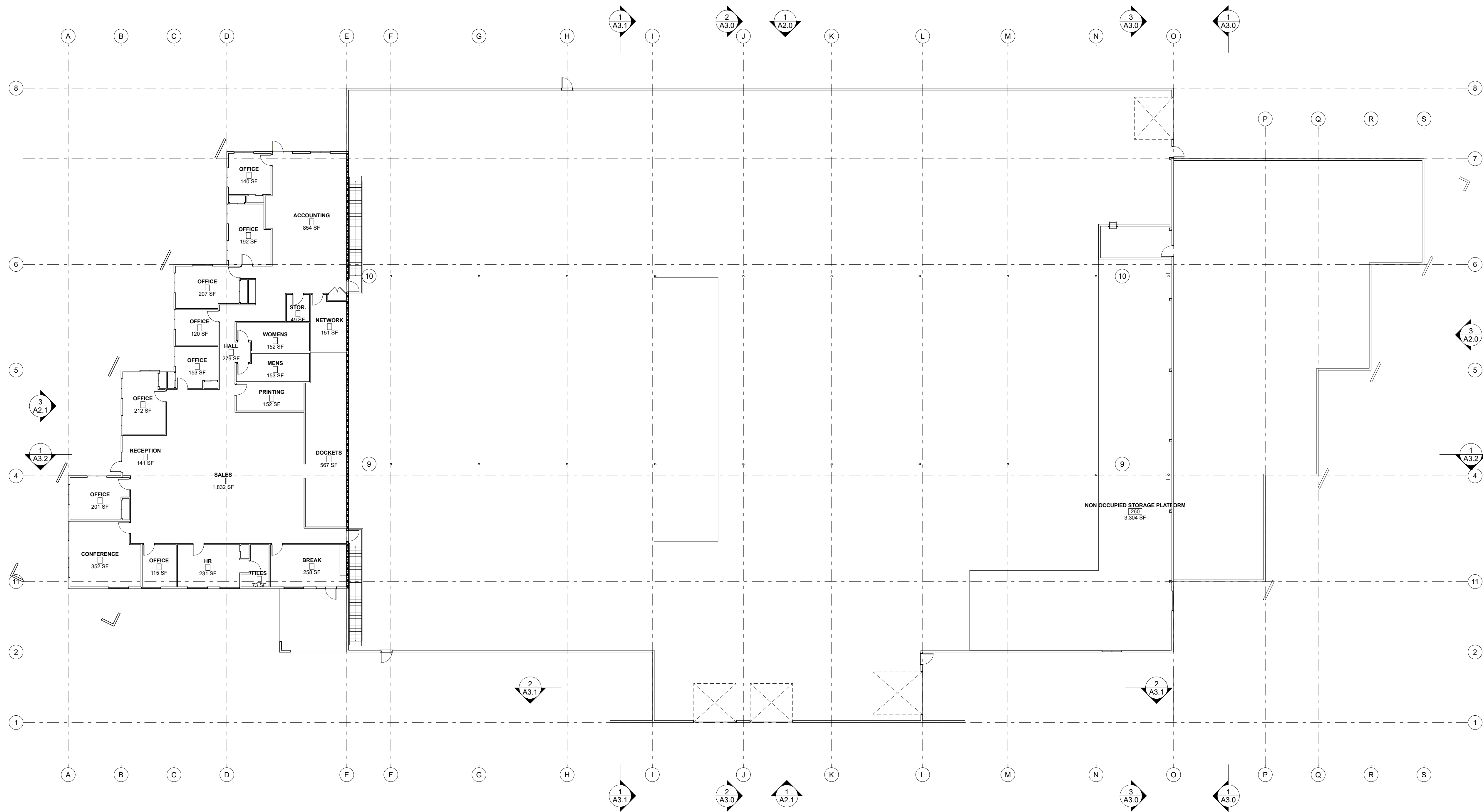
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

NEW 1ST FLOOR
OVERALL PLAN

A1.2



1 UPPER LEVEL KEY PLAN
SCALE: 1/16" = 1'-0"

LEGEND

- | | |
|---|---------------------------------|
|  | (E) WALL TO REMAIN |
|  | (N) WALL |
|  | 1 HR. FIRE WALL |
| ROOM NAME | |
|  | ROOM IDENTIFICATION |
| OCCUPANCY TYPE | |
|  | WINDOW NUMBER |
|  | DOOR NUMBER |
|  | PARTITION TYPE
REFER TO A5.4 |

GENERAL NOTES

REFERENCES

1. REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O.
2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
3. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
5. INSTALL WINDOWS PER SCHEDULE ON A6.0
6. INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0

NOTES

1. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. EXTERIOR DIMENSIONS ARE TO FACE OF STRUCTURAL SHEATHING, SLAB EDGE, OR CENTERLINE OF STRUCTURE U.N.O.
3. INTERIOR DIMENSIONS ARE TO FACE OF STUD, U.N.O.
4. DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF OPENINGS, U.N.O.
5. ALL ANGLED WALLS TO BE SET AT 45 DEGREES U.N.O.
6. SET JAMB AT HINGE SIDE OF DOORS AS FOLLOWS: EXTERIOR DOORS @ 4.5" U.N.O.; INTERIOR DOORS @ 4.5" U.N.O.
7. PROVIDE MINIMUM LEVEL LANDINGS OUTSIDE ALL EXTERIOR DOORS PER CBC 1010.1.6. DIMENSIONS AND MAXIMUM THRESHOLD HEIGHTS TO COMPLY WITH CBC ACCESSIBILITY REQUIREMENTS (CBC CH. 11B). LANDINGS SHALL SLOPE 1/4"/FT MAXIMUM AWAY FROM DOORS.
8. SAFETY GLAZING: ALL GLASS IN DOORS, ADJACENT TO DOORS, IN HAZARDOUS LOCATIONS, OR WITHIN 24 IN. OF A DOOR EDGE OR 60 IN. OF A WET SURFACE SHALL BE TEMPERED OR LAMINATED SAFETY GLASS PER CBC 2406.
9. BATHROOM AND TOILET ROOM FLOORS TO HAVE SLIP-RESISTANT SURFACE PER CBC 1210.2.2.
10. SHOWER RECEPTORS TO HAVE LINERS SLOPED TO DRAIN AT 1/4"/FT MIN. PER CPC 408.7.
11. GUARDS SHALL BE 42 IN. MINIMUM IN HEIGHT; OPENINGS SHALL NOT ALLOW PASSAGE OF A 4-IN. DIAMETER SPHERE PER CBC 1015.4.
12. PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER CBC 718.
13. ACCESSIBLE ROUTES, DOORS, AND CLEARANCES SHALL COMPLY WITH CBC CH. 11B (ADA SCOPING).
14. INTERIOR NON-RATED PARTITIONS SHALL EXTEND ABOVE T-BAR CEILINGS U.N.O. RATED WALLS, SHAFT WALLS, AND SOUND-ATTENUATED WALLS SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.
15. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
16. PROVIDE SOUND ATTENUATION INSULATION AT TOILET ROOMS, MECHANICAL ROOMS, AND AS INDICATED ON DRAWINGS.
17. SMOKE DETECTORS, ALARMS, AND EXIT SIGNS SHALL BE PROVIDED PER CBC 907 & 1013 AND COORDINATED WITH ELECTRICAL DRAWINGS.
18. SIGNAGE TO COMPLY WITH CBC 11B-703 (TACTILE & VISUAL).

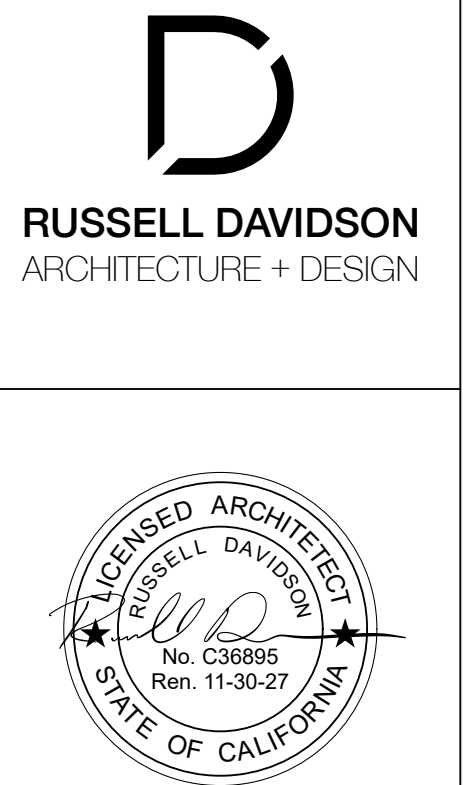
KEYNOTES

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BUREAU VERITAS NORTH AMERICA, INC.

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1	REV 1	7/11/26
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NEW 2ND FLOOR
OVERALL PLAN

A1.3



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

 WALL BELOW
 3" DOWNSPOUT
 NEW ROOF AREA
 UNVENTED ROOF AREA

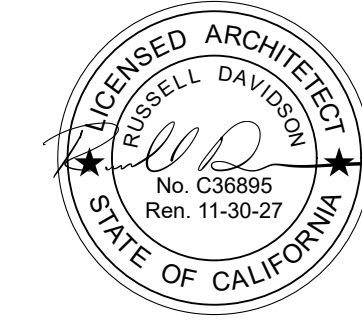
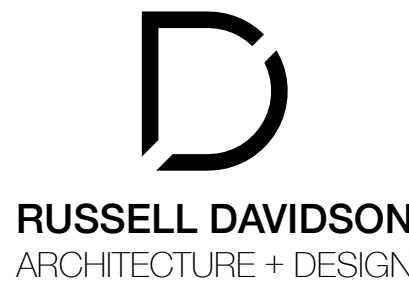
1. ALL ROOF COVERING SHALL BE CLASS "A" FIRE-RESISTANT ROOFING COMPLYING WITH CBC 1505.1.
2. ALL ROOFING WORK SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS TO MAINTAIN WARRANTY COVERAGE.
3. ALL ROOF AND DECK SURFACES SHALL SLOPE AT 1/4" PER FOOT MINIMUM, U.O.N. (VERIFY CBC MINIMUM SLOPE REQUIREMENTS).
4. PROVIDE ROOF WALK PADS AT MECHANICAL UNITS AND ALONG SERVICE PATHS TO PREVENT MEMBRANE DAMAGE.

1. PROVIDE 1/2" EXT-GRADE SHEATHING OVER 2X CRICKETING AT 16" O.C., SLOPED TO DRAIN 1/4" PER FOOT MIN. OVER 5/8" STRUCTURAL PLYWOOD SHEATHING WITH INTEGRAL RADIANT BARRIER AT ALL CHIMNEYS, MECHANICAL EQUIPMENT, AND OTHER LOCATIONS AS REQUIRED FOR POSITIVE DRAINAGE.
2. FLASH AND SEAL ALL ROOF PENETRATIONS (VENTS, FANS, HOODS, ETC.) FOR A WATER-TIGHT INSTALLATION.
3. IN ROOF COVERINGS WHERE THE PROFILE CREATES A SPACE BETWEEN THE ROOF COVERING AND THE ROOF DECK, PROVIDE ONE OF THE FOLLOWING AT EAVE ENDS:
 - A. FIRE-STOPPING WITH APPROVED MATERIALS
ONE LAYER OF 72-LB MINERAL-SURFACED, NON-PERFORATED, CAP SHEET PER ASTM D3989
 - C. OTTERUSSE CONSTRUCTED TO PREVENT
INTRUSION OF FLAMES AND EMBERS

- EXP. EXPOSED VALLEY FLASHINGS SHALL BE MIN. 0.019-INCH (NO. 26 GAGE) CORROSION-RESISTANT METAL OVER A 36-IN. WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF ASTM D3909 CAP SHEET, FULL LENGTH OF THE VALLEY.
5. PROVIDE GUTTER GUARDS OR EQUIVALENT TO PREVENT LEAF AND DEBRIS ACCUMULATION.
6. SKYLIGHTS SHALL BE SAFETY-GLAZED (TEMPERED OR LAMINATED) PER CBC 2405.5.
7. ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC.) SHALL RESIST FLAME AND EMBER INTRUSION.
8. VENTILATION OPENINGS IN ATTICS, SOFFITS, RAFTER SPACES, AND UNDERFLOORS SHALL COMPLY WITH ASTM E2886 AND MEET ALL OF THE FOLLOWING:
 - A. NO FLAMING IGNITION OF COTTON MATERIAL DURING EMBER INTRUSION TEST
 - B. NO FLAMING IGNITION DURING FLAME INTRUSION TEST
 - C. MAXIMUM TEMPERATURE OF UNEXPOSED SIDE SHALL NOT EXCEED 862°F (350°C)
9. PROVIDE INDEPENDENTLY PIPED OVERFLOW DRAINS OR SCUPPERS AT ALL ROOF DRAIN LOCATIONS AS REQUIRED PER CBC 1503.4.
10. PROVIDE CLEANOUTS PER CPC REQUIREMENTS.
11. ALL SHEET METAL FLASHING AND TRIM SHALL BE GALVANIZED SHEET METAL (G.S.M.) PER SMACNA STANDARDS.
12. ENCLOSED RAFTER SPACES SHALL HAVE MIN. 1-IN. CLEAR CROSS VENTILATION.
13. ROOF DRAIN AND OVERFLOW DRAIN TO BE 3" DIA. INTERNAL DRAIN (U.O.N.). CONNECT ALL RAINWATER LEADERS TO SOLID DRAIN LINES SEE CIVIL DRAWINGS. SLOPE HORIZONTAL SECTIONS 1/4" PER FOOT MIN.
14. PROVIDE BASKET DEBRIS SCREENS AT ALL ROOF AND OVERFLOW DRAINS.
15. TEST ALL ROOF & OVERFLOW DRAINS WITH WATER PRIOR TO CONCEALMENT. PROVIDE CLEANOUT AT TRANSITION TO HORIZONTAL STORM DRAIN SYSTEM PER CBC 1101.12.
16. PROVIDE SELF-ADHERED UNDERLAYMENT AT EAVES, VALLEYS, AND PENETRATIONS WHERE REQUIRED BY CBC 1507 AND LOCAL AMENDMENTS.
17. PROVIDE ROOF ACCESS HATCH, LADDER, AND/OR PERMANENT FALL PROTECTION ANCHORS AS REQUIRED BY CBC, OSHA, AND PROJECT REQUIREMENTS.
18. ALL MECHANICAL UNITS, SKYLIGHTS, AND ROOF PENETRATIONS SHALL BE INSTALLED ON CURBS WITH MIN. 8" FINISHING HEIGHT ABOVE FINISHED ROOF PER CBC 1503.6.
19. CONTRACTOR SHALL COORDINATE ROOFING MANUFACTURER'S FIELD INSPECTION AND PROVIDE DOCUMENTATION OF ACCEPTANCE PRIOR TO FINAL APPROVAL.
20. PROVIDE FIRE-RESISTANT PARAPET CONSTRUCTION AT ADJOINING BUILDING WALLS PER CBC 705.11, WHERE APPLICABLE.

2.03	EXISTING PARAPET WALL
2.04	EXISTING EQUIPMENT SCREENING TO REMAIN
2.41	EXISTING MECHANICAL UNIT
2.80	EXISTING METAL ROOF
7.30	METAL GUTTER + DOWNSPOUT
23.10	NEW ROOFTOP UNIT W/ ECONOMIZER

REVIEWED FOR CODE COMPLIANCE
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BUREAU VERITAS NORTH AMERICA, INC.



N.I.D. HYDRO OFFICE RENOVATION

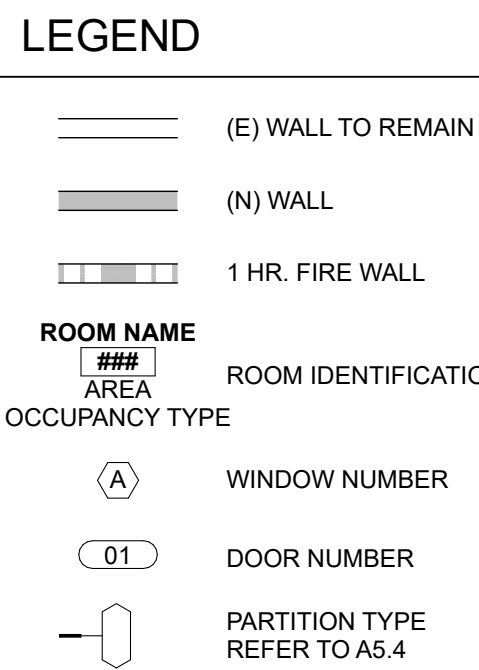
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

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ROOF PLAN

A1.4



REFERENCES

1. REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A46 U.N.O.
 2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
 3. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
 4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
 5. INSTALL WINDOWS PER SCHEDULE ON A6.0
 6. INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0
- NOTES**
1. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 2. EXTERIOR DIMENSIONS ARE TO FACE OF STUD, SLAB EDGE, OR CENTERLINE OF STRUCTURE U.N.O.
 3. INTERIOR DIMENSIONS ARE TO FACE OF STUD, U.N.O.
 4. DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF OPENINGS, U.N.O.
 5. ALL ANGLED WALLS TO BE SET AT 45 DEGREES U.N.O.
 6. SET JAMB AT HINGE SIDE OF DOORS AS FOLLOWS: EXTERIOR DOORS @ 4.5" U.N.O.; INTERIOR DOORS @ 4.5" U.N.O.
 7. PROVIDE MINIMUM LEVEL LANDINGS OUTSIDE ALL EXTERIOR DOORS PER CBC 1010.1.6. DIMENSIONS AND MAXIMUM THRESHOLD HEIGHTS TO COMPLY WITH CBC ACCESSIBILITY REQUIREMENTS (CBC CH. 11B). LANDINGS SHALL SLOPE 1/4"/FT MAXIMUM AWAY FROM DOORS.
 8. SAFETY GLAZING: ALL GLASS IN DOORS, ADJACENT TO DOORS, IN HAZARDOUS LOCATIONS, OR WITHIN 24 IN. OF A DOOR EDGE OR 60 IN. OF A WET SURFACE SHALL BE TEMPERED OR LAMINATED SAFETY GLASS PER CBC 2406.
 9. BATHROOM AND TOILET ROOM FLOORS TO HAVE SLIP-RESISTANT SURFACE PER CBC 1210.2.2.
 10. SHOWER RECEPTORS TO HAVE LINERS SLOPED TO DRAIN AT 1/4"/FT MIN. PER CPC 408.7.
 11. GUARDS SHALL BE 42 IN. MINIMUM IN HEIGHT; OPENINGS SHALL NOT ALLOW PASSAGE OF 4-IN. DIAMETER SPHERE PER CBC 1015.4.
 12. PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER CBC 718.
 13. ACCESSIBLE ROUTES, DOORS, AND CLEARANCES SHALL COMPLY WITH CBC CH. 11B (ADA SCOPING).
 14. INTERIOR NON-RATED PARTITIONS SHALL EXTEND ABOVE T-BAR OPENING, 80-INCH MINIMUM CLEAR HEIGHT, AND COMPLY WITH ALL ATTENUATED WALLS SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.
 15. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
 16. PROVIDE SOUND ATTENUATION INSULATION AT TOILET ROOMS, MECHANICAL ROOMS, AND AS INDICATED ON DRAWINGS.
 17. SMOKE DETECTORS, ALARMS, AND EXIT SIGNS SHALL BE PROVIDED PER CBC 907 & 1013 AND COORDINATED WITH ELECTRICAL DRAWINGS.
 18. SIGNAGE TO COMPLY WITH CBC 11B-703 (TACTILE & VISUAL).
 19. UNLESS NOTED OTHERWISE, UNTAGGED DOORS ARE EXISTING TO REMAIN. ALL TAGGED DOORS ARE NEW UNLESS SPECIFICALLY IDENTIFIED AS EXISTING.
 20. ALL NEW DOORS SHALL PROVIDE A MINIMUM 32-INCH CLEAR OPENING, 80-INCH MINIMUM CLEAR HEIGHT, AND COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CBC CHAPTER 10 AND CBC CHAPTER 11B FOR ACCESSIBILITY.

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BUREAU VERITAS NORTH AMERICA, INC.

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1ST FLOOR PLAN
- VIEW A

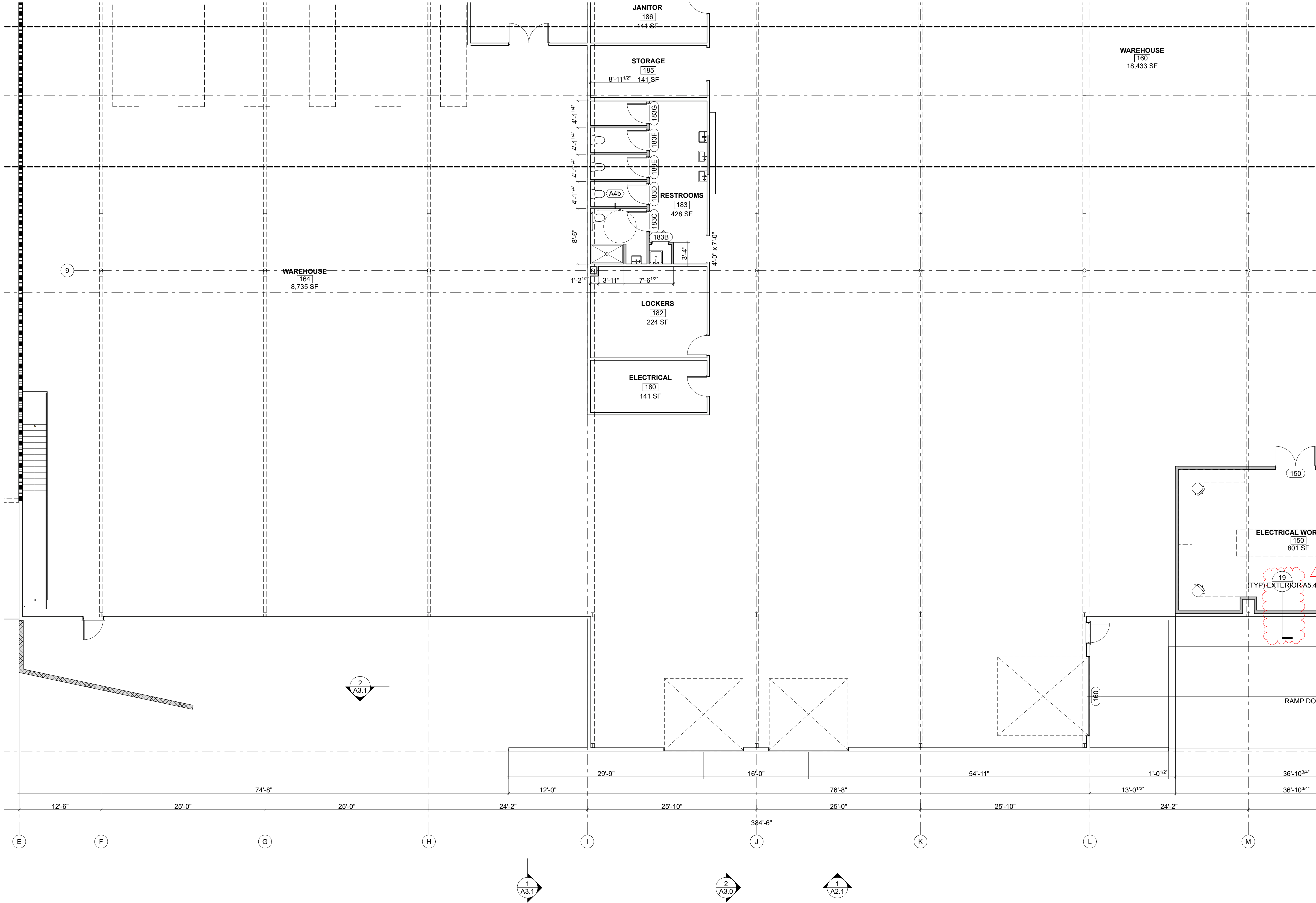
A1.5



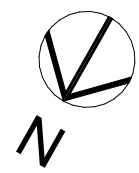
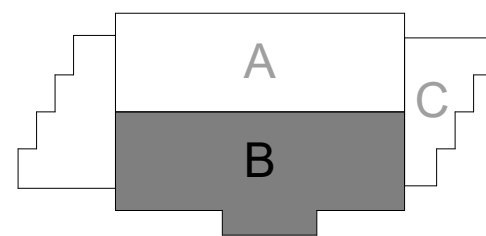
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
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1 MAIN LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"



LEGEND

- (E) WALL TO REMAIN
(N) WALL
1 HR. FIRE WALL
- ROOM NAME**
[###]
AREA
OCCUPANCY TYPE
- (A) WINDOW NUMBER
(01) DOOR NUMBER
PARTITION TYPE
REFER TO A5.4

GENERAL NOTES

REFERENCES

- REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4b U.N.O.
- REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
- REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
- REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
- INSTALL WINDOWS PER SCHEDULE ON A6.0
- INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0

NOTES

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- EXTERIOR DIMENSIONS ARE TO FACE OF STUD, SLAB EDGE, OR CENTERLINE OF STRUCTURE U.N.O.
- INTERIOR DIMENSIONS ARE TO FACE OF STUD, U.N.O.
- DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF OPENINGS, U.N.O.
- ALL ANGLED WALLS TO BE SET AT 45 DEGREES U.N.O.
- SET JAMB AT HINGE SIDE OF DOORS AS FOLLOWS: EXTERIOR DOORS @ 4.5" U.N.O.; INTERIOR DOORS @ 4.5" U.N.O.
- PROVIDE MINIMUM LEVEL LANDINGS OUTSIDE ALL EXTERIOR DOORS PER CBC 1010.1.6. DIMENSIONS AND MAXIMUM THRESHOLD HEIGHTS TO COMPLY WITH CBC ACCESSIBILITY REQUIREMENTS (CBC CH. 11B). LANDINGS SHALL SLOPE 1/4" FT MAXIMUM AWAY FROM DOORS.
- SAFETY GLAZING: ALL GLASS IN DOORS, ADJACENT TO DOORS, IN HAZARDOUS LOCATIONS, OR WITHIN 24 IN. OF A DOOR EDGE OR 60 IN. OF A WET SURFACE SHALL BE TEMPERED OR LAMINATED SAFETY GLASS PER CBC 2406.
- BATHROOM AND TOILET ROOM FLOORS TO HAVE SLIP-RESISTANT SURFACE PER CBC 1210.2.2.
- SHOWER RECEPTORS TO HAVE LINERS SLOPED TO DRAIN AT 1/4" FT MIN. PER CPC 408.7.
- GUARDS SHALL BE 42 IN. MINIMUM IN HEIGHT; OPENINGS SHALL NOT ALLOW PASSAGE OF A 4-IN. DIAMETER SPHERE PER CBC 1015.4.
- PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER CBC 718.
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- SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
- PROVIDE SOUND ATTENUATION INSULATION AT TOILET ROOMS, MECHANICAL ROOMS, AND AS INDICATED ON DRAWINGS.
- SMOKE DETECTORS, ALARMS, AND EXIT SIGNS SHALL BE PROVIDED PER CBC 907 & 1013 AND COORDINATED WITH ELECTRICAL DRAWINGS.
- SIGNAGE TO COMPLY WITH CBC 11B-703 (TACTILE & VISUAL).
- UNLESS NOTED OTHERWISE, UNTAGGED DOORS ARE EXISTING TO REMAIN. ALL TAGGED DOORS ARE NEW UNLESS SPECIFICALLY IDENTIFIED AS EXISTING.
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KEYNOTES

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1ST FLOOR PLAN
- VIEW B

A1.6

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

B

5



148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

SUBMITTED:	03/20/2026
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A1.7



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

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



 (E) WALL TO REMAIN
 (N) WALL
 1 HR. FIRE WALL

ROOM NAME
ROOM IDENTIFICATION
AREA
OCCUPANCY TYPE

 WINDOW NUMBER

01 DOOR NUMBER

 PARTITION TYPE 1
REFER TO A5.4

REFERENCES

1. REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4b U.N.O.
2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
3. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
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3. INTERIOR DIMENSIONS ARE TO FACE OF STUD, U.N.O.
4. DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF OPENINGS, U.N.O.
5. ALL ANGLED WALLS TO BE SET AT 45 DEGREES U.N.O.
6. SET JAMB AT HINGE SIDE OF DOORS AS FOLLOWS: EXTERIOR DOORS @ 4.5" U.N.O.; INTERIOR DOORS @ 4.5" U.N.O.
7. PROVIDE MINIMUM LEVEL LANDINGS OUTSIDE ALL EXTERIOR DOORS PER CBC 1010 1.6. DIMENSIONS AND MAXIMUM THRESHOLD HEIGHTS TO COMPLY WITH CBC ACCESSIBILITY REQUIREMENTS (CBC CH. 11B). LANDINGS SHALL SLOPE 1/4"/FT MAXIMUM AWAY FROM DOORS.
8. SAFETY GLAZING: ALL GLASS IN DOORS, ADJACENT TO DOORS, IN HAZARDOUS LOCATIONS, OR WITHIN 24 IN. OF A DOOR EDGE OR 60 IN. OF A WET SURFACE SHALL BE TEMPERED OR LAMINATED SAFETY GLASS PER CBC 2406.
9. BATHROOM AND TOILET ROOM FLOORS TO HAVE SLIP-RESISTANT SURFACE PER CBC 1210 2.2.
10. SHOWER RECEPTORS TO HAVE LINERS SLOPED TO DRAIN AT 1/4"/FT MIN. PER CPC 408.7.
11. GUARDS SHALL BE 42 IN. MINIMUM IN HEIGHT; OPENINGS SHALL NOT ALLOW PASSAGE OF 4-IN. DIAMETER SPHERE PER CBC 1015.4.
12. PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN CONCEALED SPACES PER CBC 718.
13. ACCESSIBLE ROOMS, DOORS, AND CLEARANCES SHALL COMPLY WITH CBC CH. 11B (ADA SCOPING).
14. INTERIOR NON-RATED PARTITIONS SHALL EXTEND ABOVE T-BAR CEILINGS U.N.O. RATED WALLS, SHAFIT WALLS AND SOUND-ATTENUATED WALLS SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.
15. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
16. PROVIDE SOUND ATTENUATION INSULATION AT TOILET ROOMS, MECHANICAL ROOMS, AND AS INDICATED ON DRAWINGS.
17. SMOKE DETECTORS, ALARMS, AND EXIT SIGNS SHALL BE PROVIDED PER CBC 907 & 1013 AND COORDINATED WITH ELECTRICAL DRAWINGS.
18. SIGNAGE TO COMPLY WITH CBC 11B-703 (TACTILE & VISUAL).
19. UNLESS NOTED OTHERWISE, UNTAGGED DOORS ARE EXISTING TO REMAIN. ALL TAGGED DOORS ARE NEW UNLESS SPECIFICALLY IDENTIFIED AS EXISTING.
20. ALL NEW DOORS SHALL PROVIDE A MINIMUM 32-INCH CLEAR OPENING, 80-INCH MINIMUM CLEAR HEIGHT, AND COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CBC CHAPTER 10 AND CBC CHAPTER 11B FOR ACCESSIBILITY.

KEYNOTES

ID	NAME	DATE
1	REV 1	7/11/26
2	REV 2	8/5/26

SUBMITTED:	03/20/2026
SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

2ND FLOOR PLAN
- VIEW C

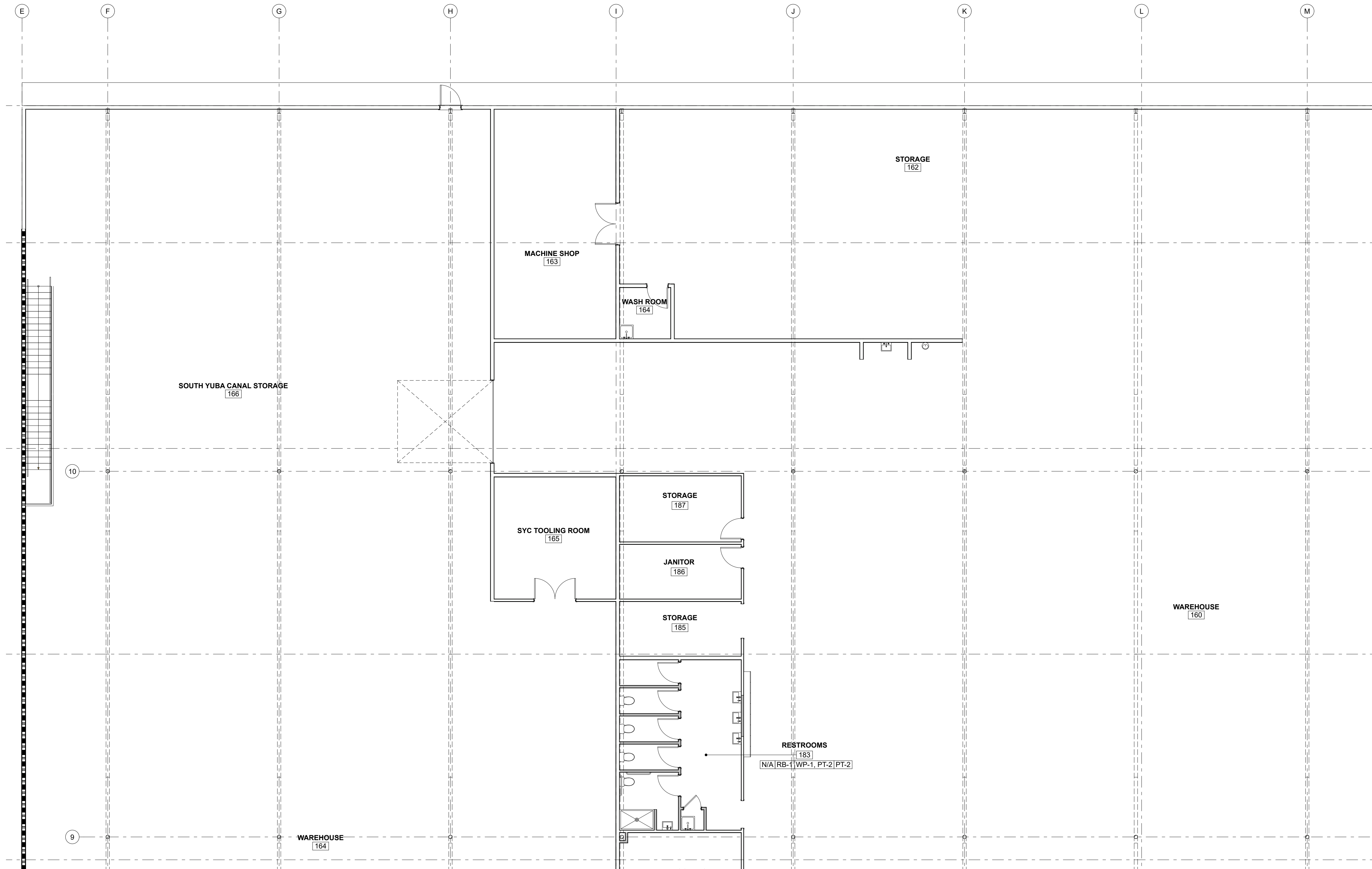
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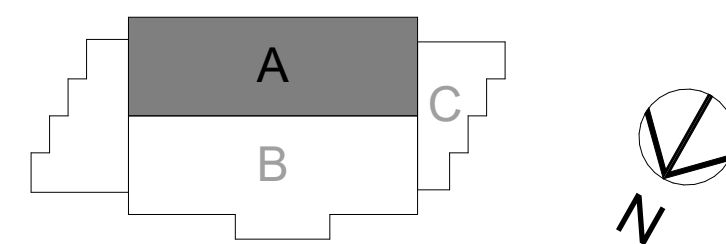
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



1 MAIN LEVEL FINISH PLAN
SCALE: 1/8" = 1'-0"



LEGEND

- | | |
|---|---------------------------------|
|  | (E) WALL TO REMAIN |
|  | (N) WALL |
|  | 1 HR. FIRE WALL |
| ROOM NAME | |
|  | ROOM IDENTIFICATION |
| AREA | |
| OCCUPANCY TYPE | |
|  | WINDOW NUMBER |
|  | DOOR NUMBER |
|  | PARTITION TYPE
REFER TO A5.4 |

GENERAL NOTES

1. FLOOR FINISH PLANS ARE DIAGRAMMATIC; REFER TO FINISH SCHEDULE, LEGEND, AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY ALL FLOOR CONDITIONS AND SUBSTRATES PRIOR TO INSTALLATION OF NEW FINISHES.
3. PROVIDE TRANSITIONS, REDUCERS, AND EDGE TRIMS AT ALL CHANGES IN FLOOR FINISH MATERIALS AND AT TERMINATIONS.
4. PROVIDE MOISTURE TREATMENT OF SLABS PRIOR TO INSTALLATION OF RESILIENT, WOOD, OR CARPET FLOORING. COMPLY WITH MANUFACTURER'S REQUIREMENTS.
5. PROVIDE SLIP-RESISTANT FLOOR FINISHES IN RESTROOMS, LOCKER ROOMS, AND OTHER WET AREAS PER CBC 1210.2.2.
6. ALL FLOOR FINISH MATERIALS SHALL COMPLY WITH CBC CH. 8 INTERIOR FINISH REQUIREMENTS, INCLUDING FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS.
7. PROVIDE WATERPROOF MEMBRANE AT FLOORS IN TOILET ROOMS, SHOWERS, AND OTHER WET AREAS WHERE REQUIRED.
8. CONTINUE FLOOR FINISH MATERIALS INTO DOOR RECESSES AND TO CENTERLINE OF PARTITIONS U.N.O.
9. PROVIDE SOUND ATTENUATION UNDERLAYMENT AT FLOORS ABOVE OCCUPIED SPACES WHERE REQUIRED TO MEET CBC ACOUSTICAL REQUIREMENTS (IIC AND STC RATINGS).
10. COORDINATE FLOOR FINISHES WITH DOOR CLEARANCES, THRESHOLDS, AND ACCESSIBILITY REQUIREMENTS PER CBC CH. 11B.
11. COORDINATE FLOOR FINISH LOCATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL PENETRATIONS.
12. PROVIDE CLEANING, SEALING, AND PROTECTION OF FINISH FLOORS UNTIL FINAL ACCEPTANCE.

FINISH LEGEND

BASE

RB-1	
MANUFACTURER:	ROPPE
COLOR:	150 DARK GRAY
TYPE:	COVED RUBBER BASE
HEIGHT:	4"
LOCATION:	THROUGHOUT, UON

PAINT

PT-1
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: EGGSHELL, UON

PT-2
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: SEMI-GLOSS, UON

PLASTIC LAMINATE

PL-1
MANUFACTURER: WILSONART
COLOR: ESSENTIAL RECON
FINISH: VELVET
LOCATION: THROUGHOUT, UON

PL-2	
MANUFACTURER:	WILSONART
COLOR:	BLACK VELVET
FINISH:	VELVET
LOCATION:	RECEPTION

SOLID SURFACE

SS-1
MANUFACTURER: WILSONART
COLOR: DESIGNER WHITE
LOCATION: BREAKROOM

FRP WALL PROTECTION

WP-1
MANUFACTURER: MARLITE
COLOR: P470N DARK GREY
LOCATION: WAREHOUSE RESTROOMS

WALL TILE

WT-1	
MANUFACTURER:	DALTILE
STYLE:	VOLUME 1.0
COLOR:	STEREO GREY VL73
SIZE:	12" X 24"
INSTALLATION:	STACKED
LOCATION:	RESTROOMS

FLOOR TILE

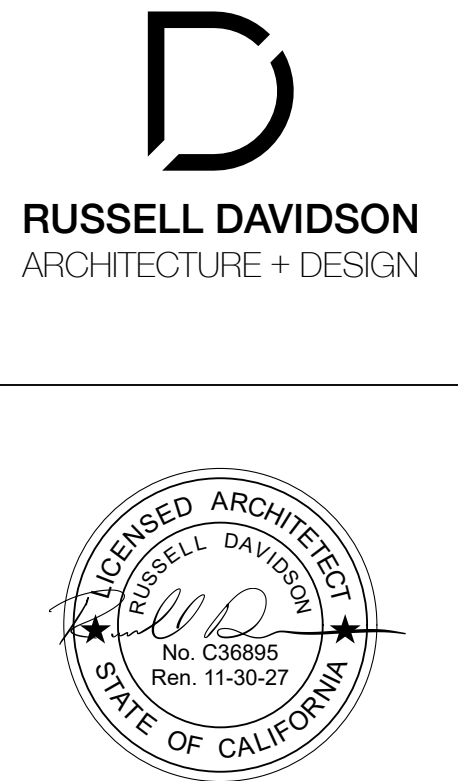
FT-1	
MANUFACTURER:	DALTILE
STYLE:	VOLUME 1.0
COLOR:	THUNDER VLG
SIZE:	12" X 24"
INSTALLATION:	STACKED
LOCATION:	RESTROOMS

CARPET TILE

CT-1	
MANUFACTURER:	MOHAWK
STYLE:	NATURAL NETWORKS BT597
COLOR:	959 PEPPER CORN
SIZE:	24" X 24"
LOCATION:	THROUGHOUT, UON

LUXURY VINYL PLANK

LV-1
MANUFACTURER: SHAW CONTRACT
STYLE: BRANCHING OUT
COLOR: ZION OAK 4309V
SIZE: 7" X 48"
LOCATION: BREAKROOM, RESTROOM VESTIBULE



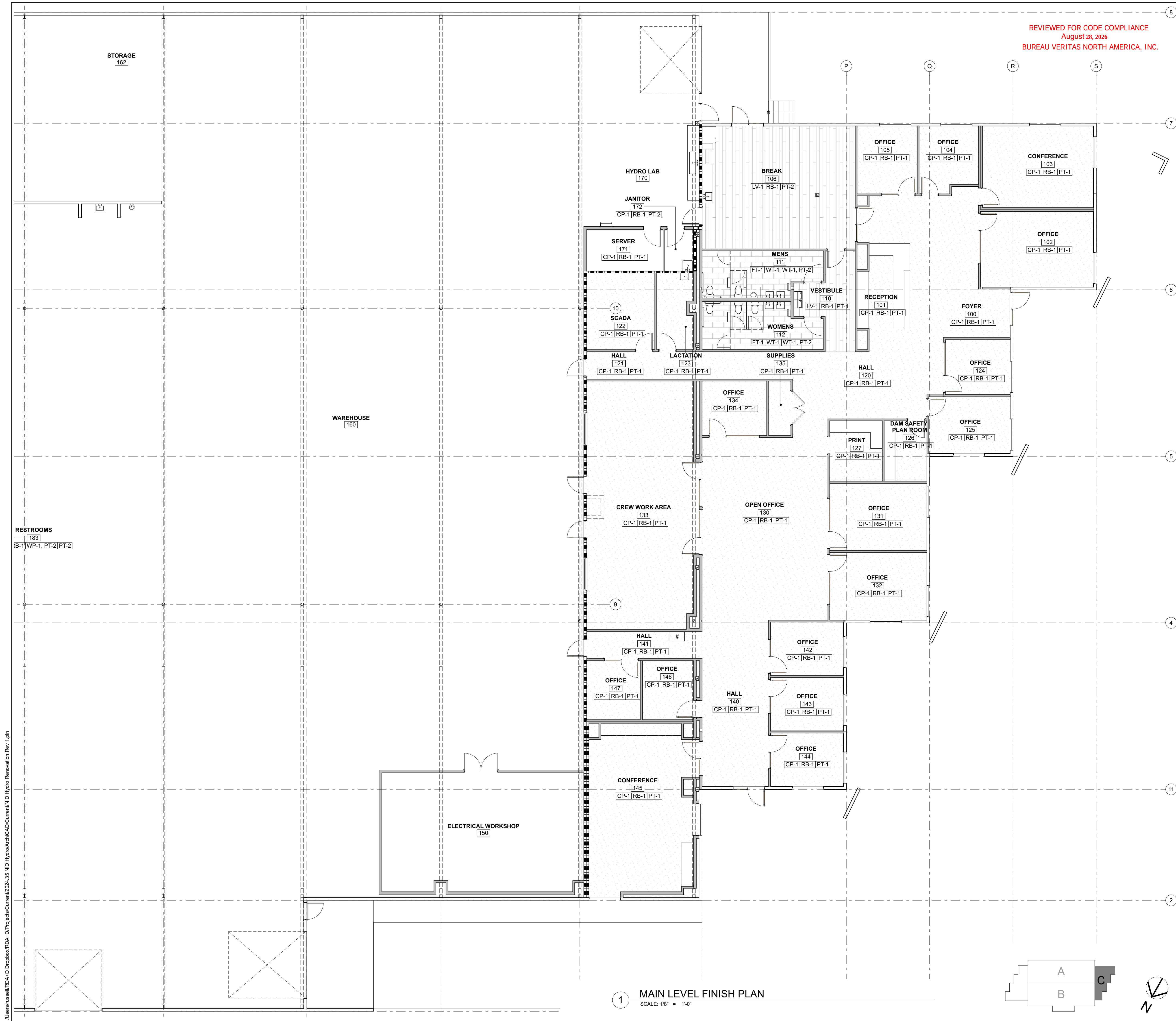
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

1ST FLOOR
FINISH PLAN -
VIEW A

A1.9



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

LEGEND

-  (E) WALL TO REMAIN
 (N) WALL
 1 HR. FIRE WALL

ROOM NAME
 ### ROOM IDENTIFICATION
 AREA
 OCCUPANCY TYPE

- | | |
|---|---------------------------------|
|  | WINDOW NUMBER |
|  | DOOR NUMBER |
|  | PARTITION TYPE
REFER TO A5.4 |

GENERAL NOTES

1. FLOOR FINISH PLANS ARE DIAGRAMMATIC; REFER TO FINISH SCHEDULE, LEGEND, AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY ALL FLOOR CONDITIONS AND SUBSTRATES PRIOR TO INSTALLATION OF NEW FINISHES.
3. PROVIDE TRANSITIONS, REDUCERS, AND EDGE TRIMS AT ALL CHANGES IN FLOOR FINISH MATERIALS AND AT TERMINATIONS.
4. PROVIDE MOISTURE TREATMENT OF SLABS PRIOR TO INSTALLATION OF RESILIENT, WOOD, OR CARPET FLOORING. COMPLY WITH MANUFACTURER'S REQUIREMENTS.
5. PROVIDE SLIP-RESISTANT FLOOR FINISHES IN RESTROOMS, LOCKER ROOMS, AND OTHER WET AREAS PER CBC 1210.2.2.
6. ALL FLOOR FINISH MATERIALS SHALL COMPLY WITH CBC CH. 8 INTERIOR FINISH REQUIREMENTS, INCLUDING FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS.
7. PROVIDE WATERPROOF MEMBRANE AT FLOORS IN TOILET ROOMS, SHOWERS, AND OTHER WET AREAS WHERE REQUIRED.
8. CONTINUE FLOOR FINISH MATERIALS INTO DOOR RECESSES AND TO CENTERLINE OF PARTITIONS U.N.O.
9. PROVIDE SOUND ATTENUATION UNDERLAYMENT AT FLOORS ABOVE OCCUPIED SPACES WHERE REQUIRED TO MEET CBC ACOUSTICAL REQUIREMENTS (IIC AND STC RATINGS).
10. COORDINATE FLOOR FINISHES WITH DOOR CLEARANCES, THRESHOLDS, AND ACCESSIBILITY REQUIREMENTS PER CBC CH. 11B.
11. COORDINATE FLOOR FINISH LOCATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL PENETRATIONS.
12. PROVIDE CLEANING, SEALING, AND PROTECTION OF FINISH FLOORS UNTIL FINAL ACCEPTANCE.

FINISH LEGEND

BASE

RB-1	
MANUFACTURER:	ROPPE
COLOR:	150 DARK GRAY
TYPE:	COVERED RUBBER BASE
HEIGHT:	4"
LOCATION:	THROUGHOUT, UON

PAINT

PT-1
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: EGGSHELL, UON

PT-2
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: SEMI-GLOSS, UON

PLASTIC LAMINATE

PL-1
MANUFACTURER: WILSONART
COLOR: ESSENTIAL RECON
FINISH: VELVET
LOCATION: THROUGHOUT, UON

PL-2
MANUFACTURER: WILSONART
COLOR: BLACK VELVET
FINISH: VELVET
LOCATION: RECEPTION

SOLID SURFACE

SS-1
MANUFACTURER: WILSONART
COLOR: DESIGNER WHITE
LOCATION: BREAKROOM

FRP WALL PROTECTION

WP-1
MANUFACTURER: MARLITE
COLOR: P470N DARK GREY
LOCATION: WAREHOUSE RESTROOMS

WALL TILE

WT-1	
MANUFACTURER:	DALTILE
STYLE:	VOLUME 1.0
COLOR:	STEREO GREY VL73
SIZE:	12" X 24"
INSTALLATION:	STACKED
LOCATION:	RESTROOMS

FLOOR TILE

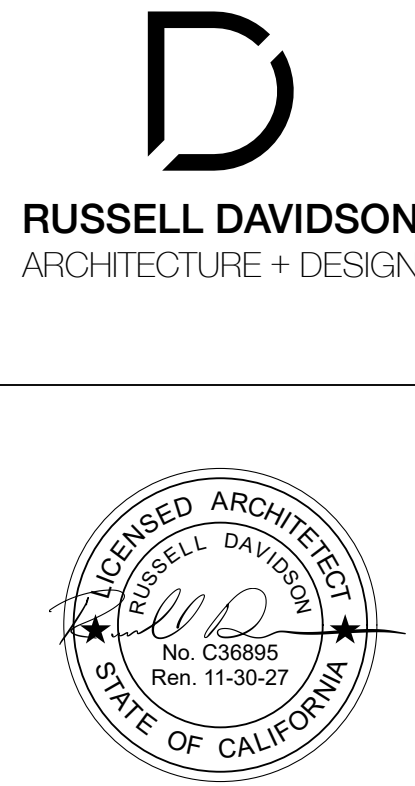
FT-1	
MANUFACTURER:	DALTILE
STYLE:	VOLUME 1.0
COLOR:	THUNDER VL
SIZE:	12" X 24"
INSTALLATION:	STACKED
LOCATION:	RESTROOMS

CARPET TILE

CT-1	
MANUFACTURER:	MOHAWK
STYLE:	NATURAL NETWORKS BT597
COLOR:	959 PEPPERCORN
SIZE:	24" X 24"
LOCATION:	THROUGHOUT, UON

LUXURY VINYL PLANK

LV-1
MANUFACTURER: SHAW CONTRACT
STYLE: BRANCHING OUT
COLOR: ZION OAK 4309V
SIZE: 7" X 48"
LOCATION: BREAKROOM, RESTROOM VESTIBULE



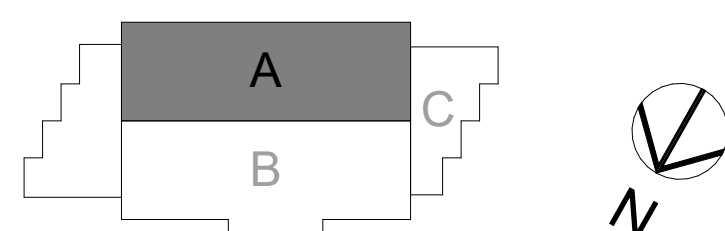
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

1ST FLOOR
FINISH PLAN -
VIEW C

A1.10



1 MAIN LEVEL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LEGEND

-  (E) WALL TO REMAIN
 (N) WALL
 1 HR. FIRE WALL
ROOM NAME
 ROOM IDENTIFICATION
 AREA
 OCCUPANCY TYPE
 WINDOW NUMBER
 DOOR NUMBER
 PARTITION TYPE
 REFER TO A5.4

GENERAL NOTES

REFERENCES

1. REFER TO SHEET AS.2 FOR PARTITION ASSEMBLIES, ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O.
 2. REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
 3. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
 4. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
 5. INSTALL WINDOWS PER SCHEDULE ON A6.0
 6. INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0
- NOTES**
1. COORDINATE ALL CEILING WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND LOW VOLTAGE DRAWINGS.
 2. ALL DIMENSIONS SHOWN ARE TO FACE OF WALL OR COLUMN GRID U.N.O.
 3. CEILING HEIGHTS INDICATED ARE FINISHED CEILING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.). VERIFY ALL HEIGHTS IN FIELD.
 4. SUSPENDED CEILINGS SHALL BE INSTALLED LEVEL WITH MAXIMUM TOLERANCE OF 1/8 INCH IN 10 FEET.
 5. ALL CEILING SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND GYPSUM ASSOCIATION/ASTM REQUIREMENTS.
 6. PROVIDE CEILING ACCESS PANELS AS REQUIRED FOR ACCESS TO MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT. COORDINATE LOCATIONS WITH ENGINEERING DISCIPLINES.
 7. CEILING-MOUNTED FIXTURES, REGISTERS, GRILLES, SPEAKERS, PROJECTORS, EXIT SIGNS, FIRE SPRINKLER HEADS, ETC. SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
 8. MAINTAIN MINIMUM CLEARANCES REQUIRED ABOVE SUSPENDED CEILINGS FOR MECHANICAL AND ELECTRICAL SYSTEMS. VERIFY WITH ENGINEERING DRAWINGS.
 9. FIRE-RATED CEILING ASSEMBLIES SHALL BE CONSTRUCTED TO MAINTAIN THE RATED ASSEMBLY INCLUDING PENETRATIONS, LIGHT FIXTURES, AND ACCESS PANELS.
 10. GYPSUM CEILINGS SHALL BE TYPE "X" WHERE REQUIRED FOR FIRE-RATED CONSTRUCTION.
 11. ALL PENETRATIONS THROUGH FIRE-RATED CEILINGS SHALL BE SEALED WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
 12. REFLECTED CEILING PLAN SYMBOLS AND FIXTURE TYPES SHALL BE COORDINATED WITH LIGHTING AND MECHANICAL SCHEDULES.
 13. CEILINGS IN TOILET ROOMS, LOCKER ROOMS, AND SIMILAR AREAS SHALL BE MOISTURE-RESISTANT GWB OR MOISTURE-RESISTANT ACOUSTICAL TILE.
 14. PROVIDE ACOUSTICAL TILE CEILINGS (ACT) WHERE INDICATED; TILE TO BE MINERAL FIBER WITH NRC 0.70 MINIMUM, CAC 35 MINIMUM, UNLESS NOTED OTHERWISE.
 15. PROVIDE GYPSUM WALLBOARD CEILINGS (GWB) WHERE INDICATED; FINISH LEVEL TO MATCH ADJACENT WALL FINISH.
 16. COORDINATE ALL FIXTURE LOCATIONS WITH REFLECTED CEILING PLAN, FINISH PLAN, AND ELEVATIONS.
 17. PROVIDE SPAYED TILE CUTS CENTERED AT LIGHT FIXTURES AND REGISTERS WHERE NOT ON MODULE.
 18. CONTRACTOR SHALL VERIFY IN FIELD ALL CLEARANCES BETWEEN STRUCTURAL MEMBERS AND SUSPENDED CEILING SYSTEMS.
 19. REFER TO INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL CEILING INFORMATION.
 20. ALL SUSPENDED CEILING SYSTEMS SHALL BE BRACED AND ANCHORED TO STRUCTURAL MEMBERS.

KEYNOTES

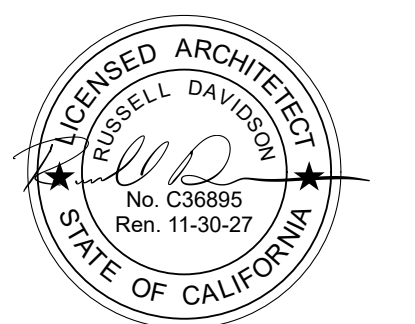
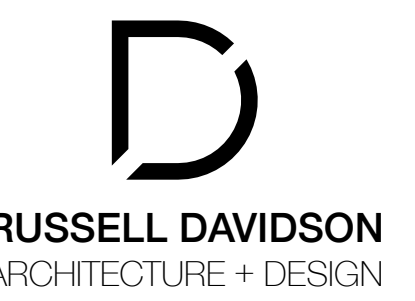
9.20	5/8" GWB CEILING, PAINTED
------	---------------------------

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

1ST FLOOR
REFLECTED
CEILING PLAN -
VIEW A

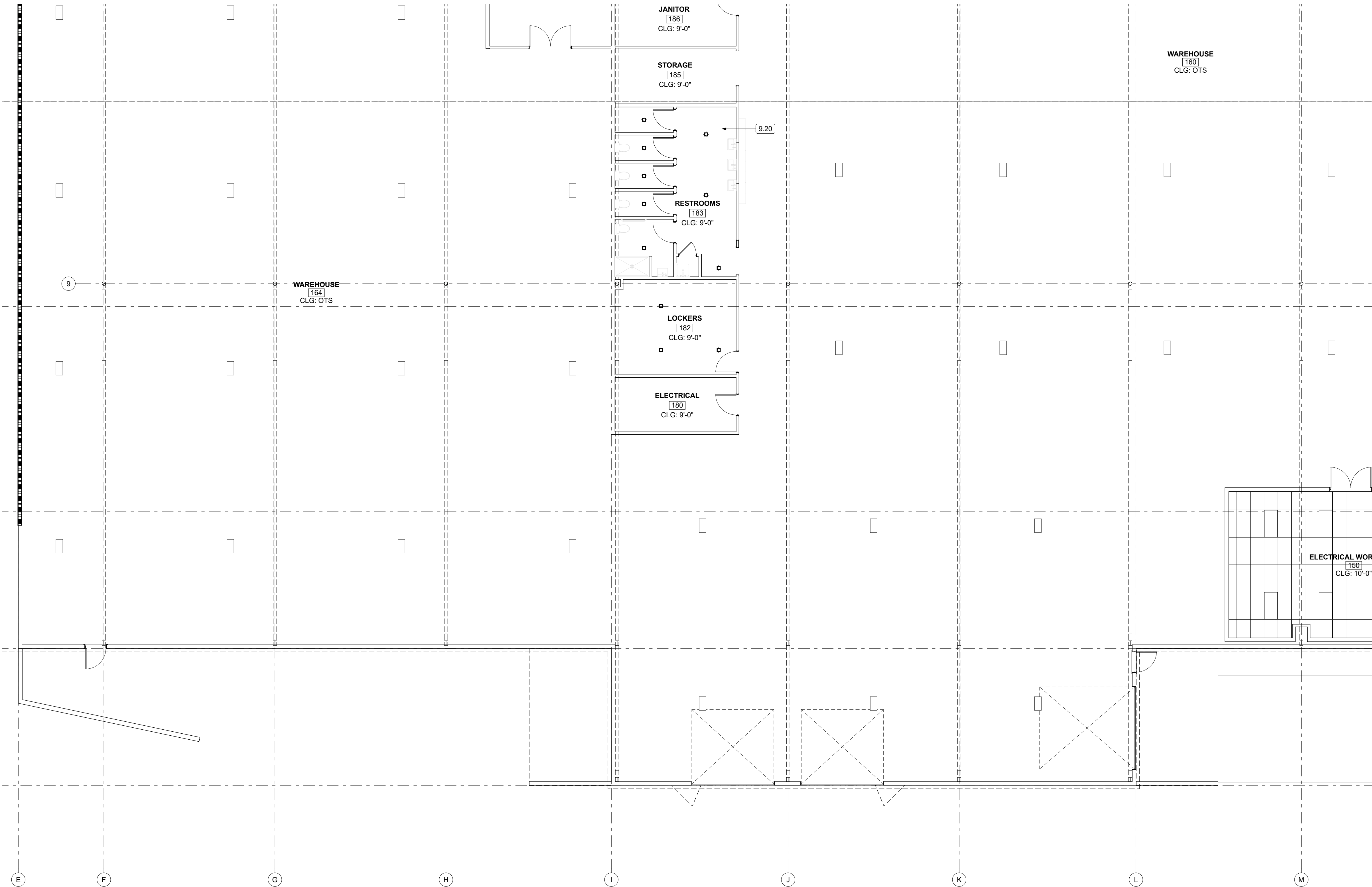
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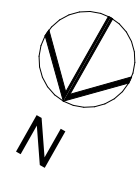
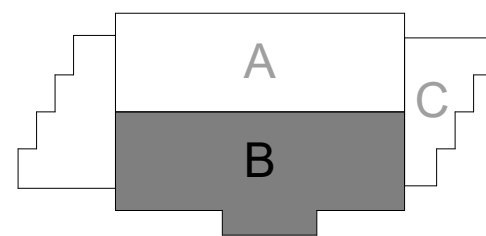
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

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1 MAIN LEVEL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



LEGEND

- (E) WALL TO REMAIN
(N) WALL
1 HR. FIRE WALL
- ROOM NAME**

AREA
OCCUPANCY TYPE
- A WINDOW NUMBER
01 DOOR NUMBER
PARTITION TYPE
REFER TO A5.4

GENERAL NOTES

REFERENCES

- REFER TO SHEET A5.2 FOR PARTITION ASSEMBLIES. ALL EXTERIOR WALLS K6 U.N.O. ALL INTERIOR WALLS A4 U.N.O.
- REFER TO SHEET A6.0 FOR WINDOW & DOOR SCHEDULES.
- REFER TO ENLARGED PLANS FOR ADDITIONAL NOTATION AND DIMENSIONS.
- REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
- INSTALL WINDOWS PER SCHEDULE ON A6.0
- INSTALL INTERIOR AND EXTERIOR DOOR PER SCHEDULE ON A6.0

NOTES

- COORDINATE ALL CEILING WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND LOW VOLTAGE DRAWINGS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF WALL OR COLUMN GRID U.N.O.
- CEILING HEIGHTS INDICATED ARE FINISHED CEILING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.). VERIFY ALL HEIGHTS IN FIELD.
- SUSPENDED CEILINGS SHALL BE INSTALLED LEVEL WITH MAXIMUM TOLERANCE OF 1/8 INCH IN 10 FEET.
- ALL CEILING SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND GYPSUM ASSOCIATION/ASTM REQUIREMENTS.
- PROVIDE CEILING ACCESS PANELS AS REQUIRED FOR ACCESS TO MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT. COORDINATE LOCATIONS WITH ENGINEERING DISCIPLINES.
- CEILING-MOUNTED FIXTURES, REGISTERS, GRILLES, SPEAKERS, PROJECTORS, EXIT SIGNS, FIRE SPRINKLER HEADS, ETC. SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
- MAINTAIN MINIMUM CLEARANCES REQUIRED ABOVE SUSPENDED CEILINGS FOR MECHANICAL AND ELECTRICAL SYSTEMS. VERIFY WITH ENGINEERING DRAWINGS.
- FIRE-RATED CEILING ASSEMBLIES SHALL BE CONSTRUCTED TO MAINTAIN THE RATED ASSEMBLY INCLUDING PENETRATIONS, LIGHT FIXTURES, AND ACCESS PANELS.
- GYPSUM CEILINGS SHALL BE TYPE "X" WHERE REQUIRED FOR FIRE-RATED CONSTRUCTION.
- ALL PENETRATIONS THROUGH FIRE-RATED CEILINGS SHALL BE SEALED WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
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- PROVIDE ACOUSTICAL TILE CEILINGS (ACT) WHERE INDICATED: TILE TO BE MINERAL FIBER WITH NRC 0.70 MINIMUM, CAC 35 MINIMUM, UNLESS NOTED OTHERWISE.
- PROVIDE GYPSUM WALLBOARD CEILINGS (GWB) WHERE INDICATED: FINISH LEVEL TO MATCH ADJACENT WALL FINISH.
- COORDINATE ALL FIXTURE LOCATIONS WITH REFLECTED CEILING PLAN, FINISH PLAN, AND ELEVATIONS.
- PROVIDE SPLAYED TILE CUTS CENTERED AT LIGHT FIXTURES AND REGISTERS WHERE NOT ON MODULE.
- CONTRACTOR SHALL VERIFY IN FIELD ALL CLEARANCES BETWEEN STRUCTURAL MEMBERS AND SUSPENDED CEILING SYSTEMS.
- REFER TO INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL CEILING INFORMATION.
- ALL SUSPENDED CEILING SYSTEMS SHALL BE BRACED AND ANCHORED PER CBC 1613 & ASCE 7 SEISMIC REQUIREMENTS.

KEYNOTES

9.20 5/8" GWB CEILING, PAINTED

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

N.I.D. HYDRO OFFICE RENOVATION

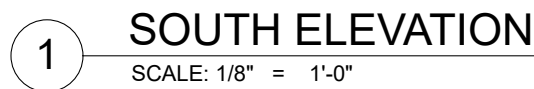
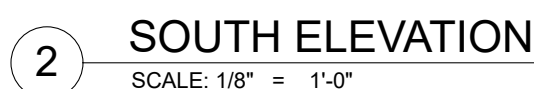
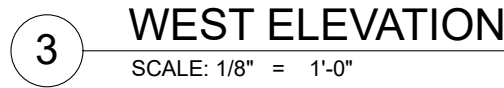
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26

SUBMITTED:	03/20/2026
SCALE:	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

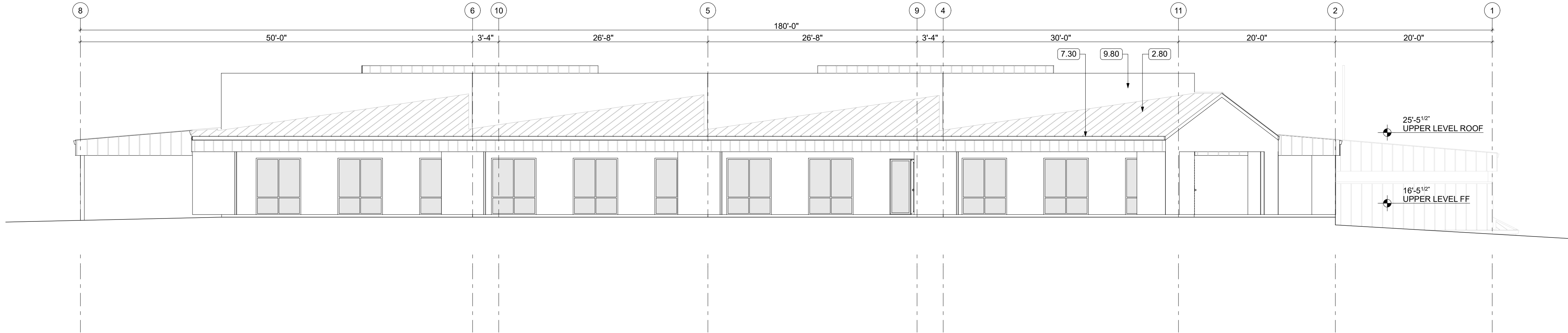
1ST FLOOR
REFLECTED
CEILING PLAN -
VIEW B

A1.12

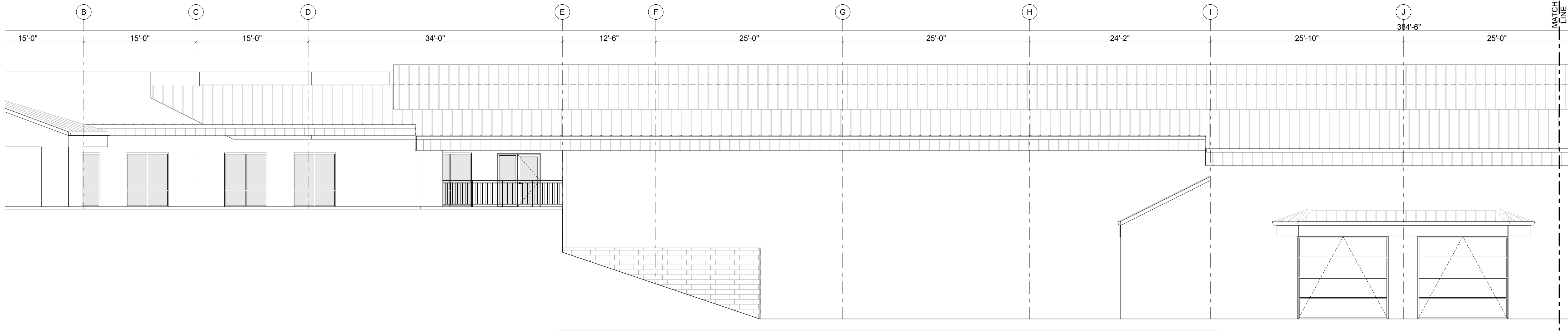


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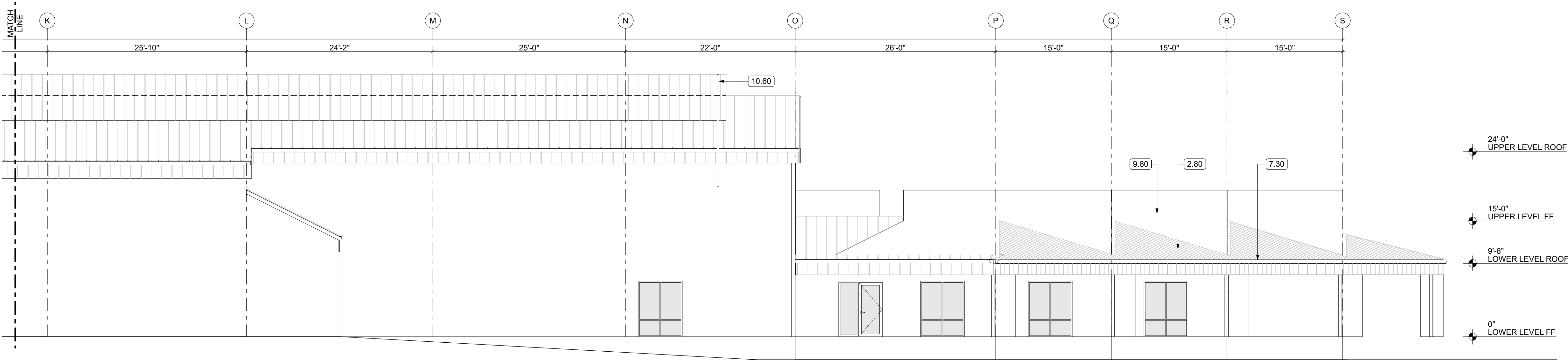
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3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES

REFERENCES:

- REFER TO SHEET A6.0 & A6.1 FOR WINDOW & DOOR SCHEDULES.

NOTES:

- EXTERIOR ELEVATIONS AND BUILDING SECTIONS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED CONSTRUCTION. REFER TO PLANS, DETAILS, AND SCHEDULES FOR COMPLETE REQUIREMENTS.
- DIMENSIONS SHOWN ARE TO FINISH FACE U.N.O. VERIFY ALL DIMENSIONS IN FIELD.
- MATERIAL TRANSITIONS, CONTROL JOINTS, FLASHINGS, WEEP HOLES, AND SEALANTS SHALL BE PROVIDED PER MANUFACTURER'S REQUIREMENTS AND AS DETAILED.
- EXTERIOR WALL ASSEMBLIES SHALL COMPLY WITH CBC CH. 7A WHERE LOCATED IN WUI ZONES. SEE SPECIFICATIONS FOR APPROVED MATERIALS.
- INTERIOR SECTIONS SHALL SHOW DIAGRAMMATIC RELATIONSHIPS ONLY. SEE INTERIOR ELEVATIONS FOR MATERIALS, FINISHES, AND FIXTURE LOCATIONS.
- TOP OF WALL HEIGHTS INDICATED ARE TO FINISH FLOOR U.N.O. VERIFY IN FIELD.
- MASONRY CONTROL JOINTS, EXPANSION JOINTS, AND REINFORCEMENT SHALL BE PROVIDED AS REQUIRED PER STRUCTURAL DRAWINGS.
- PROVIDE SHEET METAL FLASHING AND COUNTERFLASHING AT ALL PARAPETS, PENETRATIONS, AND MATERIAL TRANSITIONS PER SMACNA STANDARDS.
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- ALL PENETRATIONS THROUGH RATED WALLS, FLOORS, AND ROOFS TO BE PROTECTED WITH APPROVED FIRESTOP SYSTEMS PER CBC 714.
- REFER TO DOOR, WINDOW, AND FINISH SCHEDULES FOR COMPLETE INFORMATION NOT SHOWN ON ELEVATIONS.
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KEYNOTES

- 2.80 EXISTING METAL ROOF W/ TPO OVERLAYMENT TO REMAIN
7.30 (E) METAL GUTTER + DOWNSPOUT
9.80 PATCH & REPAIR EXISTING STUCCO; MATCH ADJACENT FINISH
10.60 MICROWAVE ANTENNA, BY OTHERS

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

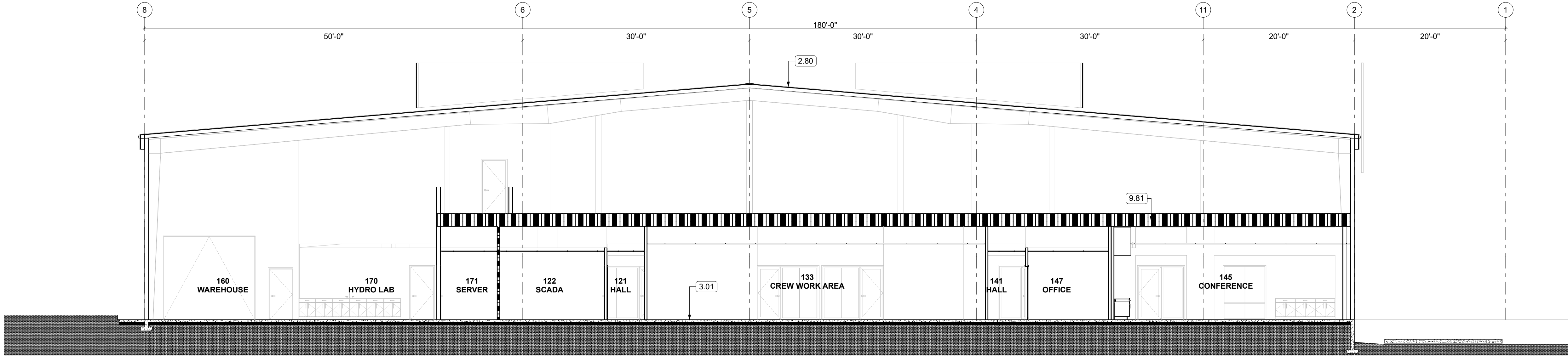
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SUBMITTED:	03/20/2026
SCALE:	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

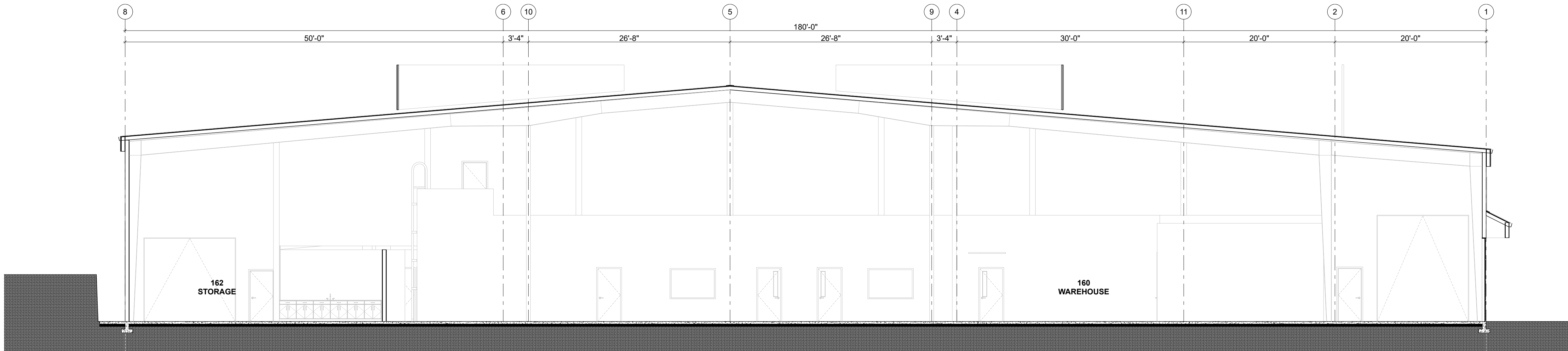
BUILDING
ELEVATIONS

A2.1

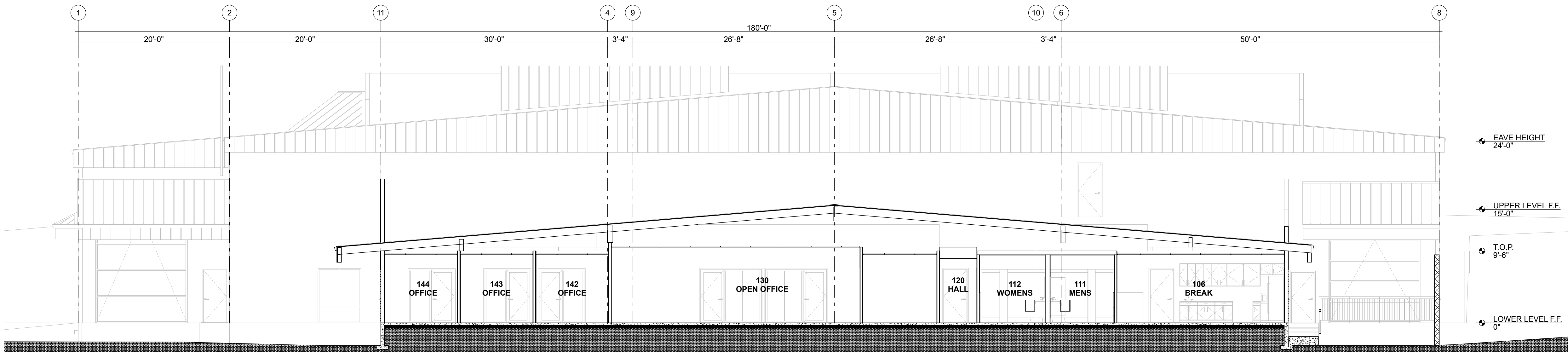
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3 SECTION THROUGH CREW WORK AREA
SCALE: 1/8" = 1'-0"



2 SECTION THROUGH VEHICLE STORAGE
SCALE: 1/8" = 1'-0"



1 SECTION THROUGH OFFICES
SCALE: 1/8" = 1'-0"

GENERAL NOTES

REFERENCES:

- REFER TO SHEET A6.0 & A6.1 FOR WINDOW & DOOR SCHEDULES.

NOTES:

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KEYNOTES

- 2.80 EXISTING METAL ROOF W/ TPO OVERLAYMENT TO REMAIN
3.01 (E) CONC. SLAB-ON-GRADE
9.81 (N) 1 HR. FLOOR / CEILING SEPARATION, SEE ASSEMBLIES FOR DETAIL

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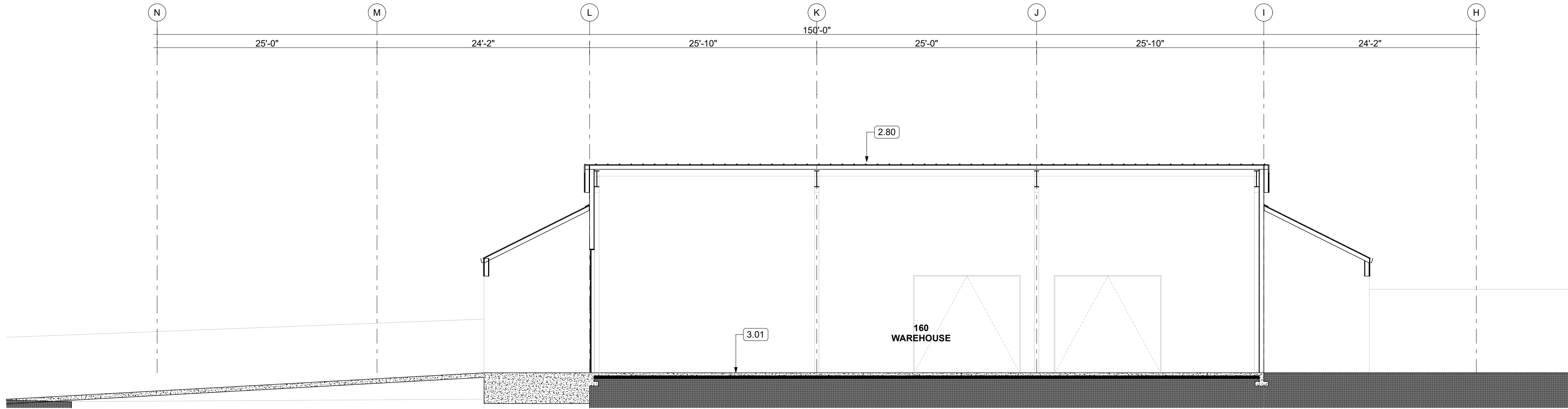
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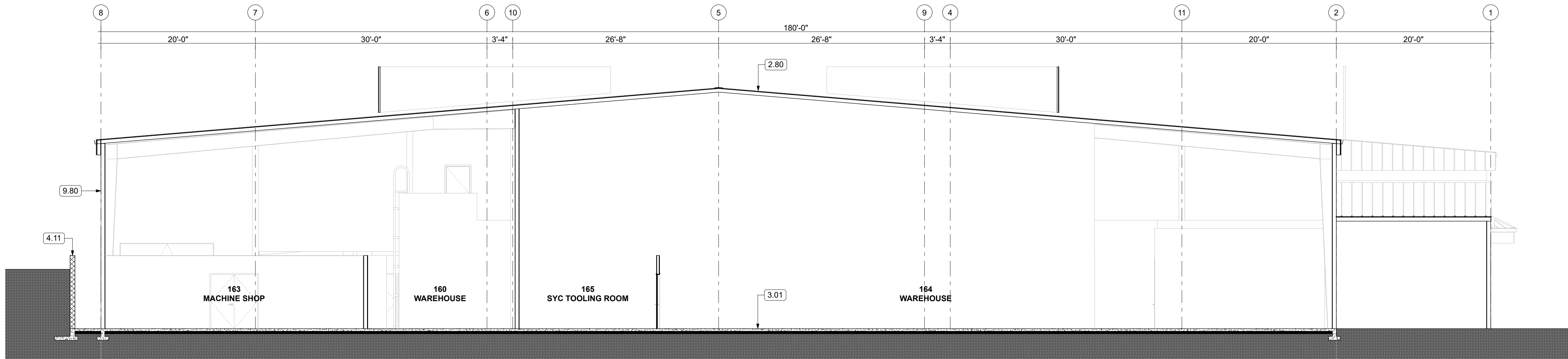
BUILDING SECTIONS

A3.0

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2 SECTION THROUGH WAREHOUSE AT RAMP
SCALE: 1/8" = 1'-0"



1 SECTION THROUGH WAREHOUSE
SCALE: 1/8" = 1'-0"

GENERAL NOTES

REFERENCES:

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KEYNOTES

- | | |
|------|---|
| 2.80 | EXISTING METAL ROOF W/ TPO OVERLAYMENT TO REMAIN |
| 3.01 | (E) CONC. SLAB-ON-GRADE |
| 4.11 | (E) CMU WALL |
| 9.80 | PATCH & REPAIR EXISTING STUCCO; MATCH ADJACENT FINISH |

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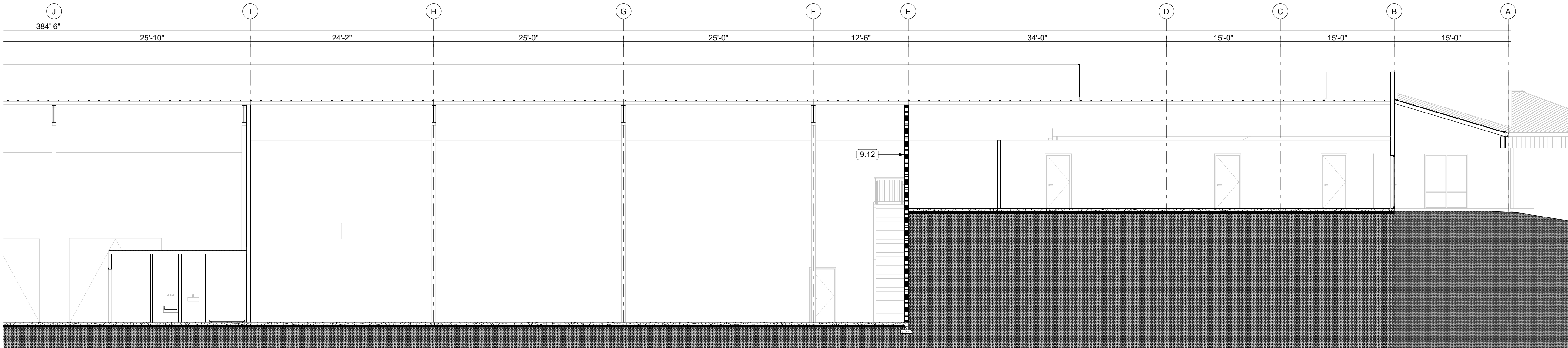
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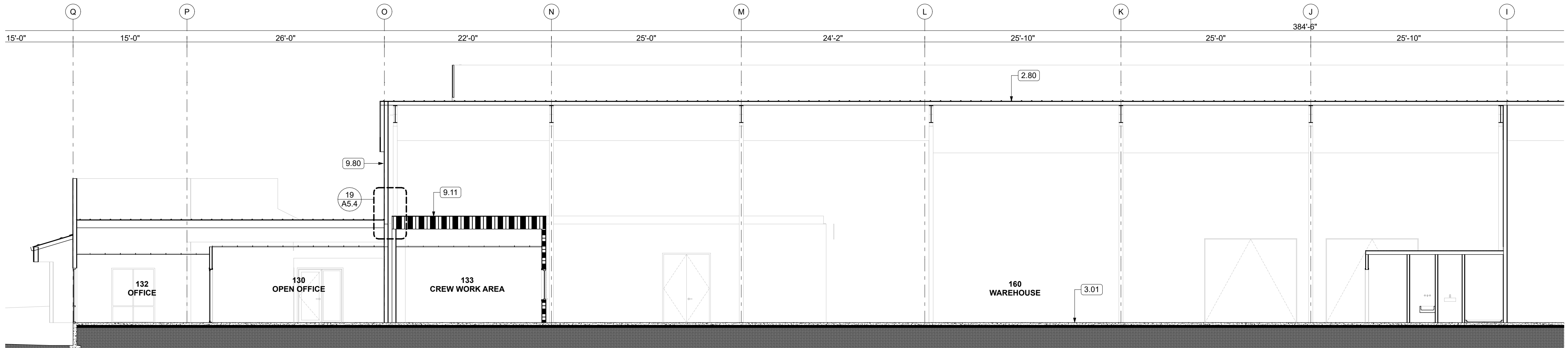
BUILDING
SECTIONS

A3.1

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2 LONGITUDINAL SECTION THROUGH BUILDING
SCALE: 1/8" = 1'-0"



1 LONGITUDINAL SECTION THROUGH BUILDING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- REFERENCES:
- REFER TO SHEET A6.0 & A6.1 FOR WINDOW & DOOR SCHEDULES.
- NOTES:
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KEYNOTES

- EXISTING METAL ROOF W/ TPO OVERLAYMENT TO REMAIN
- (E) CONC. SLAB-ON-GRADE
- (N) 1 HR. FLOOR / CEILING SEPARATION, SEE ASSEMBLIES FOR DETAIL
- (E) 2-HR RATED GWB PARTITION
- PATCH & REPAIR EXISTING STUCCO; MATCH ADJACENT FINISH

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BUREAU VERITAS NORTH AMERICA, INC.



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

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BUILDING
SECTIONS

A3.2



1. INTERIOR ELEVATIONS ARE DIAGRAMMATIC: REFER TO FLOOR PLANS AND DETAILS FOR COMPLETE DIMENSIONS AND REQUIREMENTS.
2. DIMENSIONS SHOWN ARE TO FINISH FACE U.N.O. VERIFY ALL DIMENSIONS IN FIELD.
3. PROVIDE BLOCKING IN WALLS FOR ALL WALL-MOUNTED CABINETS, SHELVES, ACCESSORIES, AND EQUIPMENT.
4. TILE AND OTHER WET-AREA FINISHES TO BE INSTALLED PER MANUFACTURER'S INSTRUCTION WITH WATERPROOF MEMBRANE BEHIND FINISHES AT SHOWERS, TUB SURROUNDS, AND WET WALLS.
5. COORDINATE LOCATIONS OF ELECTRICAL DEVICES, PLUMBING FIXTURES, HVAC REGISTERS, AND ACCESSORIES WITH INTERIOR ELEVATIONS.
6. ALL FIXTURES AND ACCESSORIES IN RESTROOMS AND OTHER ACCESSIBLE SPACES SHALL BE INSTALLED IN ACCORDANCE WITH CBC CH. 11B (ADA) ACCESSIBILITY REQUIREMENTS. REFER TO G3.1 FOR MOUNTING HEIGHTS AND TYPICAL DETAILS.
7. CASEWORK, COUNTERTOPS, AND MILLWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWI STANDARDS.
8. PROVIDE EDGE TRIMS, TRANSITIONS, AND SEALANTS AT MATERIAL TERMINATIONS FOR CLEAN, DURABLE FINISH

LV-1
MANUFACTURER: SHAW CONTRACT
STYLE: BRANCHING OUT
COLOR: ZION OAK 4309V
SIZE: 7" X 48"
LOCATION: BREAKROOM, RESTROOM VESTIBULE

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

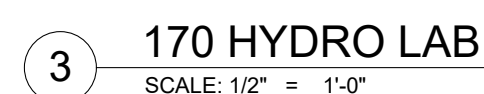
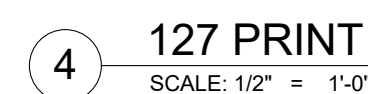
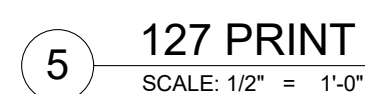
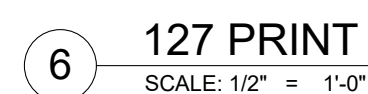
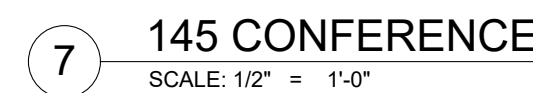
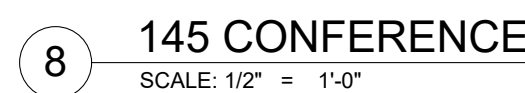
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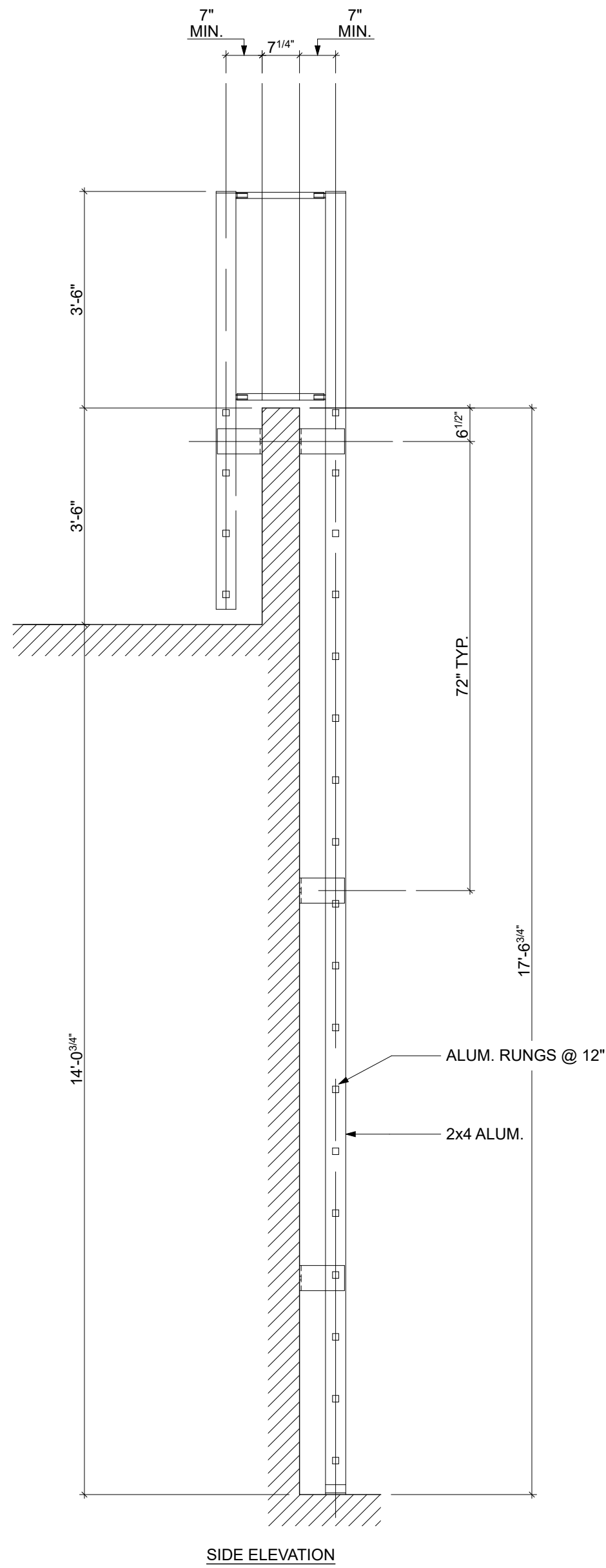
ENLARGED PLAN
& INTERIOR
ELEVATIONS

A4.1

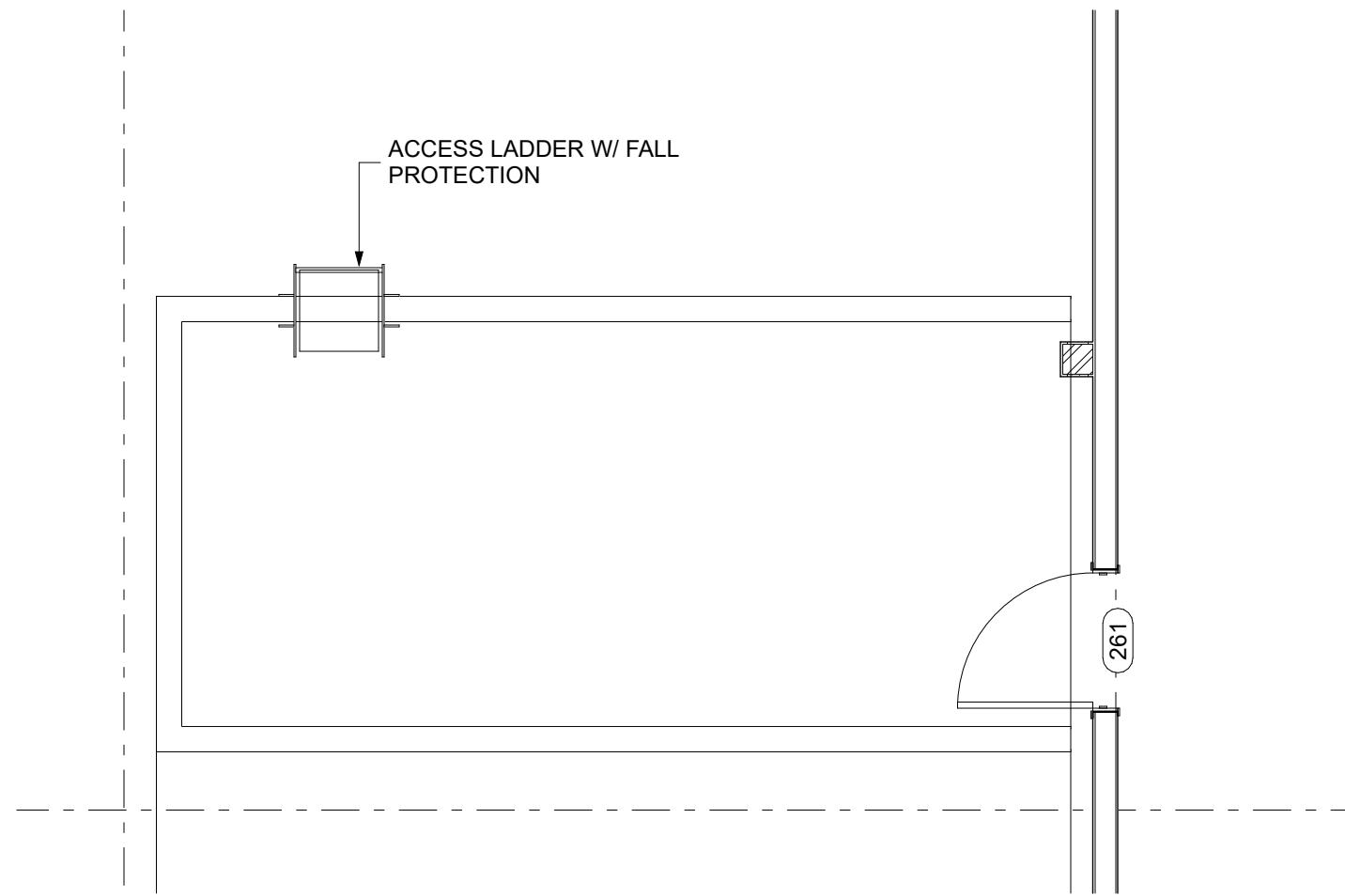


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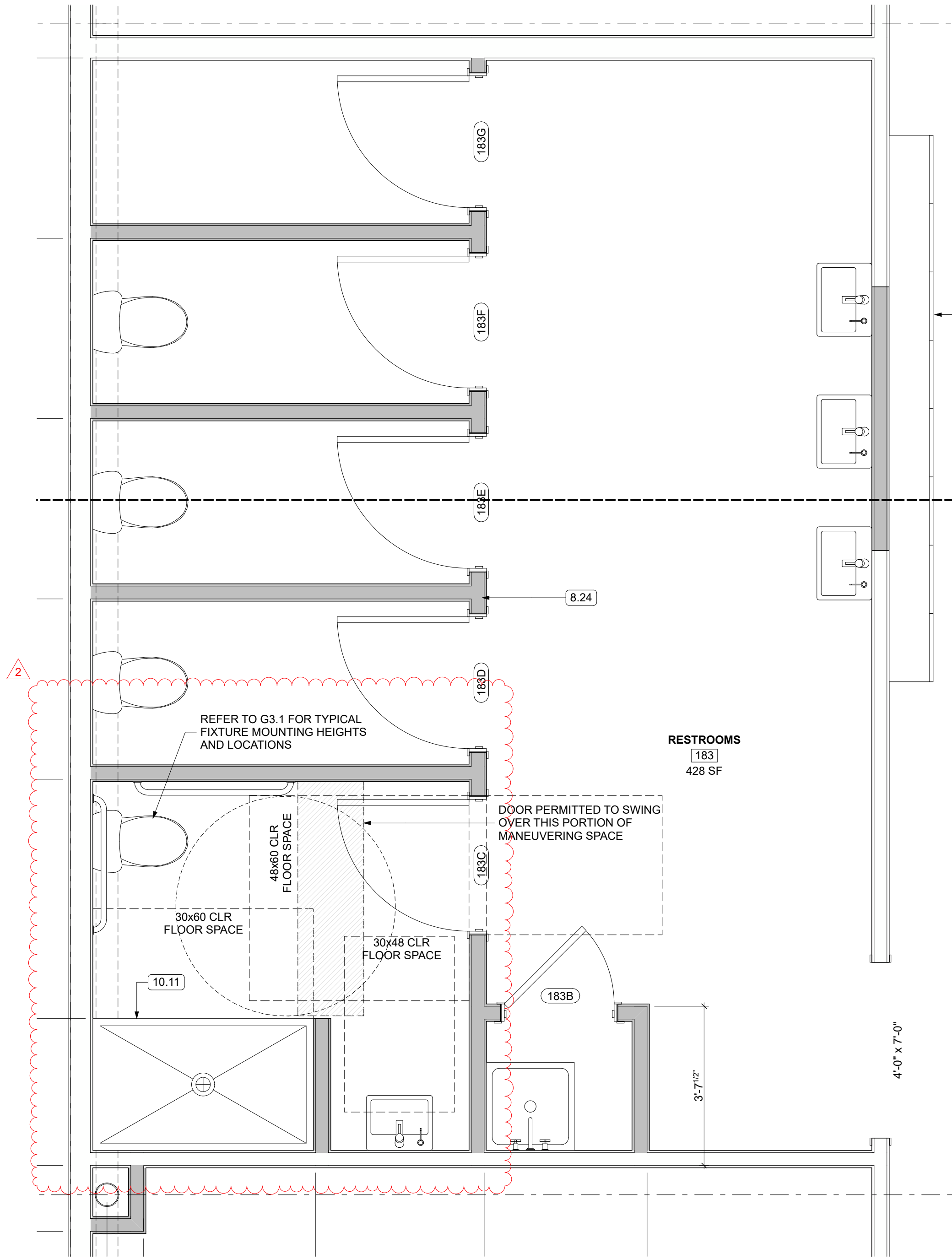
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3 LADDER
SCALE: 1/2" = 1'-0"



2 ENLARGED ROOF ACCESS PLATFORM PLAN
SCALE: 1/4" = 1'-0"



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

GENERAL NOTES

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LEGEND

BASE

RB-1
MANUFACTURER: ROPPE
COLOR: 150 DARK GRAY
TYPE: COVERED RUBBER BASE
HEIGHT: 4"
LOCATION: THROUGHOUT, UON

PAINT

PT-1
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: EGGSHELL, UON

PT-2
MANUFACTURER: BENJAMIN MOORE
COLOR: WHITE DOVE
NUMBER: OC-17
FINISH: SEMI-GLOSS, UON

PLASTIC LAMINATE

PL-1
MANUFACTURER: WILSONART
COLOR: ESSENTIAL RECON
FINISH: VELVET
LOCATION: THROUGHOUT, UON

PL-2
MANUFACTURER: WILSONART
COLOR: BLACK VELVET
FINISH: VELVET
LOCATION: RECEPTION

SOLID SURFACE

SS-1
MANUFACTURER: WILSONART
COLOR: DESIGNER WHITE
LOCATION: BREAKROOM

FRP WALL PROTECTION

WP-1
MANUFACTURER: MARLITE
COLOR: P470N DARK GREY
LOCATION: WAREHOUSE RESTROOMS

WALL TILE

WT-1
MANUFACTURER: DAL TILE
STYLE: VOLUME 1.0
COLOR: STEREO GREY VL73
SIZE: 12" X 24"
INSTALLATION: STACKED
LOCATION: RESTROOMS

FLOOR TILE

FT-1
MANUFACTURER: DAL TILE
STYLE: VOLUME 1.0
COLOR: THUNDER VL62
SIZE: 12" X 24"
INSTALLATION: STACKED
LOCATION: RESTROOMS

CARPET TILE

CT-1
MANUFACTURER: MOHAWK
STYLE: NATURAL NETWORKS BT597
COLOR: 959 PEPPERCORN
SIZE: 24" X 24"
LOCATION: THROUGHOUT, UON

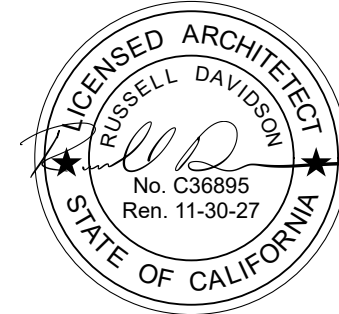
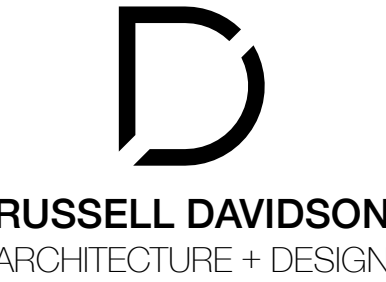
LUXURY VINYL PLANK

LV-1
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COLOR: ZION OAK 4309V
SIZE: 7" X 48"
LOCATION: BREAKROOM, RESTROOM VESTIBULE

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KEYNOTES

- 8.24 TOILET COMPARTMENTS SHALL BE CONSTRUCTED AS FULL-HEIGHT PRIVACY COMPARTMENTS IN ACCORDANCE WITH CPC SECTIONS 218.0 AND 422.6. PROVIDE FULL-HEIGHT WALLS, FULL-HEIGHT DOORS, PRIVACY HARDWARE, AND DOOR EDGE TREATMENT TO MAINTAIN VISUAL PRIVACY. DOORS SHALL BE LOCKABLE FROM THE INSIDE, WITH THE LOCKED CONDITION READILY DISTINGUISHABLE FROM THE EXTERIOR.
- 10.11 ACCESSIBLE SHOWER SHALL COMPLY WITH CBC SECTION 11B-608 INCLUDING REQUIRED CLEARANCES, CONTROLS, GRAB BARS, SHOWER SPRAY UNIT, AND ACCESSORIES. SEE DETAIL 9/ G3.1.



N.I.D. HYDRO OFFICE RENOVATION

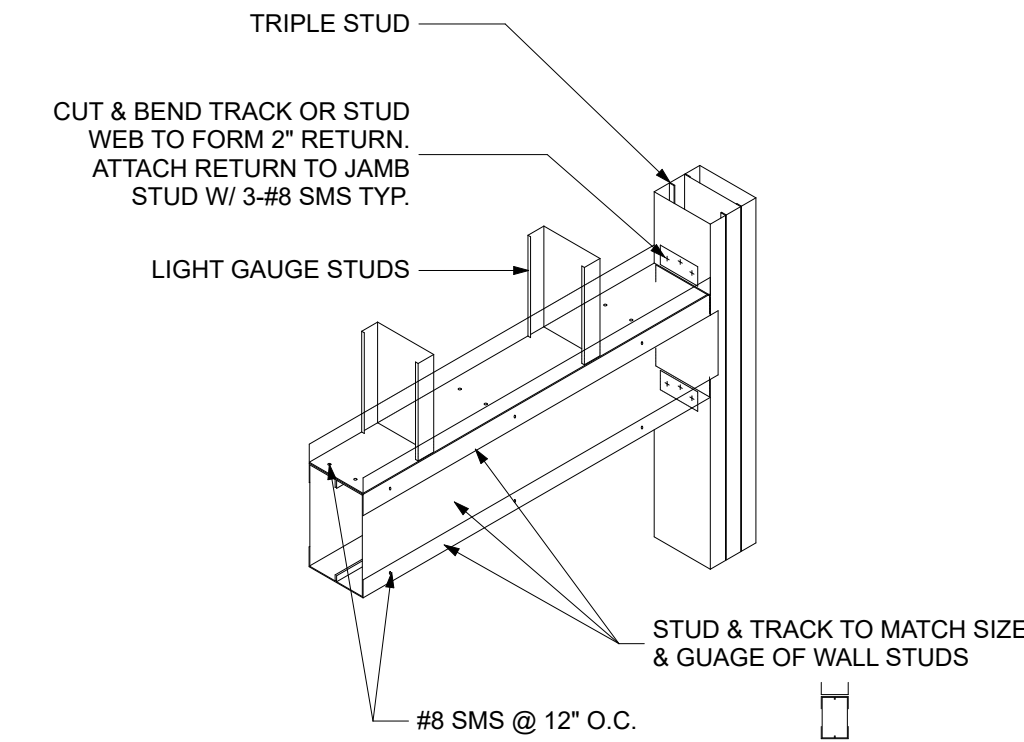
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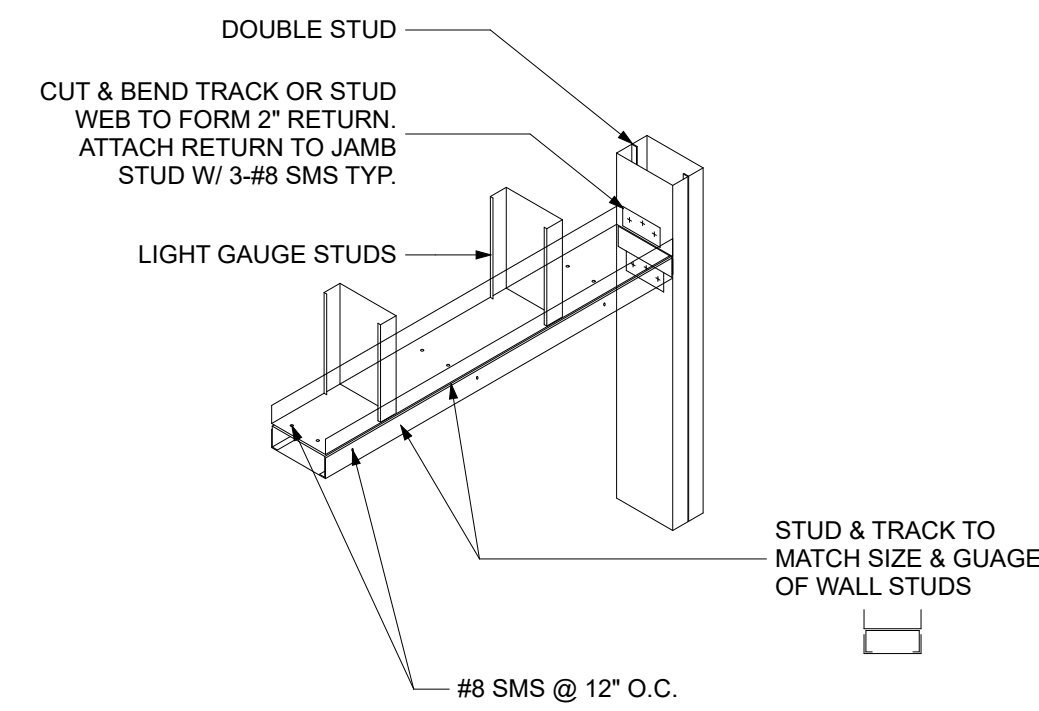
ENLARGED PLAN
& INTERIOR
ELEVATIONS

A4.3

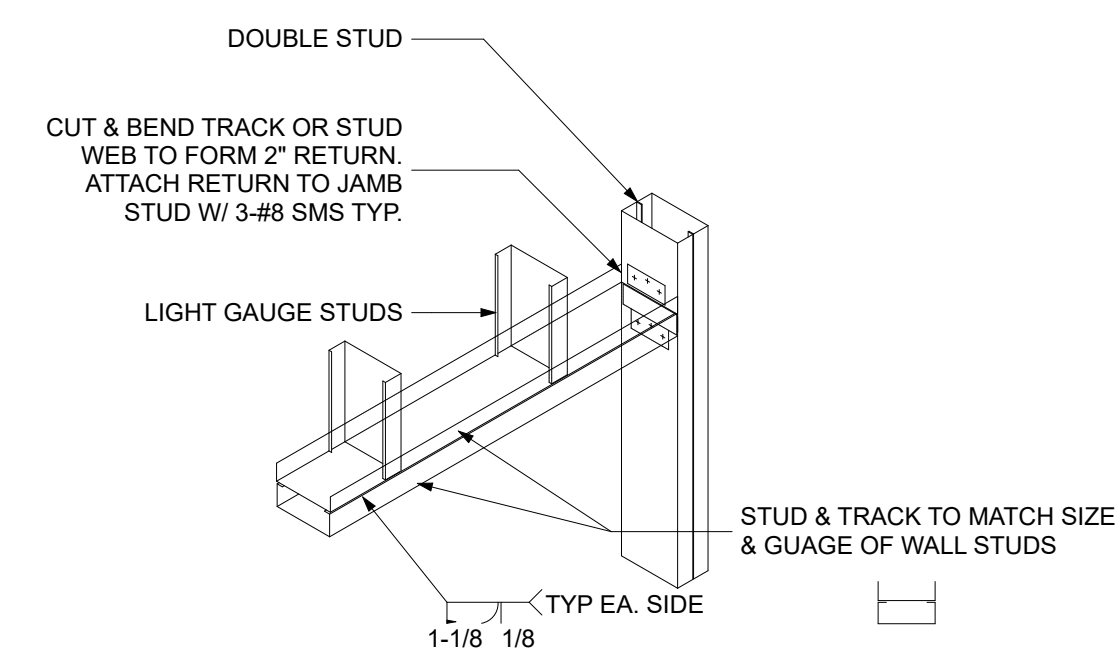
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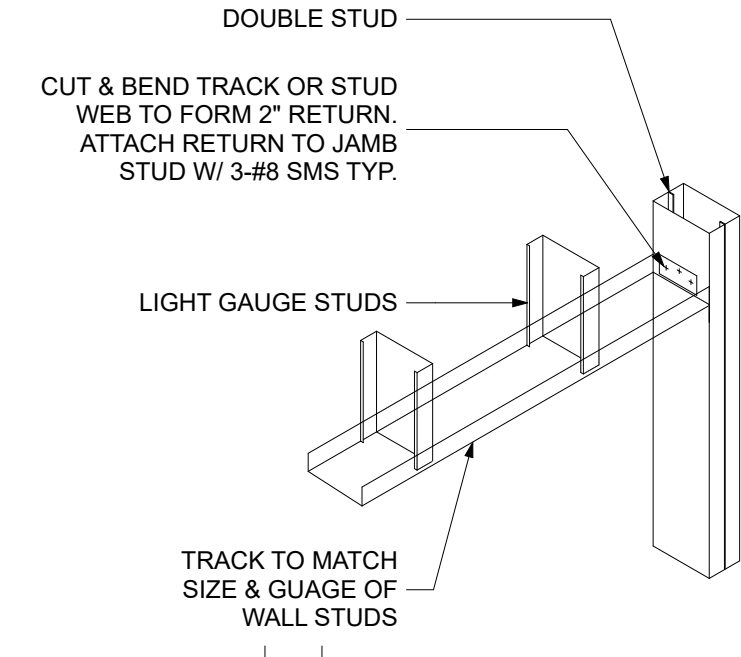
19 HDR 3 TRACK + STUD
SCALE: 3/4" = 1'-0"



18 HDR 2 TRACK + STUD
SCALE: 3/4" = 1'-0"

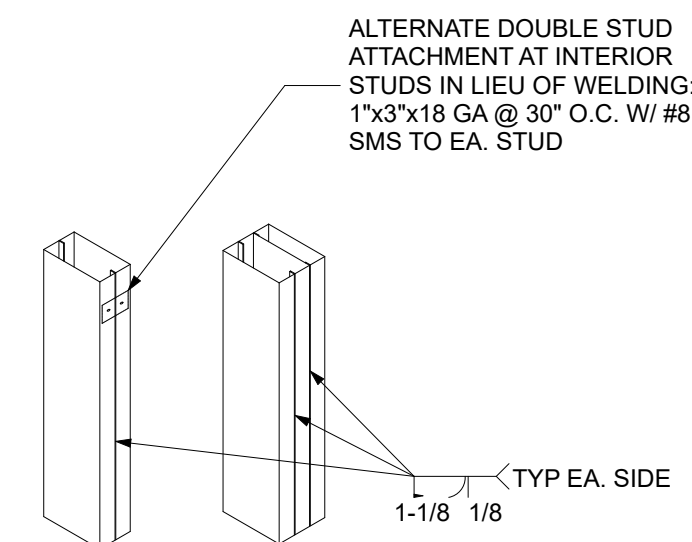


17 HDR TRACK + STUD
SCALE: 3/4" = 1'-0"

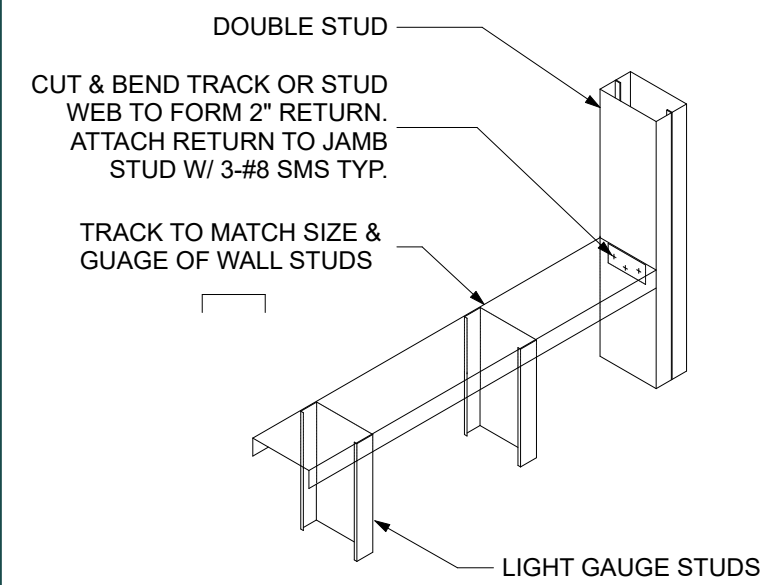


16 HDR TRACK
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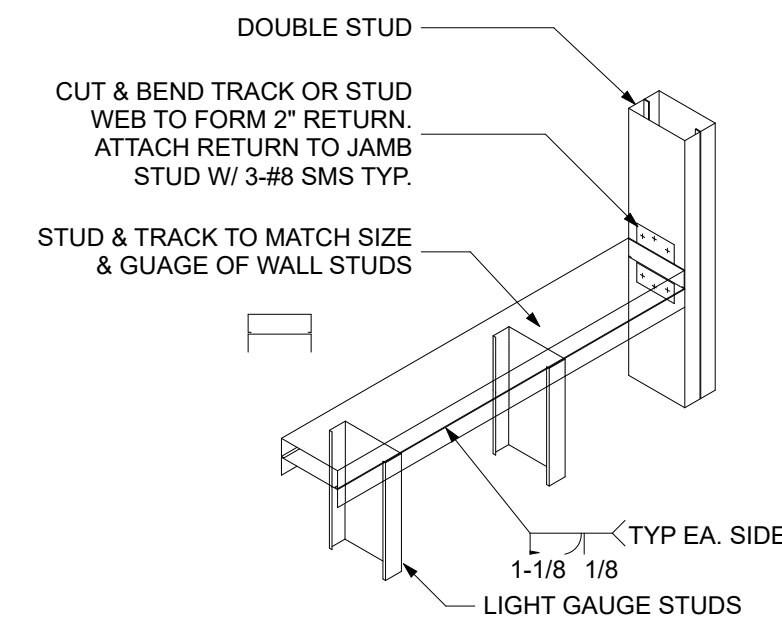
REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



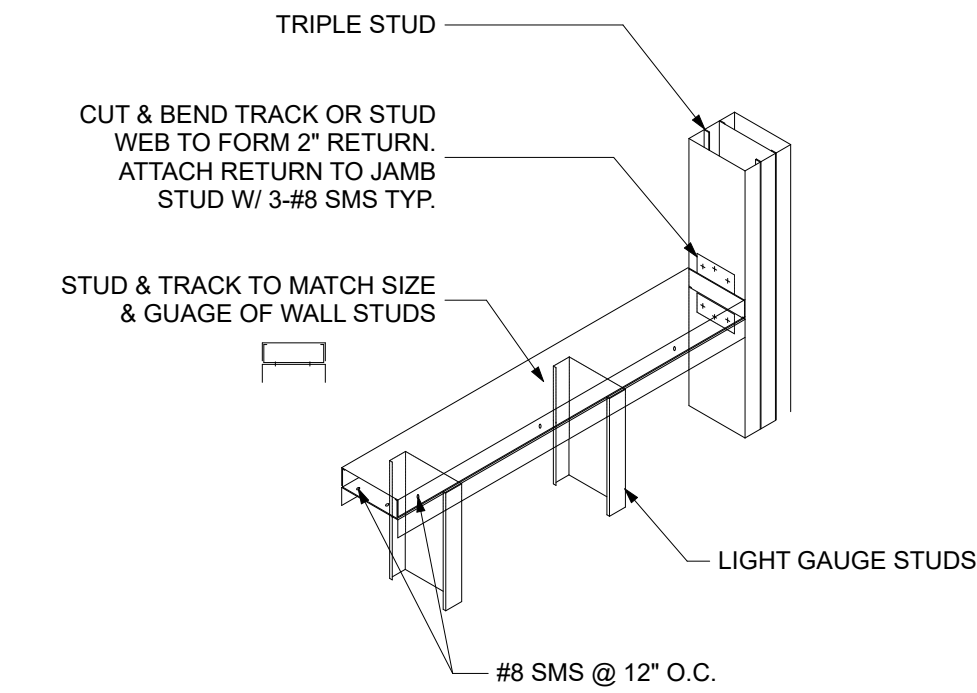
14 JAMB
SCALE: 3/4" = 1'-0"



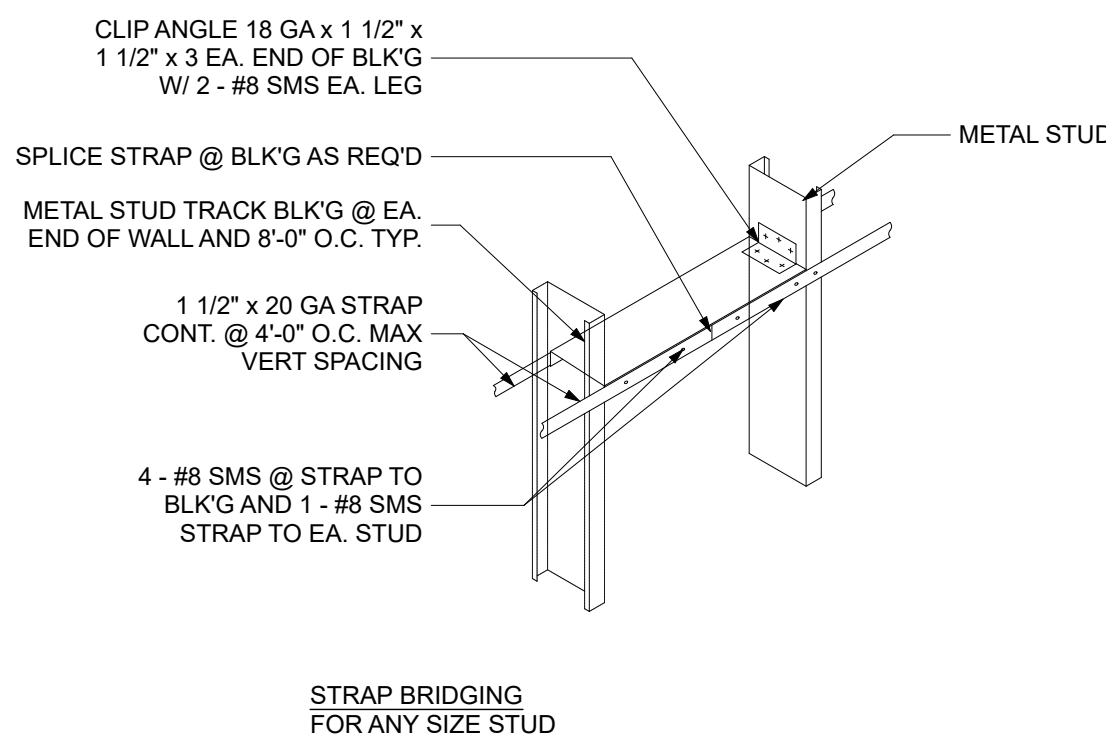
13 SILL TRACK
SCALE: 3/4" = 1'-0"



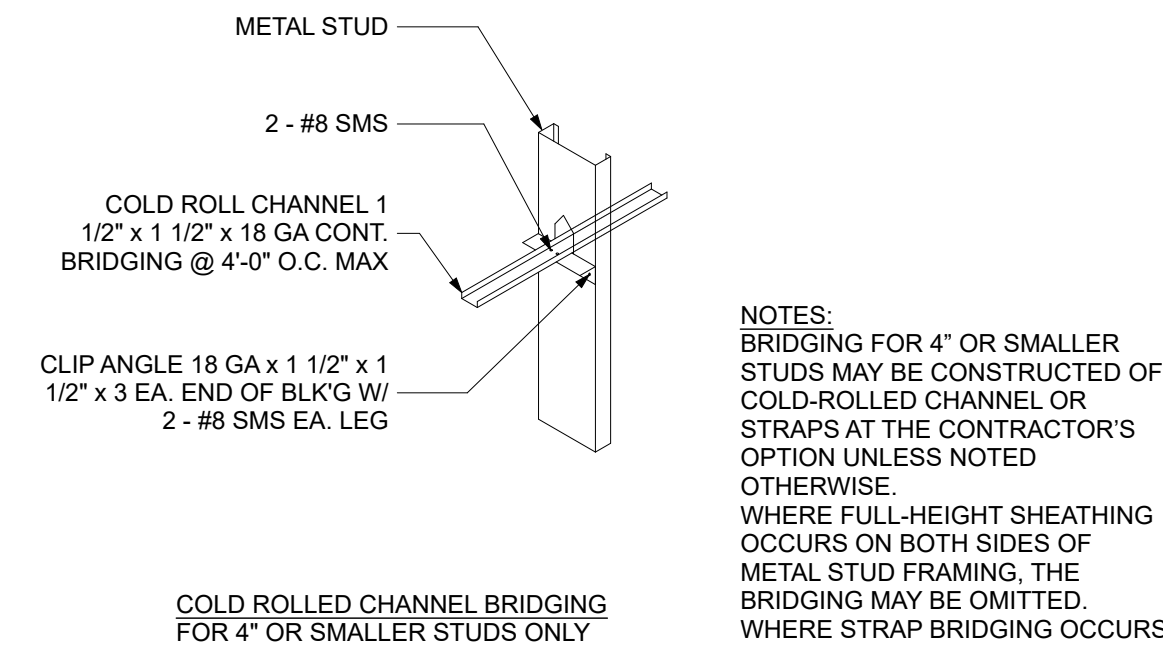
12 SILL TRACK + STUD
SCALE: 3/4" = 1'-0"



11 SILL 2 TRACK + STUD
SCALE: 3/4" = 1'-0"



9 STUD BRIDGING
SCALE: 3/4" = 1'-0"



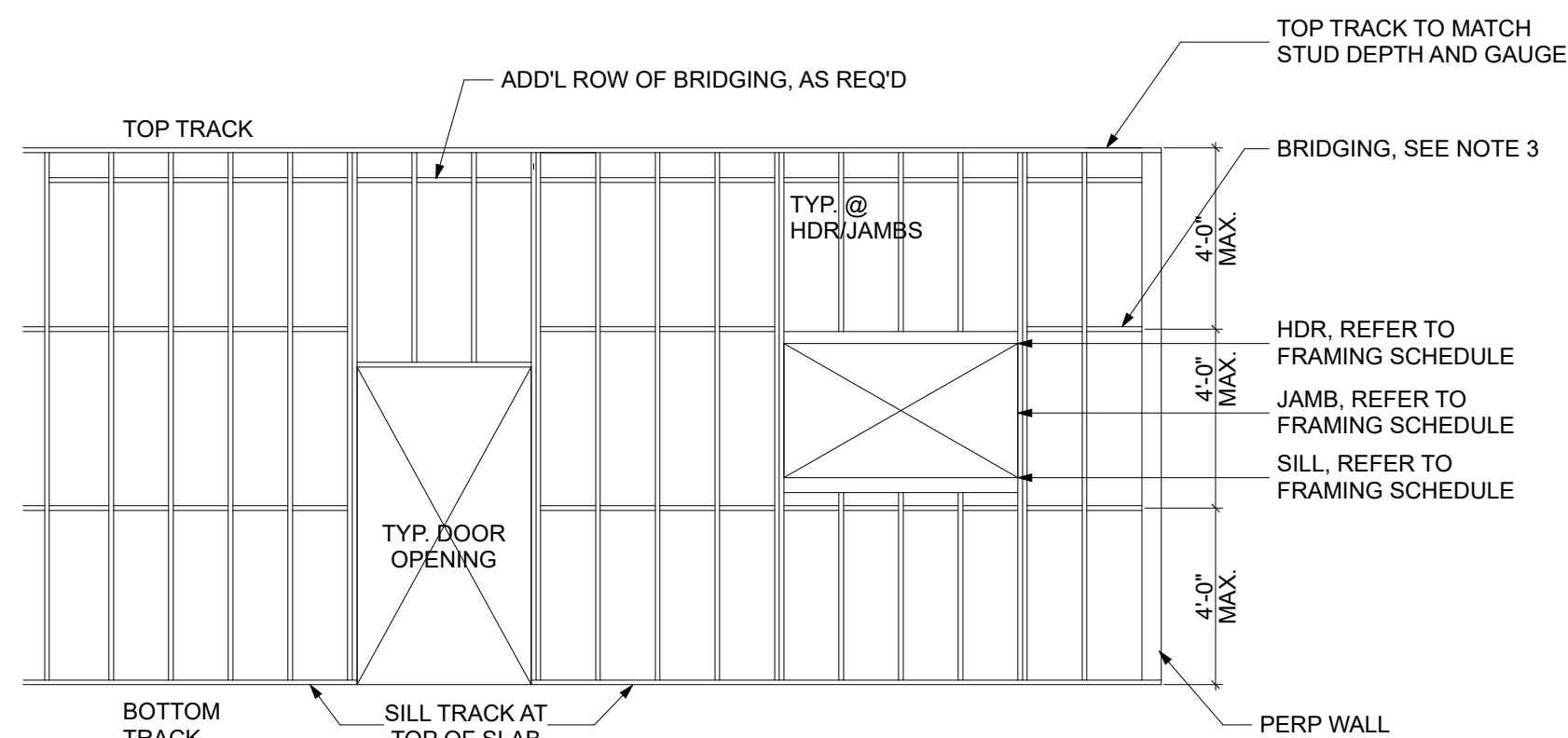
8 STUD BRIDGING
SCALE: 3/4" = 1'-0"

INTERIOR NON-BEARING PARTITIONS SCHEDULE				
MAXIMUM HEIGHT FOR METAL STUDS WITH DEFLECTION LIMIT L/240 @ 7.5 PSF				
16" O.C. SPACING - REFER TO WALL TYPES FOR DEPTH				
DEPTH	GAUGE	FLANGE	HEIGHT	
3 5/8"	20	1 3/8"	14'-8"	
3 5/8"	18	1 3/8"	15'-11"	
3 5/8"	16	1 3/8"	17'-1"	
3 5/8"	14	1 3/8"	18'-3"	
4"	20	1 3/8"	15'-10"	
4"	18	1 3/8"	17'-2"	
4"	16	1 3/8"	18'-5"	
4"	14	1 3/8"	19'-8"	
6"	20	1 3/8"	21'-8"	
6"	18	1 3/8"	23'-9"	
6"	16	1 3/8"	25'-6"	
6"	14	1 3/8"	27'-3"	
8"	20	1 3/8"	26'-9" *	
8"	18	1 3/8"	29'-9"	
8"	16	1 3/8"	31'-11"	
8"	14	1 3/8"	34'-6"	

* WEB STIFFENERS REQUIRED

INTERIOR NON-BEARING PARTITIONS SCHEDULE				
MAXIMUM HEIGHT FOR METAL STUDS WITH DEFLECTION LIMIT L/240 @ 7.5 PSF				
24" O.C. SPACING - REFER TO WALL TYPES FOR DEPTH				
DEPTH	GAUGE	FLANGE	HEIGHT	
3 5/8"	20	1 3/8"	12'-10"	
3 5/8"	18	1 3/8"	13'-11"	
3 5/8"	16	1 3/8"	14'-11"	
3 5/8"	14	1 3/8"	15'-11"	
4"	20	1 3/8"	13'-10"	
4"	18	1 3/8"	15'-0"	
4"	16	1 3/8"	16'-1"	
4"	14	1 3/8"	17'-2"	
6"	20	1 3/8"	18'-11"	
6"	18	1 3/8"	20'-9"	
6"	16	1 3/8"	22'-3"	
6"	14	1 3/8"	23'-10"	
8"	20	1 3/8"	21'-10" *	
8"	18	1 3/8"	25'-11"	
8"	16	1 3/8"	27'-11"	
8"	14	1 3/8"	30'-2"	

* WEB STIFFENERS REQUIRED



INTERIOR NON-BEARING METAL STUD WALL FRAMING NOTES

- REFERENCE WALL TYPE DESCRIPTIONS AND BACKING DETAILS FOR LOCATIONS.
- FOR WALL TYPE AND LOCATION SEE ARCHITECTURAL DRAWINGS.
- PROVIDE BRIDGING AT ALL INTERIOR NON-BEARING WALLS WITHOUT QUALIFIED SHEATHING EACH SIDE OF STUD PER DETAIL.
- ALL WELDS SHALL BE 1/8" FILLET MAXIMUM. FOR MATERIALS THINNER THAN 0.15", EFFECTIVE THROAT SHALL NOT BE LESS THAN THINNEST MATERIAL. WELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE ENGAGED.
- FACTORY PUNCH-OUTS SHALL NOT BE SPACED LESS THAN 24" O.C. NOR WITHIN 10" CLEAR OF MEMBER END AT STUDS, HEADERS, BEAMS, JOISTS, ETC.
- SCREWS SHALL BE THREAD-FORMING OR THREAD-CUTTING, WITH OR WITHOUT A SELF-DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE ENGAGED.

INTERIOR NON-BEARING WALL OPENING			
FRAMING SCHEDULE			
"W" WIDTH	JAMBS	HEADER	SILL
4'-0"	SINGLE STUD *	TRACK	TRACK
8'-0"	DOUBLE STUD	TRACK & STUD	TRACK
12'-0"	DOUBLE STUD	2 TRACK & STUD	TRACK & STUD
16'-0"	TRIPLE STUD	3 TRACK & 2 STUD	2 TRACK & STUD

* USE DOUBLE STUD MINIMUM AT DOOR OPENINGS

CEILING JOIST SCHEDULE	
SPAN (Deflection L/240)	CEILING JOIST (Lateral Load 6 psf)
7'-1" MAX	1 5/8" x 20GA @ 24" O.C.
7'-11" MAX / 9'-10" MAX *	2 1/2" x 20 GA @ 16" O.C.
8'-8" MAX / 12'-6" MAX *	3 5/8" x 20 GA @ 24" O.C.
8'-11" MAX / 12'-10" MAX *	4" x 20 GA @ 24" O.C.
9'-10" MAX / 14'-3" MAX *	5" x 20 GA @ 24" O.C.
10'-1" MAX / 14'-7" MAX *	6" x 20 GA @ 24" O.C.

* SINGLE SPAN CEILING (BRACED AT MIDSPAN)

RUSSELL DAVIDSON
ARCHITECTURE + DESIGN



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26

SUBMITTED: 03/20/2026
SCALE: AS NOTED
DRAWN BY: RPD
CHECKED BY: RPD
JOB: 2025.35

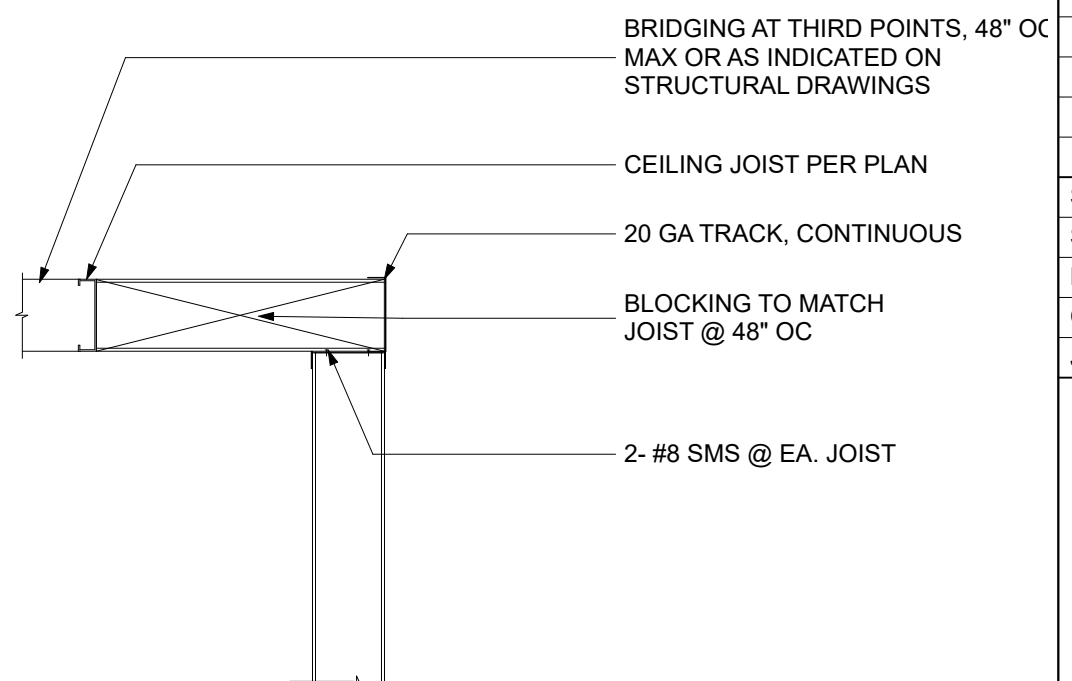
FRAMING
DETAILS

A5.0

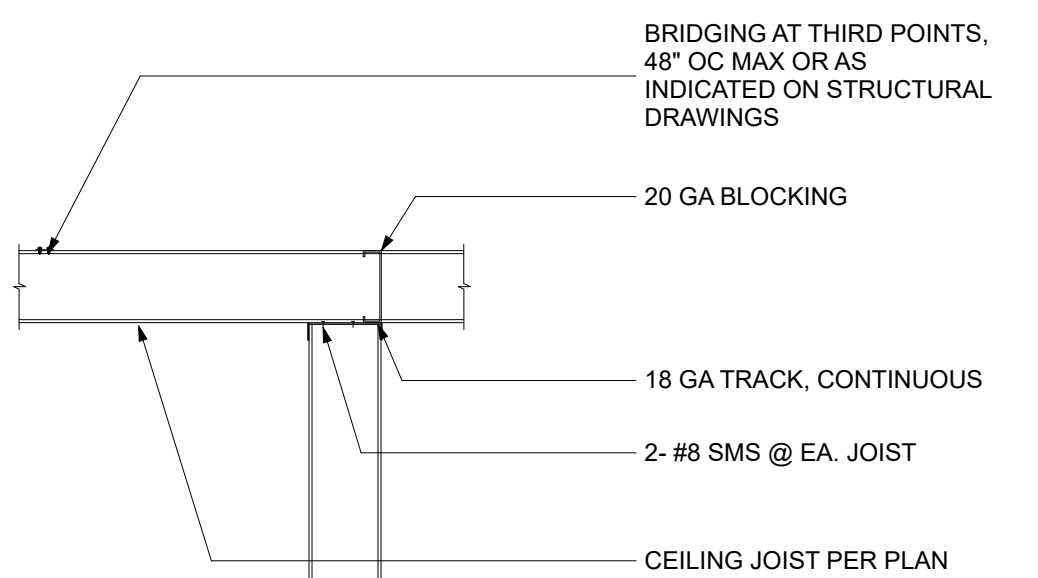
N.I.D. HYDRO OFFICE RENOVATION

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

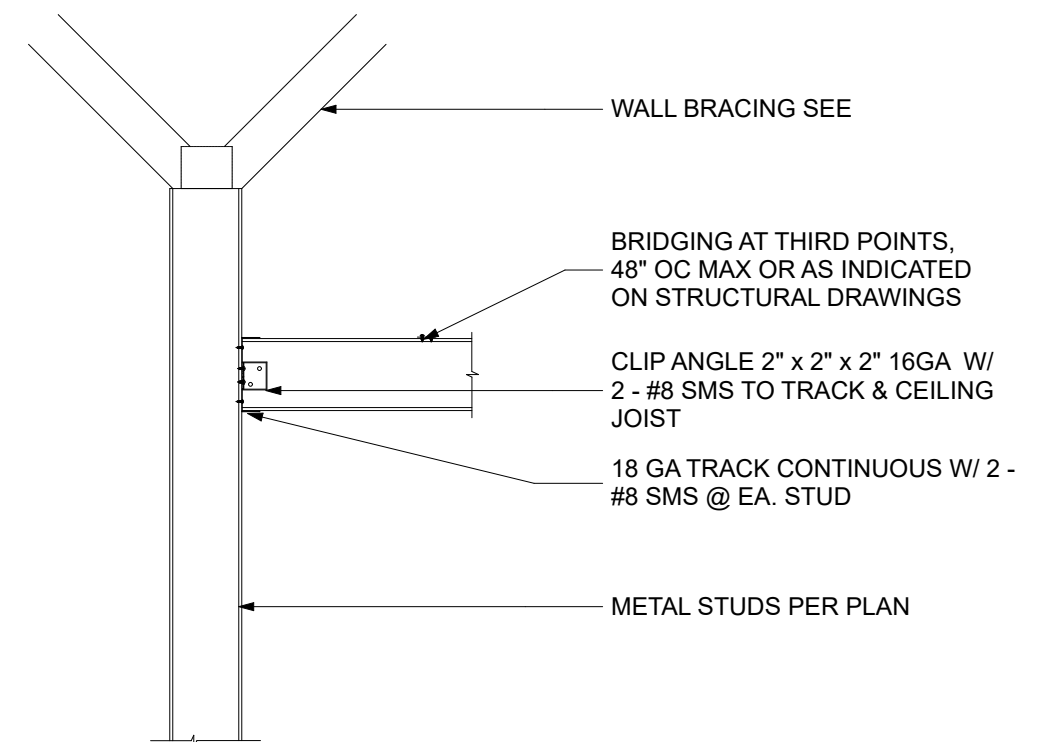
A5.1



1 TYP. CONDITION @ PARALLEL WALL
SCALE: 3/4" = 1'-0"



2 TYP. CONDITION @ BEARING WALL
SCALE: 3/4" = 1'-0"



3 TYP. LEDGER
SCALE: 3/4" = 1'-0"

ID	NAME	DATE
1	REV 1	7/11/26

SUBMITTED:	03/20/2026
SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

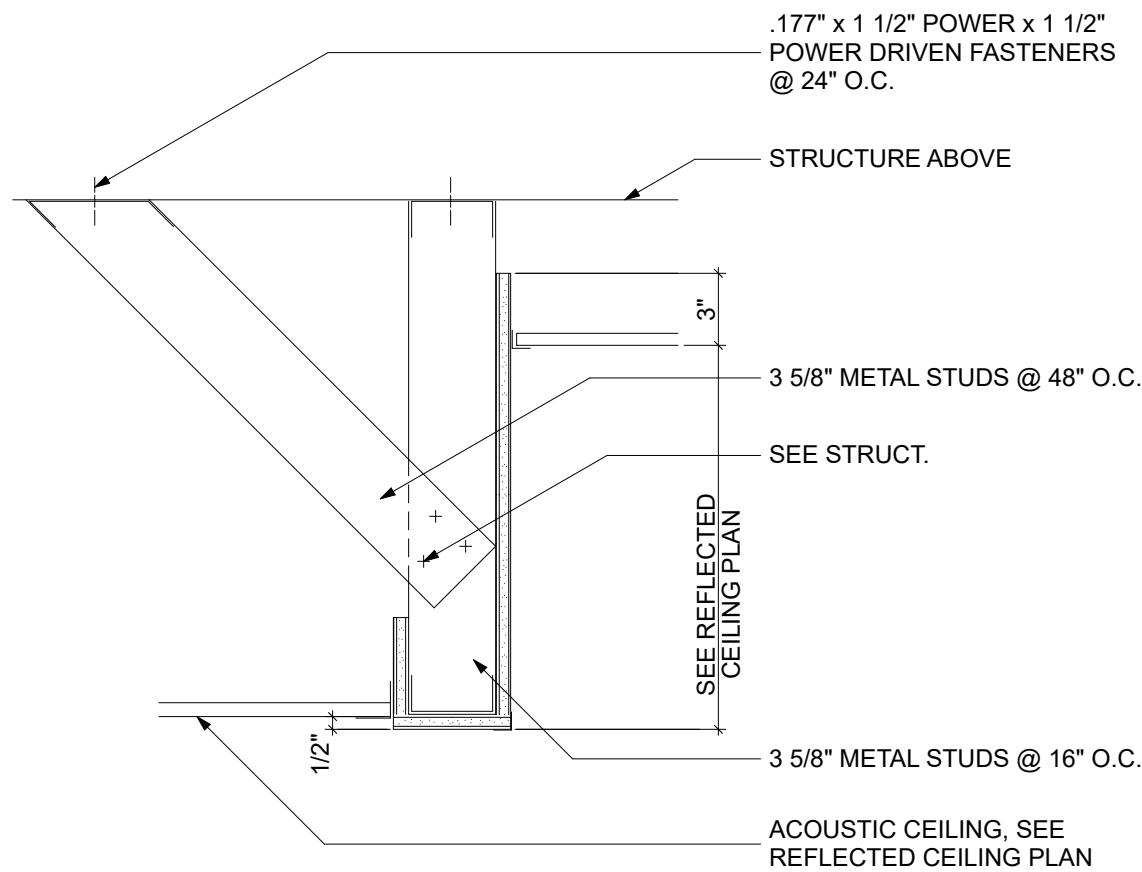
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SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

CASEWORK DETAILS

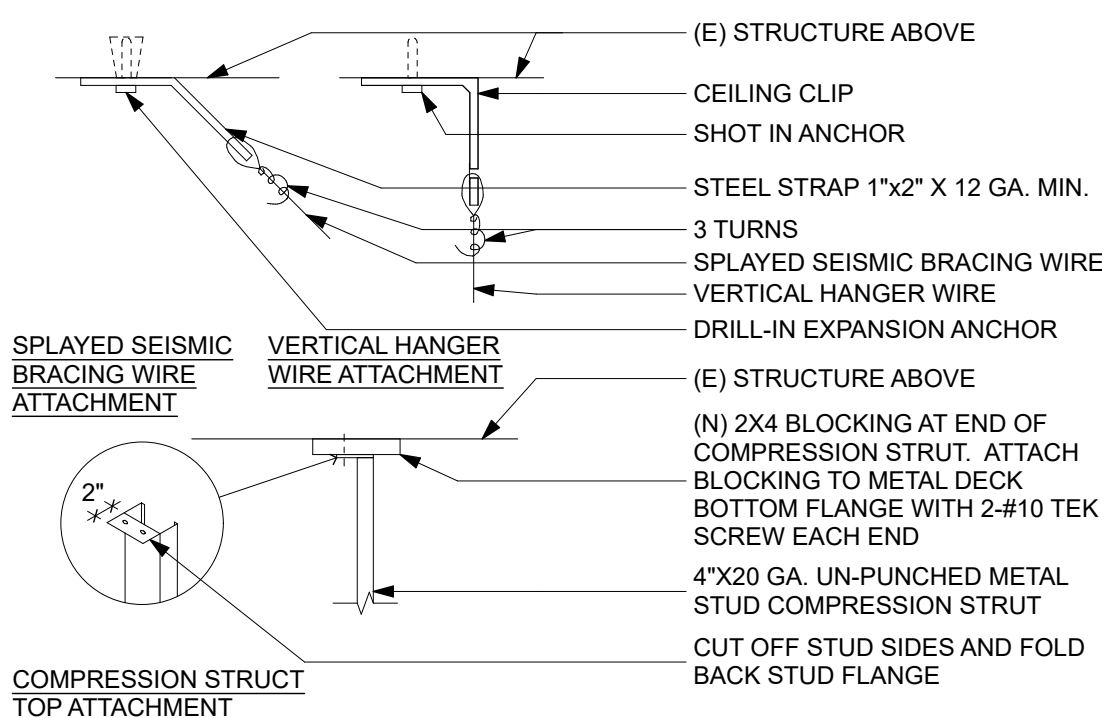
A5.2

CEILING DETAILS

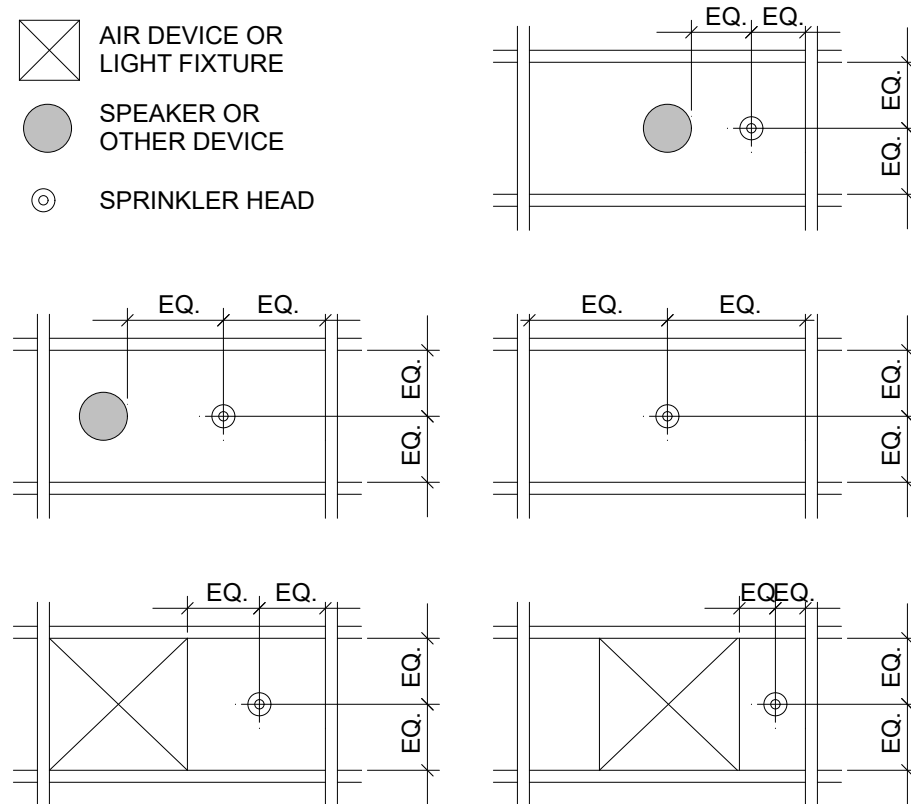
12 TYP. SOFFIT
SCALE: 1 1/2" = 1'-0"



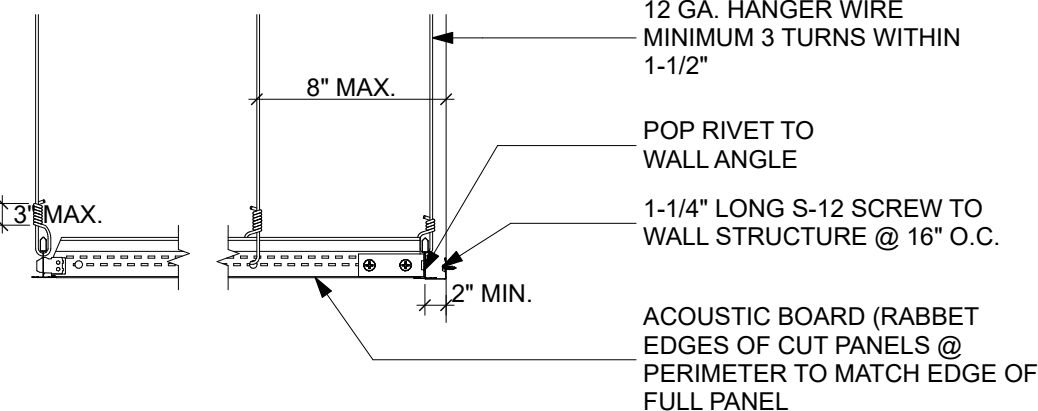
11 SOFFIT - CHANGE OF CLG HEIGHT
SCALE: 1 1/2"= 1'-0"



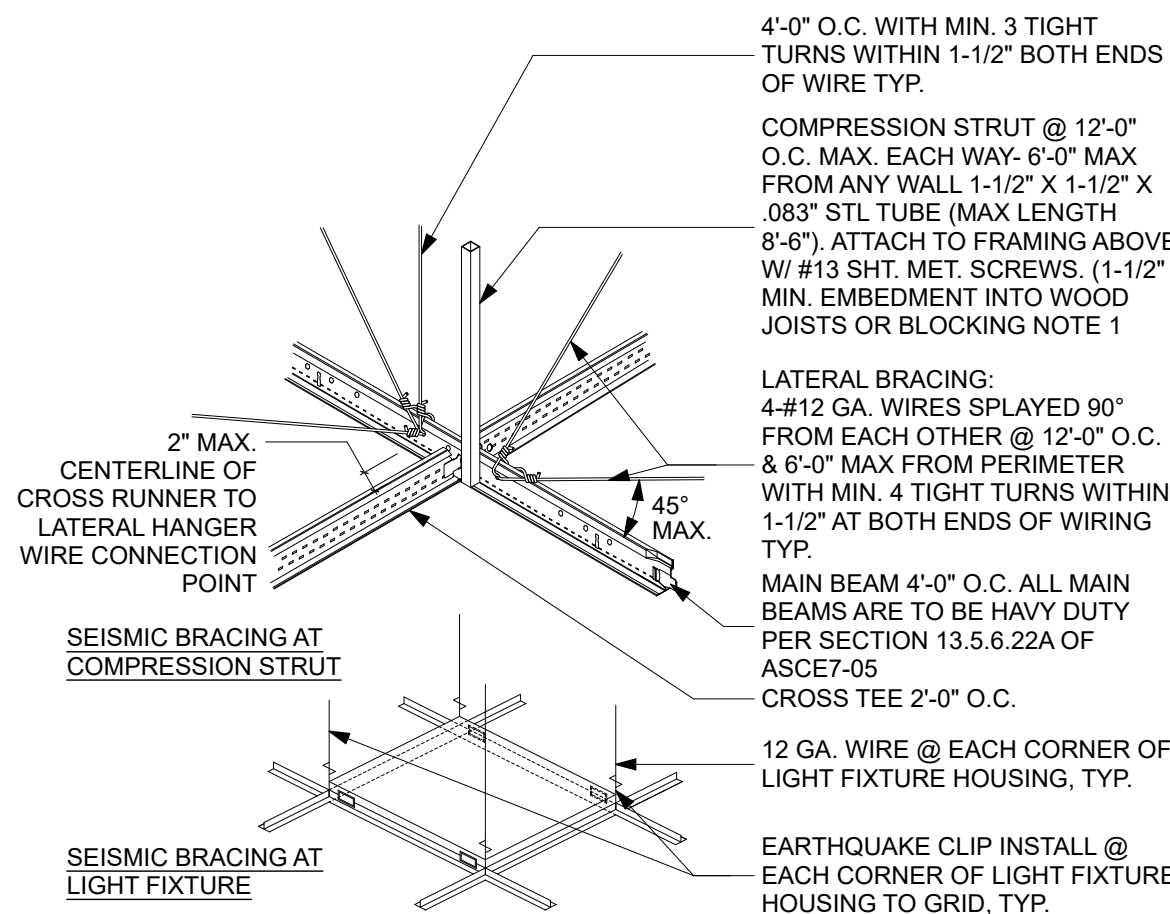
9. TYP. CONNECTION TO DECKING ABOVE
SCALE: 1 1/2" = 1'-0"



8 FIRE SPRINKLER LAYOUT



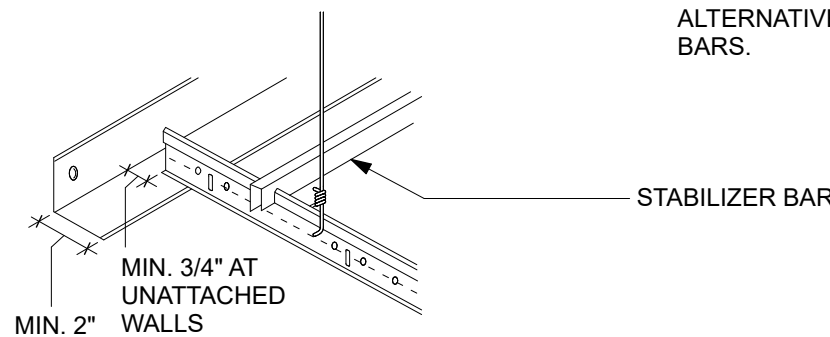
7 TYP. SUSPENDED CEILING RUNNER
SCALE: 1 1/2" = 1'-0"



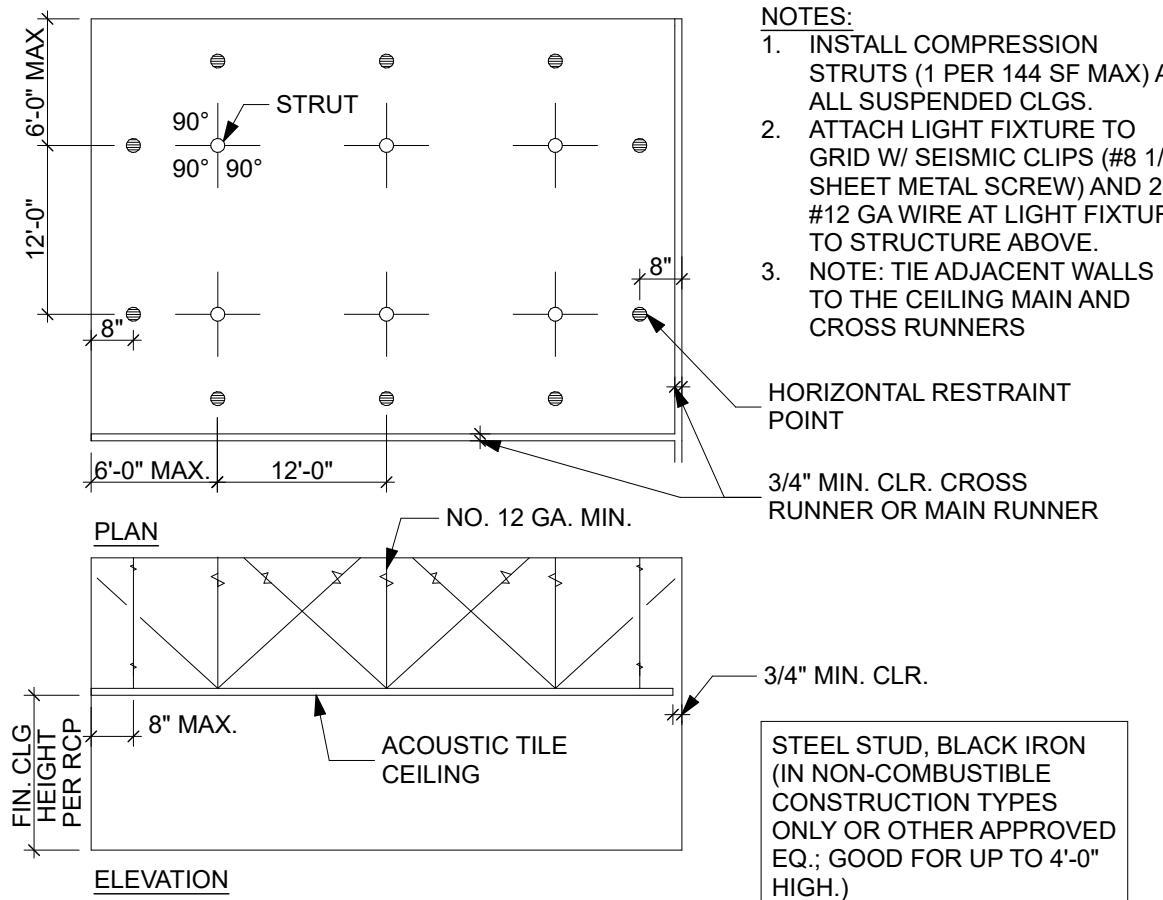
4 **TYP. SUSPENDED CEILING BRACING**
SCALE: 1 1/2"= 1'-0"

NOTES:

1. STABILIZER BARS SHALL BE USED TO PREVENT THE ENDS OF THE MAIN BEAMS AND CROSS TEES AT PERIMETER WALLS FROM SPREADING OPEN DURING A SEISMIC EVENT.
2. PERIMETER WIRES SHALL NOT BE IN LIEU OF STABILIZER BARS. STABILIZER BARS ARE NOT REQUIRED AT PERIMETERS WHERE RUNNERS ARE ATTACHED DIRECTLY TO CLOSURE ANGLES.
3. WIRE TYING IS AN ACCEPTABLE ALTERNATIVE TO STABILIZER BARS.



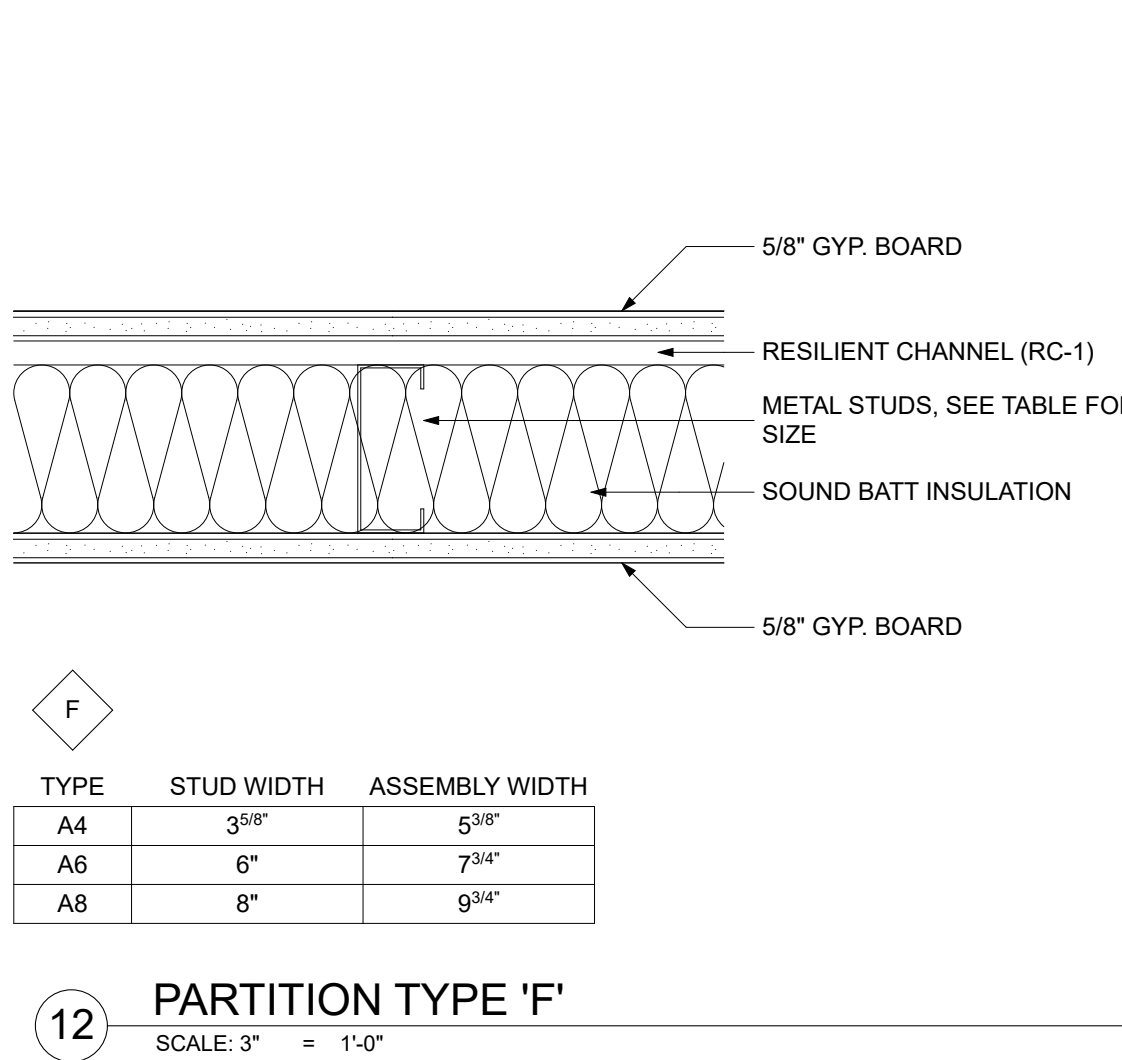
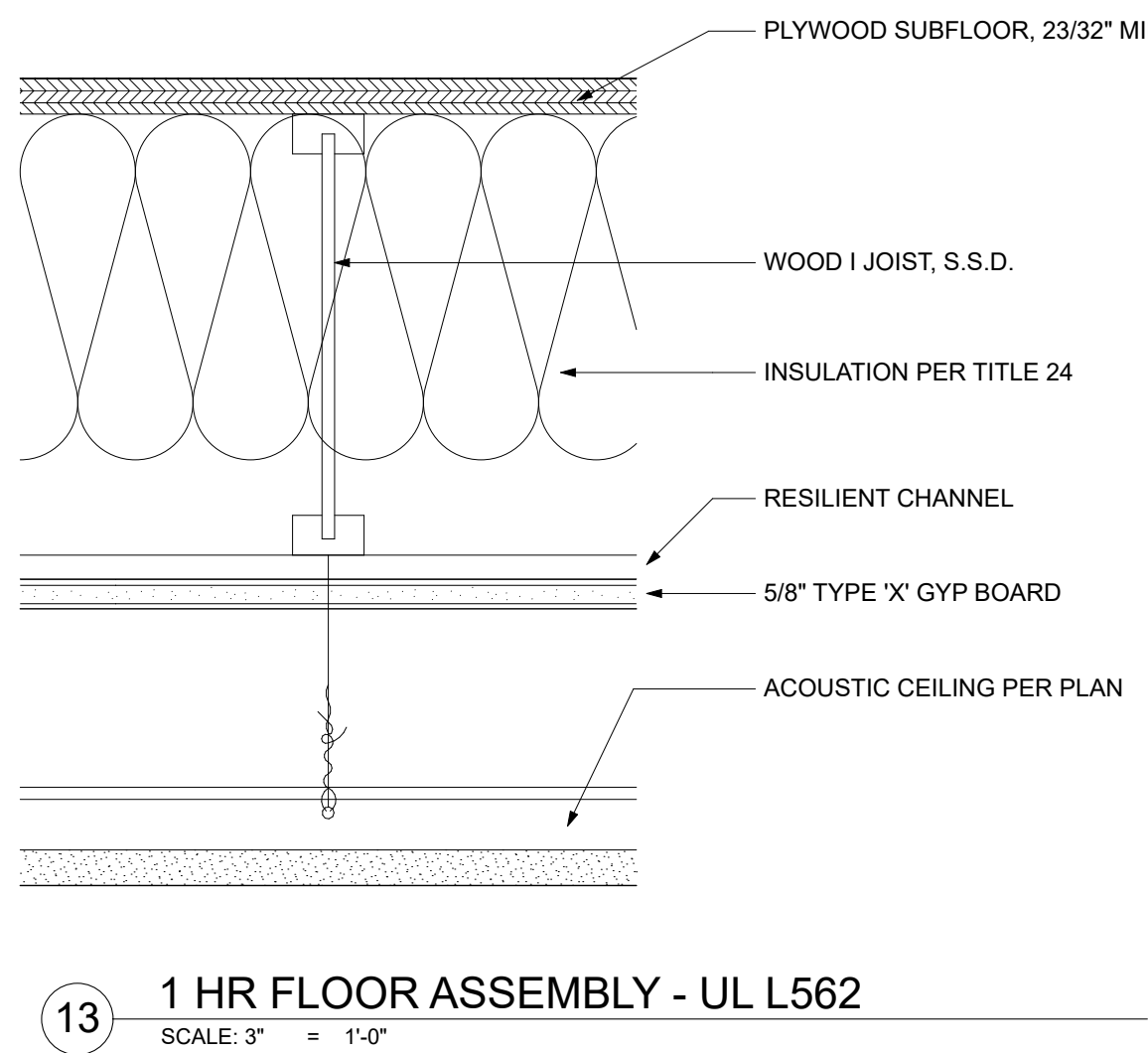
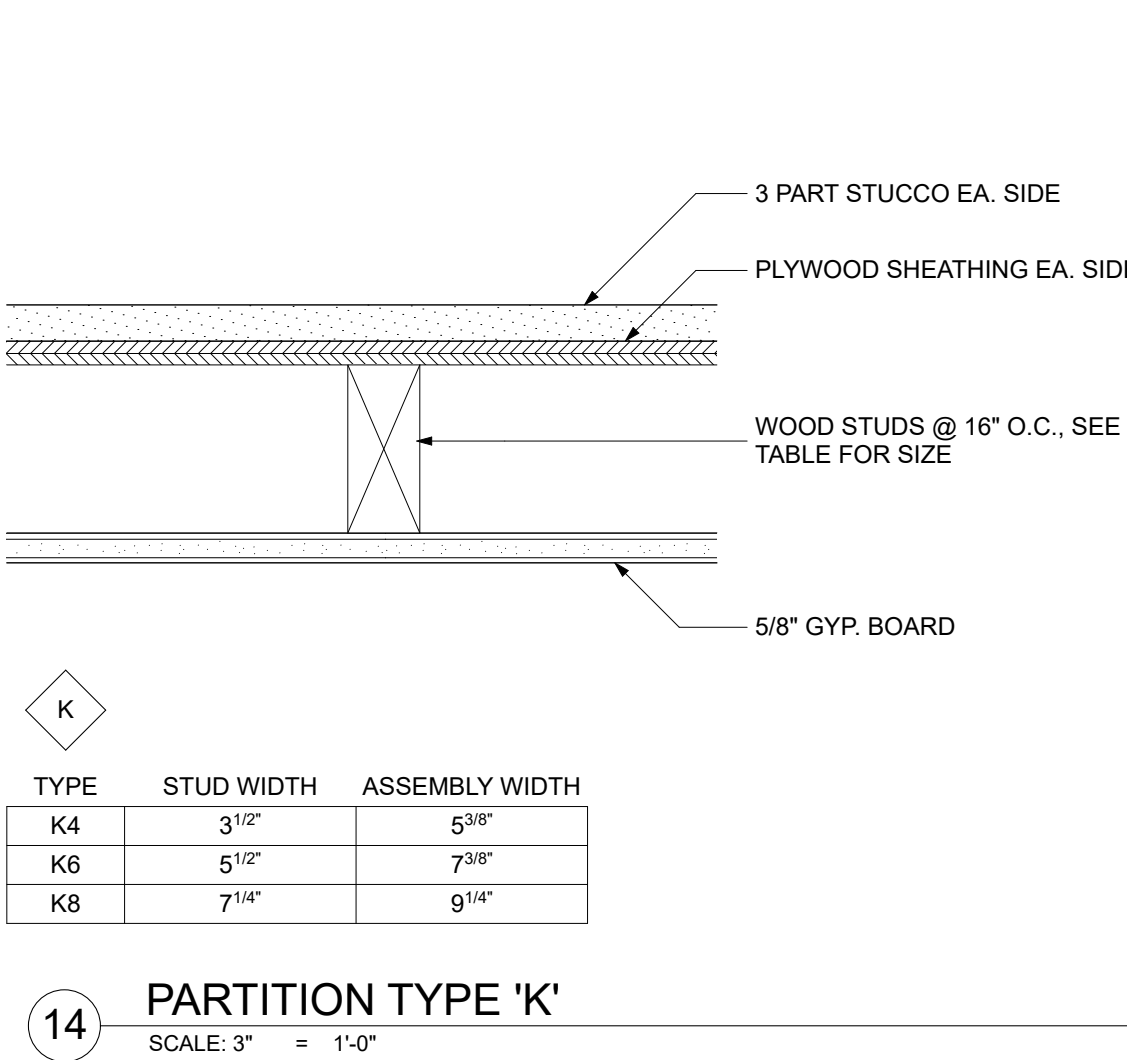
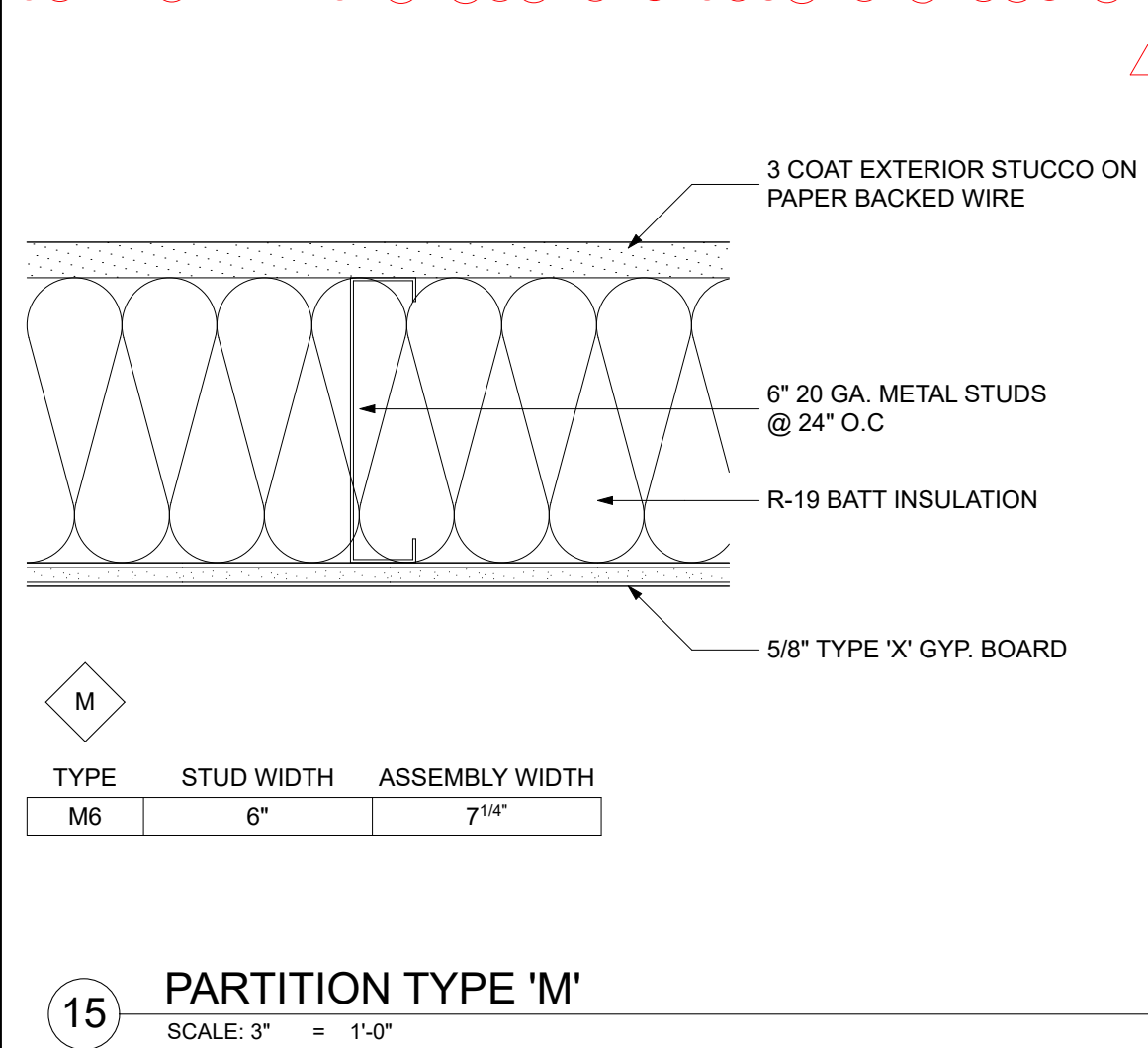
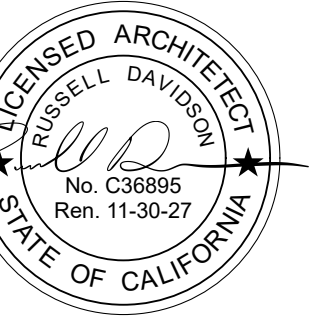
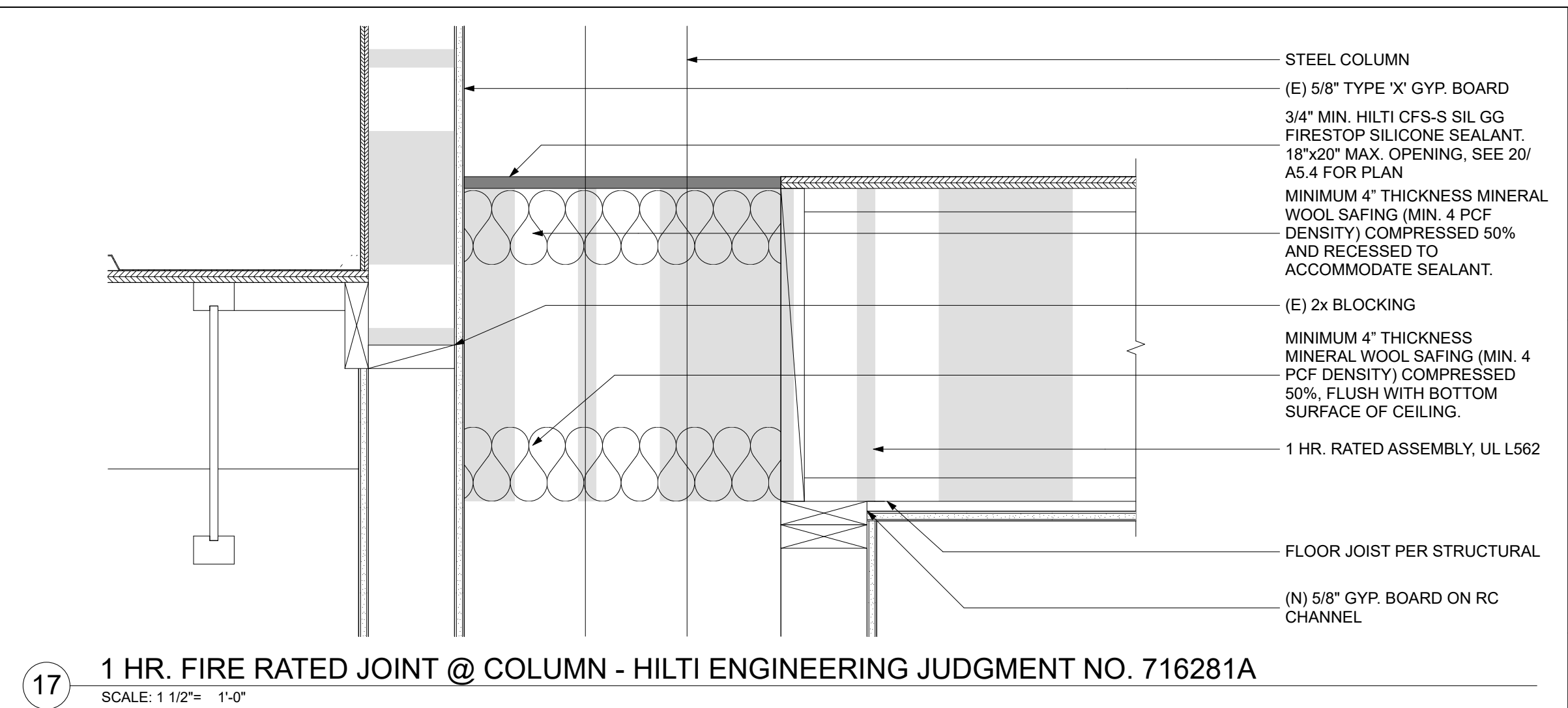
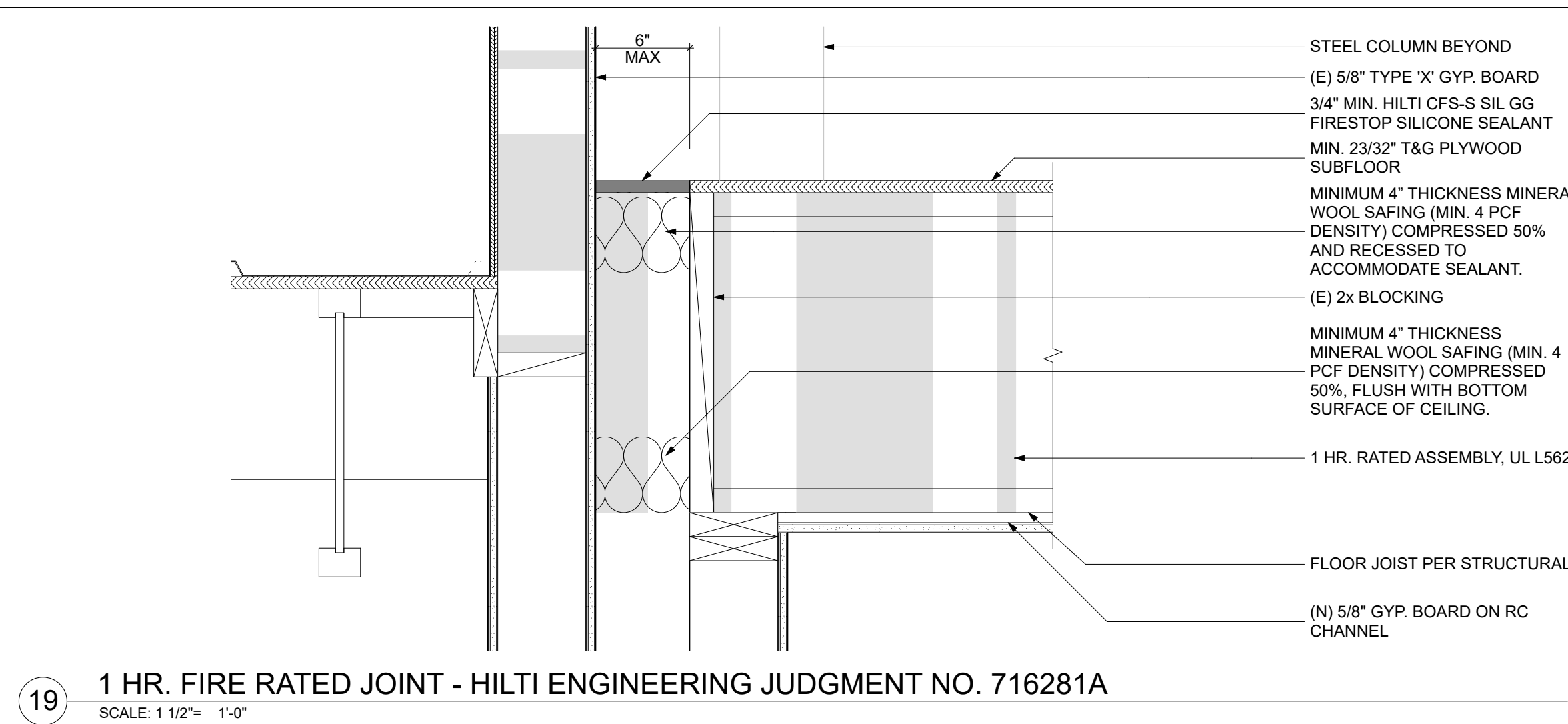
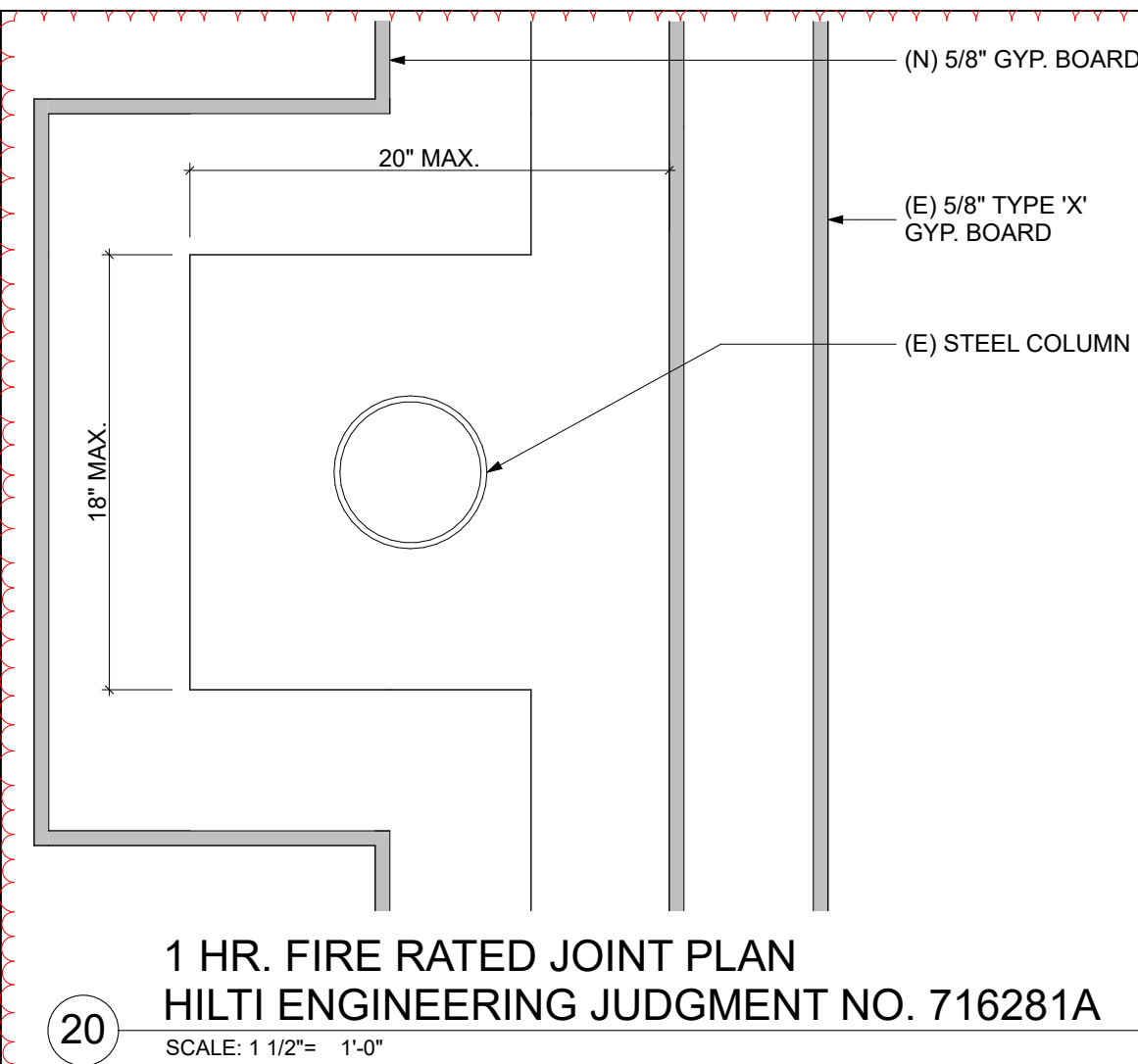
3 TYP. SUSPENDED CEILING STABILIZER BAR
SCALE: 1 1/2" = 1'-0"



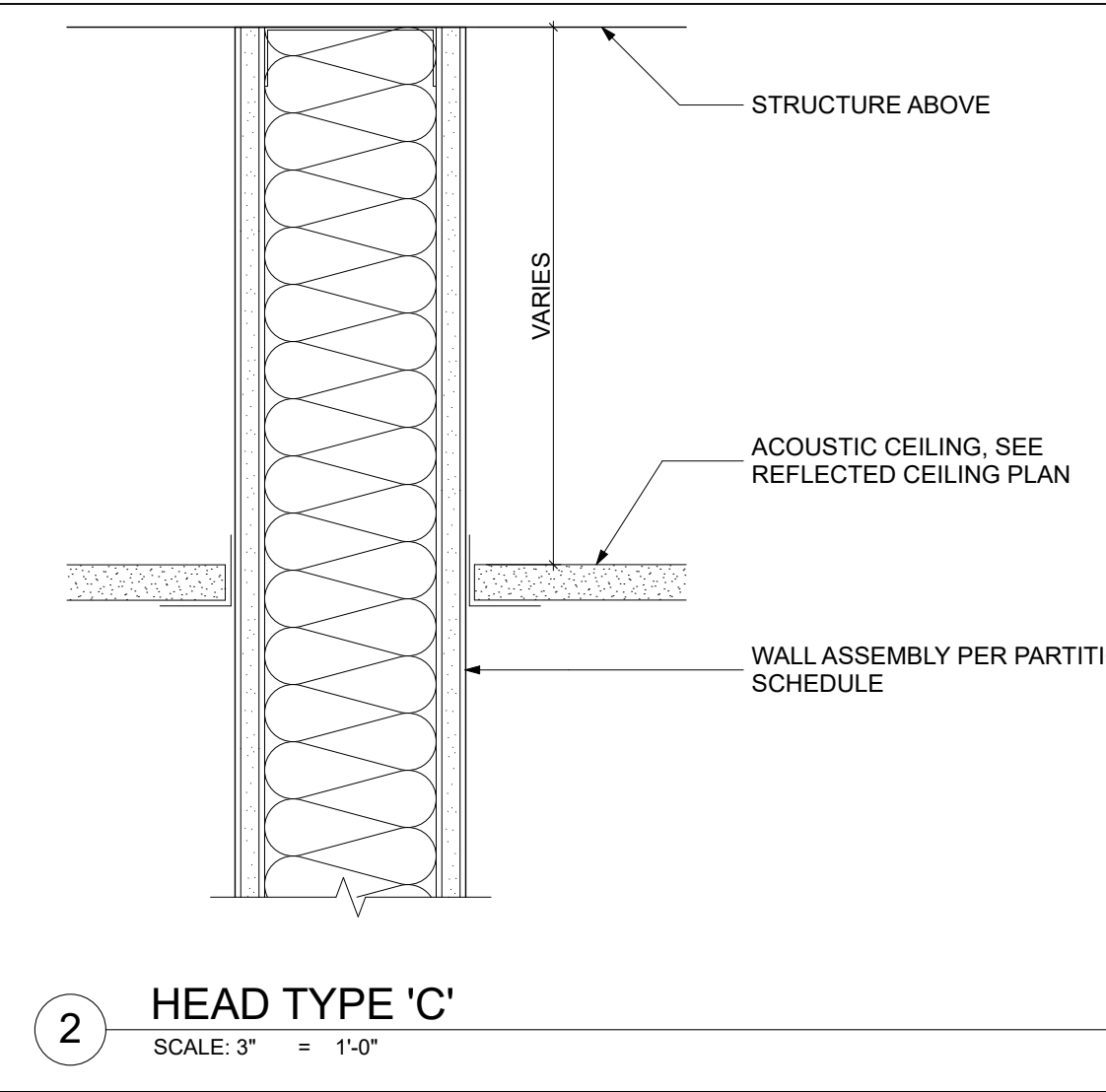
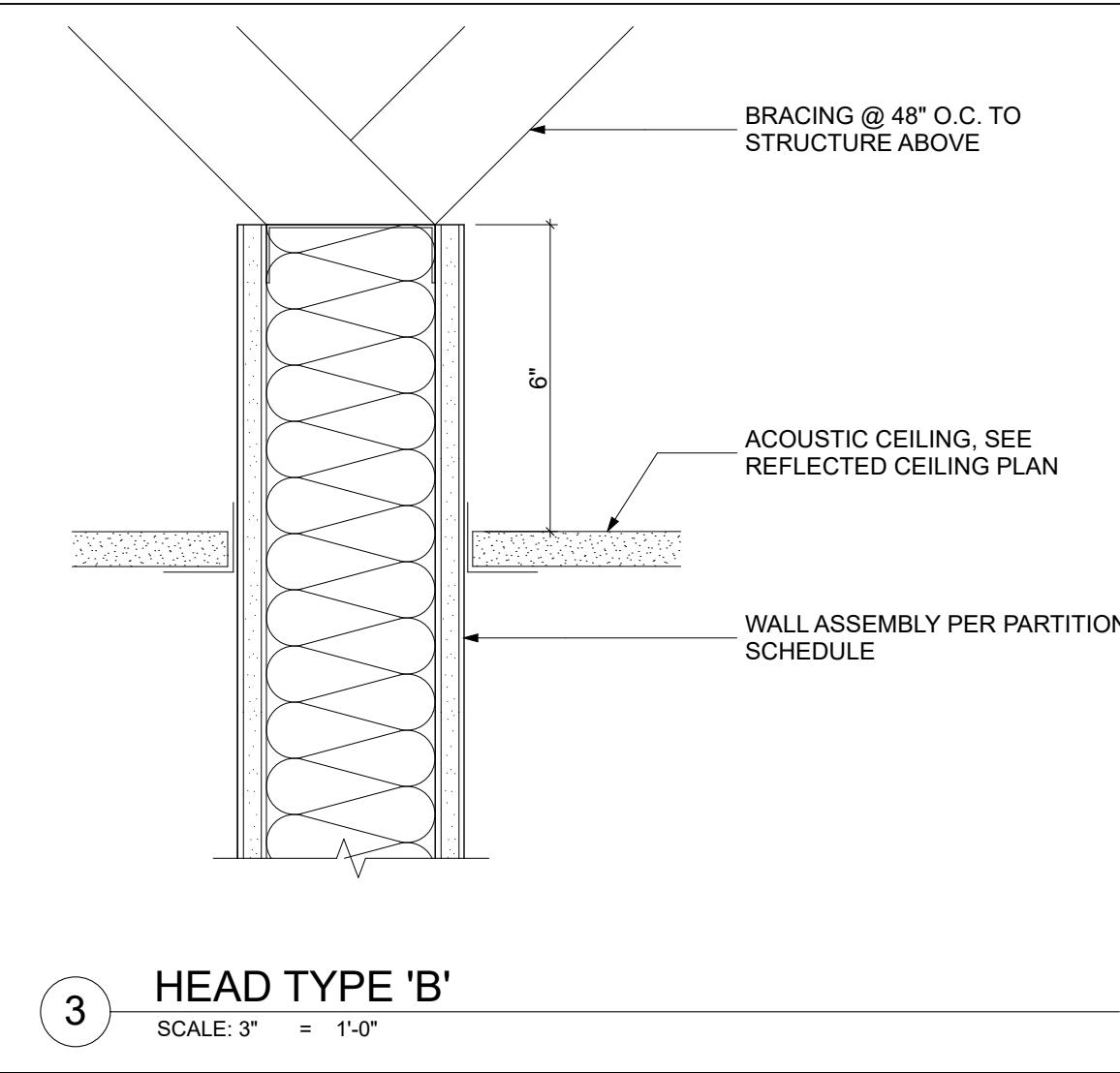
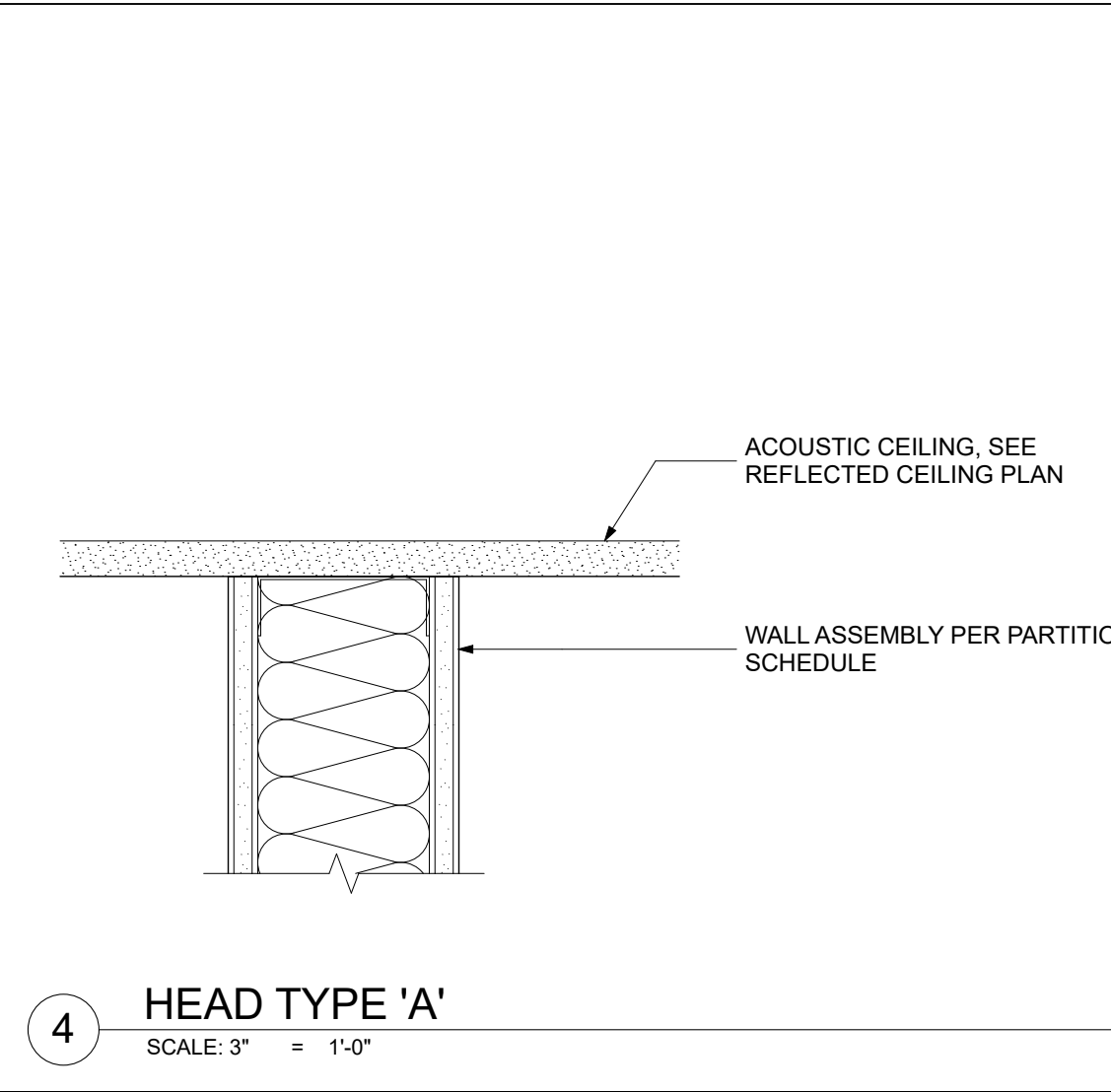
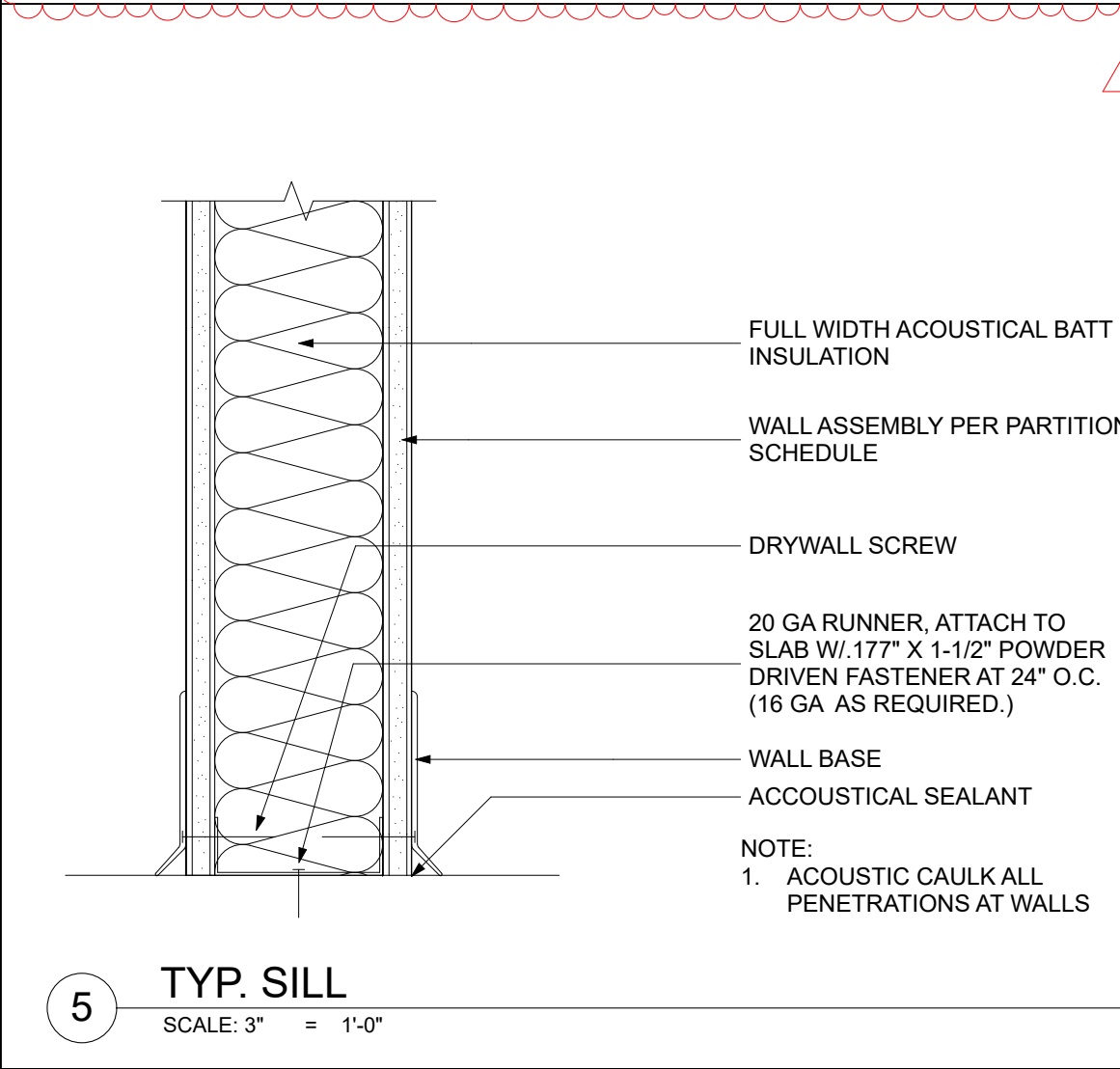
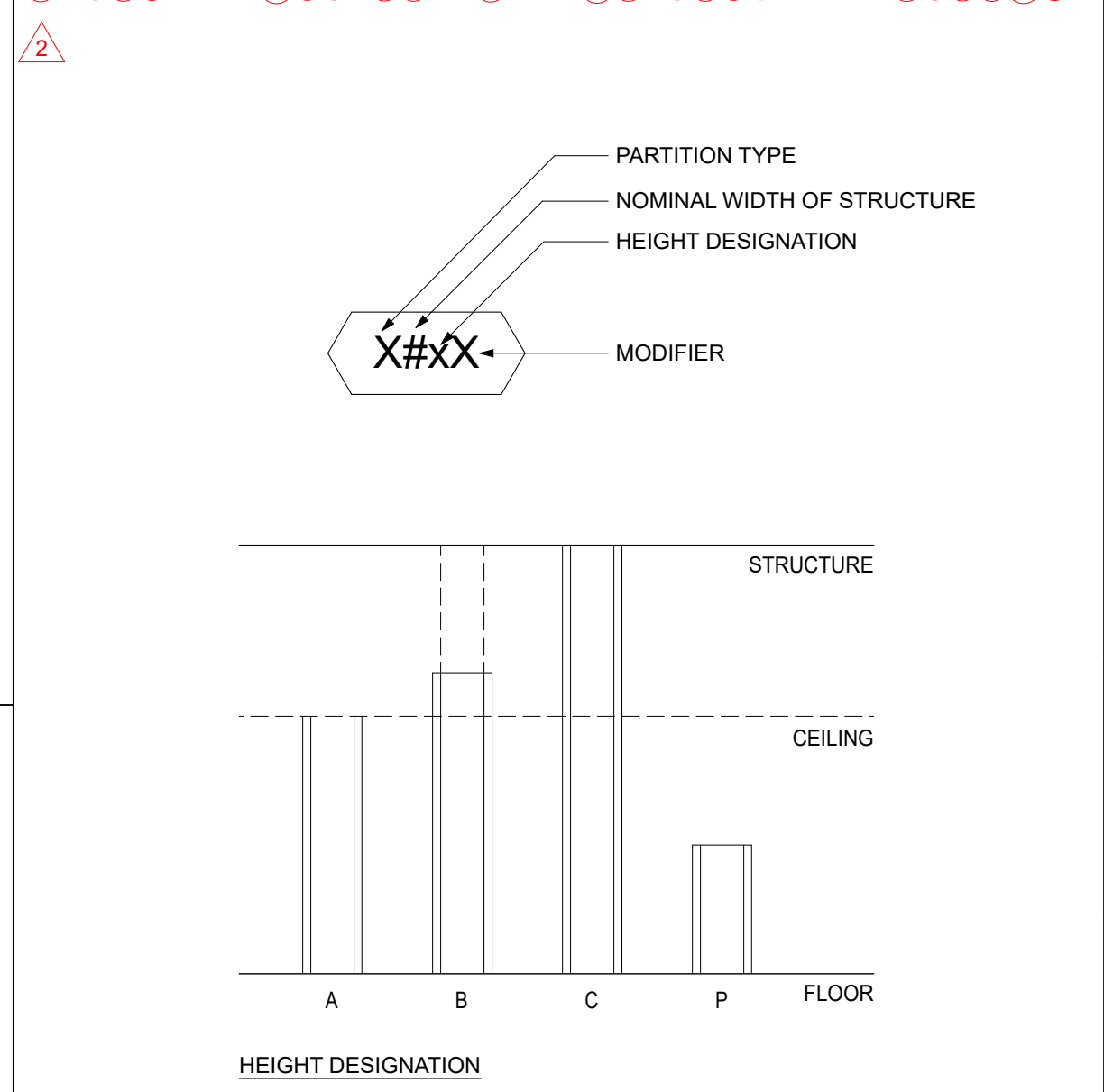
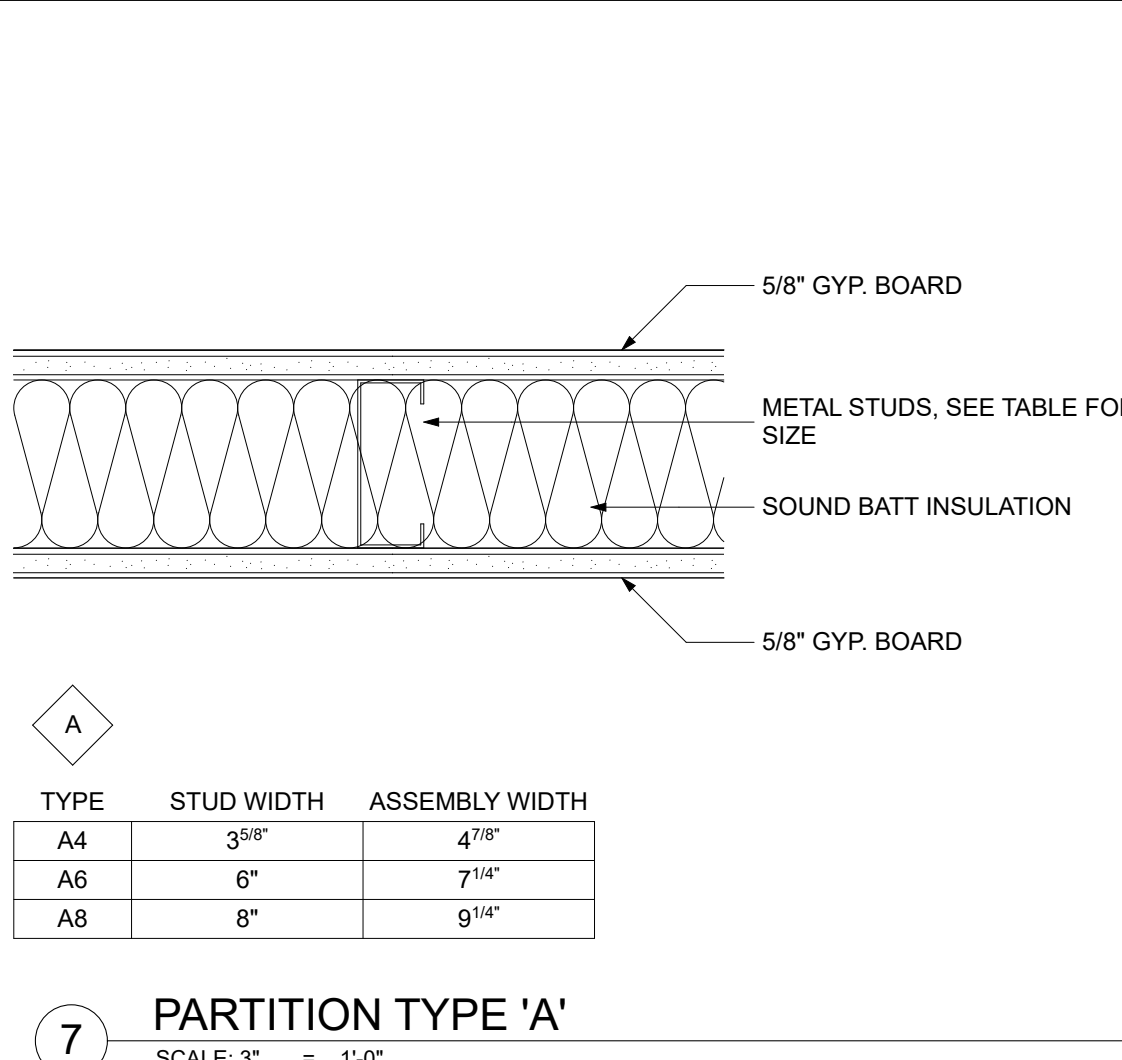
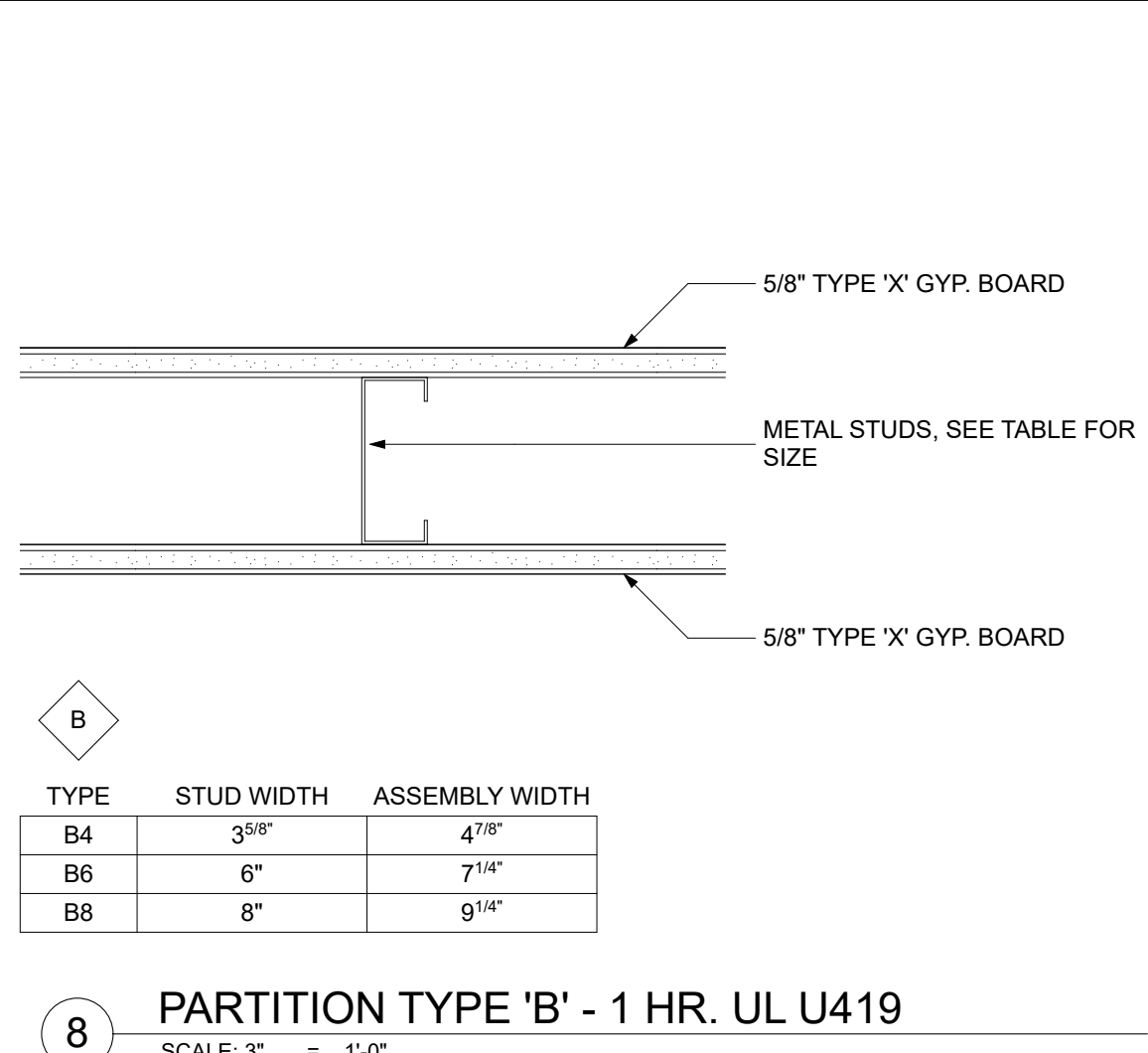
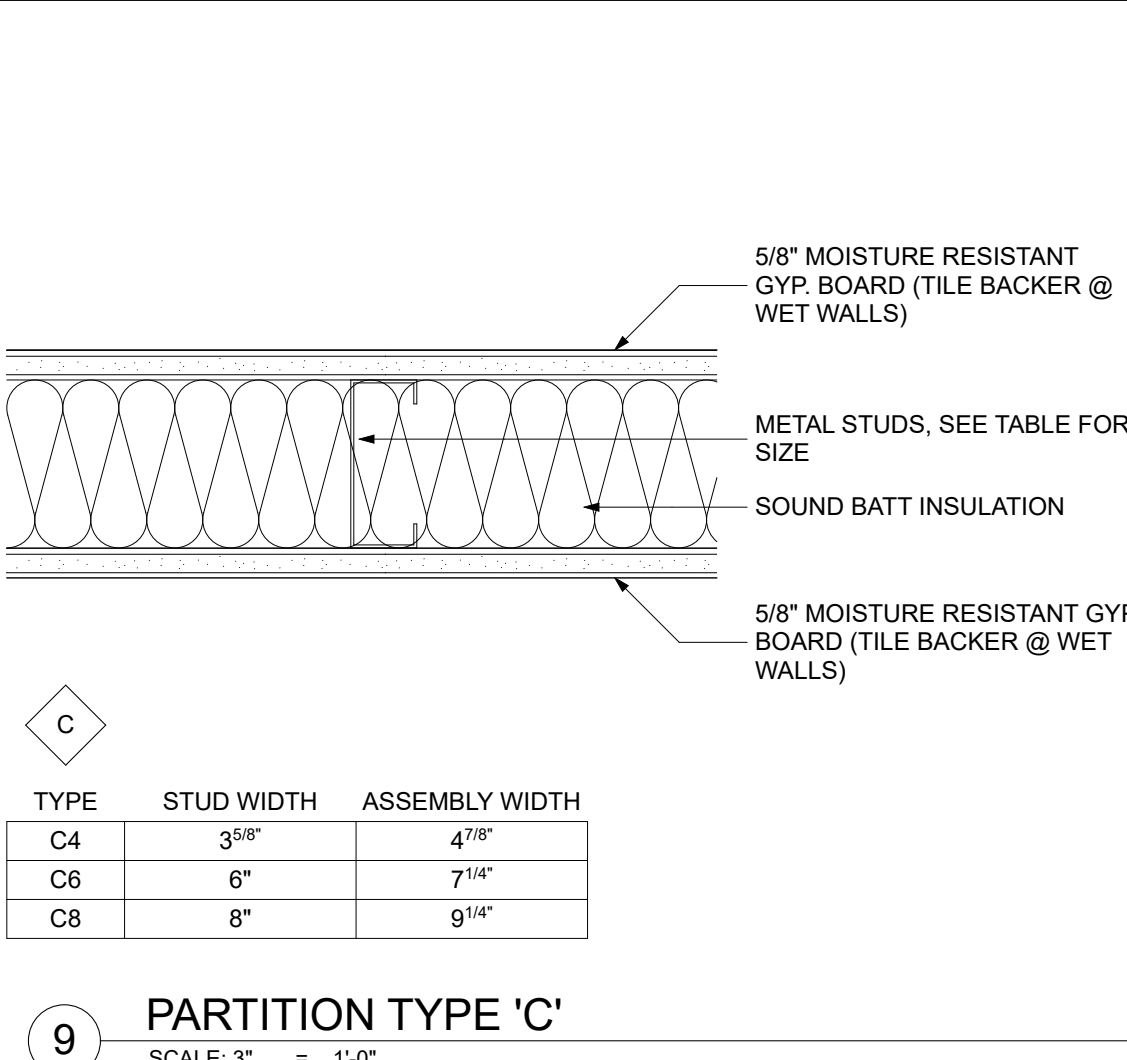
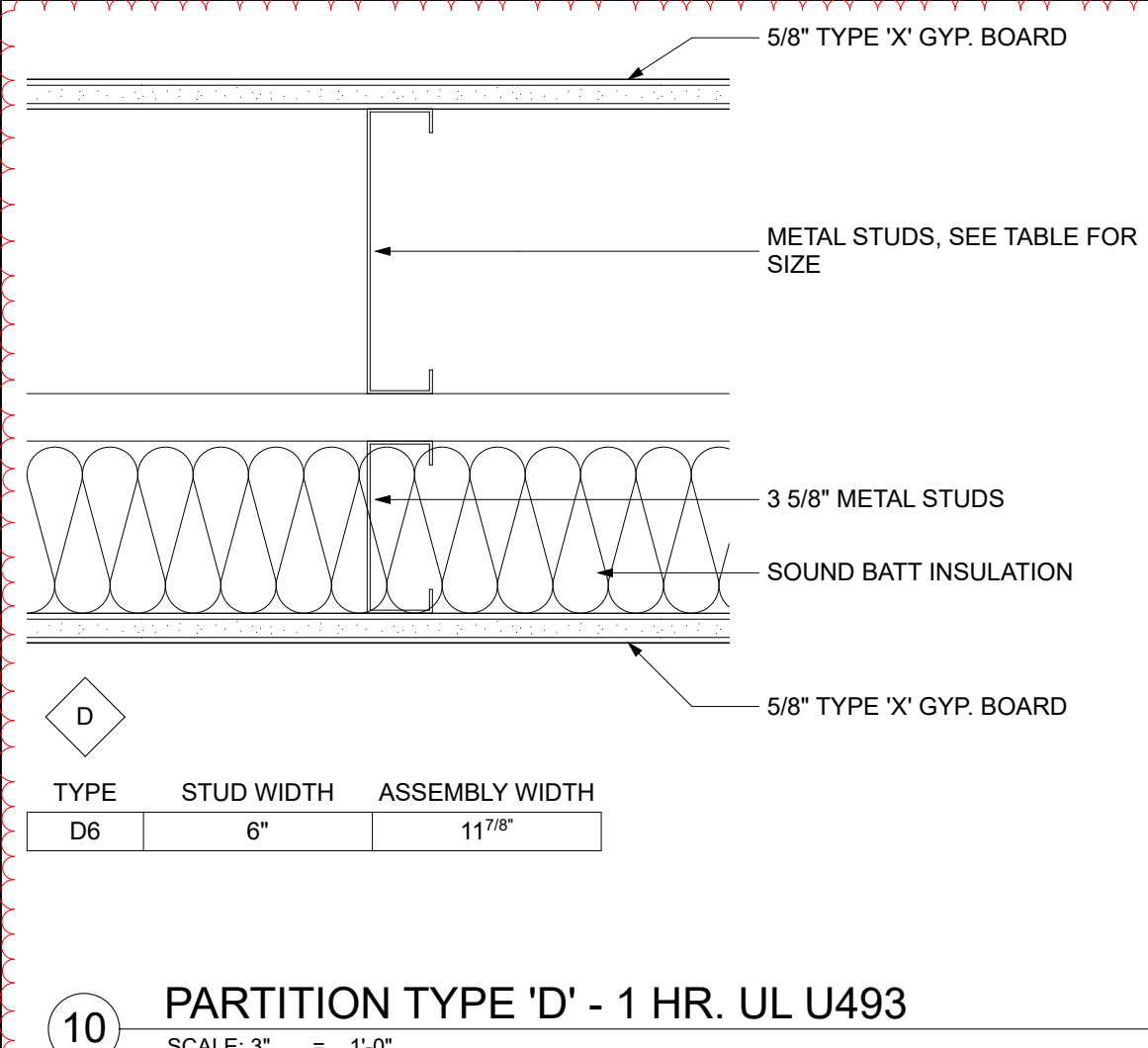
2 TYP. SUSPENDED CEILING LAYOUT
SCALE: 1 1/2" = 1'-0"

NOTES:

1. BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE RIGID WIRES.
2. PROVIDE STRUTTEE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUED AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
3. SUBSTITUTES FOR BRACING & BRACE WIRES AT ALL FROM ALL UNBRACED DUCTS, PIPES, COUPLERS, ETC. IS ACCEPTABLE TO ATTACH LIGHT WEIGHT ITEMS, SUCH A SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO SOA/SSS OR OSHPD.
4. PROVIDE NEW BLOCKING AT STRUCTURE ABOVE WHERE EXISTING STRUCTURAL MEMBERS DO NOT MEET WITH HANGER WIRES.
5. THE WIDTH OF PERIMETER CLOSURE ANGLE SHALL BE 2" MINIMUM IN WIDTH, IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A MINIMUM 6 7/8" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE TO THE OTHER END OF THE CEILING.
6. FOR CEILING AREA EXCEEDING 1,000 S.F. HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED.
7. FOR CEILING AREA EXCEEDING 2,500 S.F., A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREA NOT EXCEEDING 2,500 S.F. SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSIS IS PERFORMED ON THE CEILING HANGER SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT.
8. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, PENETRATIONS SHALL BE 1/2" OVERSIZE RING, 3/4" OVERSIZE ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS IS PERMITTED.
9. CHANGES IN CEILING PLANE ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING. LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY ADJUSTABLE HANGERS. IF LIGHT FIXTURES REIGNS OVER THE CEILING, THE ATTACHMENT SHALL COMPLY WITH ASCE 7-05 SECTION 13.6.1 AND 13.14.10.
11. ANY LOAD OVER 400LB. ADDED TO THE CEILING SHOULD BE DESIGNED FOR GRAVITY AND SEISMIC LOAD.
12. ALL HANGING FIXTURES AND WIRING FOR LIGHT FIXTURES, EXIT SIGNS OR OTHER ELECTRICAL DEVICES SHALL BE UNAPPROVED AND SHALL BE INSTALLED IN CONDUIT OR OTHER WIRING METHOD APPROVED BY THE BUILDING DEPARTMENT.



1. DETAILS SHOWN ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE DESIGN INTENT. PROVIDE THE APPROPRIATE TESTED AND LISTED SYSTEM FOR THE ACTUAL FIELD CONDITIONS.
2. PROVIDE TESTED AND LISTED FIRESTOP SYSTEMS AT ALL THROUGH PENETRATIONS, MEMBRANE PENETRATIONS, CONSTRUCTION JOINTS, PERIMETER JOINTS, AND OTHER OPENINGS IN FIRE-RESISTANCE-RATED ASSEMBLIES TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING IN ACCORDANCE WITH CBC SECTIONS 714 AND 715.
3. INSTALL FIRESTOP SYSTEMS IN ACCORDANCE WITH ASTM E814 (UL 1479) FOR PENETRATION FIRESTOP SYSTEMS, ASTM E1966 (UL 2079) FOR FIRE-RESISTIVE JOINT SYSTEMS, THE APPLICABLE LISTING, AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
4. SELECT FIRESTOP SYSTEMS BASED ON THE FIRE-RESISTANCE RATING OF THE ASSEMBLY, PENETRANT TYPE, ANNULAR SPACE, JOINT WIDTH, AND REQUIRED MOVEMENT CAPABILITY.
5. FIRESTOP SYSTEMS SHALL PROVIDE AN F-RATING EQUAL TO THE REQUIRED FIRE-RESISTANCE RATING OF THE ASSEMBLY. WHERE REQUIRED BY CBC SECTION 714, PROVIDE A T-RATING EQUAL TO THE REQUIRED FIRE-RESISTANCE RATING OF THE HORIZONTAL ASSEMBLY.
6. PROTECT MEMBRANE PENETRATIONS AS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING OF THE ASSEMBLY IN ACCORDANCE WITH CBC SECTION 714.
7. INSTALL RECESSED FIXTURES, ELECTRICAL BOXES, AND OTHER MEMBRANE PENETRATIONS SO AS NOT TO REDUCE THE REQUIRED FIRE-RESISTANCE RATING OF THE ASSEMBLY.
8. PROVIDE TESTED AND LISTED FIRE-RESISTIVE JOINT SYSTEMS AT ALL HEAD-OF-WALL, FLOOR-TO-WALL, PERIMETER, CONSTRUCTION, AND OTHER FIRE-RESISTIVE JOINTS IN ACCORDANCE WITH CBC SECTION 715.
9. MAINTAIN CONTINUITY OF FIRE-RESISTANCE-RATED ASSEMBLIES AT INTERSECTIONS, TERMINATIONS, PENETRATIONS, AND CHANGES IN CONSTRUCTION. DO NOT INTERRUPT THE REQUIRED MEMBRANES OF LISTED ASSEMBLIES EXCEPT AS PERMITTED BY THE APPLICABLE LISTED SYSTEM.



N.I.D. HYDRO OFFICE RENOVATION

COLFAX, CA 95713
APN: 100-230-054

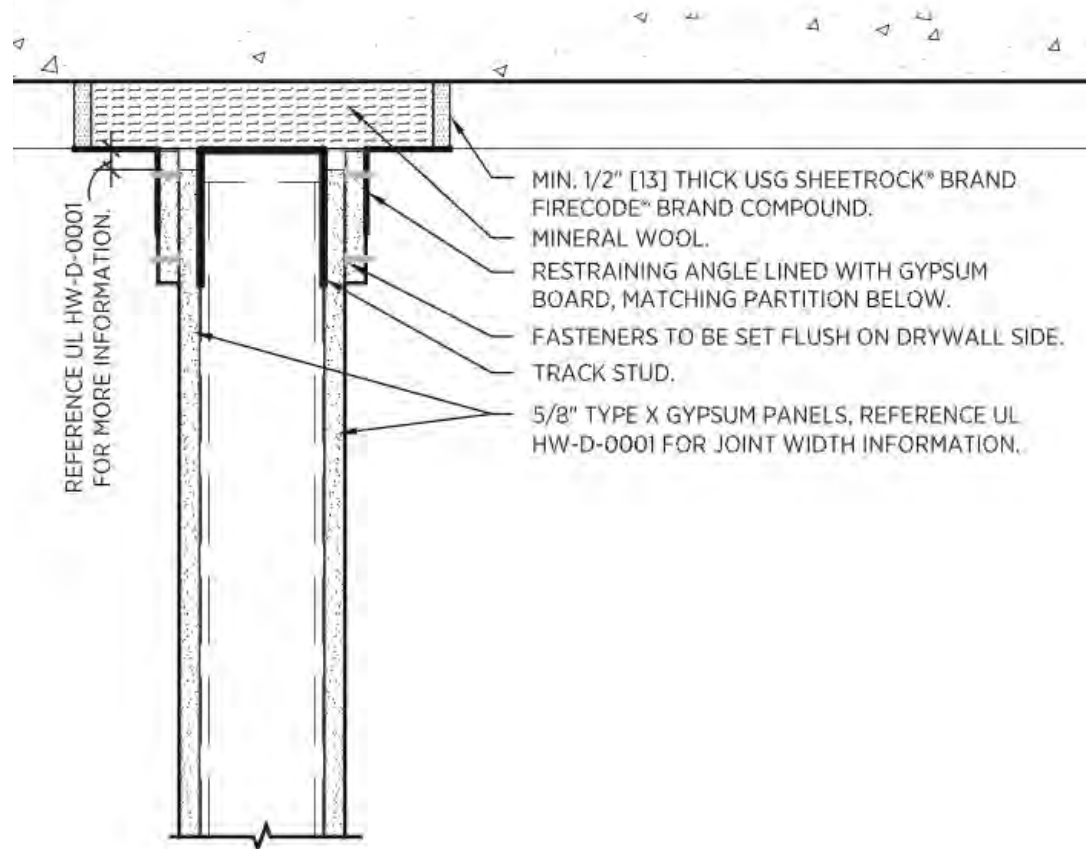
ID	NAME	DATE
1	REV 1	7/11/26
2	REV 2	8/5/26

SUBMITTED:	03/20/2026
SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

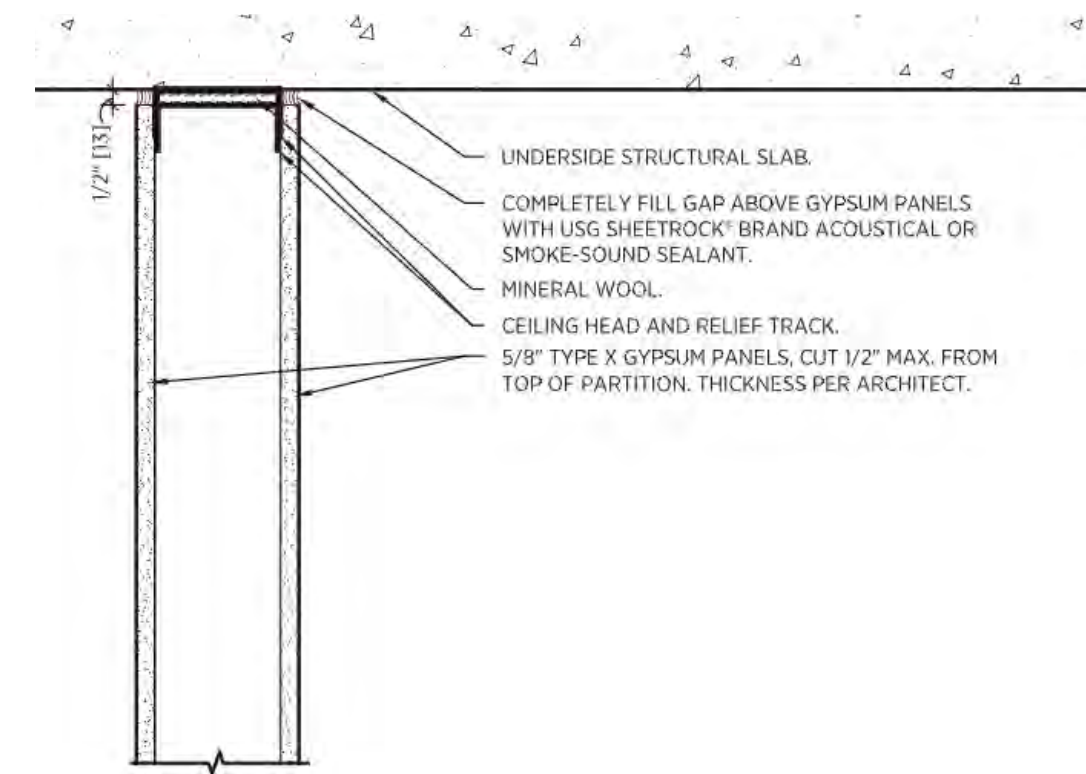
PARTITION DETAILS

A5.4

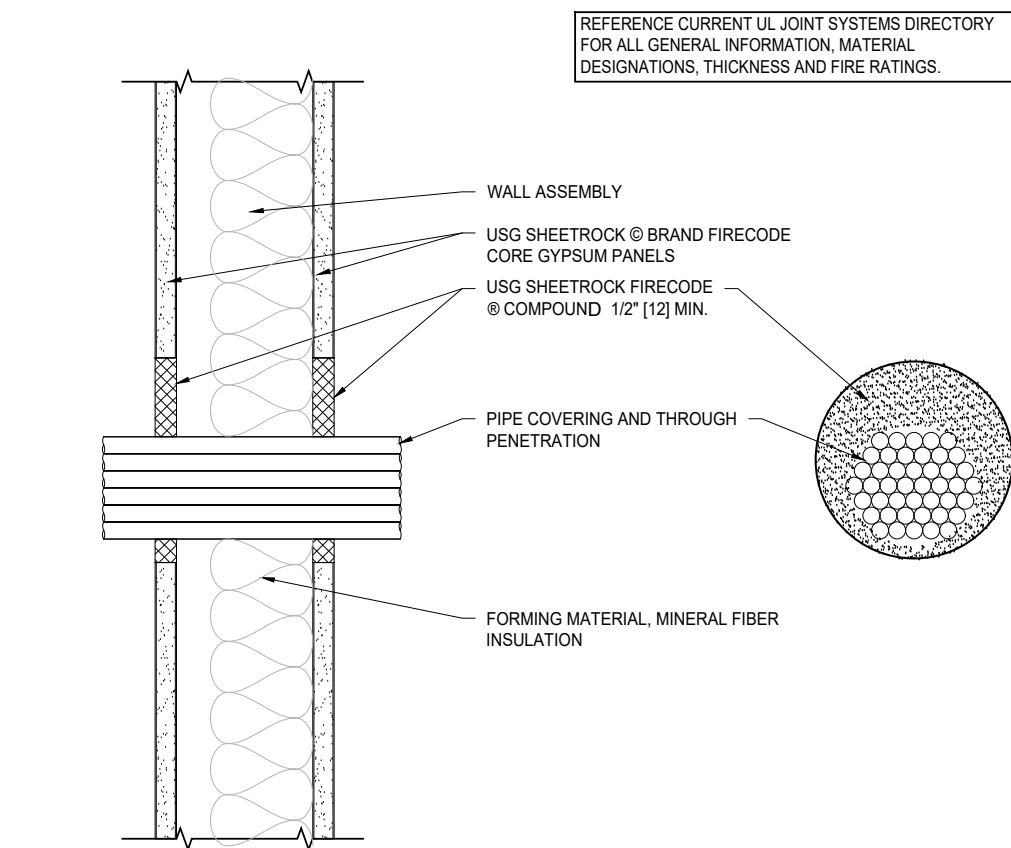
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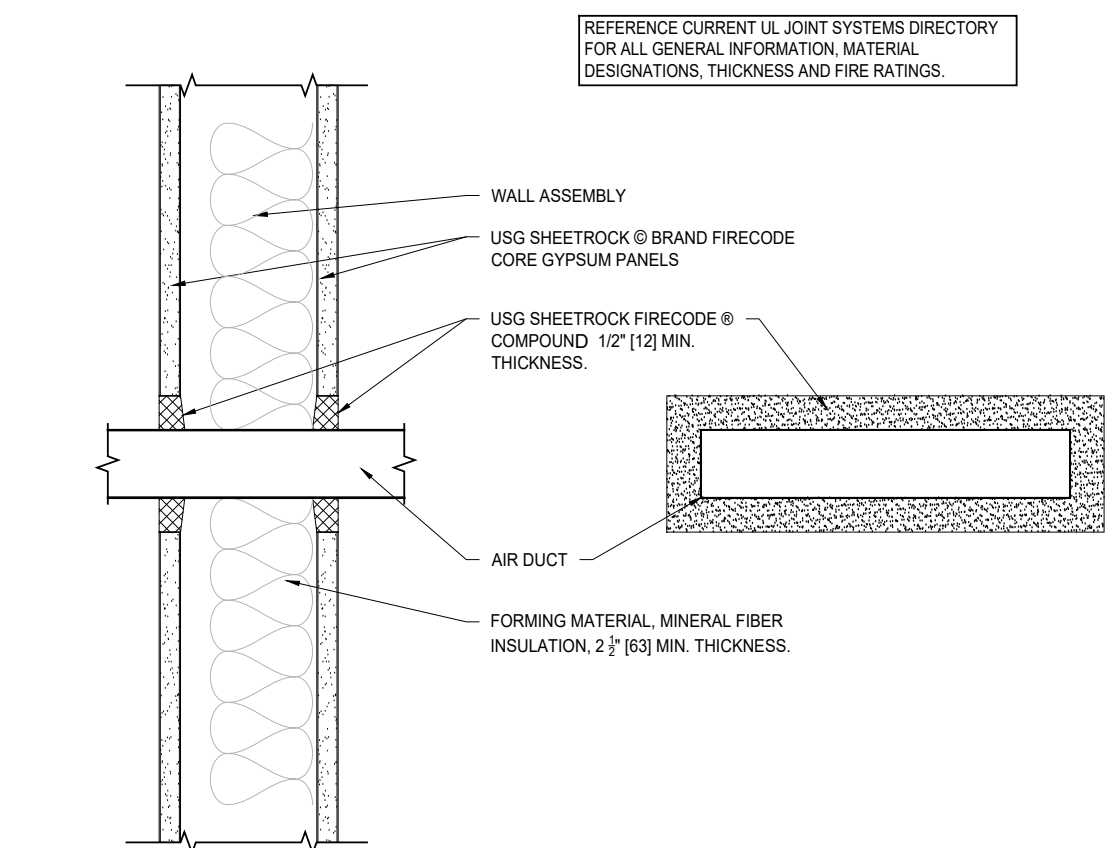
18 1-HR HEAD OF WALL UL HW-D-0001 (DYNAMIC)
SCALE: 1:1.74



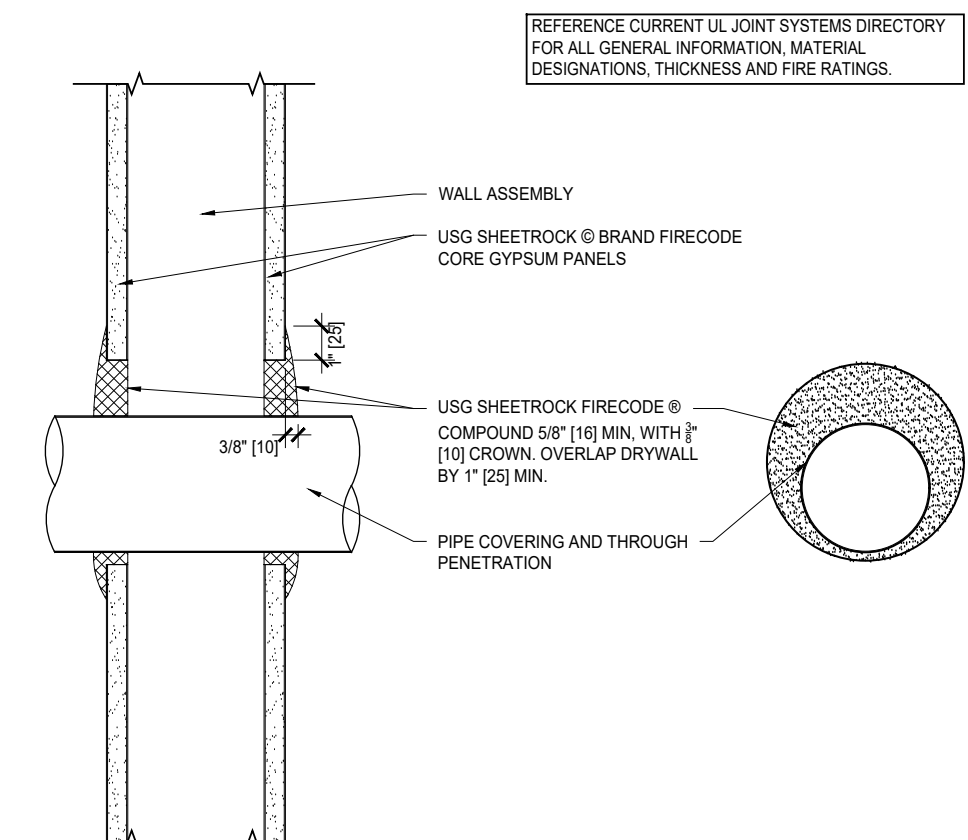
13 1-HR HEAD OF WALL UL HW-S-0009 (STATIC)
SCALE: 1:1.74



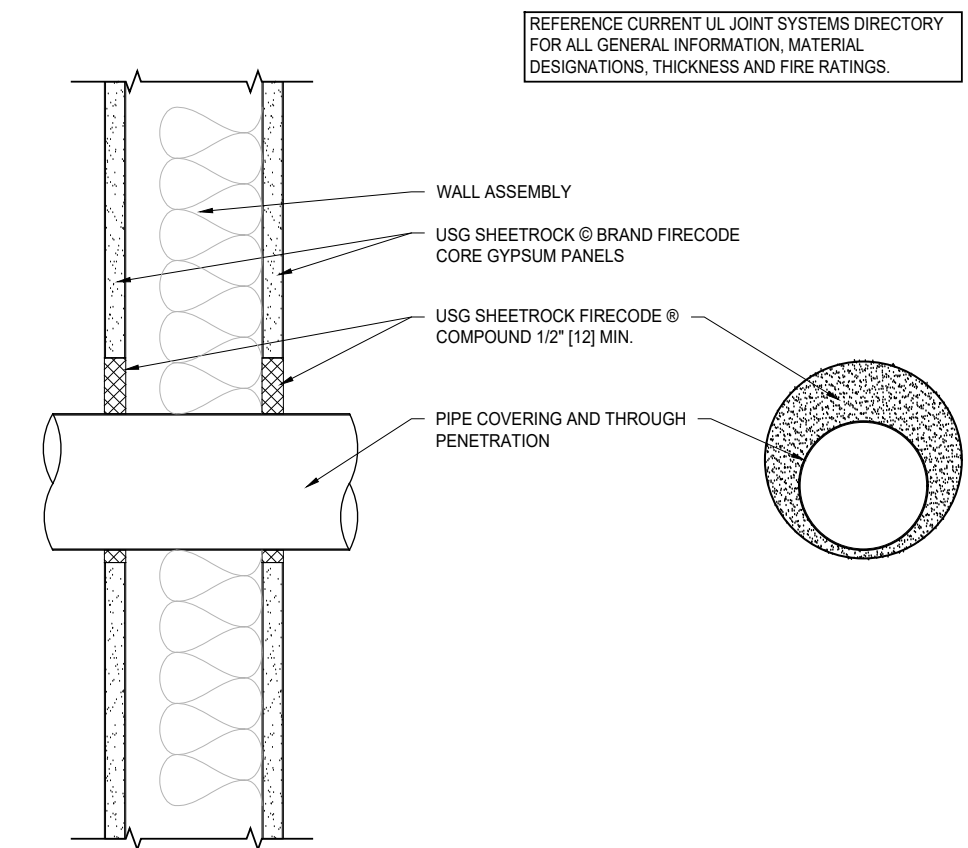
8 SYSTEM NO. W-L-3034
SCALE: 1:1.41



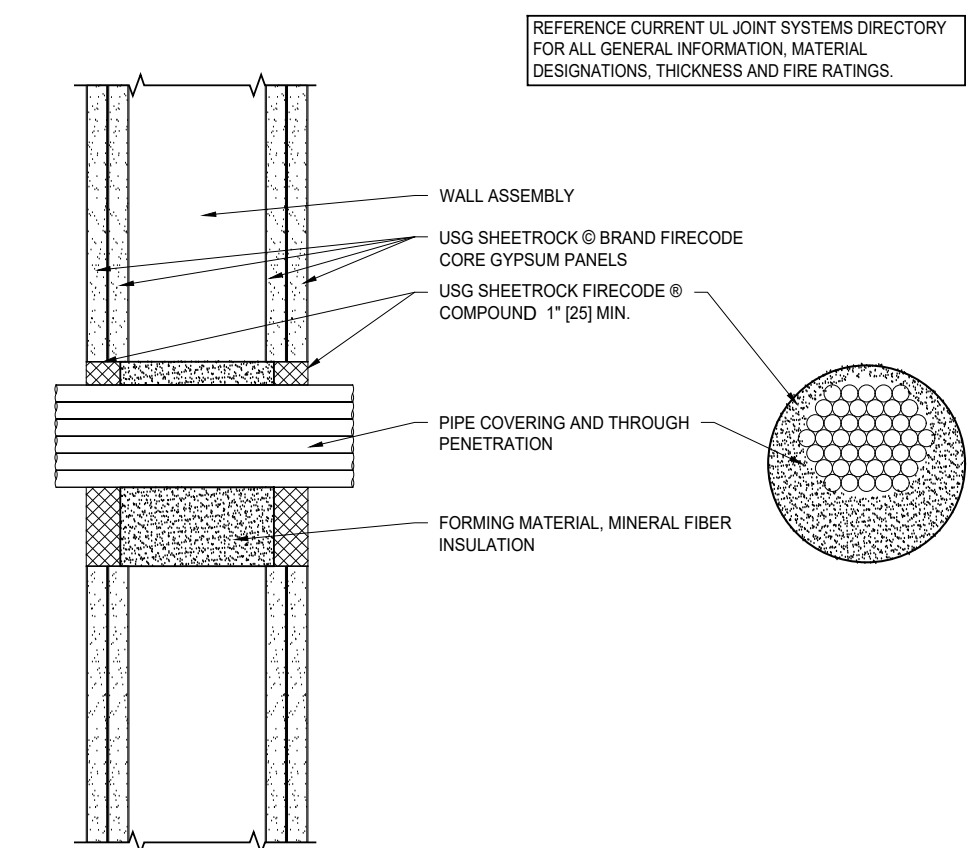
3 SYSTEM NO. W-L-7001
SCALE: 1:1.41



12 SYSTEM NO. W-L-1087
SCALE: 1:1.41



7 SYSTEM NO. W-L-1039
SCALE: 1:1.41



2 SYSTEM NO. W-L-3023
SCALE: 1:1.41

GENERAL NOTES

NOTES:

1. DETAILS SHOWN ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE DESIGN INTENT. PROVIDE THE APPROPRIATE TESTED AND LISTED SYSTEM FOR THE ACTUAL FIELD CONDITIONS.
2. PROVIDE TESTED AND LISTED FIRESTOP SYSTEMS AT ALL THROUGH PENETRATIONS, MEMBRANE PENETRATIONS, CONSTRUCTION JOINTS, PERIMETER JOINTS, AND OTHER OPENINGS IN FIRE-RESISTANCE-RATED ASSEMBLIES TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING IN ACCORDANCE WITH CBC SECTIONS 714 AND 715.
3. INSTALL FIRESTOP SYSTEMS IN ACCORDANCE WITH ASTM E814 (UL 1479) FOR PENETRATION FIRESTOP SYSTEMS, ASTM E1966 (UL 2079) FOR FIRE-RESISTIVE JOINT SYSTEMS, THE APPLICABLE LISTING, AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
4. SELECT FIRESTOP SYSTEMS BASED ON THE FIRE-RESISTANCE RATING OF THE ASSEMBLY, PENETRANT TYPE, ANNULAR SPACE, JOINT WIDTH, AND REQUIRED MOVEMENT CAPABILITY.
5. FIRESTOP SYSTEMS SHALL PROVIDE AN F-RATING EQUAL TO THE REQUIRED FIRE-RESISTANCE RATING OF THE ASSEMBLY. WHERE REQUIRED BY CBC SECTION 714, PROVIDE A T-RATING EQUAL TO THE REQUIRED FIRE-RESISTANCE RATING OF THE HORIZONTAL ASSEMBLY.
6. PROTECT MEMBRANE PENETRATIONS AS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING OF THE ASSEMBLY IN ACCORDANCE WITH CBC SECTION 714.
7. INSTALL RECESSED FIXTURES, ELECTRICAL BOXES, AND OTHER MEMBRANE PENETRATIONS SO AS NOT TO REDUCE THE REQUIRED FIRE-RESISTANCE RATING OF THE ASSEMBLY.
8. PROVIDE TESTED AND LISTED FIRE-RESISTIVE JOINT SYSTEMS AT ALL HEAD-OF-WALL, FLOOR-TO-WALL, PERIMETER, CONSTRUCTION, AND OTHER FIRE-RESISTIVE JOINTS IN ACCORDANCE WITH CBC SECTION 715.
9. MAINTAIN CONTINUITY OF FIRE-RESISTANCE-RATED ASSEMBLIES AT INTERSECTIONS, TERMINATIONS, PENETRATIONS, AND CHANGES IN CONSTRUCTION. DO NOT INTERRUPT THE REQUIRED MEMBRANES OF LISTED ASSEMBLIES EXCEPT AS PERMITTED BY THE APPLICABLE LISTED SYSTEM.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

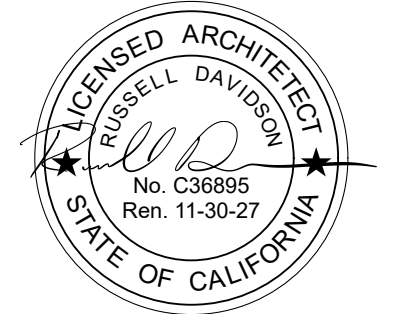
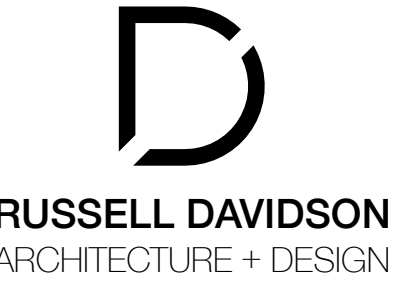
N.I.D. HYDRO OFFICE RENOVATION

ID	NAME	DATE
1	REV 1	7/11/26

SUBMITTED:	03/20/2026
SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2025.35

PENETRATION &
TOP OF WALL
DETAILS

A5.5



148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
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148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/2
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

INT. DOOR &
WINDOW DETAIL

A5.6

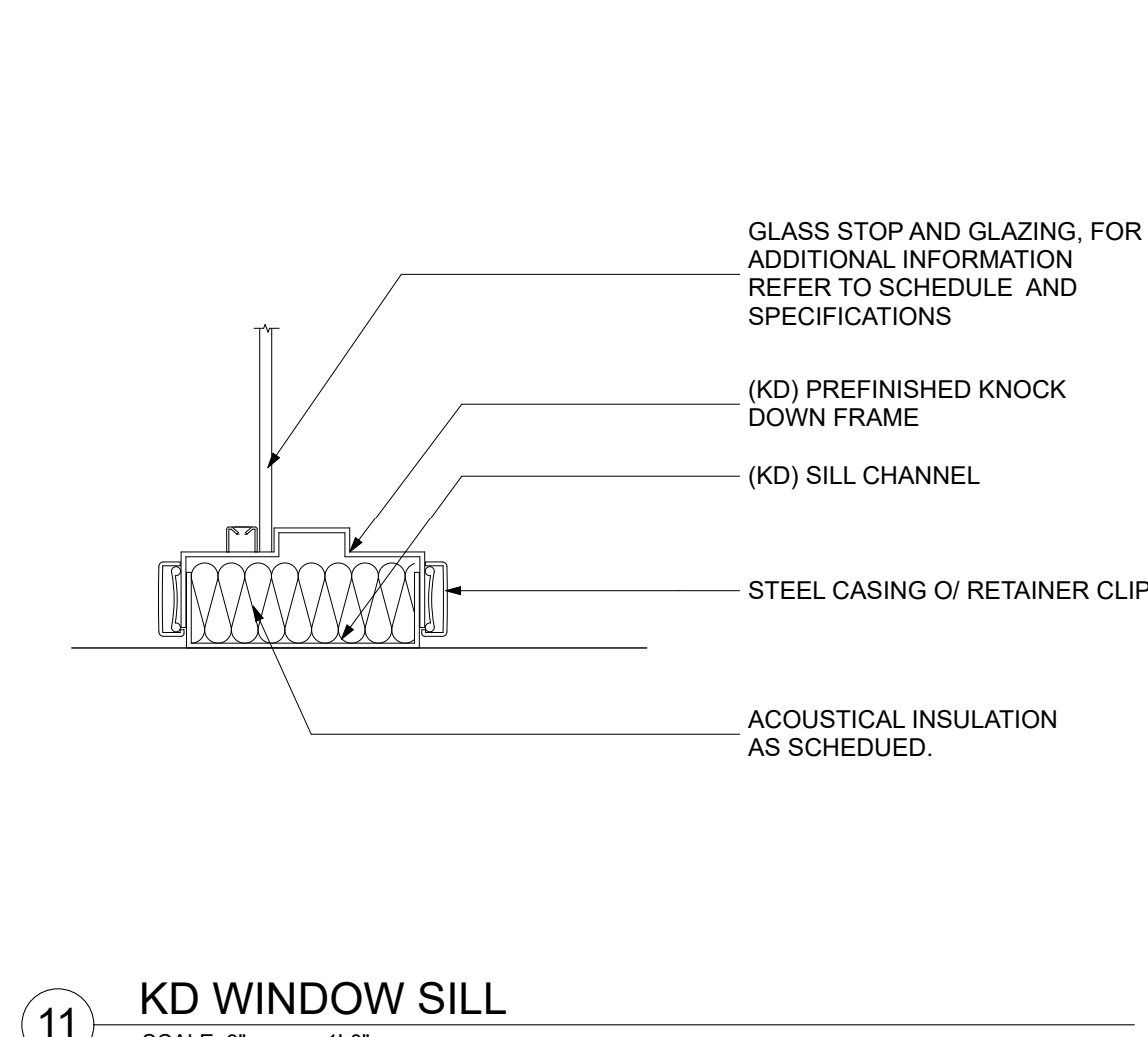
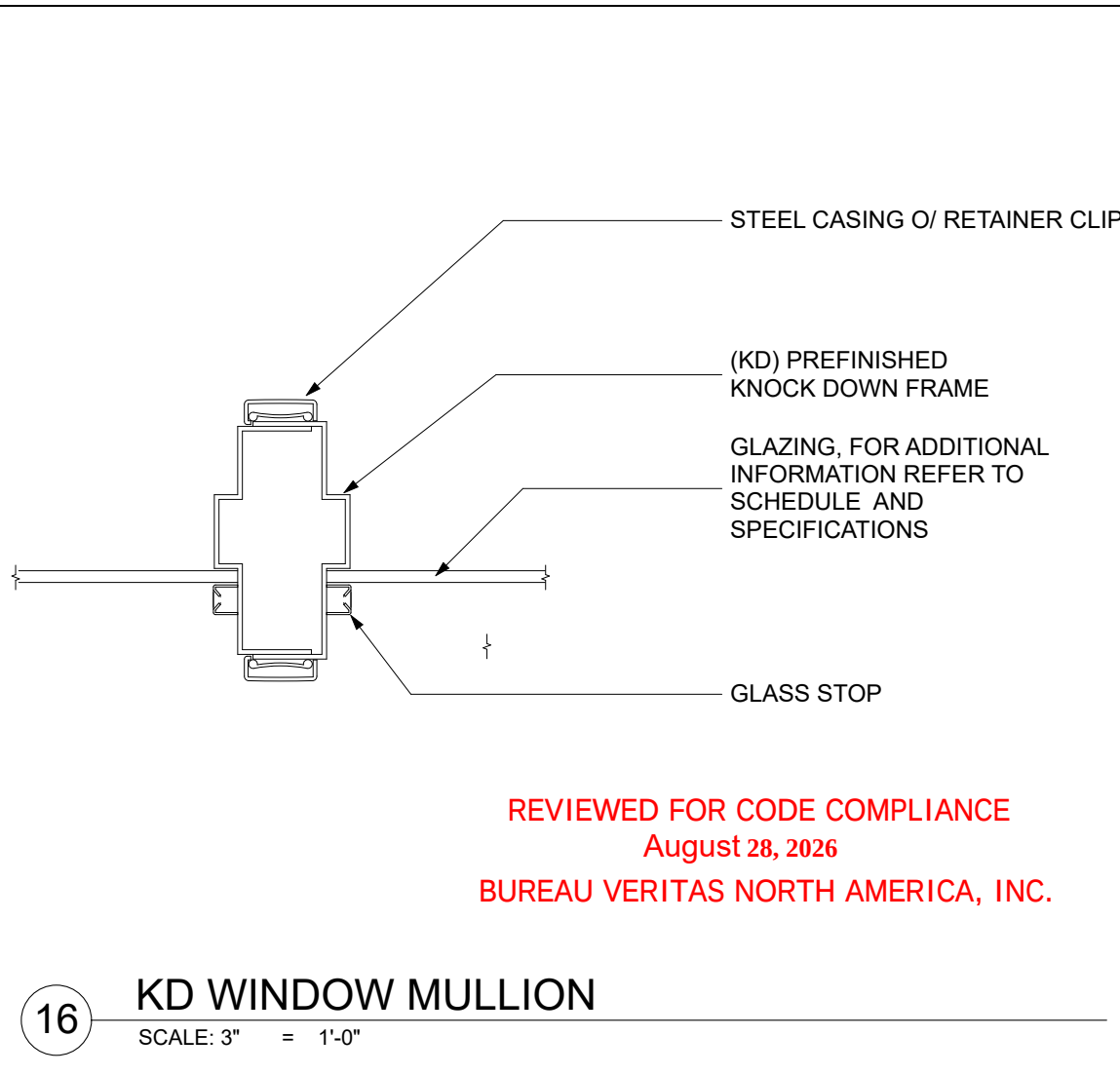
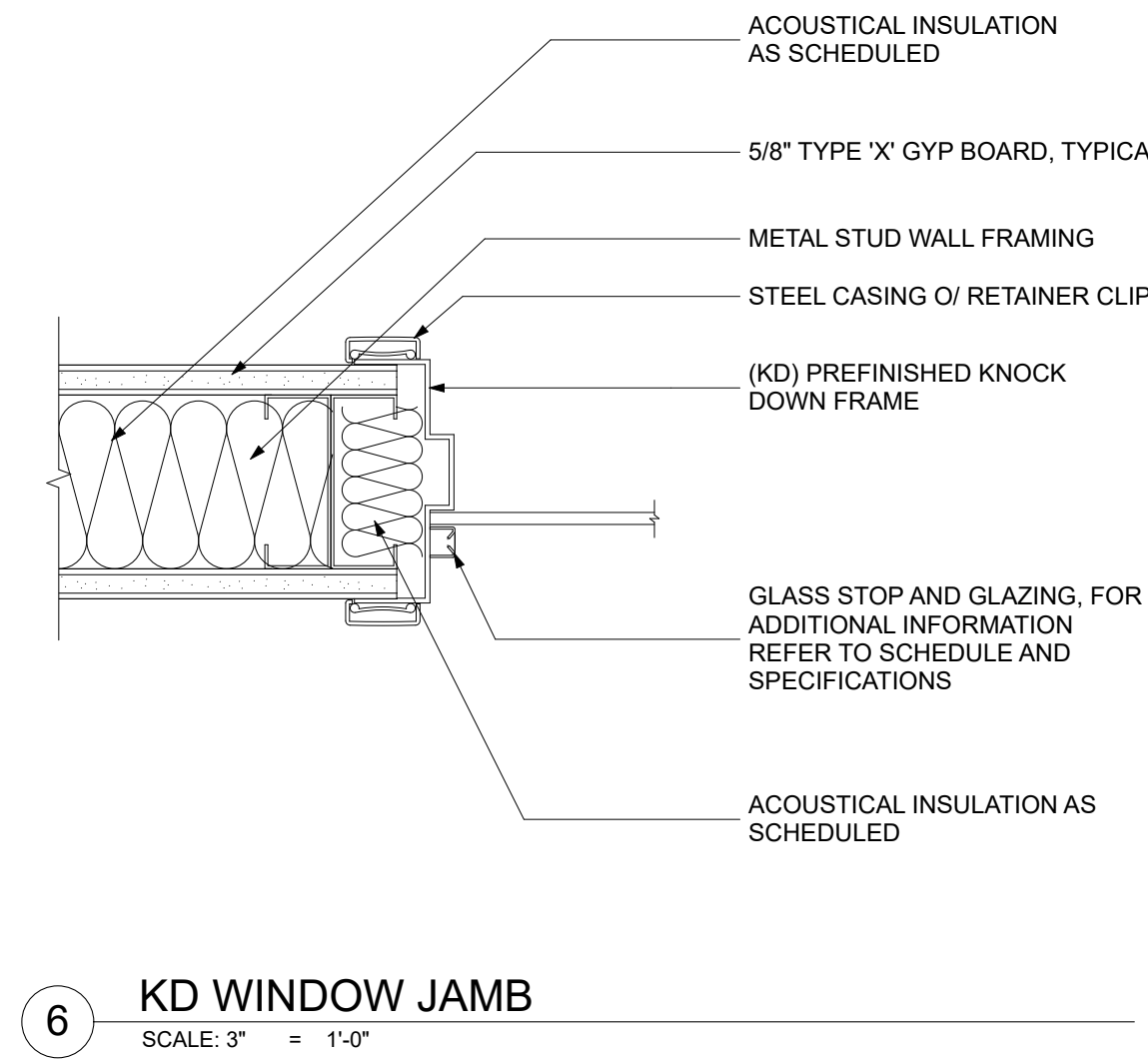


Diagram illustrating the KD Window Sill assembly components:

- GLASS STOP AND GLAZING, REFER TO SCHEDULE AND SPECIFICATIONS
- (KD) PREFINISHED KNOCK DOWN FRAME
- (KD) SILL CHANNEL
- STEEL CASING O/ RETAINER CLIP
- ACOUSTICAL INSULATION AS SCHEDULED.



ACOUSTICAL INSULATION AS SCHEDULED

5/8" TYPE 'X' GYP BOARD, TYPICAL

METAL STUD WALL FRAMING

STEEL CASING O/ RETAINER CLIP

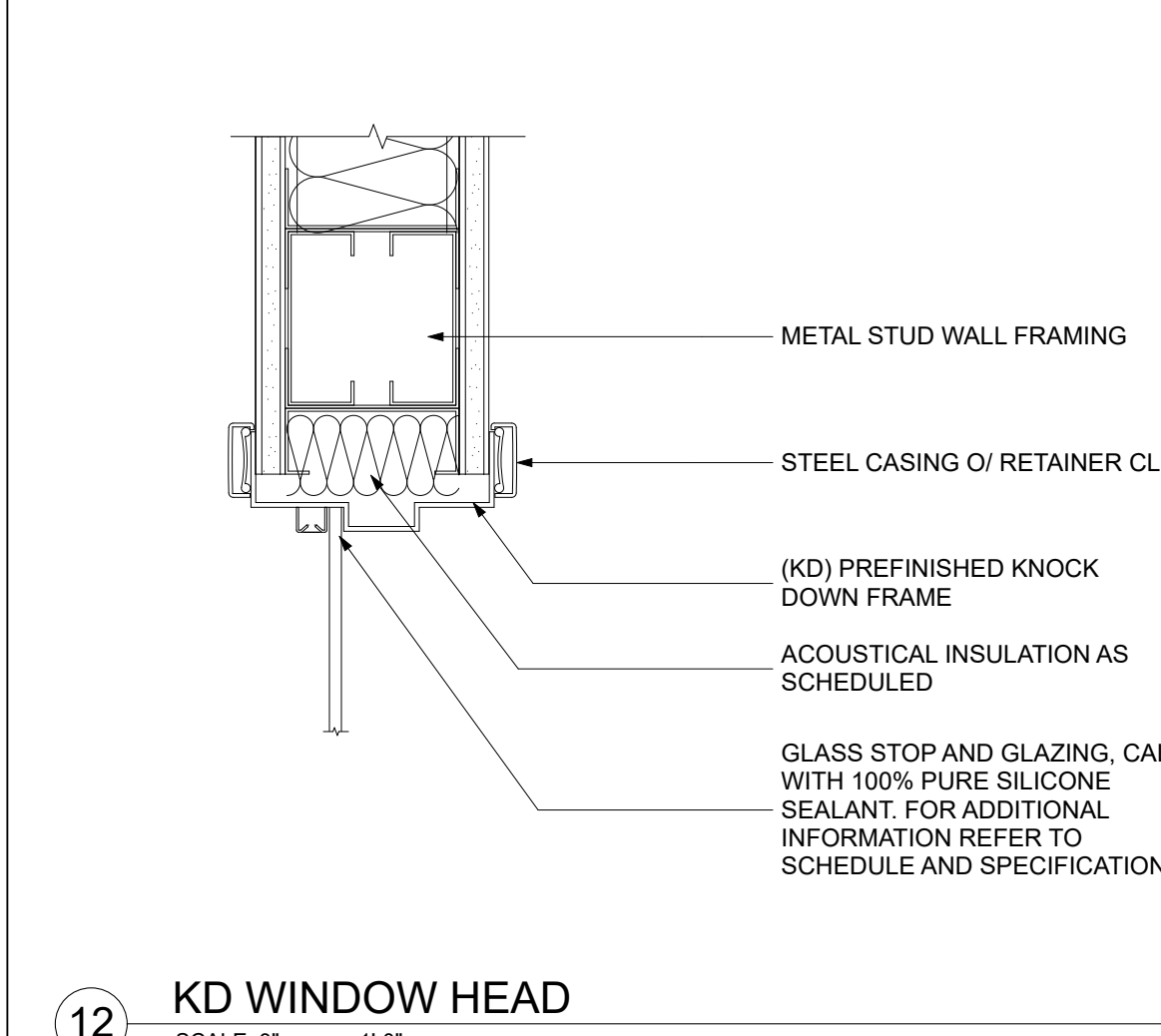
(KD) PREFINISHED KNOCK DOWN FRAME

GLASS STOP AND GLAZING, FOR ADDITIONAL INFORMATION REFER TO SCHEDULE AND SPECIFICATIONS

ACOUSTICAL INSULATION AS SCHEDULED

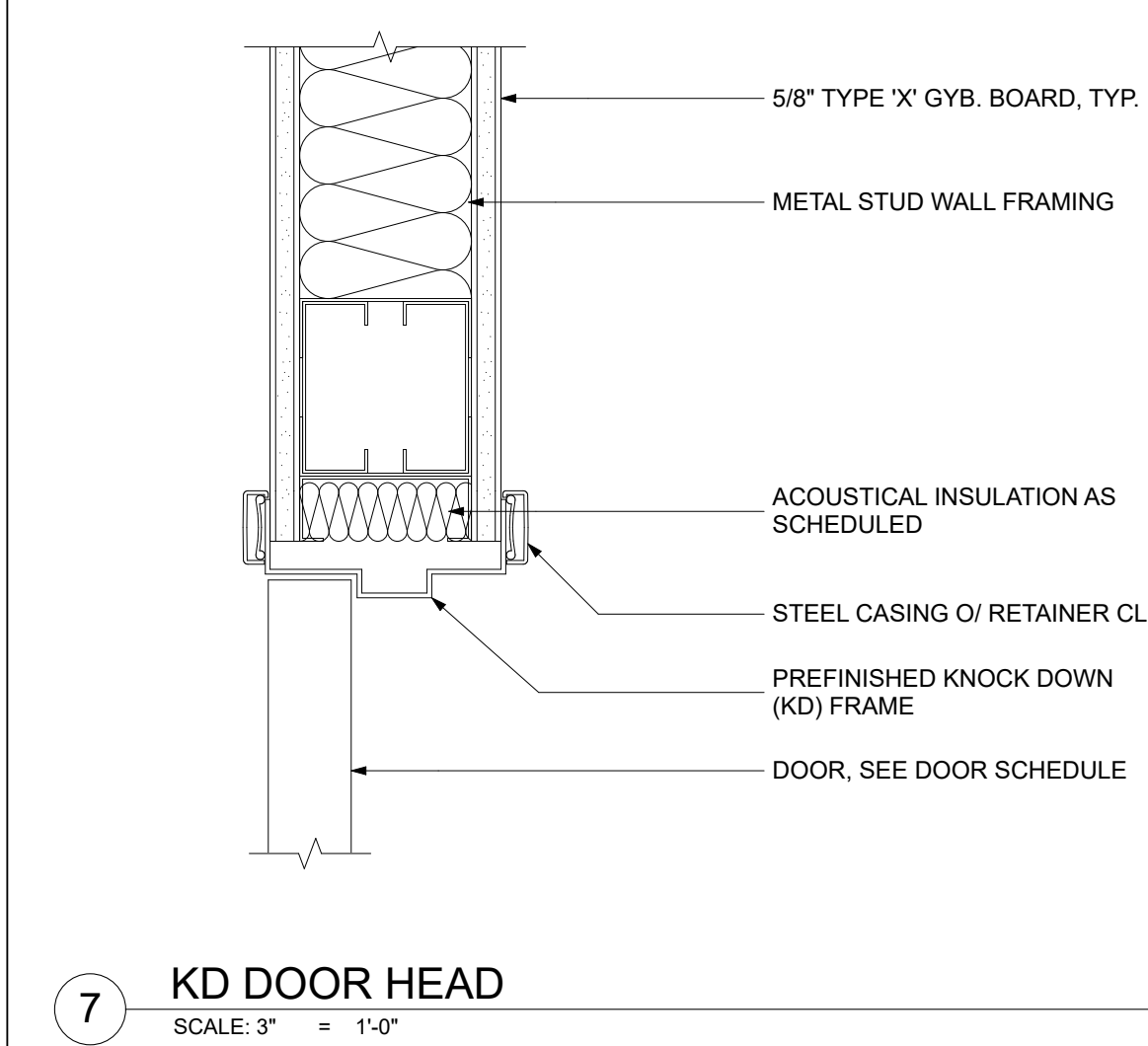
KD WINDOW JAMB

SCALE: 3" = 1'-0"



A detailed cross-section diagram of a KD Window Head assembly. The diagram shows the window head installed within a wall. The wall structure consists of metal stud wall framing. A steel casing or retainer clip is attached to the exterior side of the wall framing. The window head is mounted to the interior side of the wall framing. The window head is composed of a (KD) prefinished knock down frame and acoustical insulation as scheduled. The window head is sealed with 100% pure silicone sealant. The diagram also shows the glass stop and glazing, which is also sealed with 100% pure silicone sealant. The diagram includes labels for the following components:

- METAL STUD WALL FRAMING
- STEEL CASING O/ RETAINER CLIP
- (KD) PREFINISHED KNOCK DOWN FRAME
- ACOUSTICAL INSULATION AS SCHEDULED
- GLASS STOP AND GLAZING, CAL WITH 100% PURE SILICONE SEALANT. FOR ADDITIONAL INFORMATION REFER TO SCHEDULE AND SPECIFICATION



5/8" TYPE 'X' GYB. BOARD, TYP.

METAL STUD WALL FRAMING

ACOUSTICAL INSULATION AS SCHEDULED

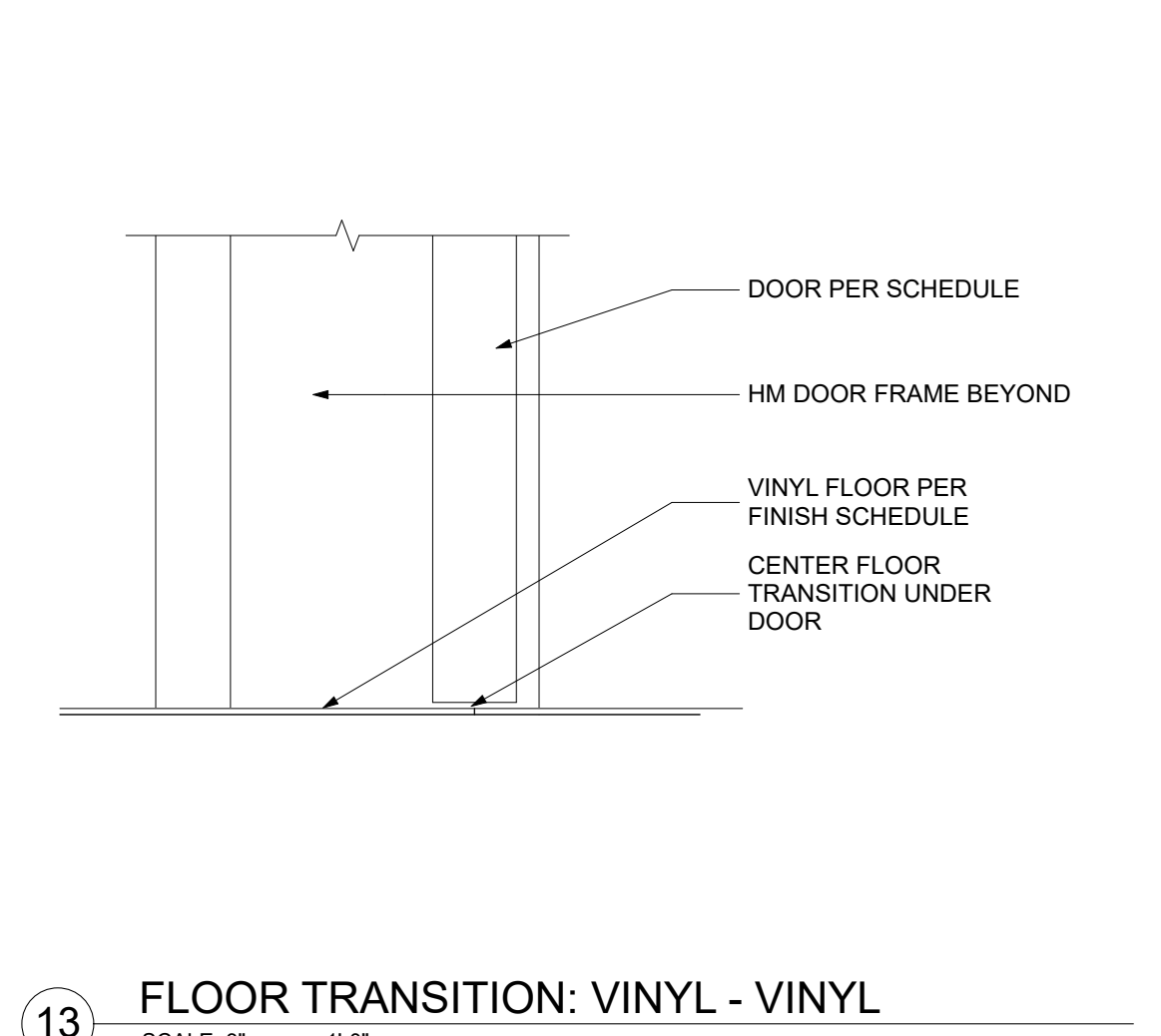
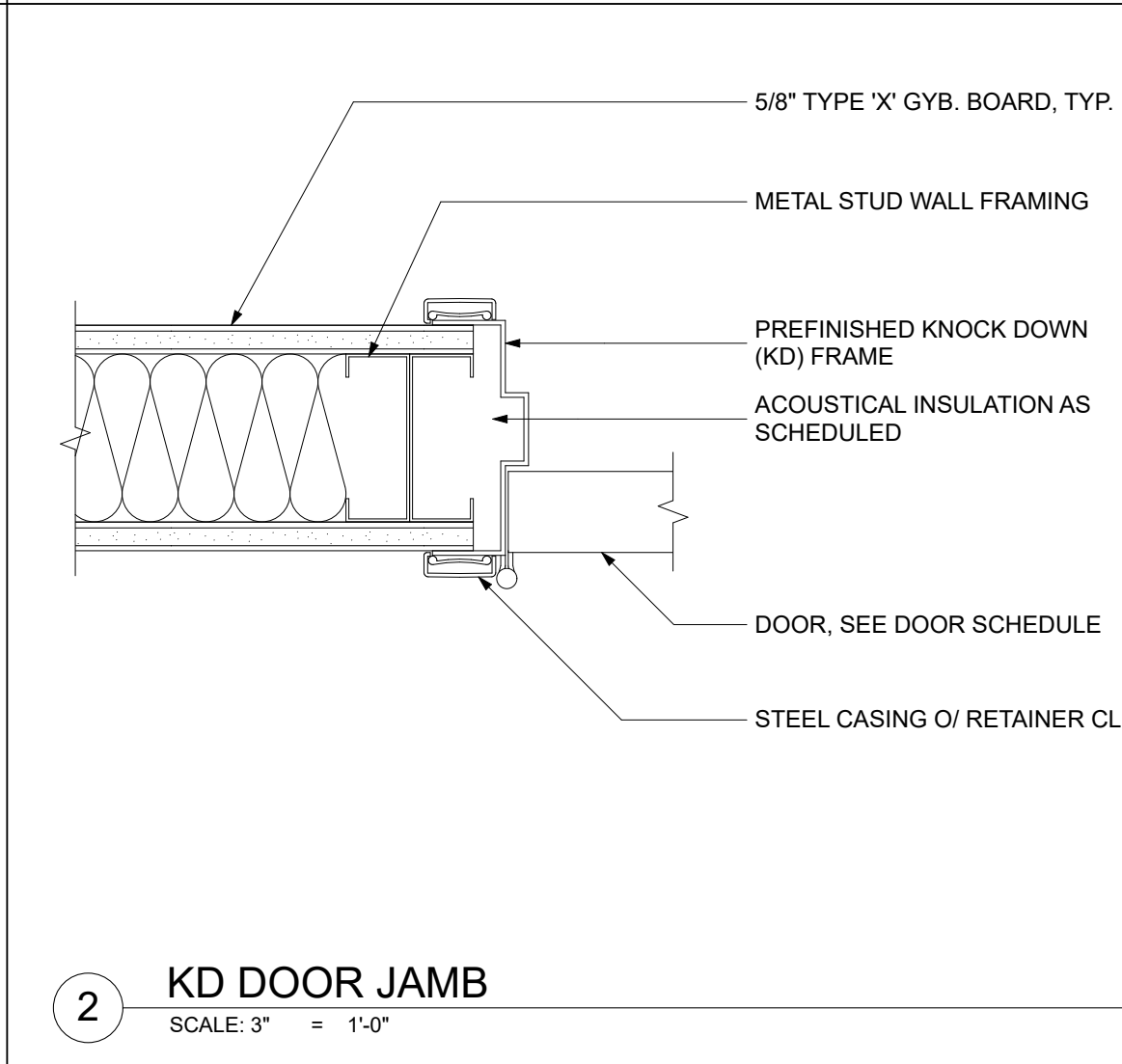
STEEL CASING O/ RETAINER CL.

PREFINISHED KNOCK DOWN (KD) FRAME

DOOR, SEE DOOR SCHEDULE

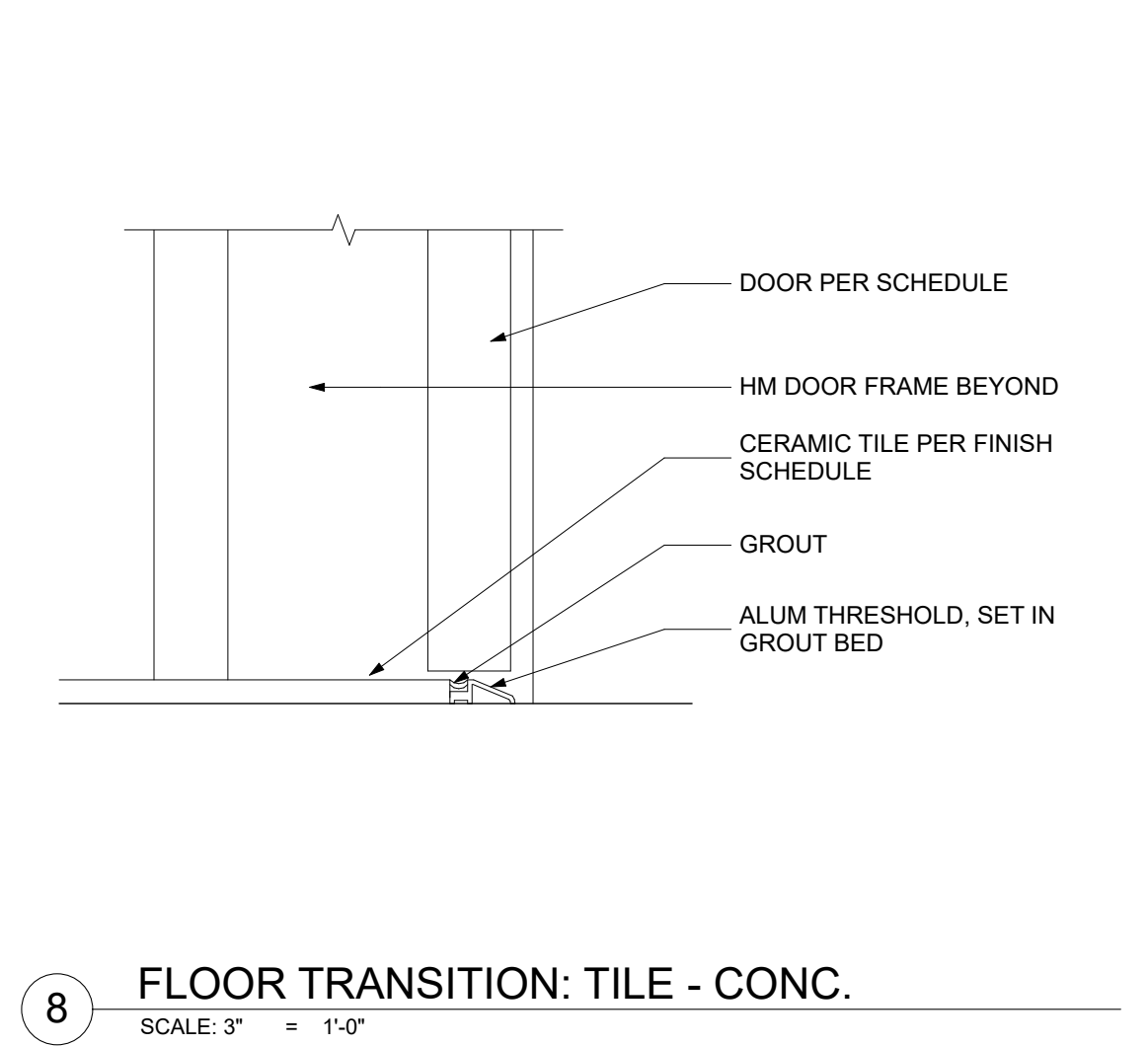
KD DOOR HEAD

SCALE: 3" = 1'-0"



A technical cross-section diagram showing a door assembly and the floor transition beneath it. The door is shown in a closed position, with a break symbol (two parallel lines meeting at a point) indicating it is not to scale. The floor consists of a subfloor and a vinyl floor. The transition is shown as a vertical joint under the door. Labels with arrows point to the following components:

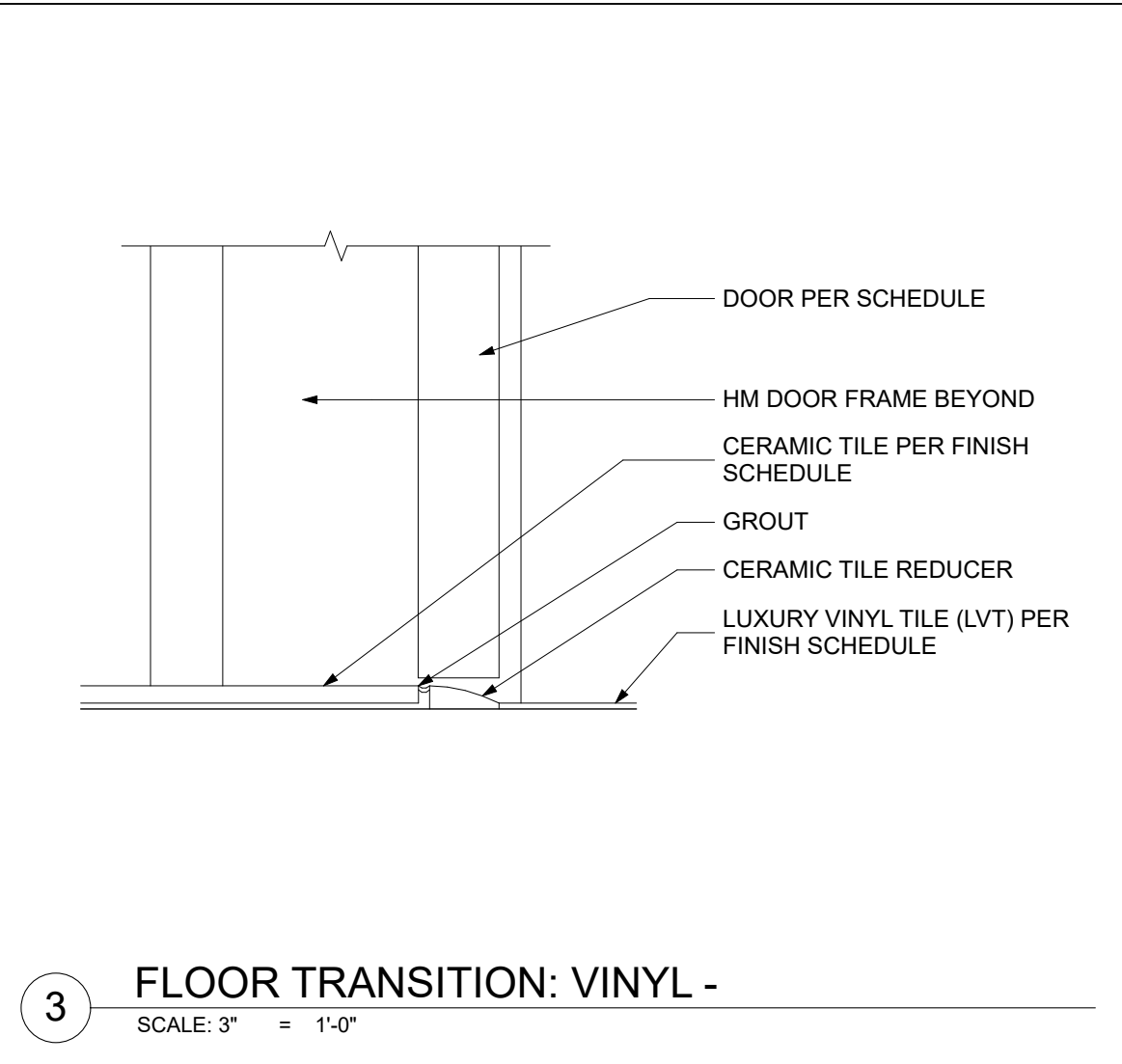
- DOOR PER SCHEDULE
- HM DOOR FRAME BEYOND
- VINYL FLOOR PER FINISH SCHEDULE
- CENTER FLOOR TRANSITION UNDER DOOR



8

FLOOR TRANSITION: TILE - CONC.

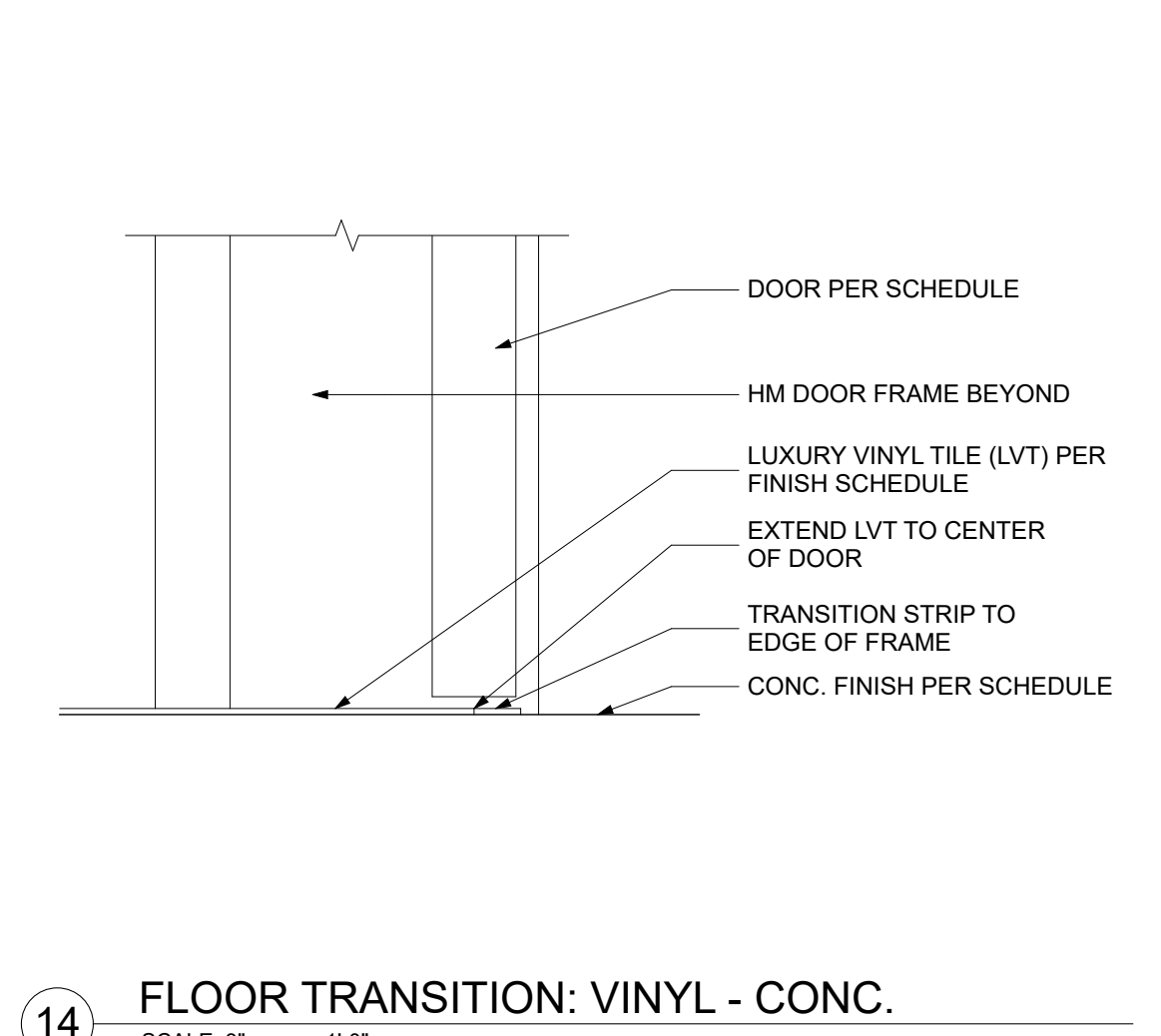
SCALE: 3" = 1'-0"



3

FLOOR TRANSITION: VINYL -

SCALE: 3" = 1'-0"



A cross-sectional diagram of a floor transition. On the left, a thick horizontal line represents the concrete floor. On the right, a thinner horizontal line represents the vinyl tile floor. A vertical line separates the two materials. A door frame is shown on the right side, with a door panel to its right. Arrows point from labels to various components: 'DOOR PER SCHEDULE' points to the door panel; 'HM DOOR FRAME BEYOND' points to the door frame; 'LUXURY VINYL TILE (LVT) PER FINISH SCHEDULE' points to the vinyl tile floor; 'EXTEND LVT TO CENTER OF DOOR' points to the vinyl tile floor extending to the center of the door; 'TRANSITION STRIP TO EDGE OF FRAME' points to a small strip at the base of the door frame; and 'CONC. FINISH PER SCHEDULE' points to the concrete floor.

DOOR PER SCHEDULE

HM DOOR FRAME BEYOND

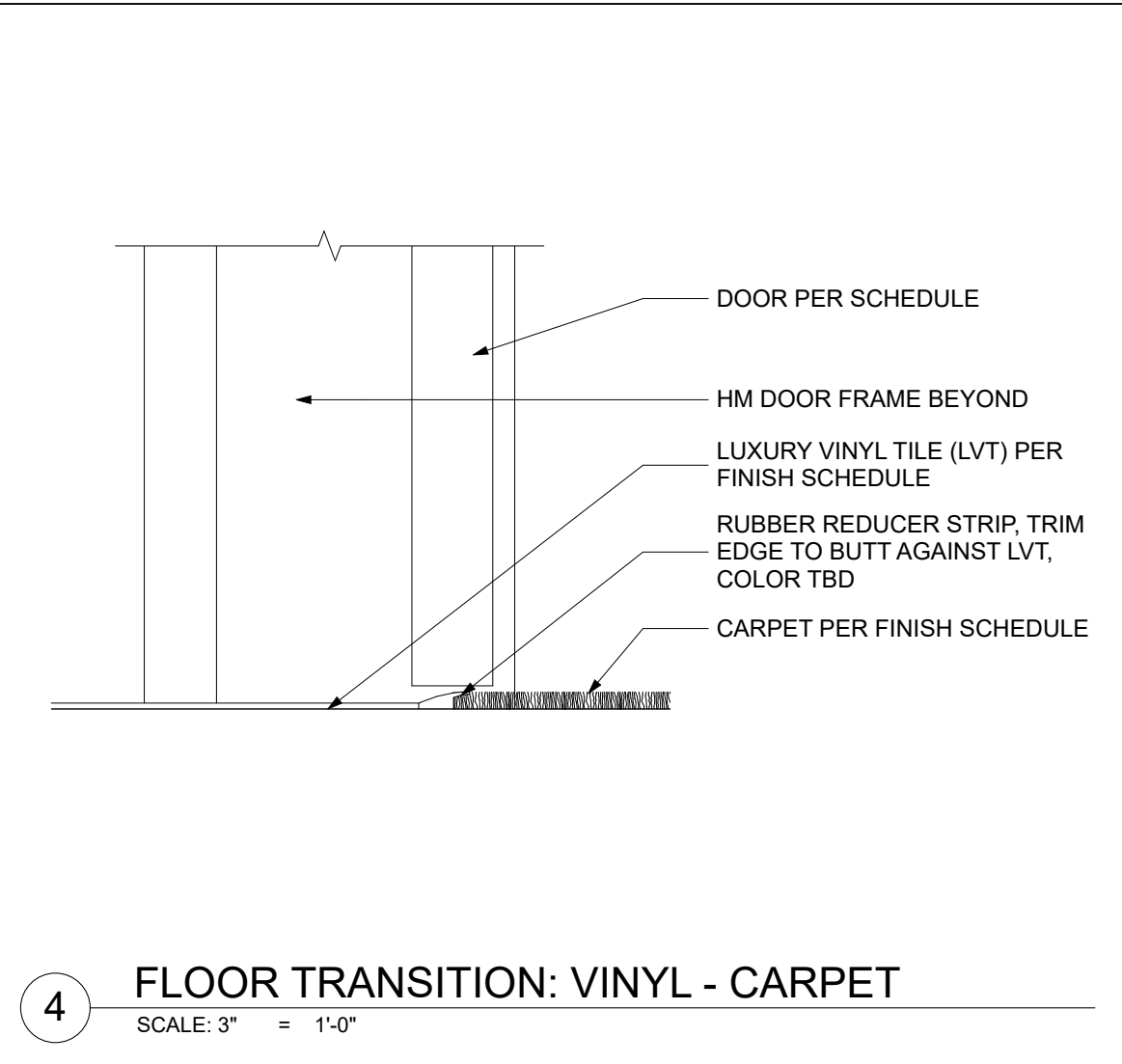
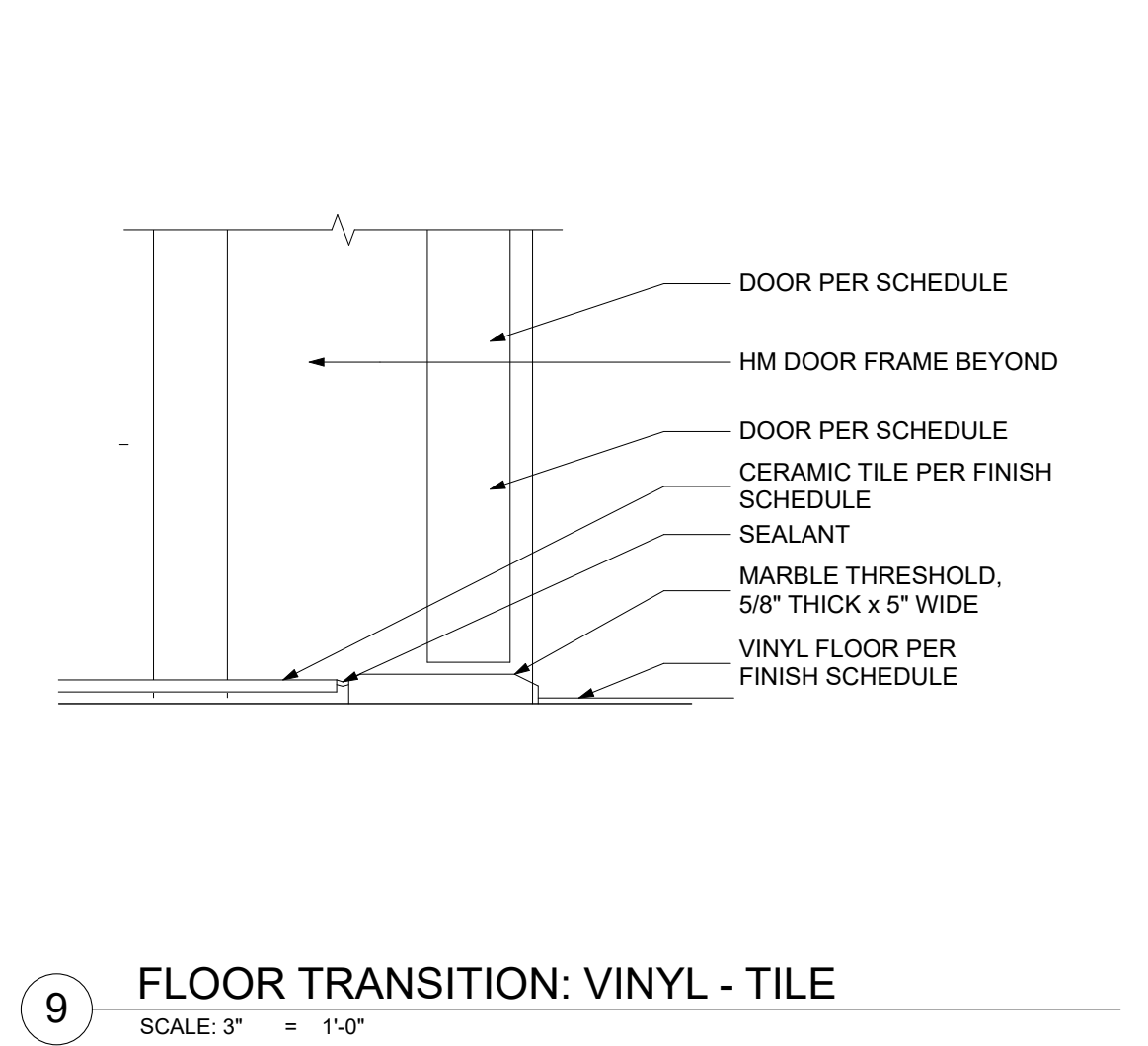
LUXURY VINYL TILE (LVT) PER FINISH SCHEDULE

EXTEND LVT TO CENTER OF DOOR

TRANSITION STRIP TO EDGE OF FRAME

CONC. FINISH PER SCHEDULE

FLOOR TRANSITION: VINYL - CONC.



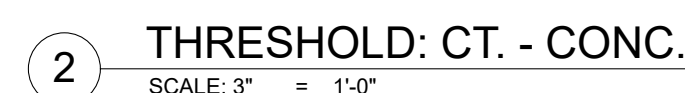
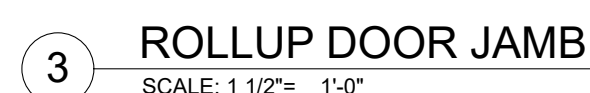
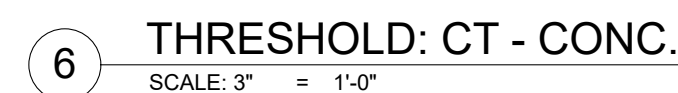
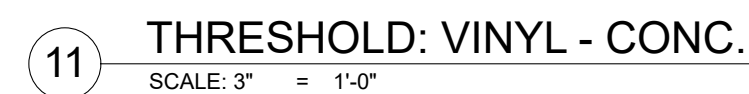
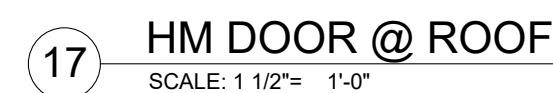
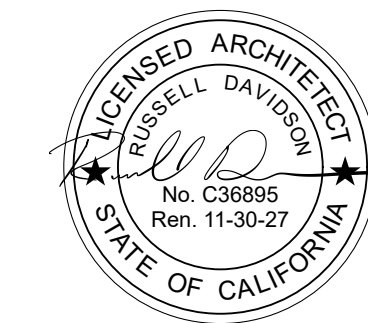
A cross-section diagram illustrating the transition between two floor types: vinyl and carpet. The diagram shows a vertical wall on the left with a door frame. The floor consists of a concrete slab. On the left side, the floor is covered with vinyl (LVT). On the right side, the floor is covered with carpet. A rubber reducer strip is installed at the transition point, with the carpet edge butting against it. The diagram is labeled with the following components:

- DOOR PER SCHEDULE
- HM DOOR FRAME BEYOND
- LUXURY VINYL TILE (LVT) PER FINISH SCHEDULE
- RUBBER REDUCER STRIP, TRIM EDGE TO BUTT AGAINST LVT, COLOR TBD
- CARPET PER FINISH SCHEDULE

4

FLOOR TRANSITION: VINYL - CARPET

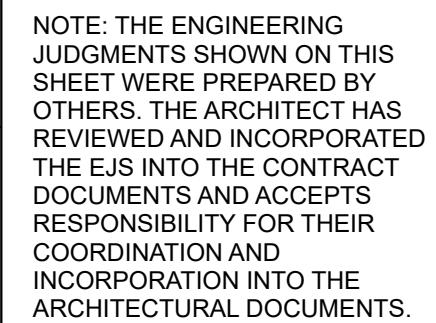
SCALE: 3" = 1'-0"



148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

SUBMITTED:	03/20/2026
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CHECKED BY:	RPD
JOB:	2025.35

A5.7



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
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SUBMITTED:	03/20/2026
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JOB:	2025.35

ENGINEERING
JUDGEMENT
FIRESTOP DETAIL

A5.8



ENGINEERING JUDGMENT FIRESTOP DETAIL

THIS DETAIL REPRESENTS A SYSTEM EXPECTED TO ACHIEVE THE STATED RATINGS IF TESTED. BECAUSE SITE CONDITIONS, INSTALLATION PRACTICES, AND COMPONENT CHOICES VARY, HILTI INC. CANNOT ASSUME RESPONSIBILITY FOR DESIGN OUTCOMES, CODE COMPLIANCE, OR THE PERFORMANCE OF COMPONENTS NOT MANUFACTURED BY HILTI. ACCORDINGLY, HILTI INC. DISCLAIMS ALL LIABILITY FOR ANY LOSS, DAMAGE, OR EXPENSE—INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES—RESULTING FROM THE USE OR RELIANCE ON THIS DETAIL.

PROJECT : NID HYDRO
ADDRESS : 148 WHITCOMB AVE, COLFAX, CA 95713

ISSUED TO : RUSSELL DAVIDSON ARCHITECTURE

Ratings

F-RATING = 1-HR.

DUE TO THE PRESENCE OF AN UNPROTECTED STEEL MEMBER, THIS FIRESTOP DETAIL IS BASED UPON THE APPLICABLE TEST METHOD (LISTED BELOW) REQUIREMENTS FOR A MODIFIED F-RATING. THE MODIFIED F-RATING CRITERIA FOR THIS DETAIL SHALL BE SUCH THAT THE TEST SPECIMEN SHALL HAVE WITHSTOOD THE FIRE RESISTANCE TEST FOR THE PERIOD EQUAL TO THE RATING INDICATED ON THIS DETAIL BY PREVENTING FLAMING ON THE UNEXPOSED SIDE OF THE TEST SPECIMEN, BUT WITHOUT THE REQUIREMENT THAT THE TEST SPECIMEN REMAIN IN THE JOINT OPENING DURING THE HOSE STREAM TEST. IN ADDITION, TEMPERATURE CRITERIA OF THE APPLICABLE TEST METHOD ARE NOT EXPECTED TO EQUAL THE HOURLY DURATION OF THE F-RATING FOR THIS ASSEMBLY.

1. WOOD FLOOR/CEILING ASSEMBLY (UL/CUL CLASSIFIED L562 SERIES) (1-HR. FIRE-RATING).
2. GYPSUM WALL ASSEMBLY (UL/CUL CLASSIFIED (MIN. 3-1/2" STEEL STUDS) (1-HR. FIRE-RATING).
3. SOLID STEEL COLUMN (NON-RATED).
4. MINIMUM 4" THICKNESS MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50%, FLUSH WITH BOTTOM SURFACE OF CEILING.
5. MINIMUM 4" THICKNESS MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED 50% AND RECESSED TO ACCOMMODATE SEALANT.
6. MINIMUM 3/4" DEPTH HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.

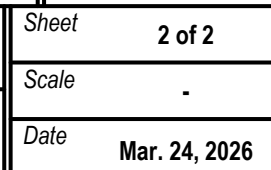
NOTES :

1. MAXIMUM WIDTH OF JOINT = 6".
2. MAXIMUM SIZE OF OPENING = 20" x 18".
3. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 12".

Referenced Tested Systems
(REFERENCE : UL/cUL SYSTEM NO. FW-D-1037, F-A-8012, C-AJ-1630, & W-J-7110)

Project Application Details
CSO0035400

Applicable Test Method
UL 2079



Drawing No.

Saving Lives through Innovation and Education

ENGINEERING JUDGMENT FIRESTOP DETAIL

THIS DETAIL REPRESENTS A SYSTEM EXPECTED TO ACHIEVE THE STATED RATINGS IF TESTED. BECAUSE SITE CONDITIONS, INSTALLATION PRACTICES, AND COMPONENT CHOICES VARY, HILTI INC. CANNOT ASSUME RESPONSIBILITY FOR DESIGN OUTCOMES, CODE COMPLIANCE, OR THE PERFORMANCE OF COMPONENTS NOT MANUFACTURED BY HILTI. ACCORDINGLY, HILTI INC. DISCLAIMS ALL LIABILITY FOR ANY LOSS, DAMAGE, OR EXPENSE—INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES—RESULTING FROM THE USE OR RELIANCE ON THIS DETAIL.

PROJECT : NID HYDRO
ADDRESS : 148 WHITCOMB AVE, COLFAX, CA 95713

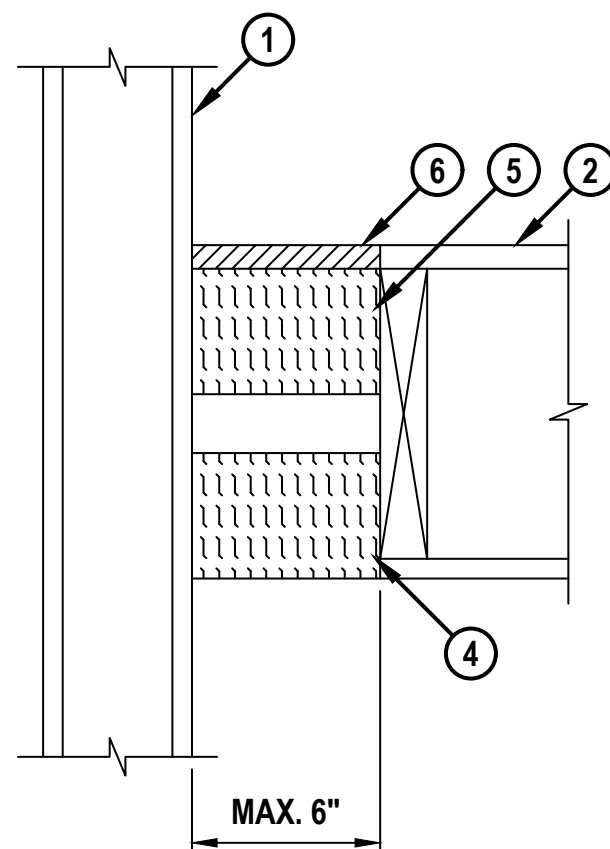
ISSUED TO : RUSSELL DAVIDSON ARCHITECTURE

Ratings

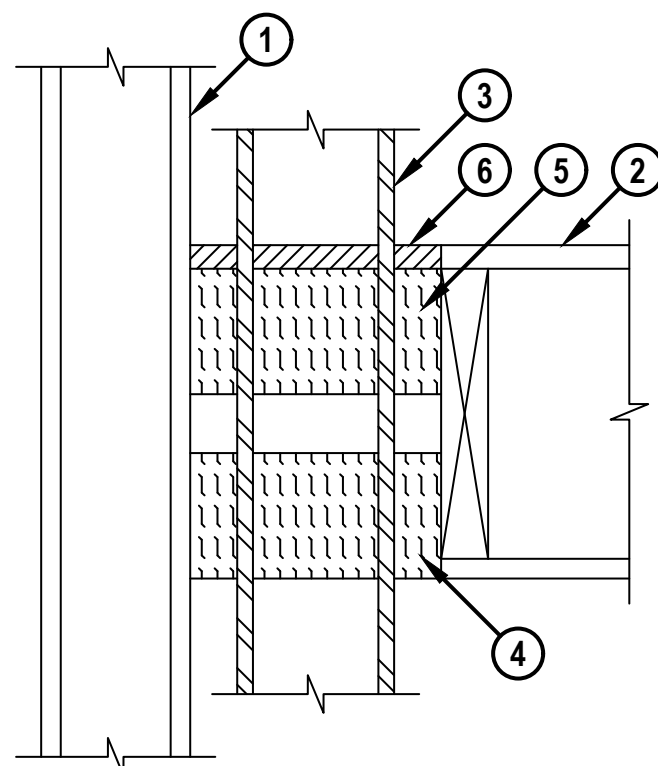
F-RATING = 1-HR.

CROSS-SECTIONAL VIEW

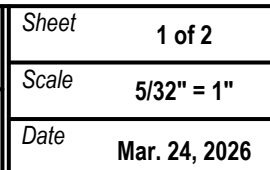
CONFIGURATION A



CONFIGURATION B



MAX. 6"



Drawing No.

Saving Lives through Innovation and Education

GROUP NO. 01

3 EA HINGE

1 EA PANIC HARDWARE

1 EA RIM CYLINDER

1 EA 90 DEG OFFSET PULL

1 EA SURFACE CLOSER

1 EA GASKETING

1 EA DOOR SWEEP

1 EA THRESHOLD

58B1 4.5 X 4.5 NRP
PA-AX-98-NL-OP
20-057
8190EZHD 12" O
4040XP SCUSH
188SBK PSA
38A
PER DETAIL

630 IVE
626 VON
626 SCH
630-316 IVE
689 LCN
BK ZER
A ZER
A ZER

GROUP NO. 02

3 EA HINGE

1 EA ENTRANCE/OFFICE LOCK

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND80P6D RHO
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
626 IVE
BK ZER

GROUP NO. 03

3 EA HINGE

1 EA PRIVACY LOCK W/ OUTSIDE INDICATOR

1 EA SURFACE CLOSER

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND40S RHO OS-OCC
4040XP
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
689 LCN
626 IVE
BK ZER

GROUP NO. 04

2 EA SPRING HINGE

1 EA HINGE

1 EA PRIVACY LOCK W/ OUTSIDE INDICATOR

1 EA WALL STOP

1 EA GASKETING

3SP1 4.5 X 4.5
58B1 4.5 X 4.5
ND40S RHO OS-OCC
WS401/402CCV
188SBK PSA

652 IVE
652 IVE
626 SCH
626 IVE
BK ZER

GROUP NO. 05

3 EA HINGE

1 EA PUSH PLATE

1 EA PULL PLATE

1 EA SURFACE CLOSER

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
8200 6" X 16"
8302 10" 6" X 16"
4040XP
WS401/402CCV
188SBK PSA

652 IVE
626 IVE
626 IVE
689 LCN
626 IVE
BK ZER

GROUP NO. 06

3 EA HINGE

1 EA STOREROOM LOCK

1 EA OH STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND80P6D RHO
410S
188SBK PSA

652 IVE
626 SCH
630 GLY
BK ZER

GROUP NO. 07

3 EA HINGE

1 EA STOREROOM LOCK

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND80P6D RHO
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
626 IVE
BK ZER

GROUP NO. 08

3 EA HINGE

1 EA PASSAGE SET

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND10S RHO
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
626 IVE
BK ZER

GROUP NO. 09

3 EA HINGE

1 EA PASSAGE SET

1 EA OH STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND10S RHO
410S
188SBK PSA

652 IVE
626 SCH
630 GLY
BK ZER

GROUP NO. 10

3 EA HINGE

1 EA CLASSROOM LOCK

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND70P6D RHO
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
626 IVE
BK ZER

GROUP NO. 11

8 EA HINGE

1 EA AUTO FLUSH BOLT

1 EA CLASSROOM LOCK

2 EA OH STOP

1 EA GASKETING

58B1 4.5 X 4.5
FB41T
ND70P6D RHO
410S
188SBK PSA

652 IVE
630 IVE
626 SCH
630 GLY
BK ZER

GROUP NO. 12

6 EA HINGE

1 EA MANUAL FLUSH BOLT

1 EA STOREROOM LOCK

2 EA OH STOP

1 EA GASKETING

1 EA ASTRAGAL

58B1 4.5 X 4.5
FB358
ND80P6D RHO
90S
188SBK PSA
44STST OR BY HM DOOR MFR

652 IVE
626 IVE
626 SCH
630 GLY
BK ZER
STST ZER

GROUP NO. 13

HARDWARE BY ROLL UP DOOR MFR

GROUP NO. 14

3 EA HINGE

1 EA PASSAGE SET

1 EA SURFACE CLOSER

1 EA WALL STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND10S RHO
4040XP
WS401/402CCV
188SBK PSA

652 IVE
626 SCH
689 LCN
626 IVE
BK ZER

GROUP NO. 15

3 EA HINGE

1 EA PASSAGE SET

1 EA SURFACE CLOSER

1 EA OH STOP

1 EA GASKETING

58B1 4.5 X 4.5
ND10S RHO
4040XP
410S
188SBK PSA

652 IVE
626 SCH
689 LCN
630 GLY
BK ZER

DOOR #

ROOM NAME

TYPE

W

H

MFG

FRAME

LEAF

FIRE RATING

HARDWARE SET

REMARKS

MATERIAL

FINISH

MATERIAL

FINISH

EXTERIOR

100 FOYER

G

3'-0"

7'-0"

TBD

ALUM.

PAINTED

ALUM.

PAINTED

01

ACCESS CONTROL, CARD READER

140 HALL

P

3'-0"

7'-0"

TBD

ALUM.

PAINTED

ALUM.

PAINTED

01

ACCESS CONTROL, CARD READER

160 WAREHOUSE

N

12'-0"

14'-0"

TBD

STEEL

PAINTED

STEEL

PAINTED

13

166A SOUTH YUBA CANAL STORAGE

N

12'-0"

14'-0"

TBD

STEEL

PAINTED

STEEL

PAINTED

13

INTERIOR

102 OFFICE

L

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

103 CONFERENCE

B

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

08

104 OFFICE

B

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

105 OFFICE

H

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

106A RECEPTION

F

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

08

106B VESTIBULE

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

08

106C HYDRO LAB

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

45 MIN.

14

2

111 MENS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

05

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

112 WOMENS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

05

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

121 HALL

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

45 MIN.

15

122 SCADA

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

10

2

123 LACTATION

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

03

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

124 OFFICE

K

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

125 OFFICE

B

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

2

126 DAM SAFETY -PLAN ROOM

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

131 OFFICE

K

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

132 OFFICE

L

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

133A CREW WORK AREA

M

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

09

133B CREW WORK AREA

M

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

09

133C CREW WORK AREA

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

45 MIN.

15

133D CREW WORK AREA

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

45 MIN.

15

134 OFFICE

L

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

12

135 HALL

C

6'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

141 HALL

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

45 MIN.

15

142 OFFICE

H

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

143 OFFICE

G

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

144 OFFICE

G

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

145 CONFERENCE

J

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

08

146 OFFICE

B

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

147 OFFICE

G

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

02

150 ELECTRICAL WORKSHOP

D

6'-0"

9'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

11

171 SERVER

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

07

2

172 JANITOR

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

07

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183B RESTROOMS

A

2'-6"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

06

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183C RESTROOMS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

04

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183D RESTROOMS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

04

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183E RESTROOMS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

04

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183F RESTROOMS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

04

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

183G RESTROOMS

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

04

UNDERCUT DOOR AS REQ'D TO PROVIDE CFM TRANSFER AIR PER MECH PLANS.

261 NON OCCUPIED STORAGE PLATFORM

A

3'-0"

7'-0"

TBD

ALUM.

PAINTED

SCWD

PAINTED

06

DOOR NOTES

1. ALL GLAZING IN DOORS LOCATED IN HAZARDOUS LOCATIONS SHALL BE SAFETY GLAZING IN ACCORDANCE WITH CBC SECTION 2406. ALL PANES WITHIN MULTIPANED GLAZING ASSEMBLIES SHALL BE SAFETY GLAZING WHERE REQUIRED. SAFETY GLAZING SHALL BE PERMANENTLY IDENTIFIED AS REQUIRED BY THE CBC.

2. ALL INSULATING GLASS UNITS SHALL BE PERMANENTLY LABELED IN ACCORDANCE WITH THE APPLICABLE PRODUCT STANDARDS.

3. REFER TO FLOOR PLANS FOR DOOR SWING DIRECTION.

4. EXTERIOR DOORS SHALL COMPLY WITH THE AIR INFILTRATION REQUIREMENTS OF THE CALIFORNIA ENERGY CODE.

5. DOORS REQUIRED FOR NATURAL VENTILATION SHALL COMPLY WITH CBC SECTION 1202, WHERE APPLICABLE.

6. EXTERIOR DOOR ASSEMBLIES SHALL HAVE A MINIMUM STC RATING OF 36 WHERE INDICATED ON THE DRAWINGS OR REQUIRED BY THE PROJECT ACOUSTICAL CRITERIA.

7. FIRE-RATED DOOR AND FRAME ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTED ASSEMBLY AND CBC CHAPTER 7.

8. HARDWARE FOR FIRE-RATED DOORS SHALL PROVIDE POSITIVE LATCHING AND SELF-CLOSING OPERATION IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CBC AND THE LISTED ASSEMBLY.

9. GLAZED OPENINGS IN EXTERIOR DOORS SHALL BE INSULATING GLASS UNITS WHERE REQUIRED BY THE CALIFORNIA ENERGY CODE AND SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS OF THE CBC.

10. COORDINATE DOOR, FRAME, GLAZING, HARDWARE, FIRE-RESISTANCE RATINGS, AND ALL ASSOCIATED COMPONENTS WITH THE DOOR SCHEDULE, HARDWARE SCHEDULE, LIFE SAFETY PLANS, AND MANUFACTURERS' REQUIREMENTS.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

DOOR SCHEDULES

A

HINGED, SGL

B

HINGED, SGL

C

HINGED, DBL

D

HINGED, DBL

F

HINGED, SGL W/ SIDELIGHT AND TRANSOM

G

HINGED, SGL W/ SIDELIGHT

H

HINGED, SGL W/ SIDELIGHT

J

HINGED, SGL W/ SIDELIGHT

K

HINGED, SGL W/ SIDELIGHT

L

HINGED, SGL W/ SIDELIGHT

M

HINGED, SGL W/ SIDELIGHT

N

ROLLUP

P

HINGED, SGL W/ SIDELIGHT

DOOR TYPES

1

SCALE: 1' = 1'-0"

RUSSELL DAVIDSON
ARCHITECTURE + DESIGN

LICENSED ARCHITECT
RUSSELL DAVIDSON
No. C36895
Ren. 11-30-27
STATE OF CALIFORNIA

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

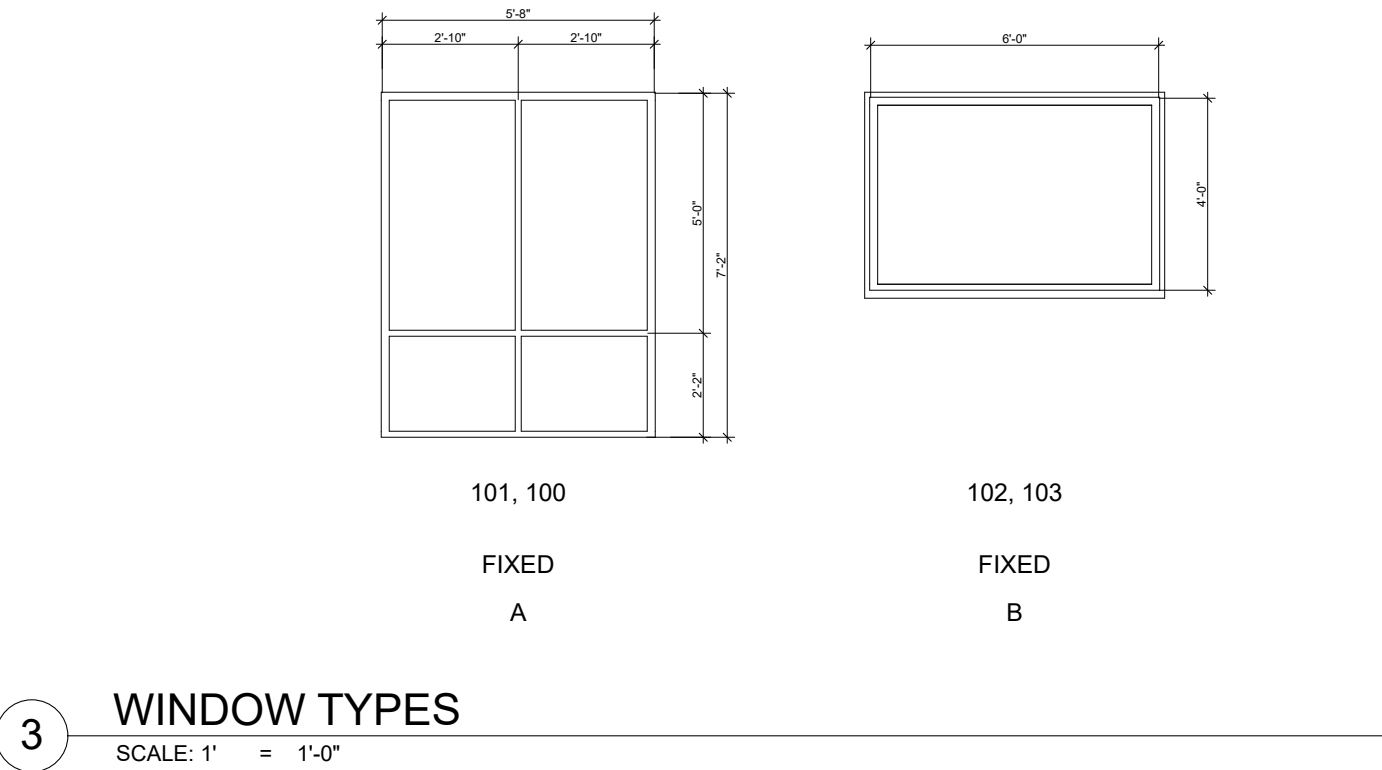
DOOR SCHEDULES

A6.0

WINDOW SCHEDULE											
ID	LOCATION	TYPE	W	H	MFG	TEMPERING	GLAZING	FRAME		FIRE RATING	REMARKS
								MATERIAL	FINISH		
100	OFFICE	A	5'-8"	7'-2"	TBD	TEMPERED (SGL)	LOW-E	ALUM.	PAIN		
101	OFFICE	A	5'-8"	7'-2"	TBD	TEMPERED (SGL)	LOW-E	ALUM.	PAIN		
102	CREW WORK AREA	B	6'-0"	4'-0"	TBD	TEMPERED (SGL)	CLEAR	STEEL	PAIN	45 MIN.	
103	CREW WORK AREA	B	6'-0"	4'-0"	TBD	TEMPERED (SGL)	CLEAR	STEEL	PAIN	45 MIN.	

WINDOW NOTES

1. SEE EXTERIOR ELEVATION FOR DIRECTION OF OPERATION OF WINDOWS (ALL OPERABLE WINDOWS TO HAVE SCREENS).
2. ALL WINDOW DIMENSIONS PERTAIN TO ROUGH OPENINGS (R.O.), CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS FOR WINDOWS.
3. ALL GLAZING SHALL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE NFRC LABEL.
4. ALL GLAZING SHALL BE SPECTRALLY SELECTIVE LOW E COATED TO MEET TITLE 24 ENERGY REQUIREMENTS.
5. WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.D
6. VENTILATION SHALL COMPLY WITH C.B.C. 1203.4 AND R303
7. ALL EXTERIOR WINDOW AND EXTERIOR DOOR ASSEMBLIES TO HAVE AN STC RATING OF 30 OR GREATER.
8. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
9. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL VENTILATION AND NATURAL LIGHT BY MEANS OF VENTILATION/ARTIFICIAL LIGHT. CBC SECTIONS 1203.4 AND 1205.1
 - A) THE MINIMUM NET GLAZED AREA FOR NATURAL LIGHT SHALL NOT BE LESS THAN 8%OF THE FLOOR AREA OF THE ROOM SERVED. CBC SECTION 1205.2
 - B) THE MINIMUM OPENABLE AREA TO THE OUTDOORS FOR NATURAL VENTILATION SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. SECTION 1203.4
10. EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES SHALL BE CONSTRUCTED OF MULTIPANE GLAZING WITH ONE TEMPERED PANE, HAVE A FIRE RESISTANCE RATING OF 20 MINUTES OR MEET THE REQUIREMENTS OF SFM 12-7A-2.



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ID	NAME	DATE
1	REV 1	7/11/26
SUBMITTED:		03/20/2026
SCALE		AS NOTED
DRAWN BY:		RPD
CHECKED BY:		RPD
JOB:		2025.35

WINDOW SCHEDULES

A6.1

GENERAL NOTES

- The following notes, details, schedules & specifications shall apply to all phases of this project unless specifically noted otherwise. Notes and details on the structural plans shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.
- All drawings are considered to be part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies shall be brought to the attention of the Engineer prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any applicable code requirements shall be corrected by the Contractor at no expense to the Owner or Engineer.
- All information on existing conditions shown on the structural plans are based on best present knowledge available, but without the guarantee of accuracy. The Contractor shall be responsible for the verifications of all dimension and conditions at the site. Any discrepancies between actual site conditions and information shown on the drawings or in the specifications shall be brought to the attention of the EOR prior to the start of construction.
- Refer to the Architectural plans for the following:
 - Dimensions
 - Size and location of all interior and exterior wall locations.
 - Size and location of all floor, roof and wall openings
 - Size and location of all drains, slopes, depressions, steps, etc.
 - Specification of all finishes & waterproofing
 - All other non-structural elements
- Refer to the mechanical, electrical and plumbing plans for the following:
 - Size and location of all equipment
 - Pipe runs, sleeves, hangers and hangers
 - All other mechanical, electrical or plumbing related elements
- DO NOT** scale structural plans. Contractor shall use all written dimensions on Architectural plans.
- Construction materials shall be uniformly spread out if placed on floor or roof so as to not overload the framing. Load shall not exceed the design live load per square foot. It is the Contractor's responsibility to provide adequate shoring and/or bracing as required.
- Specifications and detailing of all waterproofing and drainage items, while sometimes shown on the structural plans for general information purposes only, are solely the design responsibility of others.
- The Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. It should be understood that the Contractor or his/her agent(s) shall supervise and direct all work and shall be solely and completely responsible for all construction means, methods, techniques, sequences, procedures and conditions on the job site, including safety of all persons and property during the entire period of construction. Periodic observations by the Engineer, his staff or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
- Modifications of the plans, notes, details and specifications shall not be permitted without prior approval from the Engineer.
- All workmanship shall conform to the best practice prevailing in the various trades performing the work. The Contractor shall be responsible for coordinating the work of all trades.
- It is the Contractor's responsibility to ensure that only approved structural plans are used during the course of construction. The use of unapproved documents shall be at the contractor's own risk. Corrections of all work based on such documents shall be performed at the Contractor's expense.
- These plans and specifications represent the structural design only. No information nor warranty is provided for the work of any other Consultant (Architect, Mechanical, Electrical, etc.). This includes, but is not limited to, waterproofing, drainage, ventilation, accessibility, or dimensions.

FOUNDATIONS

- Refer to Structural Design Parameters section on sheet S-100 for all soil design values used in calculations.
- Soils values per Table 1806.2 of the latest edition of the Governing Building Code.
- Unexpected Soil Conditions: At the discretion of the engineer of record, or the local building department, a soils report may be required in the event that substandard material is discovered on site. If this occurs, contact Engineer of Record for further guidance.
- All compaction, fill, backfilling and site preparation shall be performed in accordance with project soils report or the Governing Building Code Chapter 18 & Appendix J. All such work shall be performed under the supervision of the building official.
- Excavate to required depths and dimensions (as indicated in the drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbance of soils around high elevation.
- Foundations forms and excavations shall be clean and free of debris, achieving all minimum dimensions noted. Enchroachment of soil at corners and reduced reinforcement clearances are not permitted.
- Excavate all foundations to required depths into compacted fill or natural soil (as per plans and details) and as verified by the building official.
- All foundations shall be inspected and approved by the appropriate building official prior to forming and placement of reinforcing or concrete.
- Foundations shall not be poured until all required reinforcing steel, framing hardware, sleeves, inserts, conduits, pipes, etc., and formwork is properly placed and inspected by the appropriate building official/inspector.
- It is the responsibility of the contractor in charge of framing to properly position all holdown bolts, anchor bolts, column bases, and all other cast-in-place hardware. Refer to typical details. All hardware to be secured prior to foundation inspections.
- The sides and bottoms of dry excavations must be moistened to optimum moisture content or just above, just prior to placing concrete. Conversely, de-water footings as required to remove standing water and to maintain optimum working conditions.
- The Contractor shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all federal, state and local safety ordinances. The Contractor shall provide for the design and installation of all cribbing, bracing and shoring required.

ROD AND REBAR EPOXY INSTALLATION

- Special inspection is required, unless specifically noted otherwise. Special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Epoxy for anchoring bolts, rods, and reinforcing bars shall be as follows:
 - Concrete: Hilti HIT RE 500 v3 (ICC ESR-3814), Hilti HY 200 (ICC ESR-3187), or Simpson SET-3G (ICC ESR-4057).
 - Full Grouted Masonry: Hilti HY 200 (ICC ESR-3187), or Hilti HY 270 (ICC 2682), or Simpson SET-3G (ICC ESR-4057).
 - Hollow Cell Masonry Units and Unreinforced Masonry: Hilti HY 270 (ICC 2682), or Simpson ET-HP (ICC ESR 3372).
- Anchor bolts shall be installed in accordance with the manufacturer's printed installation instructions by qualified personnel trained to install epoxy anchors.
- Holes for post-installed anchors shall be drilled with a carbide tipped concrete/masonry drill bit using an electro-pneumatic hammer drill bit set in "rotation and hammer" mode. Hole diameter shall be 1/8" larger than the anchor diameter specified, unless noted otherwise. For installation in brick or hollow cell masonry units with a screen tube, the hole diameter shall be 1/4" larger than the anchor diameter, unless noted otherwise.
- DO NOT drill through existing reinforcing. A small diameter test hole shall be drilled at the installation location. If existing reinforcing is encountered, the installation location shall be relocated to avoid conflict and the abandoned hole shall be filled with non-shrink grout or drypack. For holes drilled into columns and beams, remove the rebar cover in order to positively identify the rebar location such that the holes avoid the rebar. Other non-destructive means may be used to identify the positions and depth of reinforcing.
- Holes shall be cleaned of dust and debris by blowing with 90 psi oil-free compressed air, brushing with a wire brush two times, and blowing with compressed air again to achieve a relatively dust-free wall surface.
- The base material shall be a minimum of 28 days old, within a temperature range of 50°F - 100°F, and dry at the time of epoxy installation. The base material shall have a minimum strength as follows:
 - Concrete: 2,500 psi
 - Full Grouted Masonry: 2,000 psi
- Fill each hole 1/2 - 2/3 full with epoxy, starting from the bottom of the hole to prevent air pockets. Withdraw the nozzle as the hole fills up with epoxy. Insert clean, oil-free anchor, turning slowly until the anchor contacts the bottom of the hole. DO NOT disturb anchor until fully cured. Cure time shall be per the manufacturer's installation instructions.

COLD-FORMED METAL FRAMING

- All material and workmanship shall conform to AISI "Specifications for the Design of Cold Formed Steel Structural Members", latest edition.
- All shapes including metal studs, joists, track, etc. shall be formed from steel that meets the requirements of the following, U.N.O.:
 - 16 gage and thicker (33 mils and thicker), 50 ksi Min. Yield Strength
 - Painted Steel - ASTM A570 Grade 50 or ASTM A607 Grade 50
 - Galvanized Steel - ASTM A653, Grade D
 - 18 gage, and Lighter (43 mils and thinner), 33 ksi Min. Yield Strength
 - Painted Steel - ASTM A570 Grade 33 or ASTM A611 Grade C
 - Galvanized Steel - ASTM A653, Grade A
- All miscellaneous steel shall conform to the following, U.N.O.:
 - 16 gage, and heavier (54 mils and thicker) - 50 ksi Min. Yield Strength
 - 18 gage, and Lighter (43 mils and thinner) - 33 ksi Min. Yield Strength
 - No welding shall be performed on any section thinner than 20 ga. (thinner than 33 mils)
- Specified fasteners shall be used unless notified in writing as to an acceptable substitution and include the following, U.N.O.:
 - Section to section (sheet to sheet) - Self drilling/tapping sheet metal screws as manufactured by Simpson Strongtie - X, TRSD, or PHSD series or approved equal.
 - Plywood to section (plywood to sheet) Self drilling/tapping plywood screws as manufactured by Simpson Strongtie (PPSD series) or Grabber Plywood Screws, or approved equal.
 - Light gage connectors to sections (connector to sheet) - self drilling/tapping sheet metal screws as manufactured by Simpson Strongtie - C-CFS10 series or approved equal.
 - Powder-Actuated or Power-Driven Fasteners (or "Shot Pins"):
 - Shall be by ITW Rammet, Hilti Inc., Simpson Strong-Tie or approved equal. Product and installation shall be per the manufacturer's respective ICC report: ICC ESR-1799 (Ramjet), ESR-1663 (Hilti), ER-4546 (Simpson), or per approved equal.
 - Shank diameter of shot-pins shall be 0.145" min., with a min. 3/4" diameter washer and 1 1/4" embedment UNO.
 - Shotpins may be used for attachment of miscellaneous furring, framing, and non-shearwalls to concrete or masonry. (Anchor bolts or other connectors must be used for sill plates in shearwalls.)
 - Mechanical Fasteners:
 - Sheet Metal Screws (SMS):
 - ASTM C1513, corrosion-resistant-coated, self-drilling, self-tapping steel drill screws.
 - Use low-profile head beneath sheathing, manufacturer's standard head elsewhere.
 - Screw length must be such that the entire pointed end extends beyond the interior face of the innermost member connected, with a minimum of three (3) threads exposed.
 - Minimum end, edge, & spacing distances in steel members shall be as follows:
 - #6 SMS = 1/2"
 - #10 SMS = 5/8"
 - #12 SMS = 3/4"
- Wire tying of framing components shall not be permitted.
- All studs shall be punched (i.e. with spacings @ 24" oc) U.N.O.
- All calculated stud properties shall be shall per AISI "Specifications for the Design of Cold Formed Steel Structural Members" based on the following minimum thickness table:

Reference Gage Designation (mils)	Minimum Material Thickness (in.)
25	0.0179
18	0.0269
20-Drywall	0.0296
20-Structural	0.0329
18	0.0346
16	0.0538
14	0.0677
12	0.0966
10	0.1180
- Lateral bracing for steel studs is required when wall board or sheathing does not continue full height on both sides. Bridging shall be installed per manufacturer's recommendations unless specifically shown otherwise on these plans.
- Install continuous top and bottom tracks sized to match wall. Align tracks accurately and securely anchor at corners and ends, and at spacing matching stud spacing.
- Squarely seat wall against top and bottom tracks with gap not exceeding 1/8 inch between the end of wall framing member and the web of track. Fasten all studs to top and bottom tracks. Space tube studs as indicated on the drawings, however spacing shall not be greater than 24" on-center.
- Set walls plumb, except as required for nonplumb walls, warped surfaces, and similar configurations.
- Fill joints between adjacent wall panels with Dow Great Stuff construction adhesive prior to the installation of any roof or floor framing which would surcharge those walls.
- Install headers per plan over wall openings wider than stud spacing. Locate headers above openings as indicated. Where indicated, fabricate headers using light gage elements to transfer load to supporting studs, complete with clip-angle connectors, web stiffeners, and/or gusset plates.
- Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with screws, clip angles, or by welding. Space jack studs to match full-height wall studs.
- Align floor and roof framing over studs. Where framing cannot be aligned, continuously reinforce track to transfer loads.
- Anchor studs abutting structural columns or walls, including masonry walls, to supporting structure as indicated.
- Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.
- If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.
- Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.
- Expansion Anchors: Use only where specifically detailed on the drawings or approved by the Owner or Owner's representative. Refer to the manufacturer's ICC Evaluation Report for materials and installation requirements.

Field Quality Control

- Field and shop welds shall be subject to special inspection.
- Remove and replace work where test results indicate that it does not comply with specified requirements.
- Provide final protection and maintain conditions, in a manner acceptable to Manufacturer and Installer, that ensure that cold-formed metal framing is without damage or deterioration at time of substantial completion.

CONCRETE

- All concrete shall have:
 - an ultimate compressive strength (F_c) of 3,000 psi at 28 days (UNO).
 - a maximum slump of 5" at point of placement.
 - a W/C ratio of 0.55 or less for all slabs, walls, and columns, and 0.60 or less for all other concrete.
 - a normal dry-weight density (UNO).
- Special inspection is NOT required as the foundations have been *designed* with F_c = 2,500 psi in accordance with the Governing Building Code, section 1705.3, exceptions 1, 2.1, and 2.3, unless explicitly specified herein, on the structural plans, or by the Building Department. At a minimum, special inspection is always required on:
 - structural slabs, flat plates
 - walls, columns, beams
 - piles, caissons
 - welding of reinforcement, installation of mechanical bar splice devices, epoxy applicationWhen required or specified, special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Testing of materials used in concrete construction must be performed as noted on structural plans or at the request of the Building Department to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency and at the expense of the contractor; such tests shall be made in accordance with the standards listed in the Governing Building Code, Table 1705.3. When testing of concrete is required, four (4) test cylinders shall be taken from each 150 yards, or fraction thereof, poured in any one day. One (1) cylinder shall be tested at seven (7) days, two (2) at 28 days; one (1) shall be held in reserve. Where 4x8 cylinders are used, (5) test cylinders shall be taken, with (3) cylinders tested at 28 days. If Contractor elects to have additional tests performed for "early-break" results, additional test cylinders must be taken. At no time shall the Contractor initiate the testing agency to perform tests on a schedule different than above without the prior authorization of the Engineer. Contractor is responsible for complying with applicable testing requirements of the Building Department. Copies of all test reports shall be provided to Engineer and Building Department for review in a timely manner.
- The Contractor shall remove and replace any concrete which fails to attain specified 28 day compressive strength if so directed by the Engineer. Any concrete in the hardened concrete shall be repaired to the satisfaction of the Engineer and/or Architect or the hardened concrete shall be replaced at the Contractor's expense.
- All concrete work shall conform to the Governing Building Code, Chapter 19.
- All cement shall be Portland Cement Type I or II and shall conform to ASTM C150.
- All aggregates shall conform to ASTM C33. Maximum aggregate sizes:
 - Footings: 1-1/2"
 - All other work: 3/4"
- Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
 - Permanently exposed to earth or weather
 - Cast against earth: 2"
 - Cast against forms: 2"
 - Not exposed to earth or weather
 - Slabs, walls, joists: 3/4"
 - Beams, girders, columns: 1-1/2"
- The minimum lap splice length for all reinforcing steel shall be as noted in the typical details on sheet S-101. All lap splices shall be staggered.
- All reinforcing steel, anchor bolts, dowels, inserts, and any other hardware to be cast in concrete shall be well secured in position prior to foundation inspection. All hardware to be installed in accordance with respective manufacturer's specifications. Refer to architectural and structural plans for locations of embedded items.
- Locations of all construction joints, other than specified on the structural plans, shall be approved by the Architect and Engineer prior to forming. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregates. All surfaces to receive fresh concrete shall be maintained continuously wet at least three (3) hours in advance of concrete placement. Unless specifically detailed or otherwise noted, construction and control joints shall be provided in all concrete slabs-on-grade. Joints shall be located such that the area does not exceed 400 sq. feet.
- The Architect, Engineer and appropriate inspectors shall be notified in a timely manner for a reinforcement inspection prior to the placement of any concrete.
- The Contractor shall obtain approval from the Architect and the Engineer prior to placing sleeves, pipes, ducts, chases, coring and opening or on through structural concrete beams, walls, floors, and roof slabs unless specifically detailed or noted on the plans. All piles or conduits passing through concrete members shall be sleeved with standard steel pipe sections.
- The Contractor is responsible for design, installation, maintenance and removal of all formwork. Forms shall be properly constructed, sufficiently tight to prevent leakage, sufficiently strong and braced to maintain their shape and alignment until no longer needed for concrete support. Joints in formwork shall be tightly fitted and blocked, and shall produce a finished concrete surface that is true and free from blemishes. Forms for exposed concrete shall be pre-approved by the Architect to ensure conformance with design intent.
- Remove formwork in accordance with the following schedule:
 - Forms at slab edge: 1 day
 - Side forms at footings: 2 days
 - All other vertical surfaces: 7 days
 - Beams, columns, girders: 15 days
 - Elevated slabs: 28 daysEngineer reserves the right to modify removal schedule above based on field observations, concrete conditions, and/or concrete test results.
- Retaining walls shall not be backfilled until concrete has set a minimum of 14 days. Refer to structural plans for slab and/or framing installation sequencing.
- Concrete (except slabs-on-grade 6" or less) shall be mechanically vibrated as it is placed. Vibrator to be operated by experienced personnel. The vibrator shall be used to consolidate the concrete. The vibrator shall not be used to convey concrete, nor shall it be placed on reinforcing and/or forms.
- Concrete shall be maintained in a moist condition for a min. of five (5) days after placement.
- Concrete shall not be permitted to free fall more than six (6) feet. For heights greater than six (6) feet, use trowel, pump or other method consistent with applicable standards.
- When specified ultimate compressive strength is greater than 2500 psi, Contractor shall submit mix designs to Architect and Engineer for approval seven (7) days prior to placement. Mix designs shall be prepared by an approved testing laboratory. Sufficient data must be provided for all admixtures.
- Refer to Architectural plans for locations of all dimensions, slab depressions, slopes, drains, curbs, and control joints.

REINFORCEMENT

- Reinforcing steel shall be deformed, clean, free of rust, grease or any other material likely to impair concrete bond.
- All bars shall conform to ASTM A615, Grade 60 minimum (UNO on structural plans). All weld wire fabric (WWF) shall conform to ASTM A185.
- Reinforcing steel that is to be welded shall conform to ASTM A706. All welding of reinforcement shall be subject to special inspection.
- Contractor shall take necessary steps (standard ties, anchorage devices, etc.) to secure all reinforcing steel in their true position and prevent displacement during concrete placement.
- Fabrication, placement and installation of reinforcing steel shall conform to:
 - Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice
 - The Governing Building Code
- Shop drawings for fabrication of reinforcing steel shall be approved by the Contractor and submitted to the Architect and Engineer for review and approval prior to fabrication. Shop drawings are not required for slabs-on-grade or foundations unless specifically noted on the structural plans.
- Heating of reinforcing steel to aid in bending and shaping of bars is not permitted. All bends in reinforcing steel are to be made cold. All bend radii shall conform to CRSI Manual of Standard Practice.
- Refer to Concrete and Masonry notes for specific minimum splice length and splice staggering requirements. Lap welded wire fabric (WWF) reinforcement two (2) modules minimum (UNO). All splices are to be staggered.

ROUGH CARPENTRY

- Refer to latest edition of the Governing Building Code, Table 2304.10.2, for all minimum nailing requirements.
- Refer to individual sections for applicable material specifications.
- Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, all members to have solid bearing without being shimmed, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use full lengths unless otherwise specified.
- Metal framing angles, anchor, clips, straps, ties, holdowns, etc. shall be mfg by Simpson Strong-Tie Co. No substitutions shall be permitted without prior approval of the Engineer.
- All walls are to have continuous double 2x top plates spliced as followings unless specifically noted otherwise on the plans and details.
- Wall Studs:
 - Unless specifically noted on the plan and details, use the following guidelines for wall framing:
 - Use 2x4 studs at 16" oc for walls less than 9'-0" tall.
 - Walls 9'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" oc
 - Request specifically engineered wall details for walls greater than 16'-0" tall.
- Blocking:
 - Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over 8' high.
 - All foundation cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
 - Rim blocking/rim board to be 1-1/4" minimum width x full depth at bearing walls, UNO per plans and details. Refer to shearwall section for additional rim/blocking requirements.
- Notching:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, notches shall not exceed 25% of the stud depth.
 - Non-bearing partition walls, notches shall not exceed 40% of the stud depth.
 - Successive notches in the same member shall be spaced a min of 18" apart.
- Boring:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, holes shall not exceed 40% of the stud depth.
 - Non-bearing partition walls, may be drilled not greater than 60% of stud depth.
 - Successive holes in the same member shall be spaced a minimum of 18" apart.
- Bearing:
 - Provide a min. of 1-1/2" of bearing for all 2x joists and hdsr 4x10 / 6x8 & smaller.
 - Provide a min. of 3" of bearing for all beams and hdsr 4x12 / 6x10 & larger, UNO on plans.
 - Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.
- Posts:
 - Posts inside walls shall bear on sill plates and shall be continuous between top and bottom plates, unless specifically noted otherwise.
 - Provide posts under all beams, girders or double joists equal to the width of the supported member.
 - Posts on upper levels are to be stacked on posts of equal size at levels below, unless a larger post is specified on the plans.
 - Vertically oriented blocking ("squash blocking") shall be used to fully transfer the post area through floors to foundation. Vertical blocking shall be equal to floor thickness plus 1/16".
 - Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.
 - Posts when isolated, shall be seated in Simpson post or column bases, unless noted otherwise on the plans
- Roof Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk/rg or cross-bridging between the joists at 8' oc max.
 - Provide all cricket framing required to achieve positive drainage per Arch.
 - Install plywood panels with the face grain across the framing and close joints and nail at each support. Fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4' x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
 - Provide Simpson "PSCl" clips at all plywood joints perpendicular to framing. Provide clips midway between framing members at the unsupported edges of plywood when members are spaced at 24" oc or greater. If clips are not used, provide solid blocking for joints perpendicular to framing.
- Floor Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk/rg or cross-bridging between the joists at 8' oc max. For floors framed with I joists, refer to the mfg's spec's for blk/rg requirements.
 - Provide full depth solid 2x blocking between the joists under all walls and partitions where the wall or partition is perpendicular to the floor framing (including floors framed with I joists).
 - Install plywood sheathing with the face grain across supports, end supports staggered, and the edges of sheets centered over supports. If T&G plywood is used, blocking need not be provided at all plywood edges (UNO per plan). If T&G plywood is not used, blocking shall be provided at all plywood edges. Glue plywood to joists and fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4' x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
- Shear Walls:
 - Refer to plans for all shearwall locations, length type and nailing.
 - Refer to Shearwall Schedule on title sheet for additional information.
 - Shear wall lengths specified on plans are minimum required.
 - End shear walls to be treated with common nails. All nails to have minimum 3/8" edge distance to panel or framing member.
 - Where 3x framing is required per the shear wall schedule, stagger edge nailing.
 - Oriented Strand Board (OSB) may be used in lieu of plywood.
 - Typical Rim Board/Blocking at Shearwalls shall be 1-3/4" Min. LSL (refer to Engineered Lumber Section for Material Specifications). Refer to Shearwall Schedule per Plan for Min. Rim/Blkg Width Requirements per Transfer Fasteners.

TIMBER / LUMBER

- All structural lumber shall be Douglas Fir-Larch, S4S and shall conform to the Governing Building Code, section 2303.1.1.
- The minimum lumber grade of each member shall be as follows (unless specifically noted otherwise on plans and details):
 - 2x studs, blocking, plates: Stud
 - 2x joists #2 or better
 - 4x4, 4x6, or 6x6 beams or posts #2 or better
 - 4x8, 6x8, or larger beams or posts #1 or betterIt is recommended (but not required) that all exposed members be Select Structural or better and free of heart center due to visual characteristics.
- All lumber in contact with concrete or masonry shall be pressure treated Douglas Fir. Whenever it is necessary to cut, notch, bore or splice pressure treated material, all newly cut surfaces shall be thoroughly painted with the same preservative.
- Maximum moisture content for all structural members shall not exceed 19%.
- All plywood sheathing shall be CDX grade (or better) Douglas Fir with exterior glue. All sheathing shall conform to the Governing Building Code and grade-marked by the American Plywood Association (APA). Panel index to be 40/20 for floors and 24/0 for roofs unless specifically noted otherwise on the plans and details.

EXISTING CONDITIONS

- Work shown is new unless noted as Existing: (E). See "As Built" drawings by Minta Architecture, dated 09/01/2000 for existing building items not shown or noted.
- Existing construction shown on these drawings was obtained from existing drawings and/or site investigation. Field verify all conditions & dimensions prior to shop drawing production and fabrication of structural elements.
- Where existing conditions vary significantly from those shown on these drawings, the Engineer shall be notified prior to continued construction related to subject conditions.
- Shore all existing construction as required, including where welding to existing steel framing. Shoring design by others.
- Do not core or cut openings in existing concrete or masonry without specific approval of the Engineer. All existing concrete surfaces to be in contact with new concrete shall be cleaned and roughened to 1/4" minimum amplitude. Use ICC approved bonding agent on existing concrete prior to placing new concrete.
- Verify location of existing rebar before fabrication for non-destructive testing. Existing reinforcing shall be avoided where drilling for post-installed anchors or concrete dowels.
- All existing (E) wood elements to remain shall be field inspected during construction and treated for dirt removal / control. Where existing GLB's to remain are found to have extensive dry rot deeper than the top two laminations (3"), the structural engineer shall be notified prior to continued construction related to subject GLB's.
- All existing connections at elements to be replaced shall be replaced or re-attached to match existing conditions.

ENGINEERED LUMBER

- Glue-laminated Beams (GLB):
 - shall have the following properties:

Use	EWS Combination Symbol	Species / Grade / (psi)	Flexural Stress, F _b (ksi)	Modulus of Elasticity, E (ksi)	Horiz. Shear Stress, F _v (psi)	Comp. Stress, F _c para. (psi)	Comp. Stress, F _c perp. (psi)
Simple Span Bm	24F-V4	DF	+2,400/-1,850	1,800	265	1,650	650
Continuous or Cantilever Bm	24F-V8	DF	+/- 2,400	1,800	265	1,650	650
Columns	2	DF / L2	+/- 1,800	1,300	265	1,600	560
 - shall not be notched, cut or drilled without prior approval from the Engineer
 - shall have exterior glue and weather-treatment prior to installation
 - shall be fabricated by an approved manufacturer & in accordance with ANSI A 190.1
 - shall be the factory standard camber of 3,500-5,000 ft on beams UNO per Plan
- Laminated Veneer Lumber (VLV):
 - shall be 1-3/4" minimum thickness with the following minimum properties:
 - E = 2000 ksi
 - F_b = 2600 psi
 - F_v = 285 psi
 - F_c (parallel) = 2500 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 1500 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 8" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Laminated Strand Lumber (LSL):
 - shall be 1-1/4" minimum thickness with the following minimum properties:
 - E = 1550 ksi
 - F_b = 2325 psi
 - F_v = 310 psi
 - F_c (parallel) = 2500 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 1070 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 8" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Parallel Strand Lumber (PSL):
 - shall be 2-1/2" minimum thickness with the following minimum properties:
 - E = 2200 ksi
 - F_b = 2900 psi
 - F_v = 290 psi
 - F_c (parallel) = 2900 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 2025 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - Narrow Face: 16d @ 6" oc, 10d @ 4" oc, and 8d @ 3" oc
 - Wide Face: 16d @ 8" oc, and 10d & 8d @ 6" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- Plywood L Joists:
 - type and manufacturer shall be clearly noted on the plans. Substitutions shall not be permitted without prior approval of the Engineer.
 - shall be installed in accordance with applicable code approvals and mfg's spec's.
 - shall bear a minimum of 1-3/4" at all end supports, and 3-1/2" at intermediate supports. Provide full depth solid blocking at all bearing points.
 - shall be installed with intermediate blocking or bridging as specified by the Mfr. Only omit intermediate blocking when specifically allowed by the Mfr.
 - shall not be cut, notched or drilled without specific written approval of the EOR.

FASTENERS

- Nails:
 - shall be with "common" nails unless noted otherwise.
 - shall not be driven closer than 1/2 their length nor closer than 1/4 of their length to the edge or end of a member, except for sheathing.
 - shall be installed in pre-drilled lead holes if necessary to avoid splitting.
 - shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper when in contact with preservative-treated wood.
 - When used in exterior applications, nails shall have coating types and weights in accordance with the treated wood or bolt manufacturer's Recs. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equiv.) shall be used.
 - When used in interior, dry environment in SBX/DOT or zinc borate preservative-treated wood, plain carbon nails shall be permitted.
 - All nailing shall conform to the Governing Building Code, Table 2304.10.2.
- Lag screws:
 - shall be installed into pre-drilled lead holes. Lubricant (or soap) shall be used to facilitate installation and prevent damage to the screws.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
- Bolts:
 - shall conform to ASTM A307, UNO specifically on plans and details.
 - shall be installed in pre-drilled holes a max of 1/16" larger than the specified bolt dia.
 - when installed against wood surfaces, shall have standard washers under the heads and nuts.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
- Anchor Bolts:
 - shall be installed at all exterior walls and all interior shear and/or bearing walls.
 - shall be 5/8" diameter with 3x3x0.229" steel plate washers at shearwalls.
 - shall be 5/8" diameter with 2x2x3/16" steel plate washers at non-shearwalls.
 - shall have 7" minimum embedment. (Contractor to coordinate length of bolts with sill plate thicknesses).
 - shall conform to ASTM F1554, Grade 36.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
 - shall not be spaced greater than 72" oc Refer to shearwall schedule for specific anchor bolt spacing requirements.
 - shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than 7 dia.), and a min. of two bolts per piece of sill plate is required.
 - shall be secured in place prior to foundation inspection.
- Powder Actuated Shot Pins:
 - shall be installed at all interior non-bearing, non-shearwalls.
 - shall be 0.145x3" with 1.5" diameter steel washers.
 - shall not be spaced greater than 32" o.c.



ASHLEY & VANCE
ENGINEERING

1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181

WWW.ASHLEYVANCE.COM

CIVIL • STRUCTURAL

ENGINEER OF RECORD:



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:	
△	07/06/2026 PLAN CHECK 1
△	

DEFERRED STRUCTURAL SUBMITTALS - BIDDER DESIGNED ELEMENTS

1. Refer to list below for deferred structural submittals to be distributed to Architect and Engineer of Record (EOR) for review. **NOTE:** review of deferred submittals and shop drawings by EOR is only for general conformance with the structural drawings and specifications. General contractor shall review bidder designed and deferred submittal drawings prior to review by Architect & Engineer of Record.

2. Deferred submittal items shall be designed and comply with governing building code. Submittals shall include, but are not limited to:

(a) Calculations prepared, stamped, and signed by the licensed design professional.

(b) Design drawings/details stamped, and signed by the licensed design professional.

(c) Product information and manufacturer's requirements as applicable to ensure proper installation.

3. Refer to project specifications on S-101 for additional information for deferred submittals/bidder designed elements listed below.

4. Submittals shall be received in a timely manner to ensure minimal impact to construction schedule. Refer to list below for recommended lead times.

5. Deferral of any submittal items shall have the prior approval of the building official. Documents for deferred submittal items shall be submitted to the registered design professional in responsible charge prior to forwarding them to the building official with a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
- I. Prefabricated Steel Stair System

(a) The contractor shall submit shop drawings to the engineer of record a minimum of (3) weeks prior to scheduled fabrication of framing members.

(b) Shop drawings shall include overall layout, manufacturer's installation notes, and all details necessary to ensure proper installation.

(c) Prefabricated steel stair system shall be designed for the following minimum criteria:

(i) Live Load = 100 psf
- STATEMENT OF SPECIAL INSPECTIONS
1. This Statement of Special Inspection is submitted in fulfillment of the requirements of the Governing Building Code, section 1704 and 1705.

2. Special Inspections and Testings will be performed in accordance with the approved plans and specifications, this statement and the Governing Building Code, Section 1704 , 1705 , 1707 , and 1708.

3. The schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.

4. Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with the Governing Building Code Section 1704.2.4.

5. A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.2.4). The Final Report will document:

(a) Required special inspections.

(b) Correction of discrepancies noted in inspections.

6. The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in the Governing Building Code, Section 1704.2.

7. 1704.4 Contractor responsibility. Each contractor responsible for the construction of a main wind- or seismic force-resisting system, designated seismic system or a wind- or seismic force-resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspection.
- SCHEDULE OF SPECIAL INSPECTIONS
- Column Header Notation Used in Table:
- C Indicates continuous inspection is required.

P Indicates periodic inspections are required. The notes and/or contract documents should clarify.
- Box Entry Notation Used in Table:
- X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.

-- Denotes a one-time activity or one whose frequency is defined in some other manner.
- Additional details regarding inspections are provided in the project specifications or notes on the drawings.
- | Verification & Inspection | C | P | Notes |
|---|----|----|-------|
| 1705.3 - Concrete | | | |
| 1. Inspect reinforcing steel, including prestressing tendons, verify and placement | | X | |
| 2. Inspect reinforcing steel welding in accordance with Table 1705.2 - Steel, item 5a | -- | -- | |
| 3. Inspect bolts to be cast in concrete prior to and during placement of concrete | X | | |
| 4. Inspect anchors post-installed in hardened concrete | | | |
| a. Adhesive anchors ¹ installed in horizontally or upwardly inclined orientations to resist sustained tension | | | |
| b. Mechanical anchors ² and adhesive anchors ¹ not defined in 4.a | | X | |
| 5. Verifying use of required design mix | | X | |
| 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete | X | | |
| 7. Inspect concrete and shotcrete placement for proper application techniques | X | | |
| 8. Verify maintenance of specified curing temperature and techniques | | X | |
| 9. Inspect prestressed concrete for: <div>a. Application of prestressing forces</div> <div>b. Grouting of bonded prestressing tendons</div> | | | |
| 10. Inspect erection of precast concrete members | | | |
| 11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs | | | |
| 12. Inspect formwork for shape, location, and dimensions of the concrete member being formed | | X | |
| FOOTNOTES: <div>1. Prior to epoxy placement, it must be verified that the hole is clean, dry, and free of loose debris</div> <div>2. Periodic inspection shall take place such that the installation of a minimum of two (2) anchors per each shear wall are observed</div> | | | |
- | | | | |
|--|---|---|--|
| 1705.6 - Soils | | | |
| 1. Verify materials below shallow footings are adequate to achieve the desired bearing capacity | | X | |
| 2. Verify excavations are extended to proper depth and have reached proper material | | X | |
| 3. Perform classification and testing of compacted fill materials | | X | |
| 4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill | X | | |
| 5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly | | X | |
- REVIEWED FOR CODE COMPLIANCE
- August 28, 2026
- BUREAU VERITAS NORTH AMERICA, INC.
-
- 1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181
- WWW.ASHLEYVANCE.COM
- CIVIL • STRUCTURAL
- ENGINEER OF RECORD:
-
- NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713
- REVISION:
- | | | |
|----|------------|------------|
| 1 | 07/06/2026 | PLAN CHECK |
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| 10 | | |
- PROJECT ENGINEER:
- Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com
- DATE: 03/18/2026
- SCALE: NTS
- AV JOB: 241843
- SHEET SIZE: 24"x36"
- SPECIAL
INSPECTIONS
- S-102
- DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS
- THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ASHLEY & VANCE ENGINEERING INC. AND ARE RESTRICTED FOR USE ON THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. REPRODUCTION OR PUBLICATION IN ANY FORM, WHOLE OR IN PART, IS PROHIBITED. VISUAL CONTACT WITH THESE DOCUMENTS CONSTITUTES ACCEPTANCE OF THESE RESTRICTIONS.

ENGINEER OF RECORD:



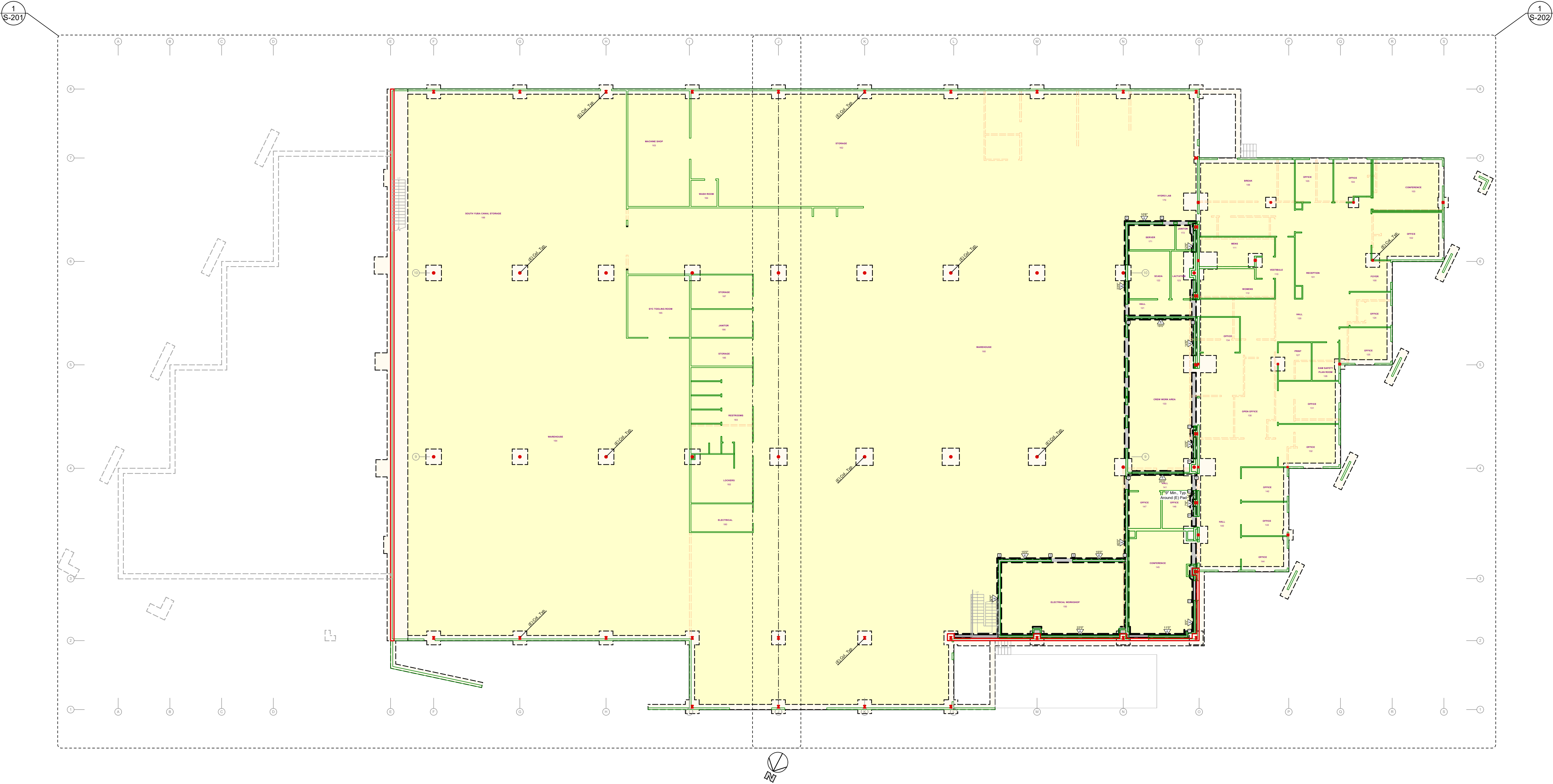
NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:	
	07/06/2026 PLAN CHECK
PROJECT ENGINEER: Jonathan Herrera (616) 790-3181 x194 jherrera@ashleyvance.com	
DATE: 03/18/2026	SCALE: 1/8"=1'-0"
JOB: 241843	SHEET SIZE: 24"x36"

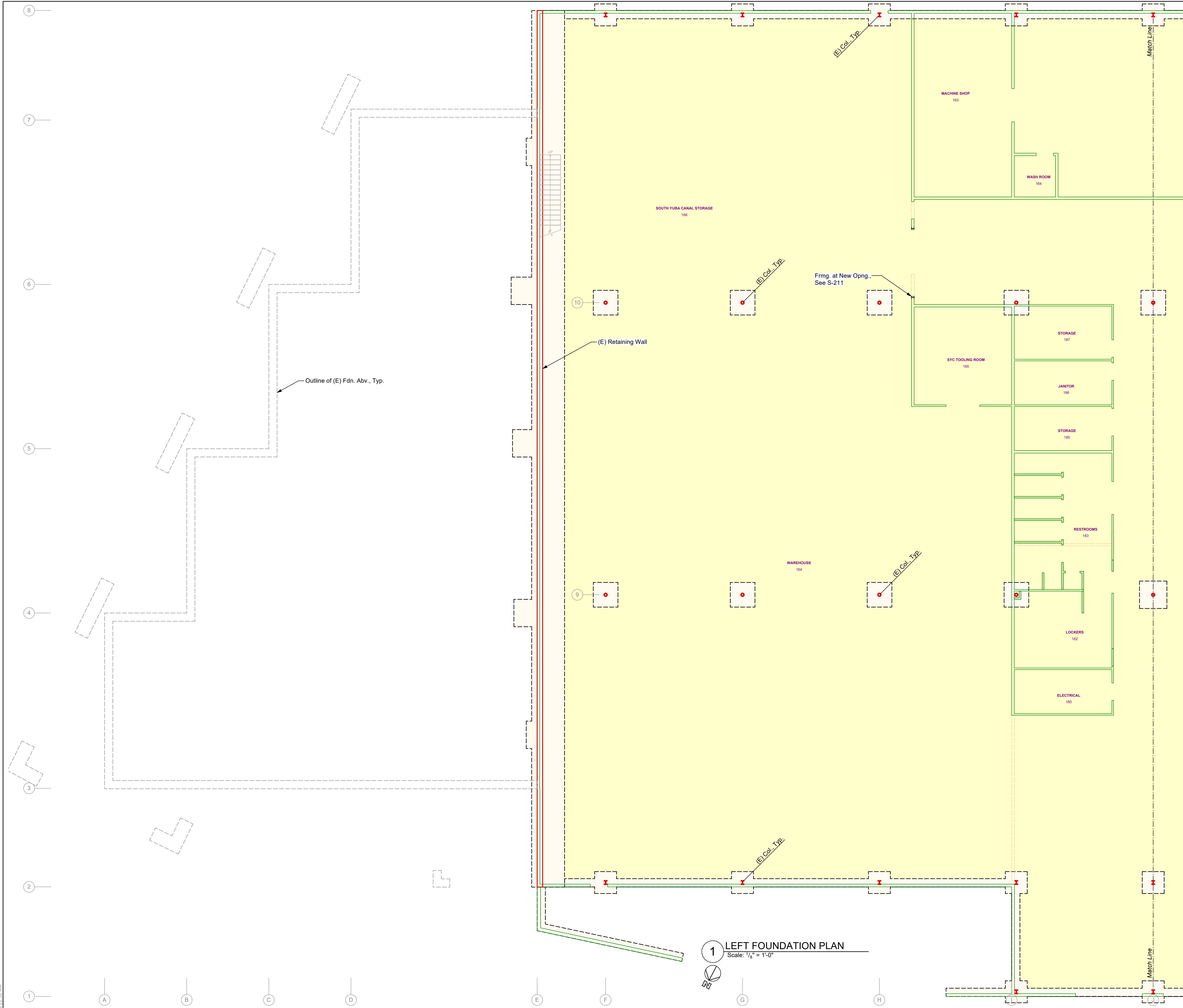
OVERALL FOUNDATION PLAN

S-200

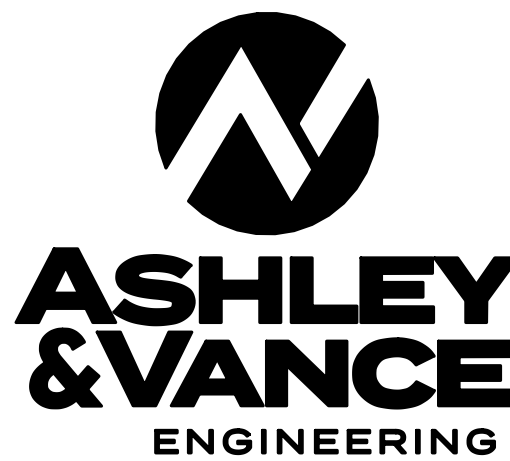
REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC



148-152
07/22/2026
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REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

TYPICAL CFS DETAILS

Typical Detail Reference	
CFS Stud at Slab	3/S-300
CFS Stud to Roof	2 & 3/S-301
Top Track or Ledger Splice	6/S-301

GENERAL FOUNDATION NOTES

- (E) Foundation to Remain
- (E) Pad Foundation to Remain
- (E) Slab-on-Grade to Remain
- (N) Foundation, 15" Wide x 18" Embedment w/ (2) #4 T&B
- (N) Foundation 15" Wide Cont. Ftg. (2) #4 Cont. at Bot. 10" Wide Stem w/ #4 @ 12" oc EW, Typ.
- Denotes Step in Slab-on-Grade Step Ht. & Extent per Arch.
- Wall Above (See S-200)
- (E) Masonry Wall
- (E) Wall to be Removed

Foundations per Governing Building Code, Table 1806.2
At the request of the client (or client's agent), Ashley & Vance Engineering has designed the foundations in conformance with Table 1806.2. If the building official determines that expansive soils are present, or other geologic issues of concern, then they may require that special provisions be made to the foundation design to safeguard against damage due to the expansiveness or due to other geologic issues. If this becomes the situation, all foundation construction must be halted and the client, at their own expense, shall: (a) obtain a soils report prepared by a Soils Engineer licensed in the state of the project; (b) commission Ashley & Vance Engineering to revise the foundation plans and details, and framing plans if necessary, to reflect the recommendations of the soils report; (c) submit the revised plans to the Building Department for approval.

See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.
Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.

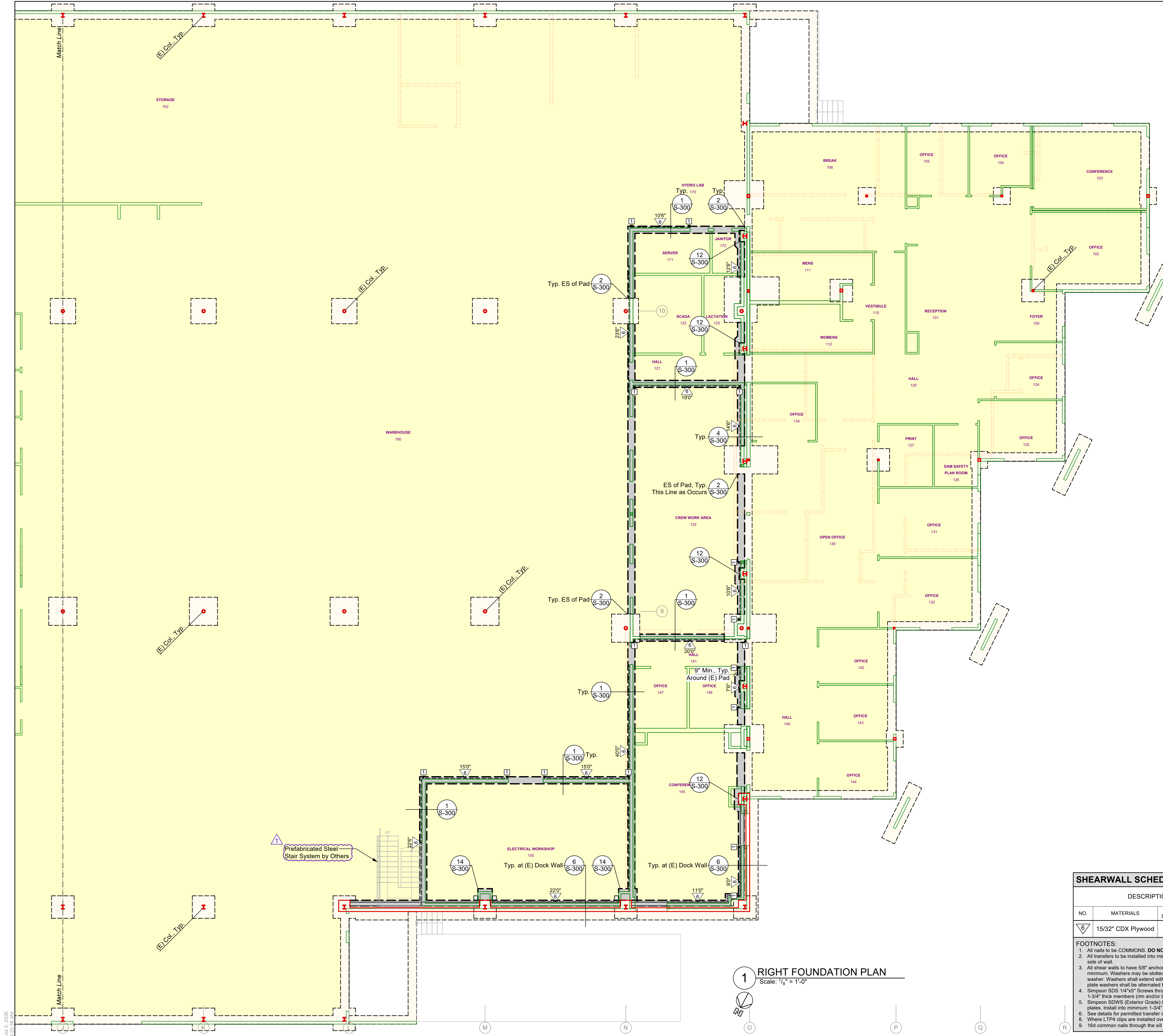
REVISION:		
1	07/06/2026	PLAN CHECK 1
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PROJECT ENGINEER: Jonathan Herrera (916) 790-3181 x194 jherrera@ashleyvance.com		
DATE: 03/18/2026	SCALE: 1/8"=1'-0"	
AV JOB: 241843	SHEET SIZE: 24"x36"	

LEFT FOUNDATION
PLAN

S-201

DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS

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August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

HOLDOWN SCHEDULE				
TYPE	HOLDOWN ^{1,2}	MIN. POST	ANCHOR / EMBEDMENT	DETAILS
1	HDUE5	(2) 2x	SABR 5/8x24 / 18" Min.	(N) Ftg: 7/S-300 (E) Ftg: 8/S-300

FOOTNOTES:
1. Shared holdowns to be installed per detail 10/S-100, Typical Shearwall intersections, (UNO)
2. All holdowns shown shall be continued down to the foundation with the same size holdowns and post, (UNO)

TYPICAL CFS DETAILS	
Typical Detail Reference	
CFS Stud at Slab	3/S-300
CFS Stud to Roof	2 & 3/S-301
Top Track or Ledger Splice	6/S-301

GENERAL FOUNDATION NOTES	
(E) Foundation to Remain	
(E) Pad Foundation to Remain	
(E) Slab-on-Grade to Remain	
(N) Foundation, 15" Wide x 18" Embedment w/ (2) #4 T&B	
(N) Foundation	
15" Wide Cont. Ftg. (2) #4 Cont. at Bot. 10" Wide Stem w/ #4 @ 12" oc EW, Typ.	
Denotes Step in Slab-on-Grade Step Ht. & Extent per Arch.	
Wall Above (See S-200)	
(E) Masonry Wall	
(E) Wall to be Removed	

Foundations per Governing Building Code, Table 1806.2
At the request of the client (or client's agent), Ashley & Vance Engineering has designed the foundations in conformance with Table 1806.2. If the building official determines that expansive soils are present, or other geologic issues of concern, then they may require that special provisions be made to the foundation design to safeguard against damage due to the expansiveness or due to other geologic issues. If this becomes the situation, all foundation construction must be halted and the client, at their own expense, shall: (a) obtain a soils report prepared by a Soils Engineer licensed in the state of the project; (b) commission Ashley & Vance Engineering to revise the foundation plans and details, and framing plans if necessary, to reflect the recommendations of the soils report; (c) submit the revised plans to the Building Department for approval.
See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.
Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.

SHEARWALL SCHEDULE											
DESCRIPTION						NAILING ¹		TRANSFERS ²			
NO.	MATERIALS	DBL SIDED	SILL PLATE	PANEL B'DRY	SIZE	SPC ³	5/8" AB	SDS ⁴ Screw	SDWS ⁵ Screw	A35, LTP4, 6,8 or LTP5	RBC 16d ⁹
1	15/32" CDX Plywood	N	2x	2x	10d	6"	41"	9"	11"	13"	11" 5"

FOOTNOTES:
1. All nails to be COMMONS. DO NOT use box type nails. All "field" nailing to be 12" oc. UNO. Penetration shall be 1-1/2" Min. in framing.
2. All transfers to be installed into min. 1-1/2" thick members, UNO. Where clips are spaced less than 6" oc, stagger clips on each side of wall.
3. All shear walls to have 5/8" anchor bolts, embedded 7" into concrete foundations, with 3"x3"x0.229" thick plate washers, minimum. Washers may be slotted (slot length not to exceed 1-3/4") w/ standard cut washer placed between nut and plate washer. Washers shall extend within 1/2" of the edge of the bottom plate on the sheathed side. At walls sheathed on 2 sides, plate washers shall be alternated to each side of plate. [Governing Building Code, Section 2308.3.1] [AF&PA SDPWVS 4.3.6.4.3]
4. Simpson SDS 1/4"x2" Screws through 2x sill, or SDS 1/4"x2" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). [ICC ESR 2236]
5. Simpson SDWS (Exterior Grade) 0.22"x5" Screws through 2x sill, or SDWS (Exterior Grade) 0.22"x8" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). [ICC ES AC233]
6. See details for permitted transfer clip types and locations.
7. Where LTP4 clips are installed over shear wall sheathing, fasten with full length 8d common nails.
8. 16d common nails through the sill plate to rim member or blocking. DO NOT use w/ LVL or LSL Rims.
9. 16d common nails through the sill plate to rim member or blocking.



1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181

WWW.ASHLEYVANCE.COM

CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:	
1	07/06/2026 PLAN CHECK 1
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PROJECT ENGINEER: Jonathan Herrera (916) 790-3181 x194 jherrera@ashleyvance.com	
DATE: 03/18/2026	SCALE: 1/8"=1'-0"
AV JOB: 241843	SHEET SIZE: 24"x36"

RIGHT
FOUNDATION PLAN

S-202

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August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



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Roseville, CA 95661
(916) 790-3181

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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:

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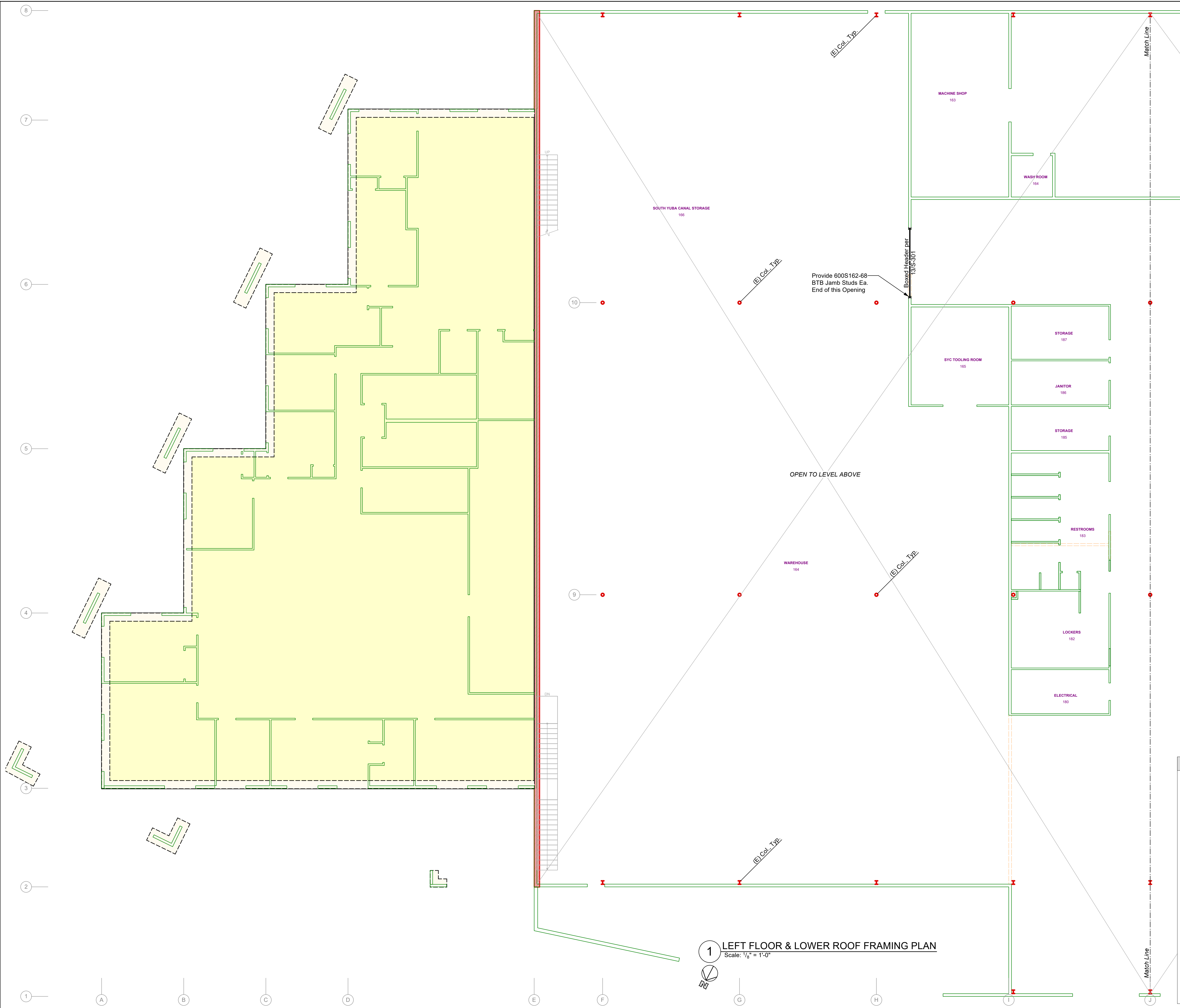
PROJECT ENGINEER:
Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com

DATE: 03/18/2026 SCALE: 1/8"=1'-0"
AV JOB: 241843 SHEET SIZE: 24"x36"

OVERALL FLOOR &
LOWER ROOF
FRAMING PLAN

S-210

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REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

TYPICAL CFS DETAILS	
Typical Detail Reference	
CFS Stud at Slab	3/S-300
CFS Stud to Roof	2 & 3/S-301
Top Track or Ledger Splice	6/S-301

WALL SCHEDULE	
Stud wall locations per Architecturals.	
(E) Wall to be Removed	
(E) Wall to Remain	
(N) Non-Struc. Light Gage Stud Partition Wall	
Wall Thk. per Arch, 350S125-33 Studs @ 16" oc Min. Provide Bracing @ Mid-Height per Detail 91S-301. Typ.	

GENERAL FRAMING NOTES

(N) Beams (per Call-out)
(E) Beams (to Remain)

All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO
All Lumber 4x8, 6x8 and Larger to be DF #1 UNO
All Beams to Bear on Plates w/ Indicated Post or Doubler Below UNO
All Hangers Shall be Installed w/ Max. Nailing per Mfr. & Sized for Full Width & Depth of Supported Members, UNO
Floor sheathing to be 3/4" plywood or OSB, T & G, PI 40/20, glued and nailed w/ 10d commons at 6", 6", 12"
Provide wall length continuous full depth solid blocking (where floor joists perpendicular) or double floor joist (where joists parallel) for all walls above.
All Openings in CFS Walls Shall Have (2) 350S125-33 BTB Headers (UNO). See Detail 41S-301 for Additional Info.

Waterproofing, flashing, & finish details per Architecturals.

See General Notes & Specifications for additional requirements and material specifications.

All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.



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Roseville, CA 95661
(916) 790-3181

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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



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Colfax, CA 95713

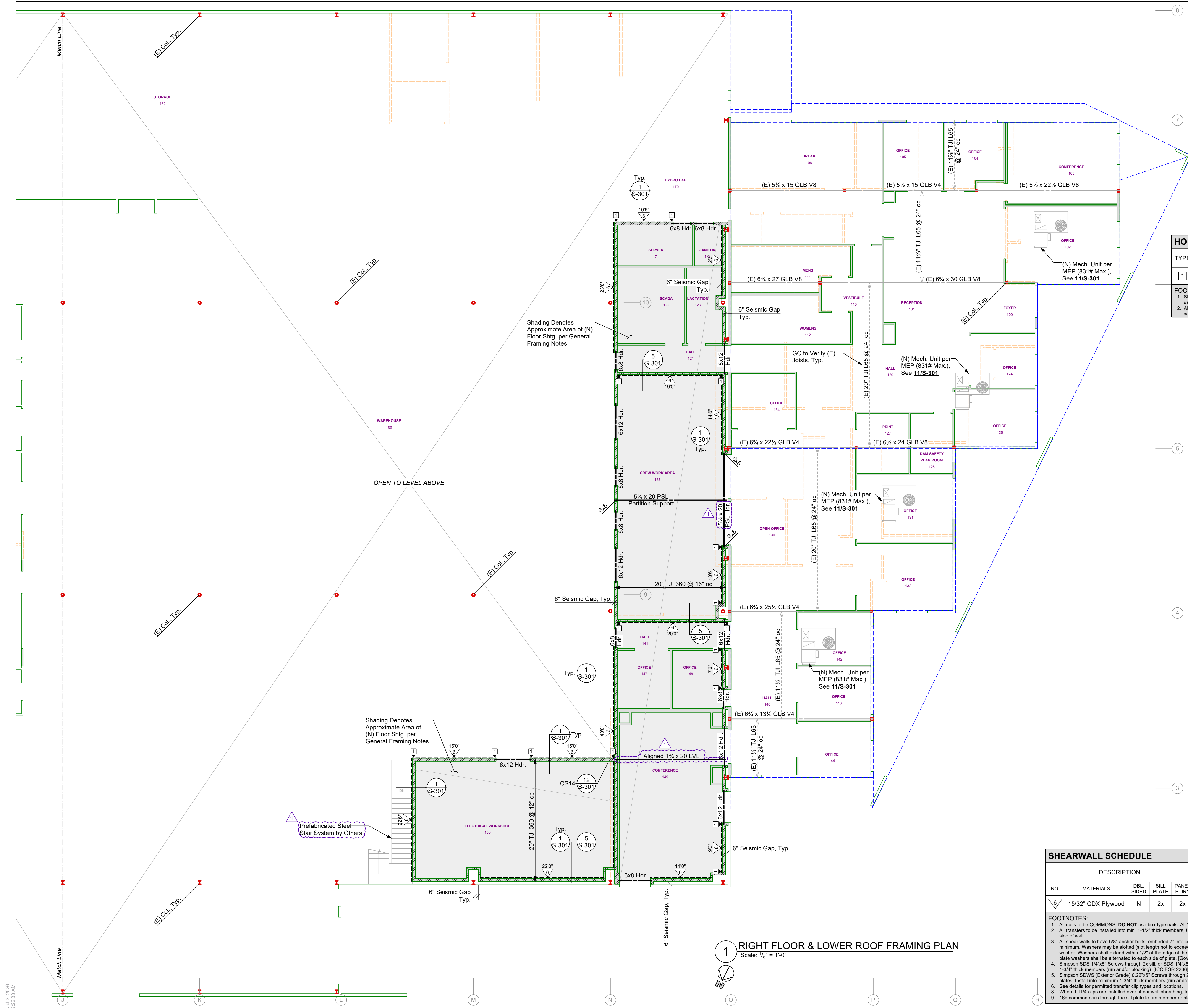
REVISION:		
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PROJECT ENGINEER:
Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com

DATE: 03/18/2026 SCALE: 1/8"=1'-0"
AV JOB: 241843 SHEET SIZE: 24"x36"

LEFT FLOOR & LOWER ROOF FRAMING PLAN

S-211



REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

HOLDOWN SCHEDULE				
TYPE	HOLDOWN ^{1,2}	MIN. POST	ANCHOR / EMBEDMENT	DETAILS
1	HDUES	(2) 2x	SABR 5/8x24 / 18" Min.	(N) Ftg: 7/S-300 (E) Ftg: 8/S-300

FOOTNOTES:
1. Shared holdowns to be installed per detail 10/S-100, Typical Shearwall Intersections, (UNO)
2. All holdowns shown shall be continued down to the foundation with the same size holdowns and post, (UNO)

TYPICAL CFS DETAILS	
Typical Detail Reference	CFS Stud at Slab
CFS Stud to Roof	2 & 3/S-301
Top Track or Ledger Splice	6/S-301

WALL SCHEDULE	
Stud wall locations per Architecturals.	
(E) Wall to be Removed	
(E) Wall to Remain	
(N) Non-Struc. Light Gage Stud Partition Wall	
Wall Thk. per Arch, 350S125-33 Studs @ 16" oc Min, Provide Bracing @ Mid-Height per Detail 9/S-301, Typ.	
(N) Struc. Wood-Framed Wall	
2x6 DF Studs @ 16" oc	

GENERAL FRAMING NOTES	
(N) Beams (per Call-out)	
(E) Beams (to Remain)	
All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO All Lumber 4x8, 6x8 and Larger to be DF #1 UNO All Beams to Bear on Plates w/ Indicated Post or Doubler Below UNO All Hangers Shall be Installed w/ Max. Nailing per Mfr. & Sized for Full Width & Depth of Supported Members, UNO Floor sheathing to be 3/4" plywood or OSB, T & G, PI 40/20, glued and nailed w/ 10d commons at 6", 6", 6", 12" Provide wall length continuous full depth solid blocking (where floor joists perpendicular) or double floor joist (where joists parallel) for all walls above. All Openings in CFS Walls Shall Have (2) 350S125-33 BTB Headers (UNO). See Detail 4/S-301 for Additional Info. (N) Floor Joists -- Per Plan in Simpson ITS or IUS Hangers (UNO) (E) Framing (to Remain) Denotes Step in Framing. Step Ht. & Extent per Arch. Waterproofing, flashing, & finish details per Architecturals. See General Notes & Specifications for additional requirements and material specifications. All dimensions per Architectural plans Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction. Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.	

SHEARWALL SCHEDULE												
DESCRIPTION						TRANSFERS ²						
NO.	MATERIALS	DBL SIDED	SILL PLATE	PANEL B'DRY	SIZE	SPC ³	5/8"x3" AB	SDS ⁴ Screw	SDWS ⁵ Screw	A35, LTP4 ^{6,8} or LTP5	RBC	16d ⁹
1	15/32" CDX Plywood	N	2x	2x	10d	6"	41"	9"	11"	13"	11"	5"

FOOTNOTES:
1. All nails to be COMMONS. DO NOT use box type nails. All "field" nailing to be 12" oc. UNO. Penetration shall be 1-1/2" Min. in framing.
2. All transfers to be installed into min. 1-1/2" thick members, UNO. Where clips are spaced less than 6" oc, stagger clips on each side of wall.
3. All shear walls to have 5/8" anchor bolts, embedded 7" into concrete foundations, with 3"x3"x0.229" thick plate washers, minimum. Washers may be slotted (slot length not to exceed 1-3/4") w/ standard cut washer placed between nut and plate washer. Washers shall extend within 1/2" of the edge of the bottom plate on the sheathed side. At walls sheathed on 2 sides, plate washers shall be alternated to each side of plate. [Governing Building Code, Section 2308.3.1] [AF&PA SDPWVS 4.3.6.4.3]
4. Simpson SDS 1/4"x2" Screws through 2x sill, or SDS 1/4"x2" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). [ICC ESR 2236]
5. Simpson SDWS (Exterior Grade) 0.22"x5" Screws through 2x sill, or SDWS (Exterior Grade) 0.22"x8" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick members (rim and/or blocking). [ICC ES AC233]
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1 RIGHT FLOOR & LOWER ROOF FRAMING PLAN
Scale: 1/8" = 1'-0"



1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181

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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:	07/06/2026	PLAN CHECK 1

PROJECT ENGINEER: Jonathan Herrera (916) 790-3181 x194 jherrera@ashleyvance.com	DATE: 03/18/2026 AV JOB: 241843	SCALE: 1/8"=1'-0" SHEET SIZE: 24"x36"
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RIGHT FLOOR &
LOWER ROOF
FRAMING PLAN

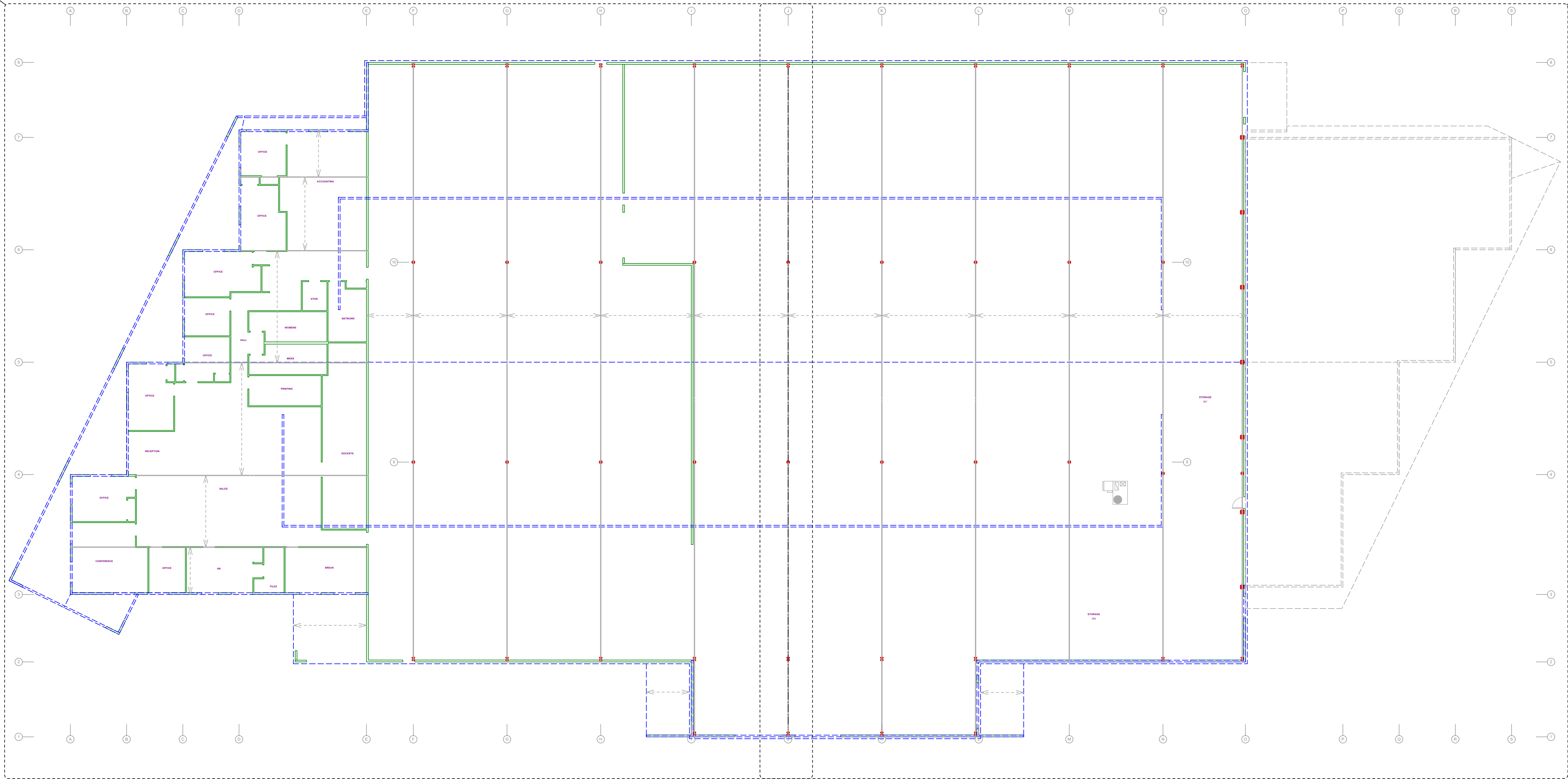
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August 28, 2026
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Roseville, CA 95661
(916) 790-3181

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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:

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PROJECT ENGINEER:
Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com

DATE: 03/18/2026

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

AV JOB: 241843

SHEET SIZE: 24"x36"

**OVERALL UPPER
ROOF FRAMING
PLAN**

S-220

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1 LEFT UPPER ROOF FRAMING PLAN
Scale: 1/8" = 1'-0"

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CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:

1	07/06/2026	PLAN CHECK 1
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PROJECT ENGINEER:
Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com

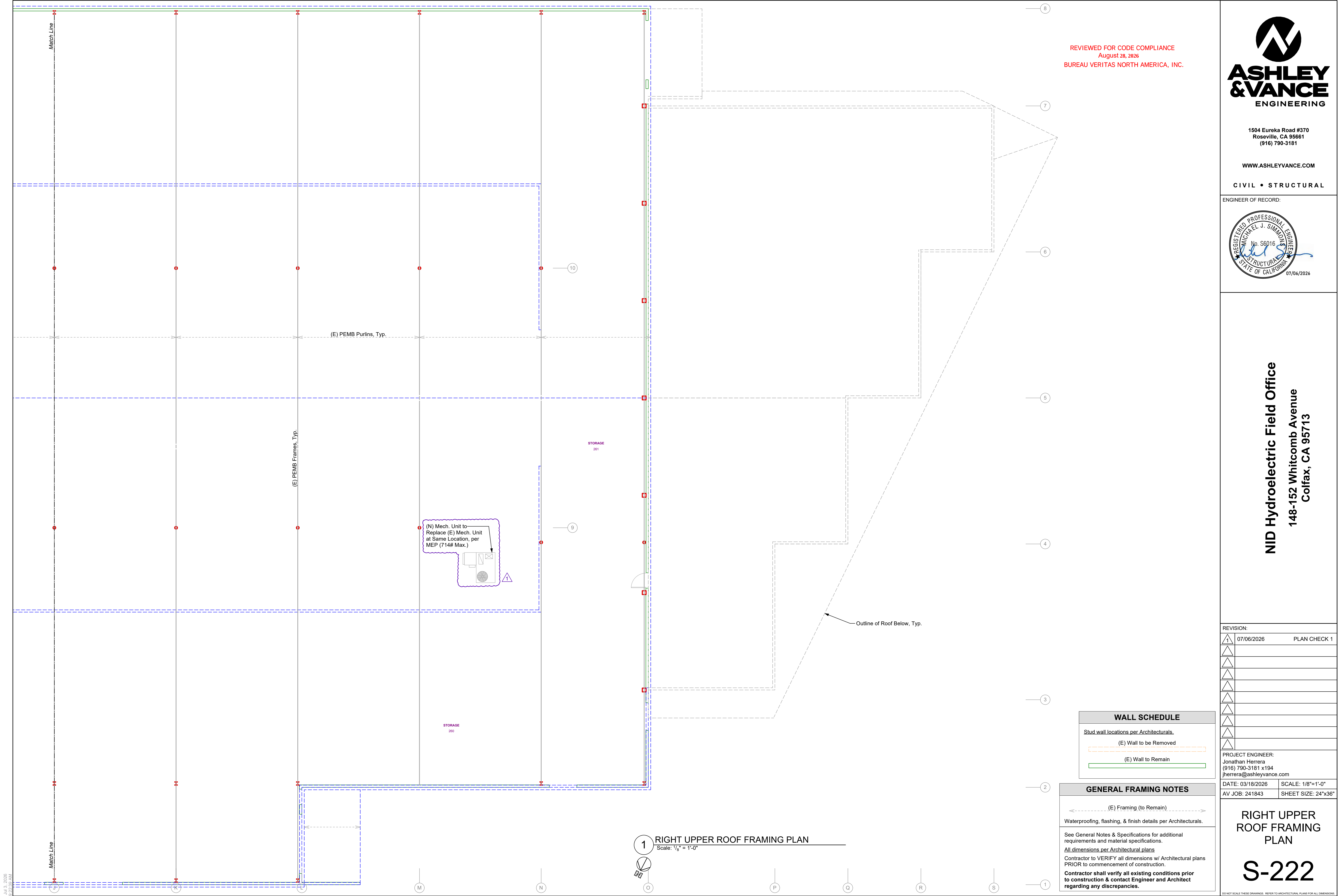
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LEFT UPPER ROOF
FRAMING PLAN

S-221

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18 NOT USED

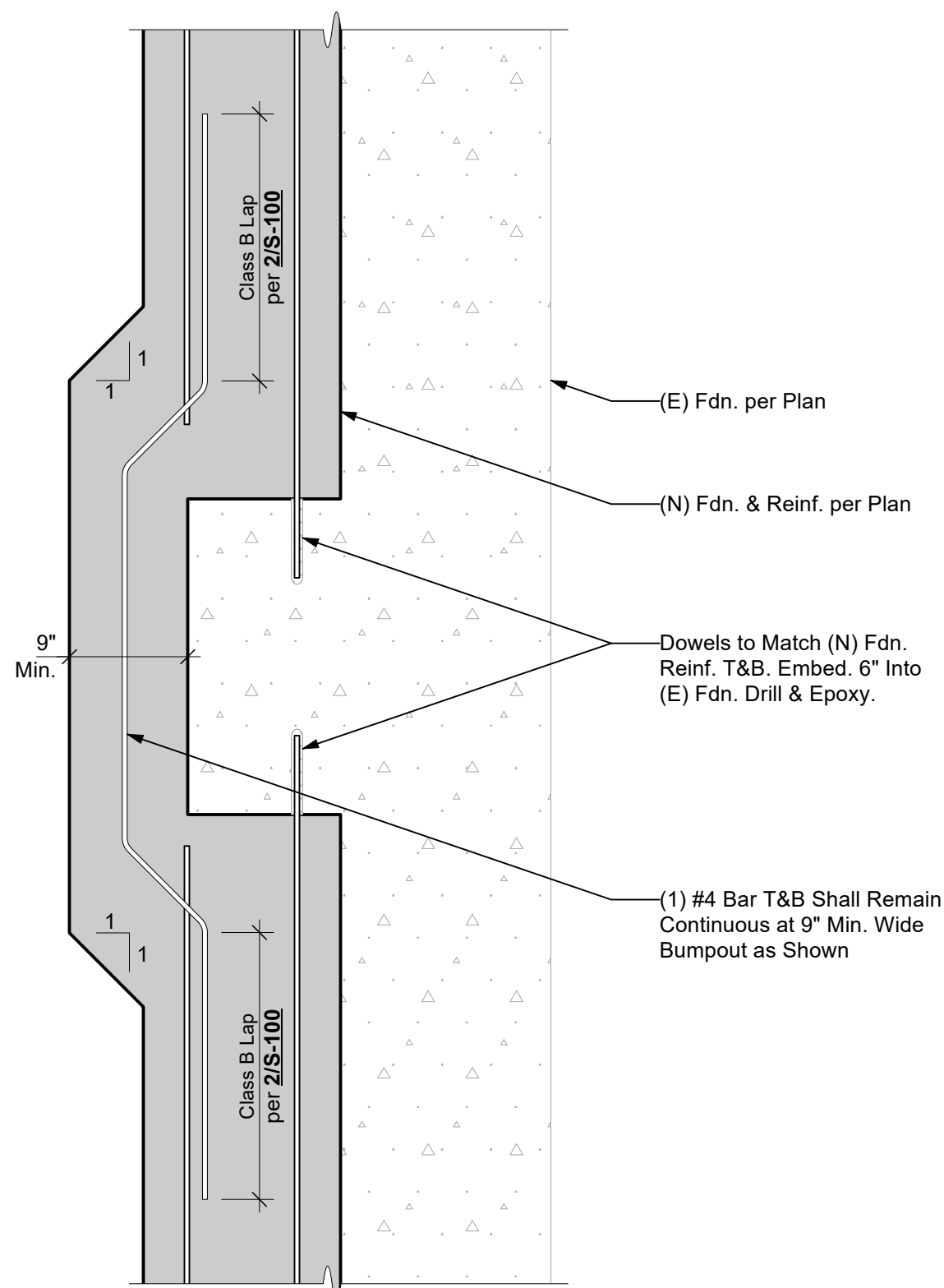
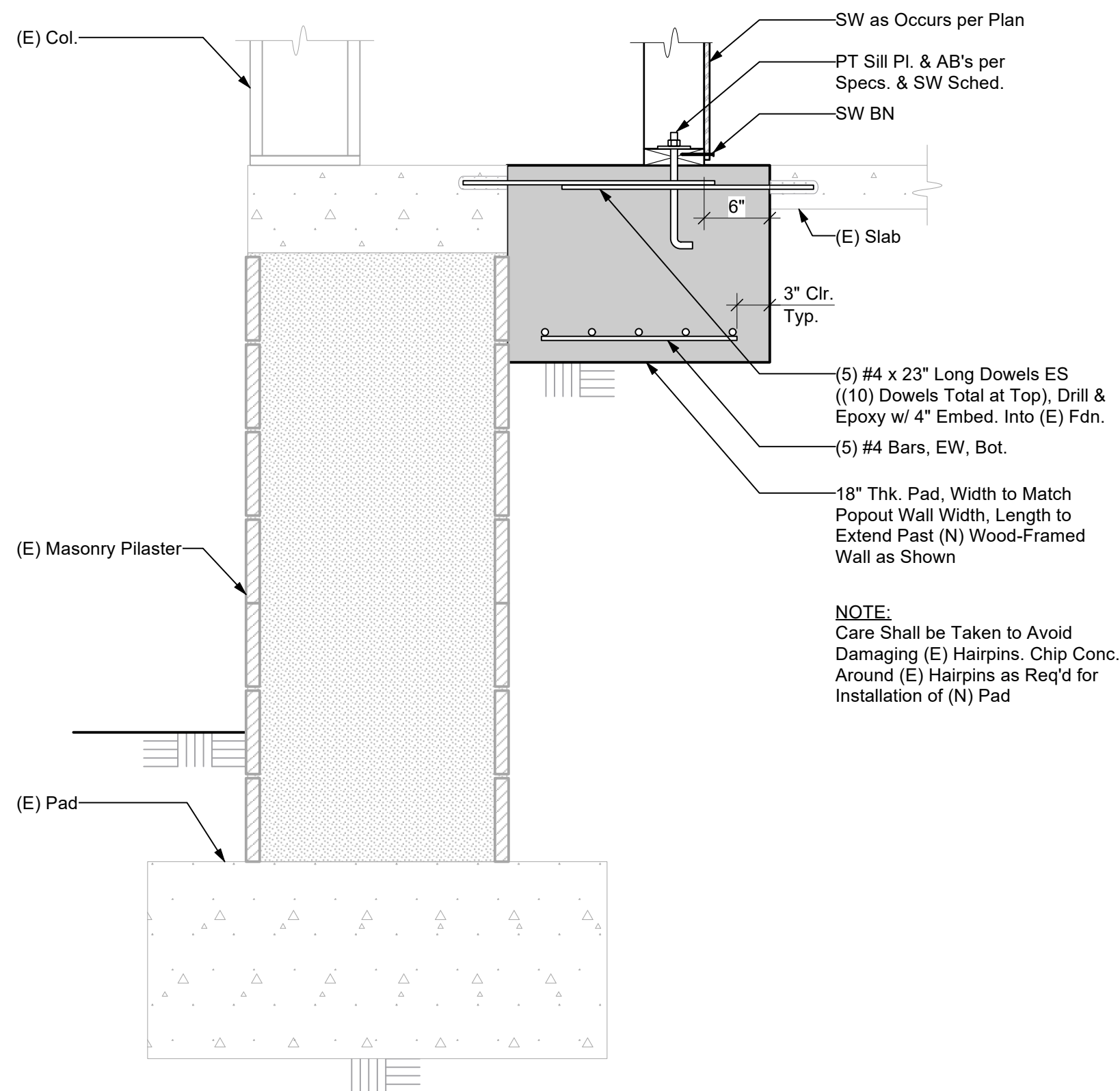
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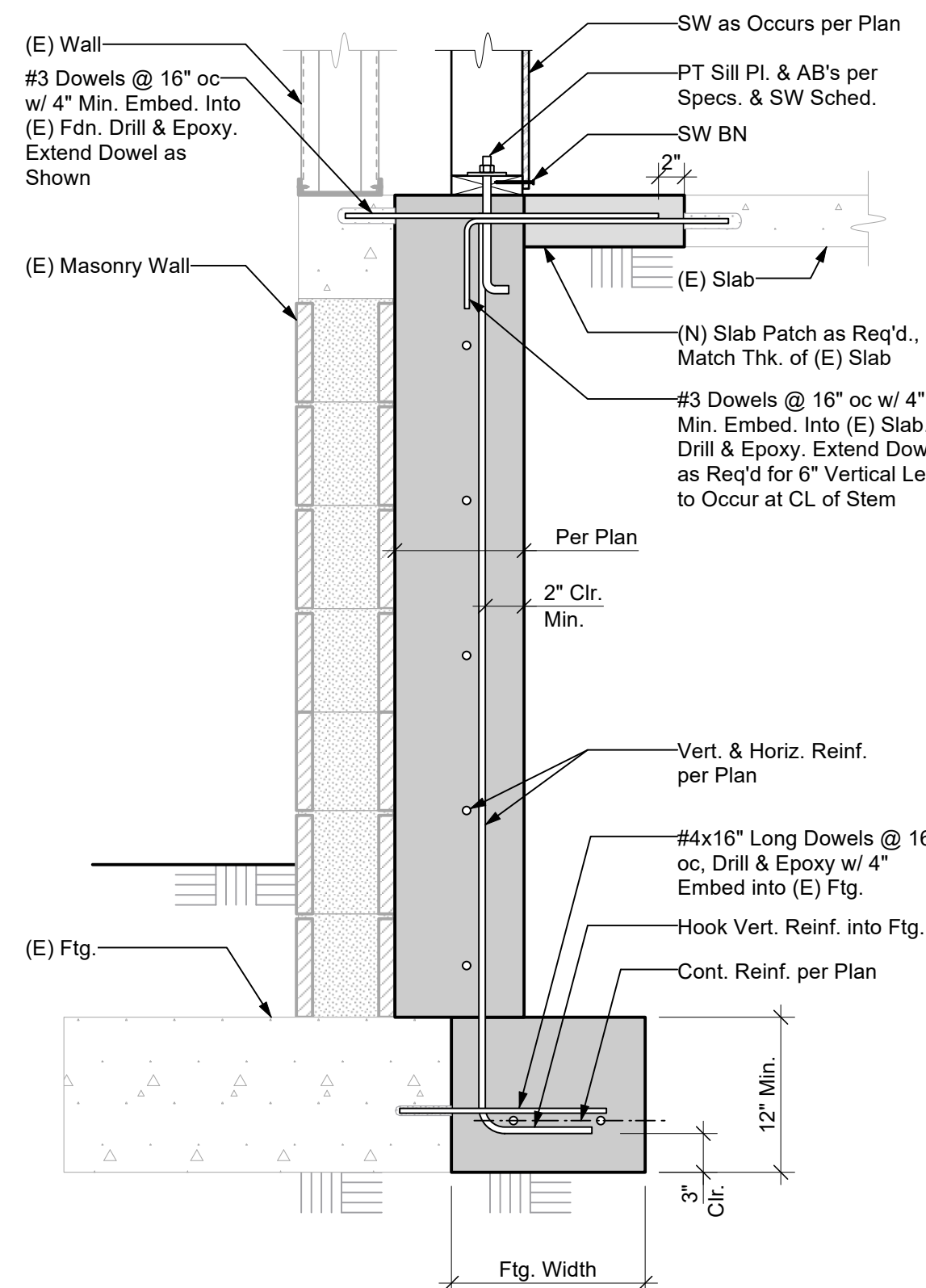
14 NEW FOOTING AT (E) COL. PILASTER

15 NOT USED

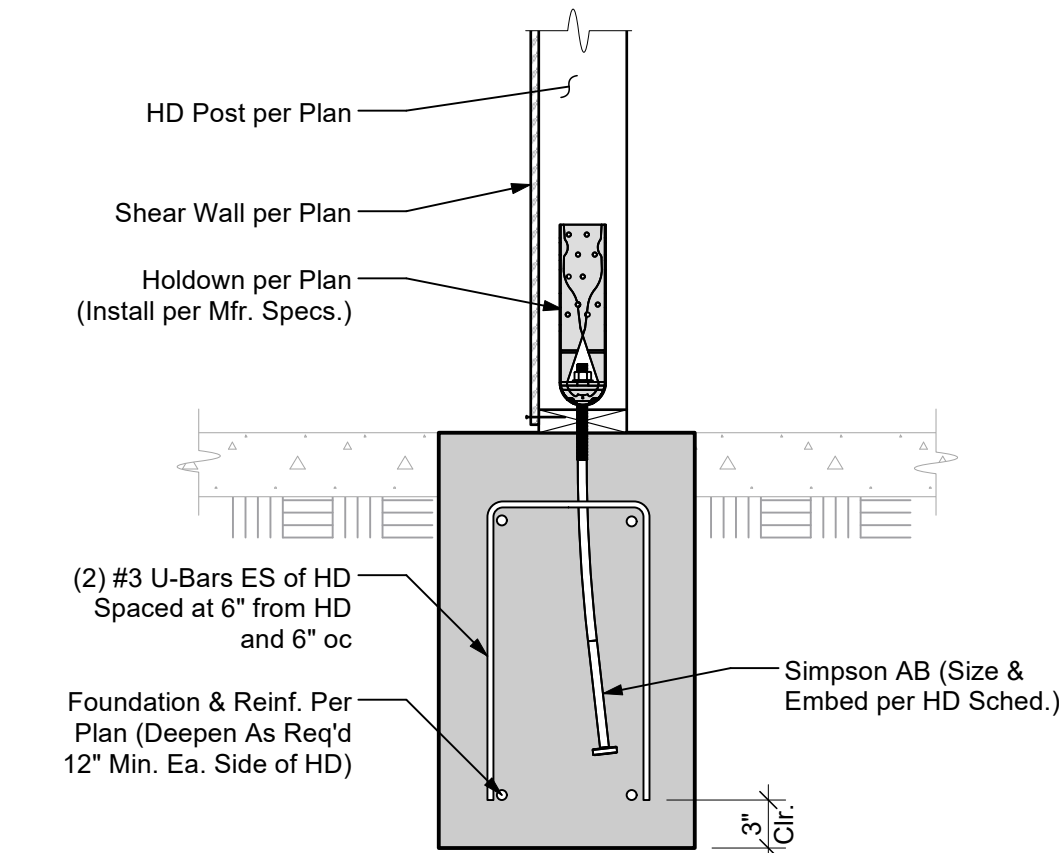
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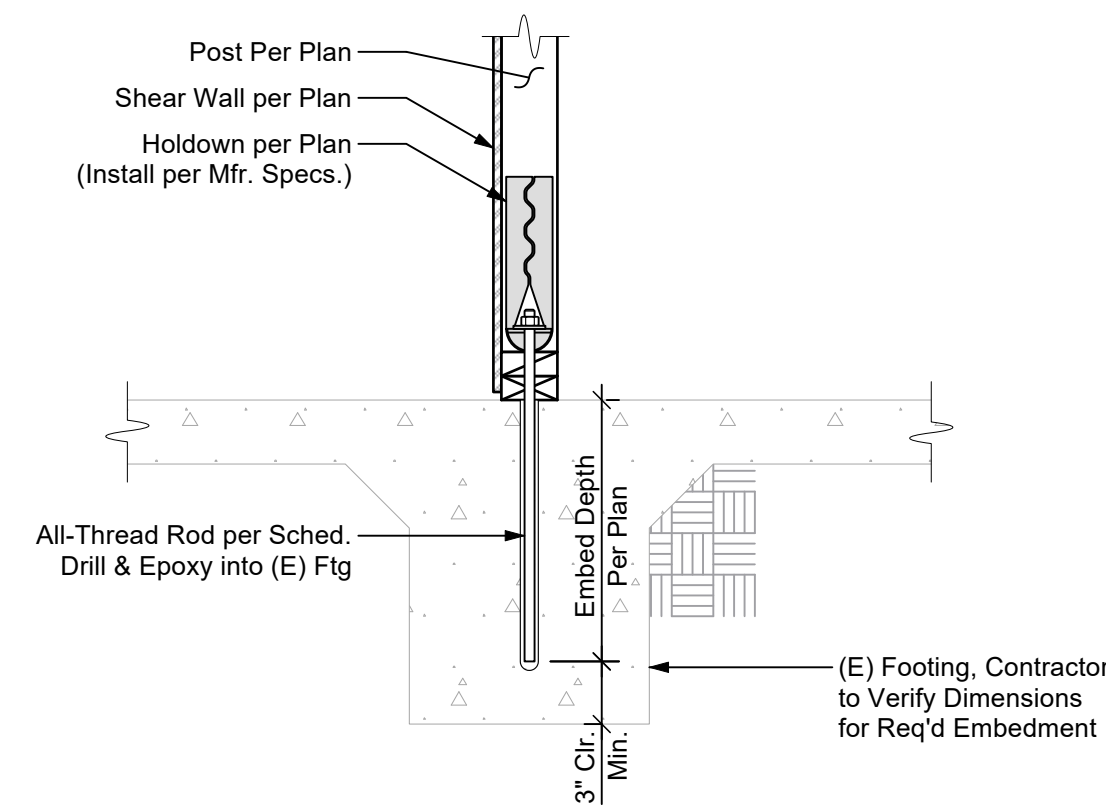
12 (N) CONT. FTG. AT (E) PAD
Plan View



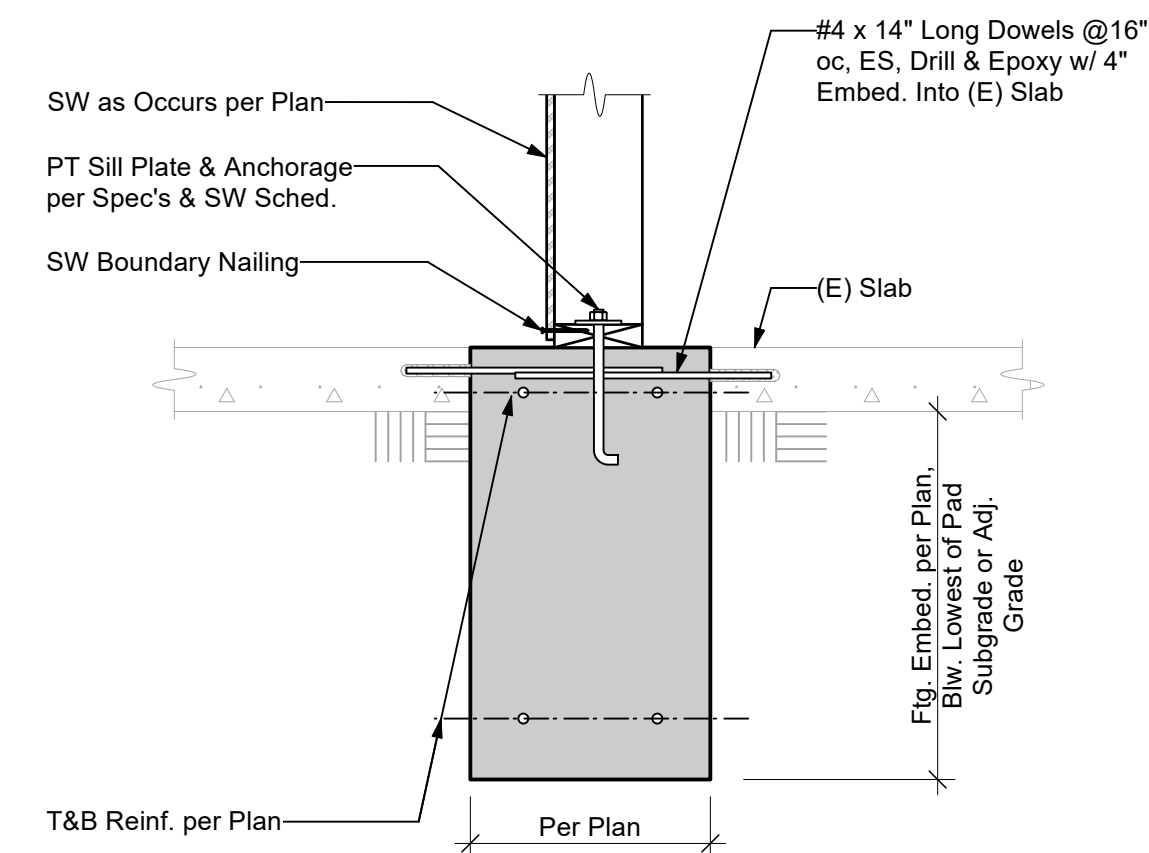
6 NEW FOOTING AT (E) DOCK WALL



7 HOLDOWN TO INTERIOR FOUNDATION

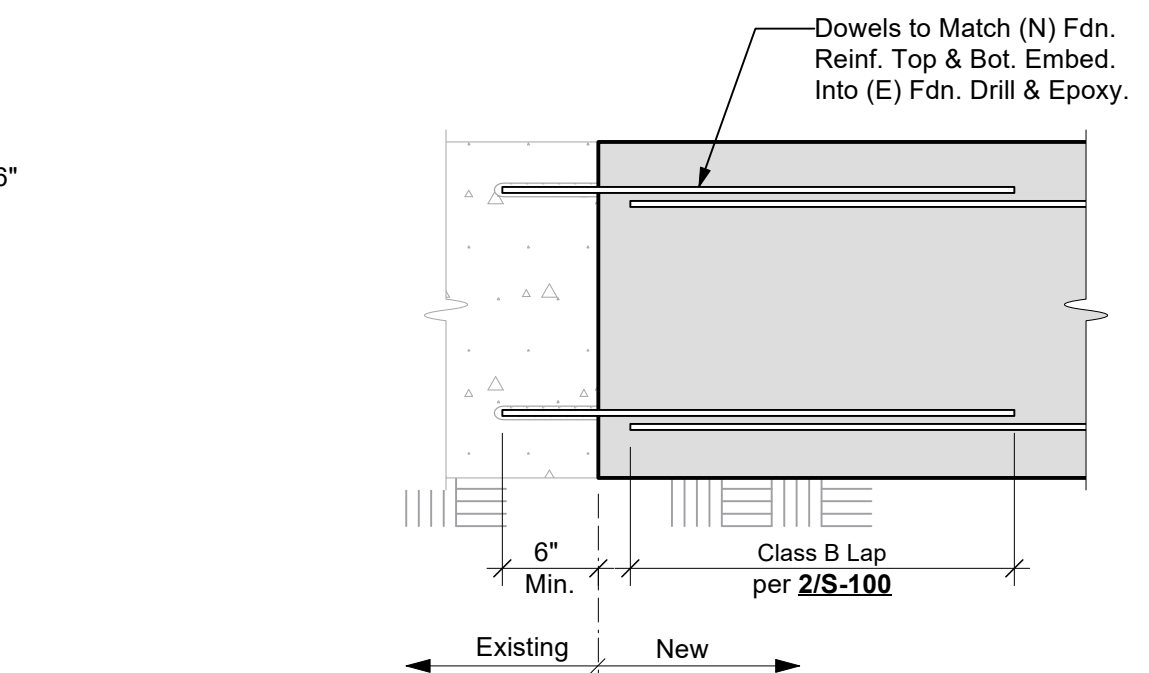


8 HOLDOWN AT EXISTING FOOTING

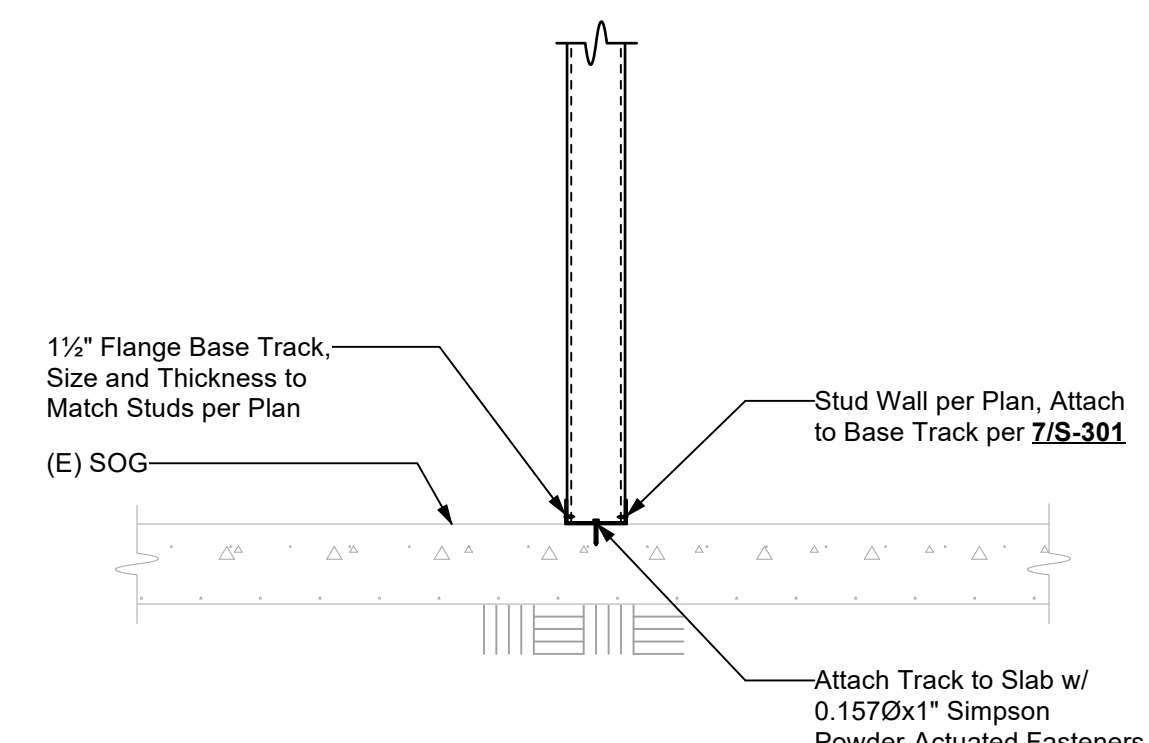


1 NEW FOOTING IN EXISTING SLAB

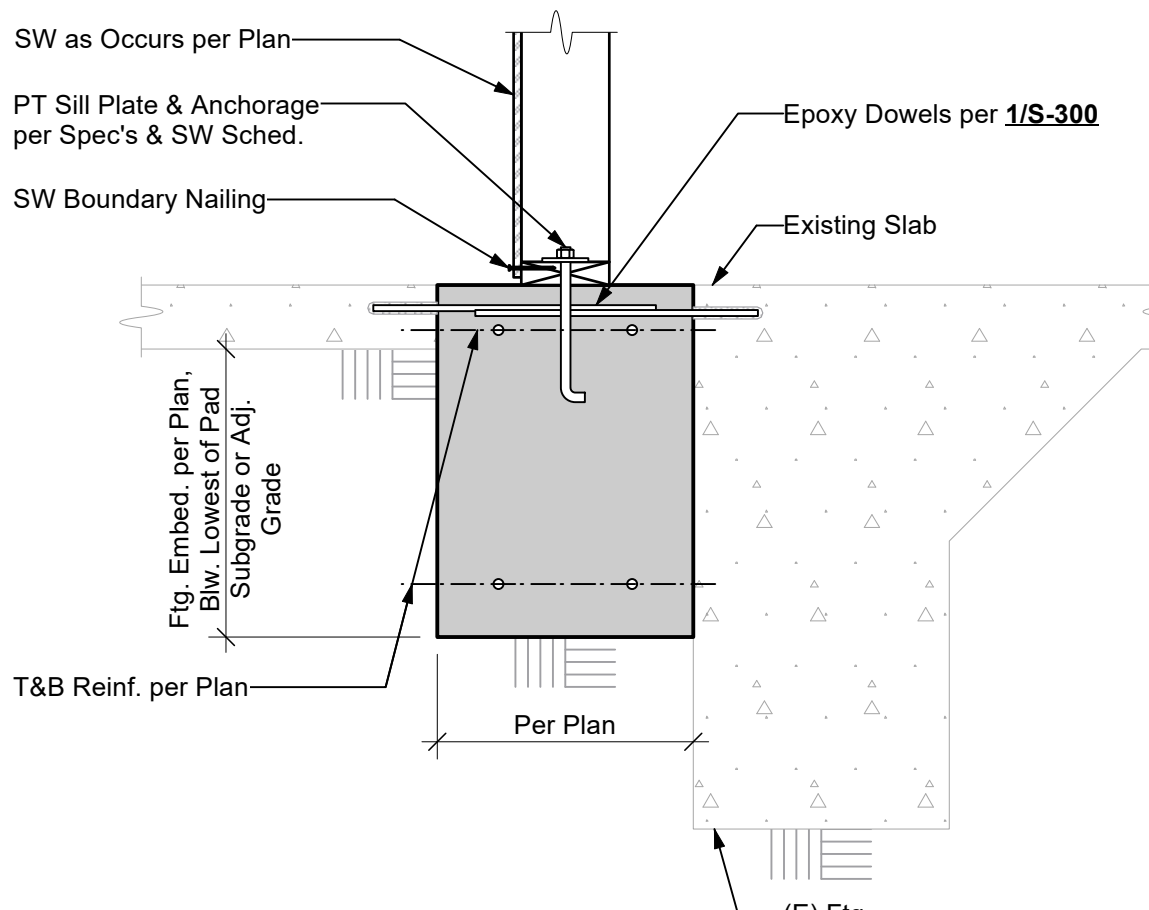
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August 28, 2026
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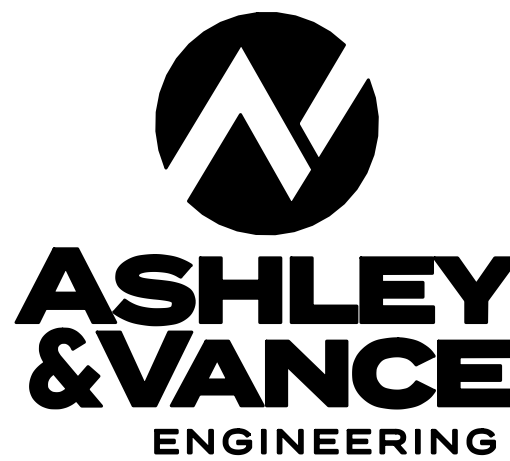
2 NEW FDN. TO EXISTING FDN.



3 TYPICAL CFS WALL AT SLAB



4 NEW FOOTING IN EXISTING SLAB



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Roseville, CA 95661
(916) 790-3181

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ENGINEER OF RECORD:



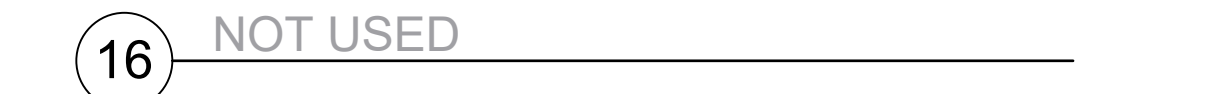
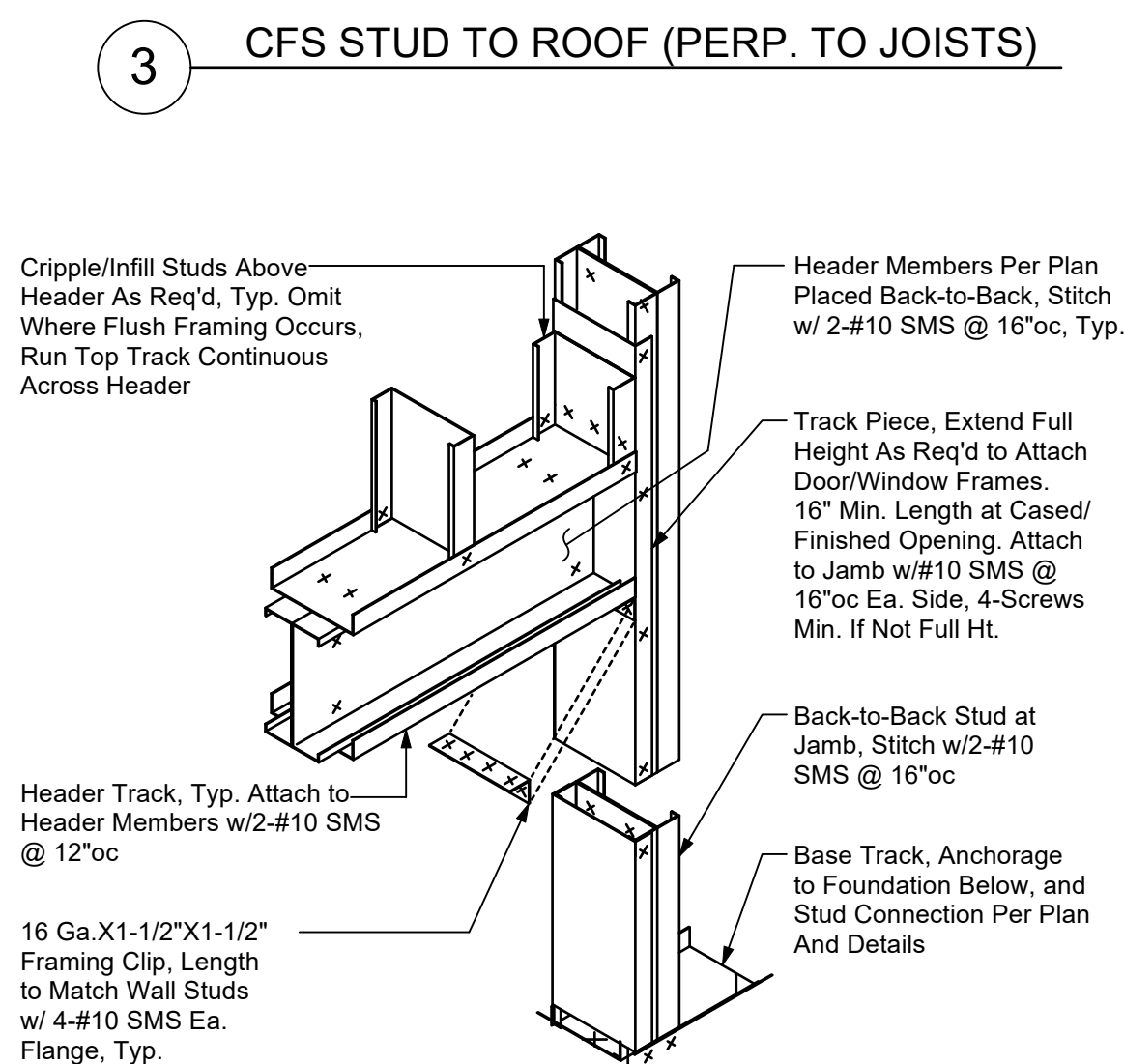
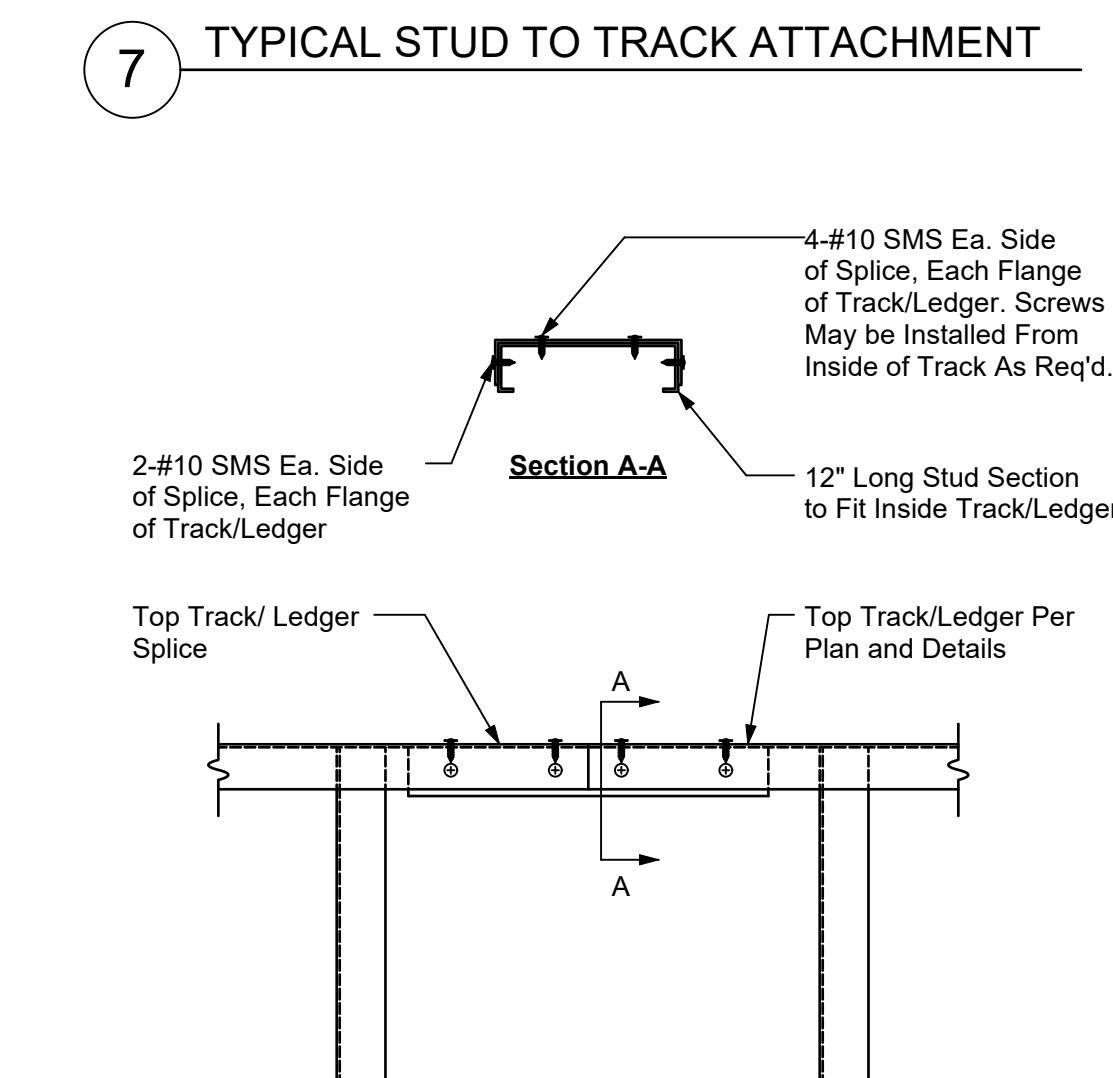
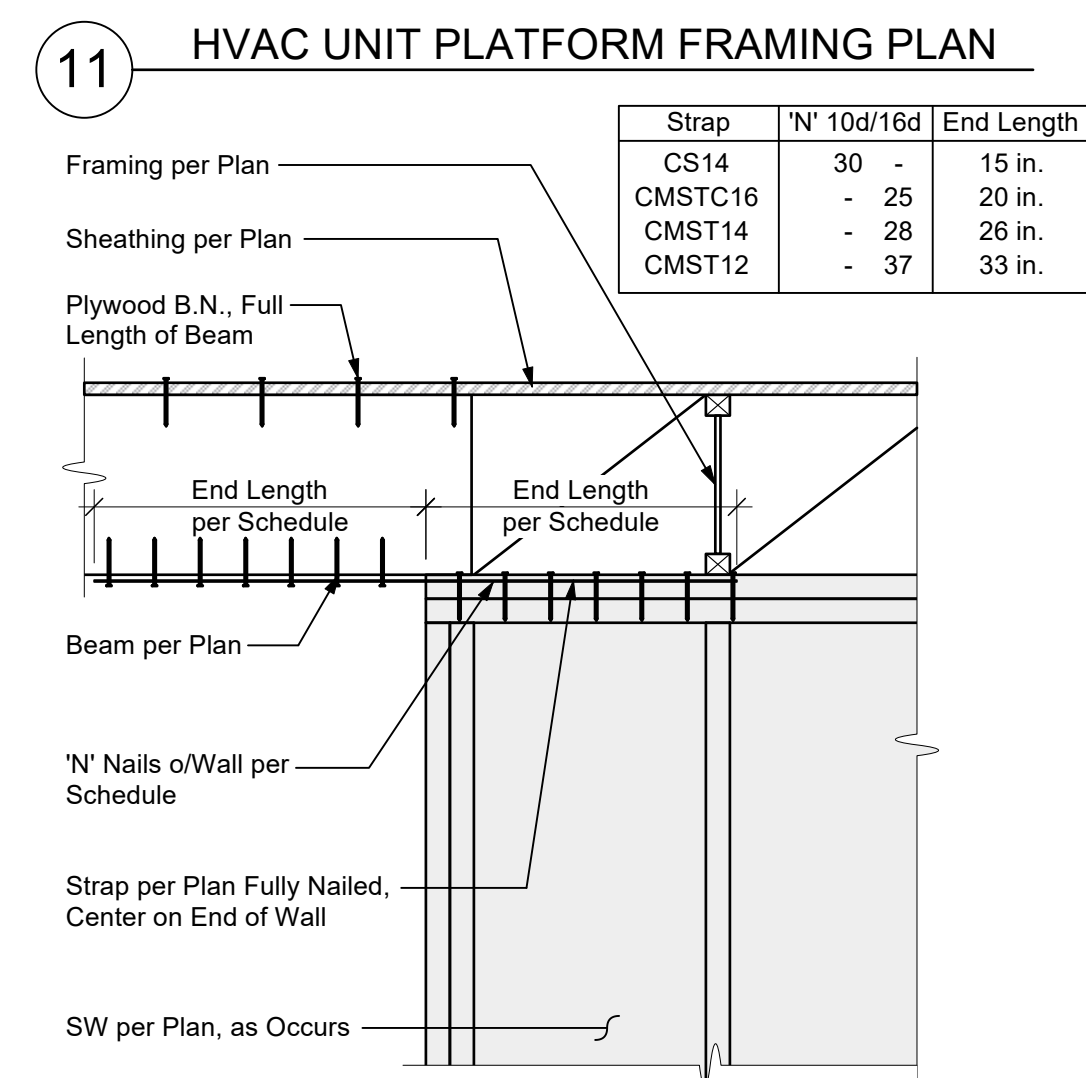
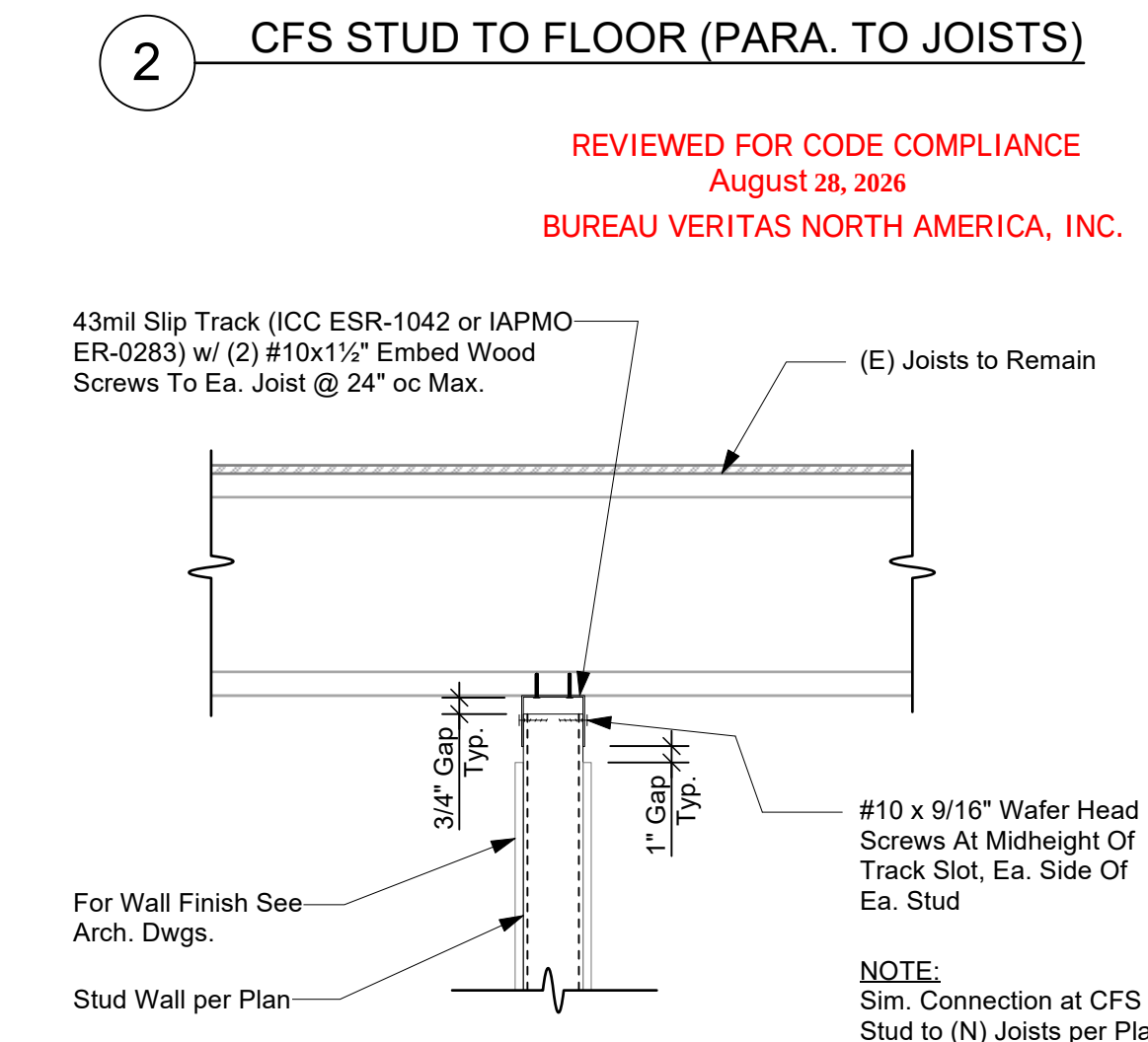
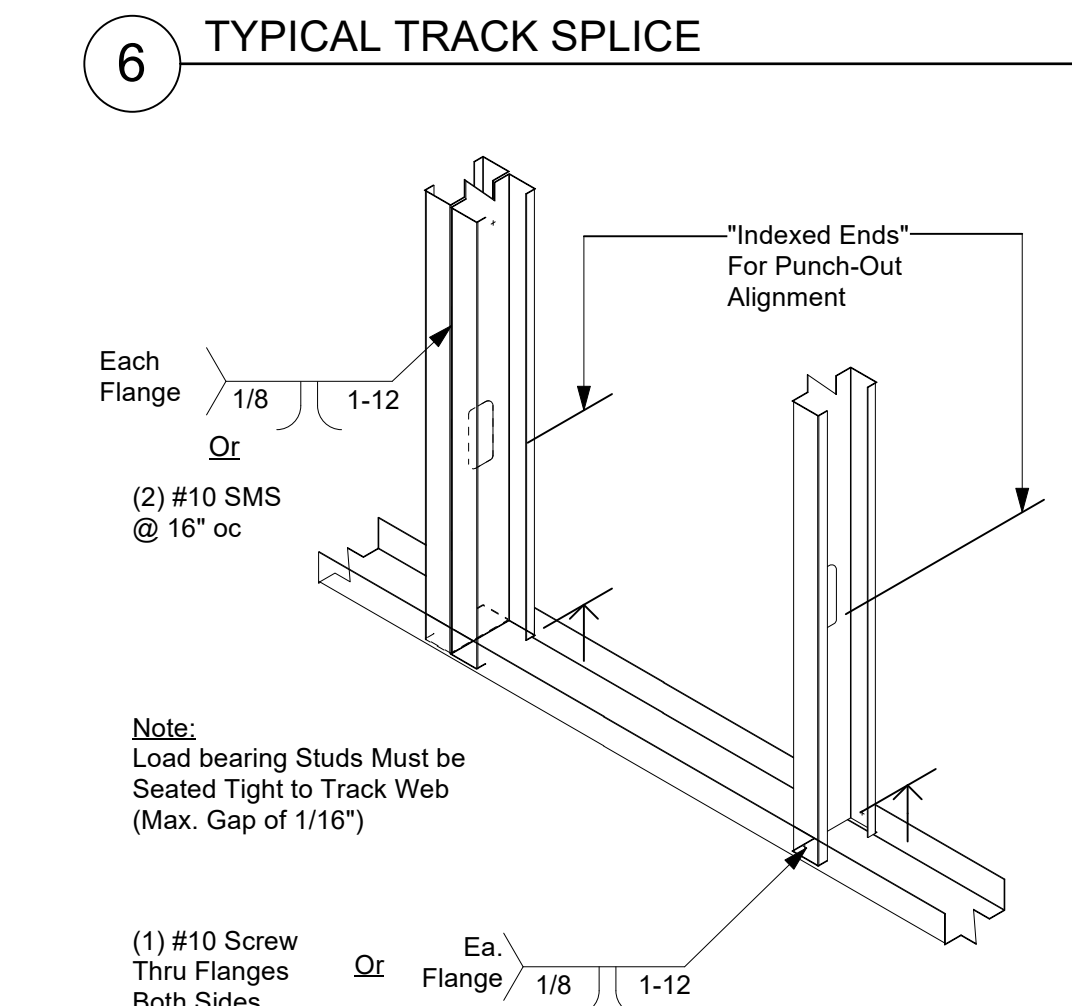
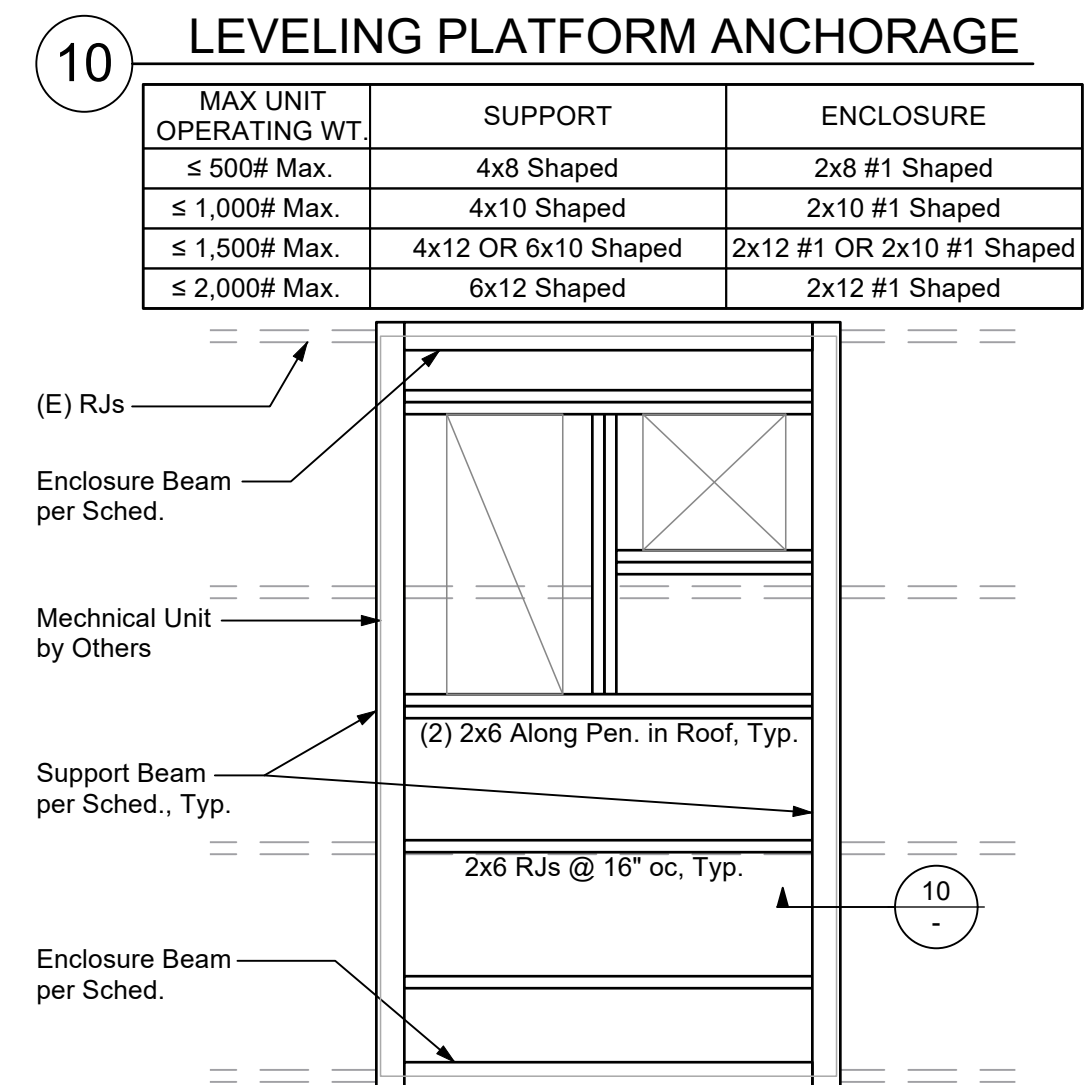
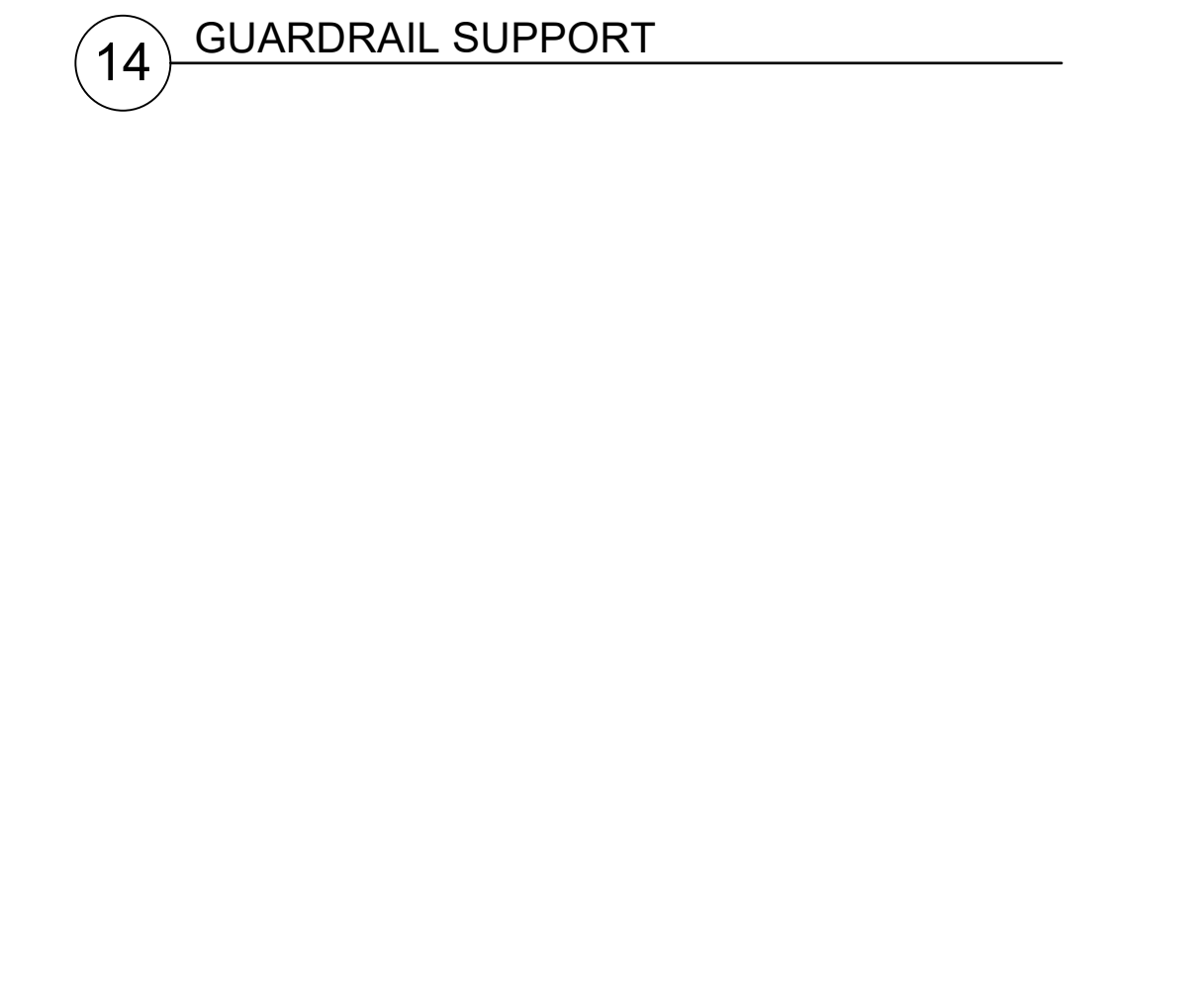
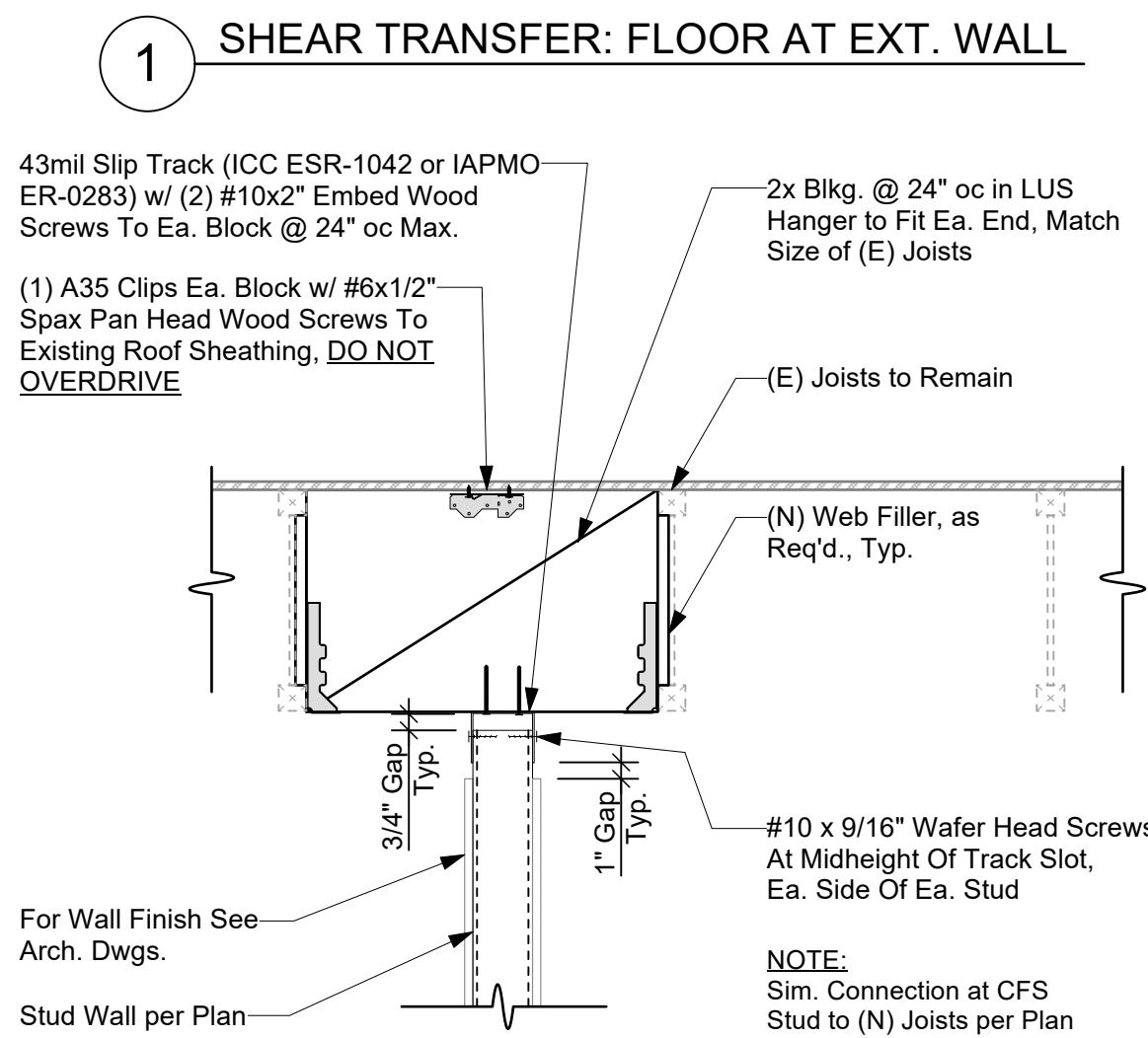
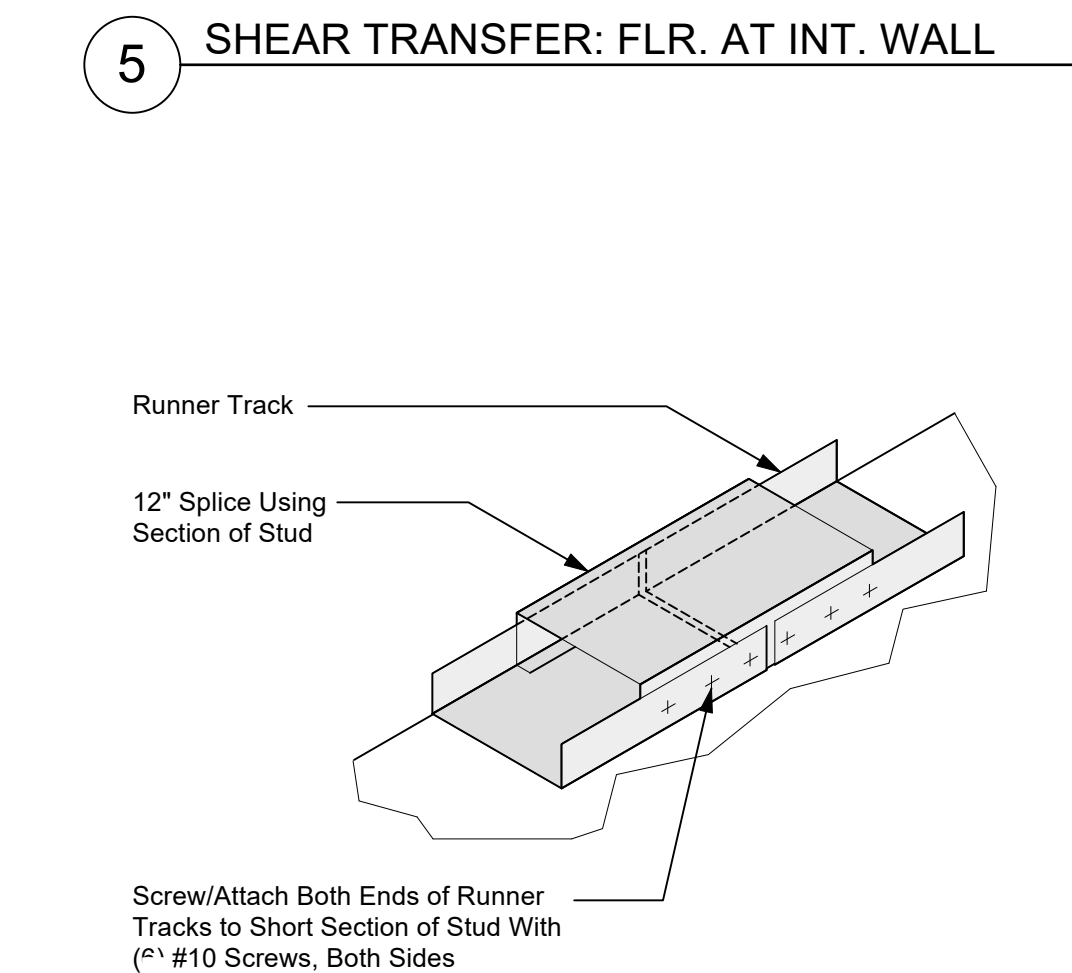
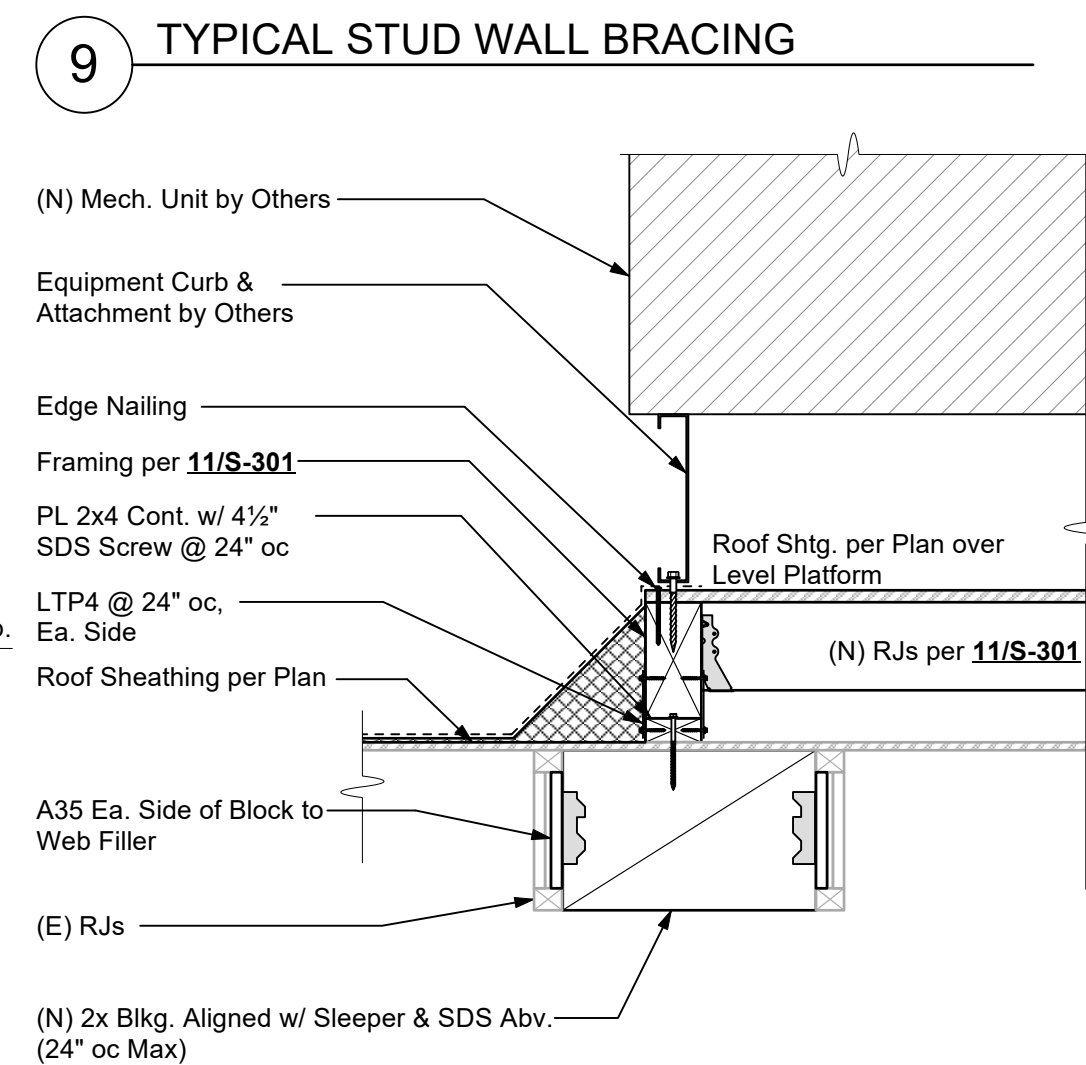
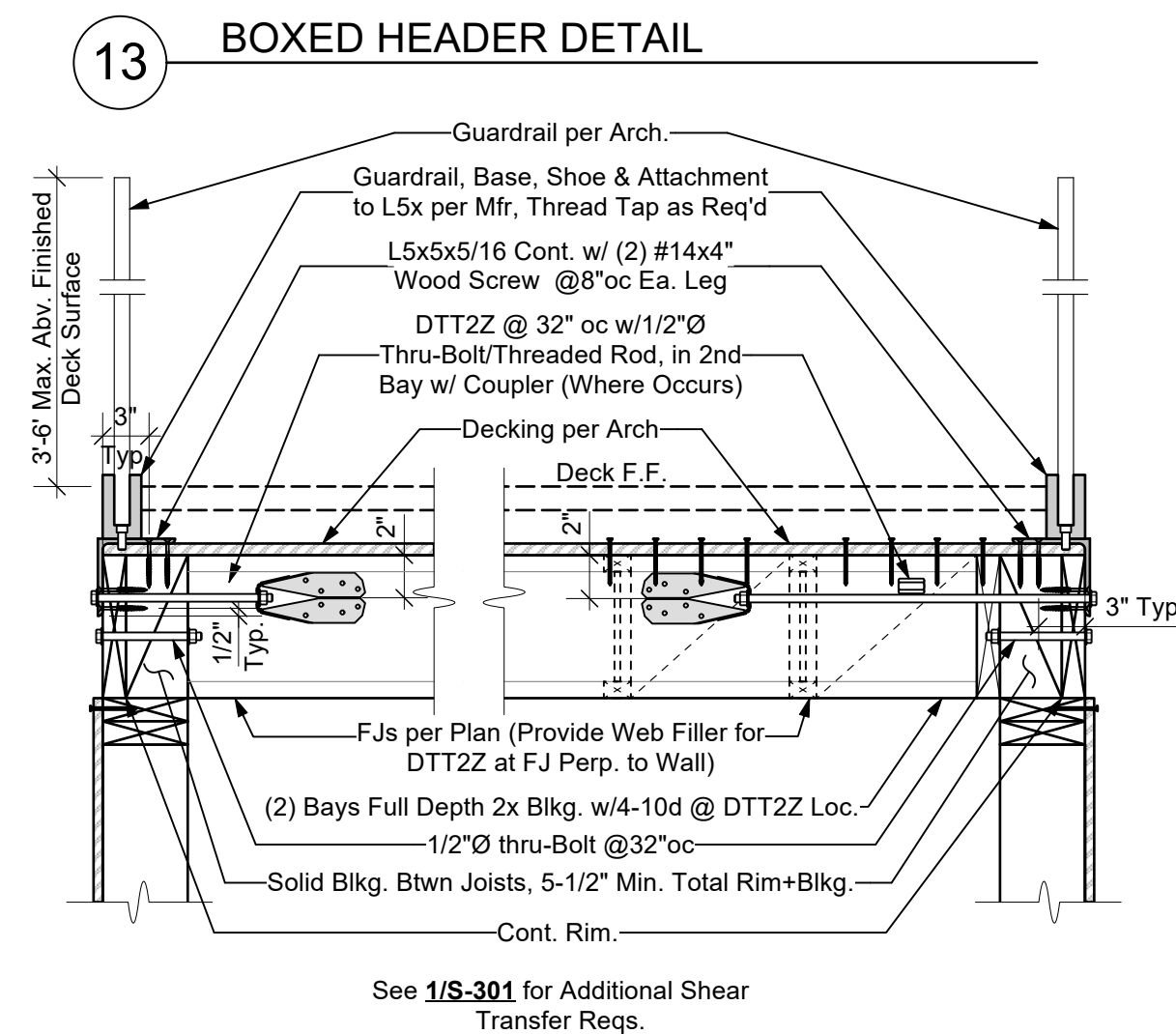
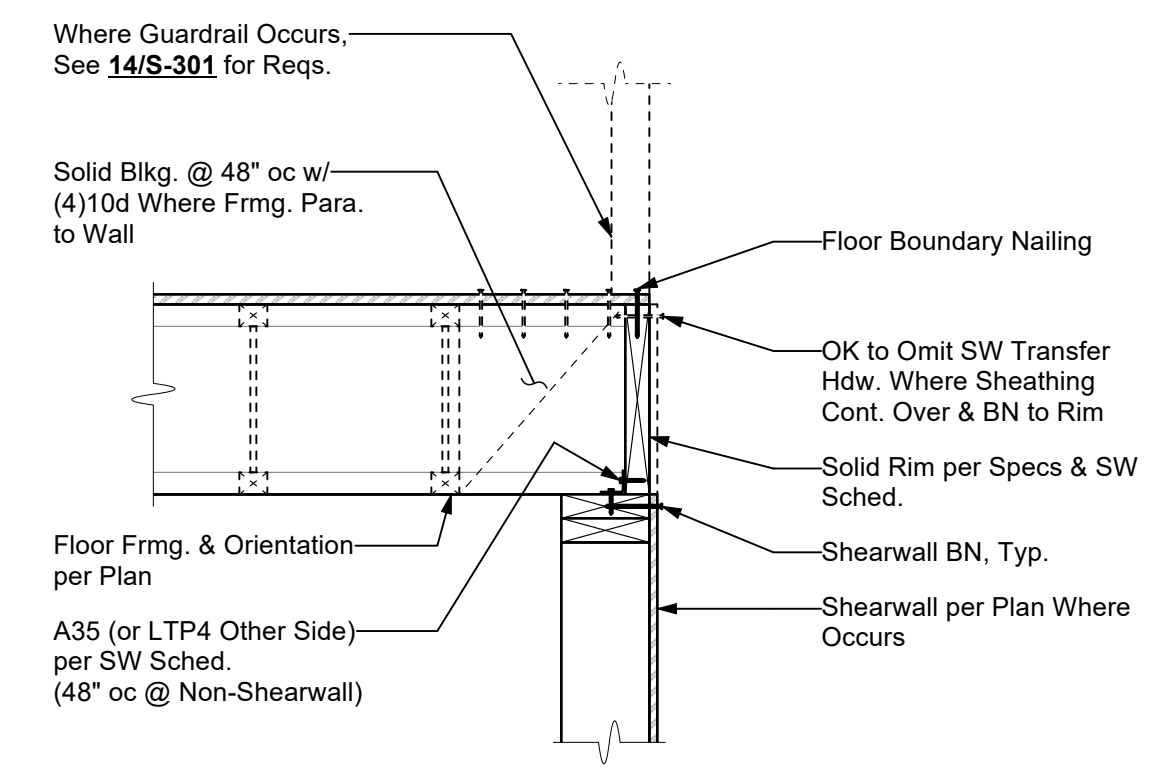
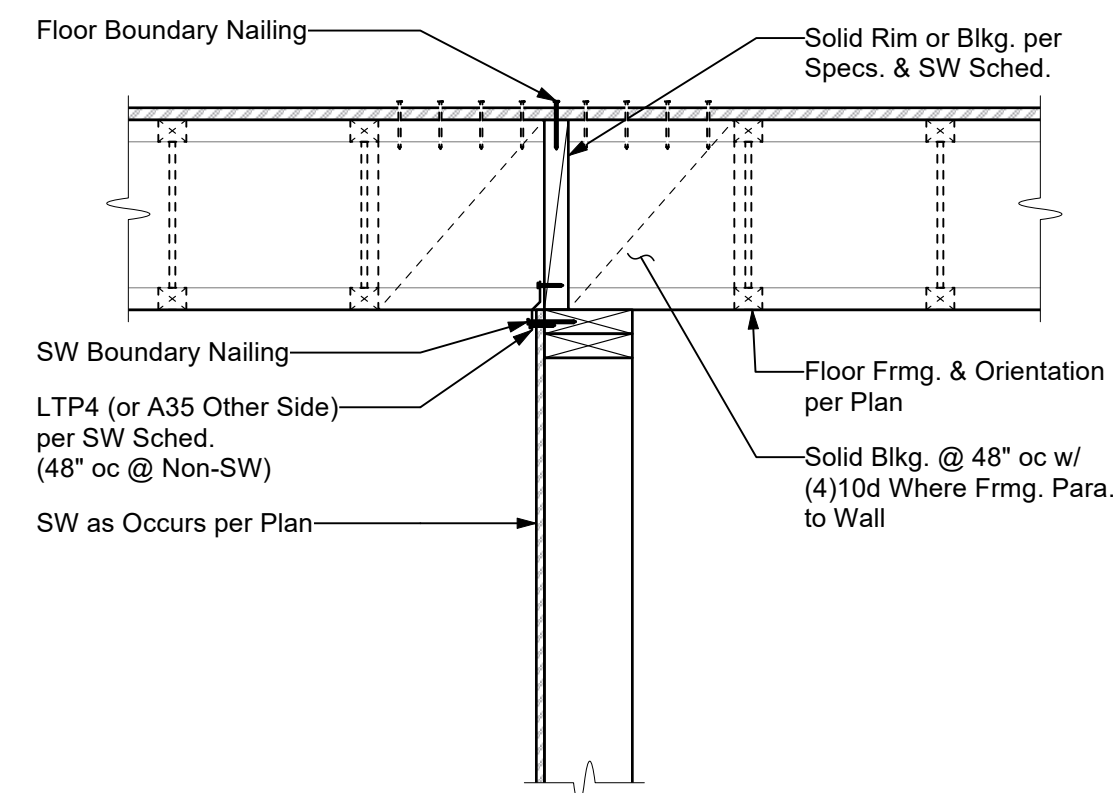
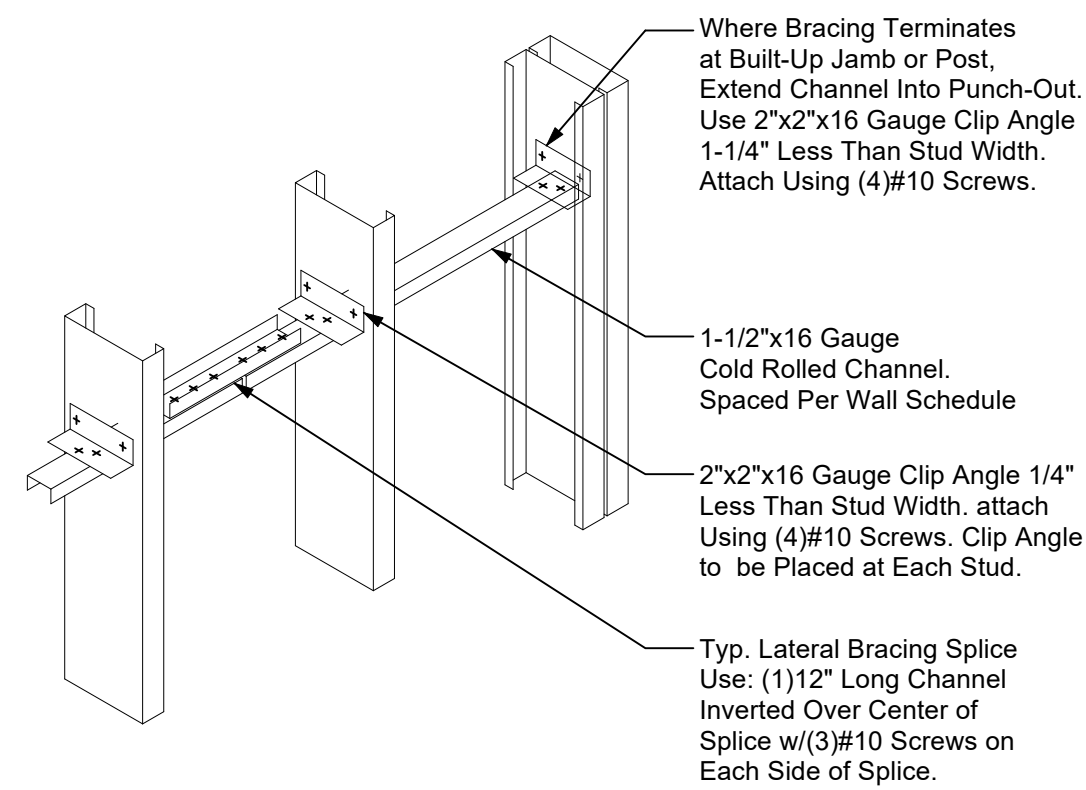
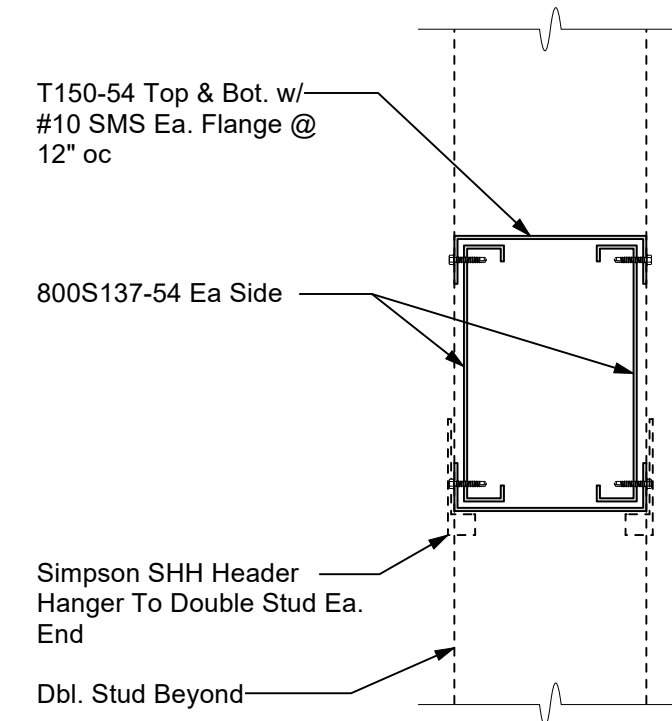
NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVISION:
07/06/2026 PLAN CHECK 1

PROJECT ENGINEER:
Jonathan Herrera
(916) 790-3181 x194
jherrera@ashleyvance.com
DATE: 03/18/2026 SCALE: NTS
AV JOB: 241843 SHEET SIZE: 24"x36"

STRUCTURAL
DETAILS

S-300



1504 Eureka Road #370
Roseville, CA 95661
(916) 790-3181

WWW.ASHLEYVANCE.COM

CIVIL • STRUCTURAL

ENGINEER OF RECORD:



NID Hydroelectric Field Office
148-152 Whitcomb Avenue
Colfax, CA 95713

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

NOTE:
Sim. Connection at CFS
Stud to (N) Joists per Pla

REVISION:

1	07/06/2026	PLAN CHECK 1
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PROJECT ENGINEER:

Jonathan Herrera
(916) 790-3181 x194
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STRUCTURAL DETAILS

S-301

Jul 3, 2028
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DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS

PLUMBING GENERAL NOTES	
1)	ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2025 CALIFORNIA BUILDING CODE (CBC), 2025 CALIFORNIA FIRE CODE (CFC), 2025 CALIFORNIA MECHANICAL CODE (CMC), 2025 CALIFORNIA PLUMBING CODE (CPC), 2025 CALIFORNIA ELECTRICAL CODE (CEC), 2025 CALIFORNIA ENERGY CODE (CENC), 2025 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
2)	CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIOS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
3)	DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
4)	IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSIDERED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
5)	DEFINITIONS: a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR. b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE. c. PROVIDE: FURNISH AND INSTALL. d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC. e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRACK SPACES, OR BURIED. f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE. g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FITTINGS, EQUIPMENT, GALLIES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE. h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
6)	CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.
7)	CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
8)	CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
9)	CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
10)	COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
11)	CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
12)	SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
13)	COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
14)	RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
15)	GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.
16)	PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
17)	ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
18)	MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
19)	INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.
20)	LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
21)	ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.
22)	START-UP: THOROUGHLY TEST AND DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.
23)	WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
24)	PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN. ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.

PLUMBING CALGREEN NOTES	
5.303.3.1	THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
5.303.3.2	THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
5.303.3.3	SINGLE SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.
5.303.3.4	NON-RESIDENTIAL LAVATORY FAUCETS SHALL HAVE A MAX FLOW RATE OF NOT MORE THAN 0.5 GPM AT 60 PSI. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GPM AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTES AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTES AT 60 PSI. METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.
5.303.5	FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, THE PROVISIONS OF SECTION 5.303.3 AND 5.303.4 SHALL APPLY TO NEW FIXTURES IN ADDITIONS OR AREAS OF ALTERATIONS TO THE BUILDING.
5.303.6	PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN CPC TABLE 1701.1 AND CALGREEN CHAPTER 6
5.410.4.5	PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.

PLUMBING FIXTURE SCHEDULE															
TAG	FIXTURE	TYPE	MOUNTING	MANU.	MODEL NO.	WATER SUPPLY			DRAIN		PIPE SIZES				REMARKS
						MANU.	MODEL NO.	MAX GPM/GPF	TYPE	SIZE	WASTE	VENT	CW	HW	
CO-1	CLEANOUT	WALL	—	ZURN	Z1446	—	—	—	—	—	SEE PLAN	—	—	—	
CO-2	CLEANOUT	FLOOR	—	ZURN	Z1400	—	—	—	—	—	SEE PLAN	—	—	—	
DF-1	DRINKING FOUNTAIN	BI LEVEL (HI/LO) W/ BOTTLE FILLER	WALL	ELKAY	LZSTLC8WSLK	—	—	—	P-TRAP	1-1/4"	1-1/2"	1-1/4"	1/2"	—	FILTERED, REFRIGERATED, ADA COMPLIANT, 115V/60HZ POWER
ET-1	EXPANSION TANK	—	—	AMTROL	EX-30	—	—	—	—	—	—	—	1/2"	—	4.4 GALLON CAPACITY
EW-1	EMERGENCY EYEWASH	—	WALL	COORDINATE MODEL AND SELECTION WITH OWNER		—	—	—	P-TRAP	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	BACKFLOW PROTECTED, ASSE STANDARD 1024, PROVIDE WITH MIXING VALVE FOR TEPID WATER. VERIFY ACCESSORIES WITH OWNER.
FD-1	FLOOR DRAIN	—	FLOOR	ZURN	Z415B	—	—	—	P-TRAP	2"	2"	1-1/2"	—	—	TRAP PRIMER CONNECTION (WHERE REQUIRED) AND NO-HUB OUTLET CONNECTION
HB-1	HOSE BIBB	—	WALL	WOODFORD	26	—	—	—	—	—	—	—	1/2"	—	BACKFLOW PROTECTED, ASSE STANDARD 1052
LAV-1	LAVATORY	METERED	WALL	AMERICAN STANDARD	0355.012	SLOAN	SF-2350	0.5	P-TRAP	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	ADA COMPLIANT, BATTERY POWERED SENSOR ACTIVATED
MS-1	MOP SINK	—	FLOOR	FIAT	MSB-2424	CHICAGO	897	—	P-TRAP	3"	2"	1-1/2"	1/2"	1/2"	FAUCET WITH ATMOSPHERIC VACUUM BREAKER
SK-1	BREAK ROOM SINK	SINGLE COMPARTMENT	UNDER COUNTER	COORDINATE MODEL SELECTION WITH OWNER		CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SK-2	WAREHOUSE SINK	SINGLE COMPARTMENT	UNDER COUNTER	COORDINATE MODEL SELECTION WITH OWNER		CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SK-3	HYDRO LAB SINK	SINGLE COMPARTMENT	WALL	COORDINATE MODEL SELECTION WITH OWNER		CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SK-4	LACTATION SINK	SINGLE COMPARTMENT	WALL	COORDINATE MODEL SELECTION WITH OWNER		CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SH-1	SHOWER	—	—	COORDINATE MODEL SELECTION WITH OWNER		COORDINATE MODEL SELECTION WITH OWNER		1.8	P-TRAP	2"	2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT
TMV-1	THERMOSTATIC MIXING VALVE	—	—	WATTS	LFMMV-M1	—	—	—	—	—	—	—	1/2"	1/2"	ASSE STANDARD 1017, 1069, AND 1070 LISTED, 0.5-12 GPM FLOW RATING
TP-1	TRAP PRIMER	—	—	PRECISION	P2-500	—	—	—	—	—	—	—	—	—	INSTALL IN ACCESSIBLE AREA AND IN ACCORDANCE WITH MANUFACTURER/LOCAL CODES
UR-1	URINAL	FLUSH VALVE	WALL	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	6063.013	0.125	INTEGRAL P-TRAP	—	2"	1-1/2"	3/4"	—	ADA COMPLIANT, SELECTRONIC BATTERY SENSOR
WC-1	WATER CLOSET	GRAVITY	FLOOR	AMERICAN STANDARD	3378AB.128	—	—	1.28	INTEGRAL P-TRAP	—	3"	2"	1/2"	—	ADA COMPLIANT, ELONGATED OPEN FRONT SEAT
NOTES: COORDINATE ALL TRIM AND ACCESSORY OPTIONS WITH OWNER EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL															

WATER HEATER SCHEDULE																
TAG	MANU.	MODEL NO.	LOCATION	SERVES	GALLONS CAPACITY			UEF (TE)	FUEL SOURCE	INPUT KW	RECOVERY GPH (GPM)	ELECTRICAL		WEIGHT LBS	MAX T-STAT SETPOINT	REMARKS
					NOMINAL	RATED	1ST HOUR					V-ø-Hz	AMPS			
WH-1	RHEEM	ELD52-TB	JANITOR 172	RESTROOM, JANITOR	50	45	63	0.92	ELECTRIC RESISTANCE	6.0	44 @60°F RISE	208-1-60	29.0	573	120°F	
WH-2	RHEEM	ELDS40-TB	LOCKERS 182	BREAK ROOM, LOCKER ROOM	40	33	46	0.92	ELECTRIC RESISTANCE	6.0	44 @60°F RISE	208-1-60	29.0	484	120°F	MOUNTED ON PLATFORM PER DETAIL 12/PS.0
WH-3	RHEEM	ELD40-TB	JANITOR 186	WAREHOUSE EYEWASH	40	36	55	0.93	ELECTRIC RESISTANCE	5.0	34 @60°F RISE	208-1-60	17.0	484	120°F	INSTALL WITH HW REDIRC PUMP, P-1

PUMP SCHEDULE											
TAG	TYPE	MANU.	MODEL NO.	LOCATION	SERVES	ELECTRICAL			WEIGHT (LBS)	REMARKS	
						V-8-Hz	WATTAGE	AMPS			
P-1	CIRCULATION	BELL & GOSSETT	ECOCIRC+20-18	JANITOR 186	WH-3	115-1-60	0 - 70	0.06 - 1.02	5.86	STAINLESS STEEL PUMP WITH ECM MOTOR, PROVIDE CA ENERGY CODE COMPLIANT AUTOMATIC SHUTOFF CONTROLS	

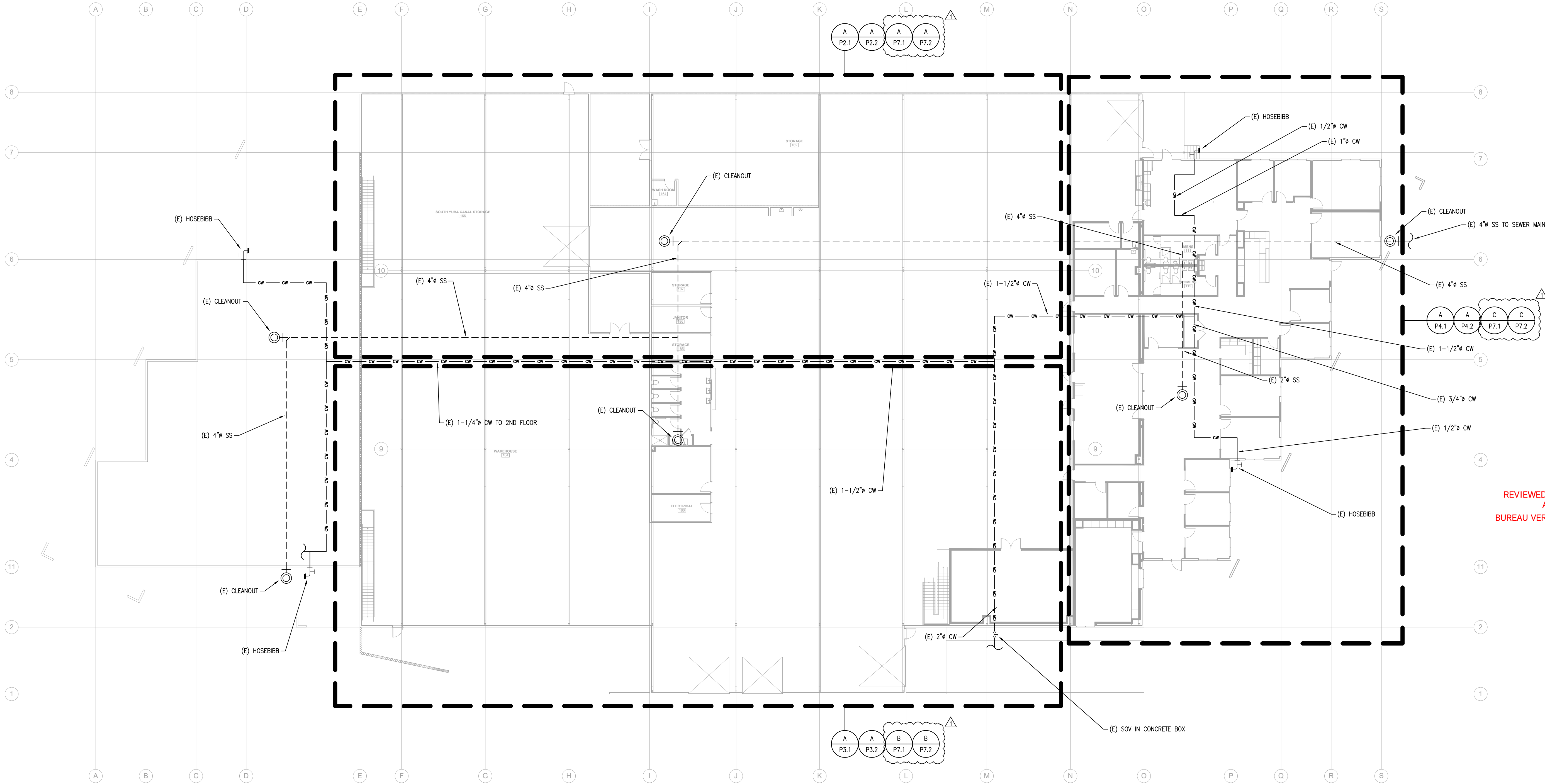
WATER AND SEWER SERVICE CALCULATION								
FIXTURE TYPE	NO.	SEWER		COLD WATER		HOT WATER		TOTAL WATER
		FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
BAR SINK	4	2	8	2	8	1.5	6	8
DRINKING FOUNTAIN	1	0.5	0.5	0.5	0.5	0	0	0.5
HOSE BIBB (ADDITIONAL)	2	0	0	1	2	0	0	2
LAVATORY	8	1	8	1	8	0.75	6	8
FLOOR DRAIN	3	2	6	0	0	0	0	0
MOP OR SERVICE SINK	3	3	9	3	9	2.25	6.75	9
SHOWER	1	2	2	2	2	1.5	1.5	2
URINAL	1	2	2	-	20	0	0	20
WATER CLOSET - GRAVITY	8	4	32	2.5	20	0	0	20
EMERGENCY EYEWASH	1	0	0	3	3	3	3	3
EXISTING DEMAND	1	39.5	39.5	34	34	11.25	11.25	35.5
TOTAL FU			107.0		106.5		34.5	108.0
PRESSURE AVAILABLE AFTER HEAD LOSS (PSI):					46-60			
METER SIZE (INCHES):					1.5			
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):					500			
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):					2			
MINIMUM REQUIRED 'SEWER' PIPE SIZE (INCHES):					4			
		NOMINAL DIAMETER (INCHES)			MAXIMUM FIXTURE UNITS ALLOWED			
		0.5			1			
		0.75			5			
		1			15			
		1.25			29			
		1.5			52			
		2			150			
		(CALCULATIONS PER CPC 610)						

PLUMBING SCOPE OF WORK	
1)	DEMOLITION OF EXISTING FIXTURES. INSTALLATION OF ALL COLD AND HOT WATER PIPING AND FITTINGS FOR NEW AND REPLACED FIXTURES
2)	INSTALLATION OF ALL SEWER AND VENT PIPING AND FITTINGS FOR NEW FIXTURES

PIPE INSULATION SCHEDULE				
TYPE	DIAMETER SIZE (INCHES)	FLUID TEMP RANGE (°F)	INSULATION CONDUCTIVITY (BTU*INCH/HR*FT²*F)	INSULATION THICKNESS (INCHES)
DOMESTIC HOT WATER	<1	105-140	0.22-0.28	1
DOMESTIC HOT WATER	1 OR LARGER	105-140	0.22-0.28	1-1/2

PIPE MATERIAL SCHEDULE				
APPLICATION	LOCATION	SIZE	MATERIAL	JOINING METHOD
SANITARY WASTE/VENT	BELOW GRADE	ALL	SCHEDULE 40 ABS	SOLVENT
	ABOVE GRADE	ALL	SCHEDULE 40 ABS	SOLVENT
T&P RELIEF	ALL	ALL	COPPER (TYPE M)	95/5 SOLDER
CONDENSATE	ALL	ALL	SCHEDULE 40 PVC	SOLVENT WITH DWM FITTINGS
DOMESTIC WATER IN OR WITHIN 5' OF BUILDING	BELOW GRADE	ALL	COPPER (TYPE K) W/CORROSION-RESISTANT TAPE	LEAD FREE BRAZED
	ABOVE GRADE	ALL	COPPER (TYPE L OR K)	95/5 SOLDER
NOTES: ALL PIPING MATERIAL AND JOINING METHODS CONTINGENT ON AUTHORITY HAVING JURISDICTION APPROVAL ALL ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER-BASED LATEX PAINT				

WATER HEATER DEMAND SIZING CALCULATIONS											
TAG	WH-1	Cold Water				Hot water		Fixture	Hot Water	minutes on in	Hot Water
FIXTURE TYPE	Qty.	FU each	TOTAL	FU each	TOTAL	GPM	GPM	hour period	GPH		
BAR SINK	3	1.500	4.50	1.500	4.500	1.5	2.70	6	16.2		
LAVATORY	4	0.750	3.00	0.750	3.000	0.5	1.20	10	12		
MOP OR SERVICE SINK	1	2.250	2.25	2.250	2.250	1.8	1.08	10	10.8		
TOTAL	8	9.8				5.0		DEMAND GPH	39		
	Method	Pipe Size To/From Water Heater				DESIGN GPH				44	
	610	CW	1.0	HW	1.0						
TAG	WH-2	Cold Water		Hot water		Fixture	Hot Water	minutes on in	Hot Water		
FIXTURE TYPE	Qty.	FU each	TOTAL	FU each	TOTAL	GPM	GPM	hour period	GPH		
LAVATORY	4	0.750	3.00	0.750	3.000	0.5	1.20	10	12		
MOP OR SERVICE SINK	1	2.250	2.25	2.250	2.250	1.8	1.08	10	10.8		
SHOWER	1	1.500	1.50	1.500	1.500	1.8	1.08	15	16.2		
TOTAL	6	6.8		6.8		3.4		DEMAND GPH	39		
	Method	Pipe Size To/From Water Heater				DESIGN GPH				44	
	610	CW	1.0	HW	1.0						
TAG	WH-3	Cold Water		Hot water		Fixture	Hot Water	minutes on in	Hot Water		
FIXTURE TYPE	Qty.	FU each	TOTAL	FU each	TOTAL	GPM	GPM	hour period	GPH		
WAREHOUSE SINK	1	1.500	1.50	1.500	1.500	1.5	0.90	10	9		
MOP OR SERVICE SINK	1	2.250	2.25	2.250	2.250	1.8	1.08	10	10.8		
EMERGENCY EYEWASH/SHOWER	1	3.0	3.0	3.0	3.0	2	0.30	15	4.5		
TOTAL	2	6.8		6.8		2.3		DEMAND GPH	24.3		
	Method	Pipe Size To/From Water Heater				DESIGN GPH				34	
	610	CW	1.0	HW	1.0						



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
 - CONTRACTOR SHALL VERIFY THE EXISTENCE OF A BACKFLOW PREVENTION DEVICE AND PERFORM BACKFLOW TESTING. IF REQUIRED BY THE LOCAL JURISDICTION, DEVICE SHALL BE A REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER. IF DEVICE CANNOT BE FOUND, FURNISH/INSTALL AS NEEDED
 - ENSURE CLEANOOUT TO GRADE EXISTS
 - ENSURE 1/4" PER FOOT SLOPE FOR SANITARY SEWER PIPING



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

A PLUMBING PLAN - OVERALL - 1ST FLOOR
SCALE: 1/16"=1'-0"



ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

PLUMBING PLAN
OVERALL
1ST FLOOR

SHEET NO.

P1.1

SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

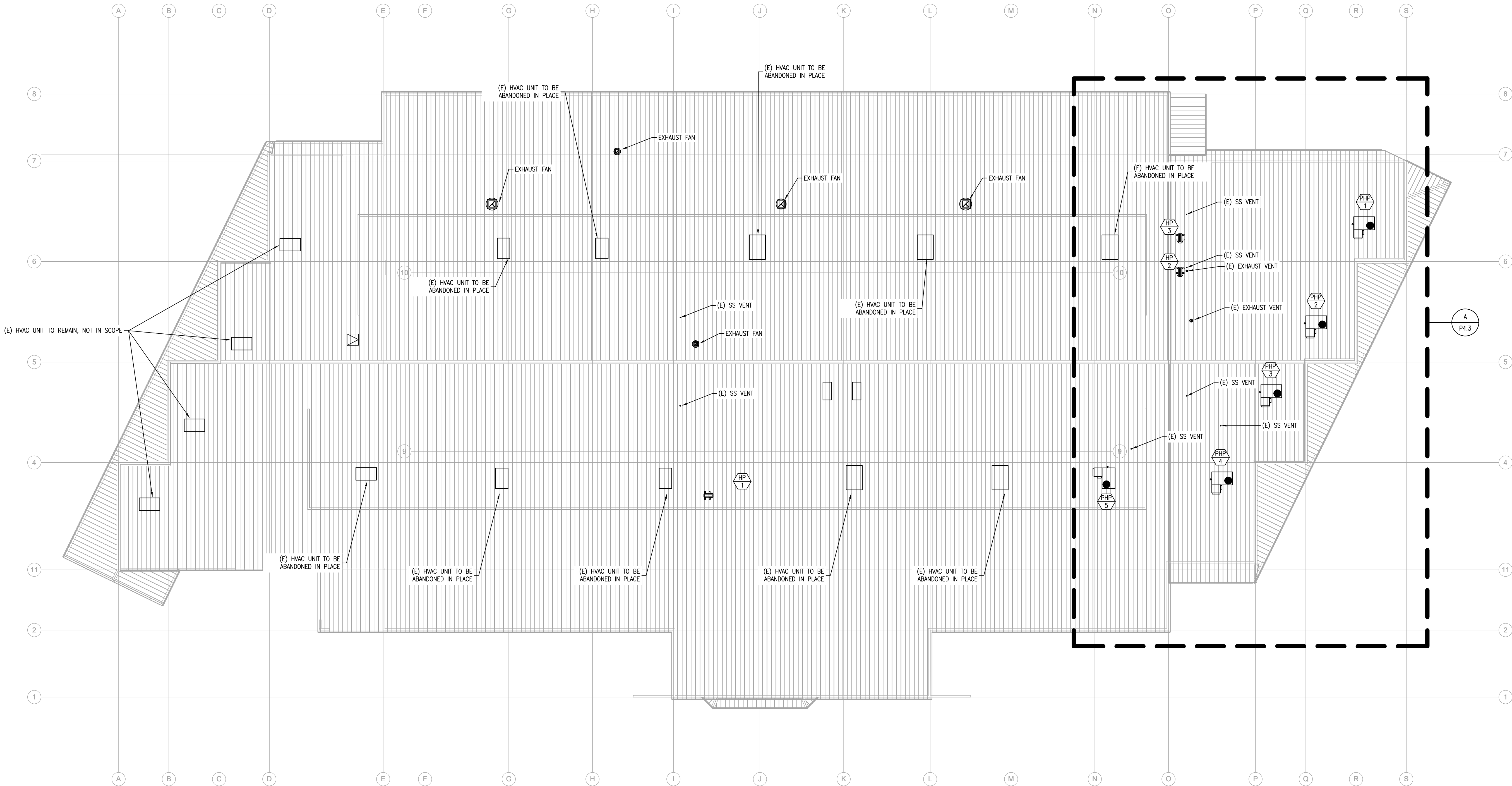
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE
**PLUMBING PLAN
OVERALL
ROOF**

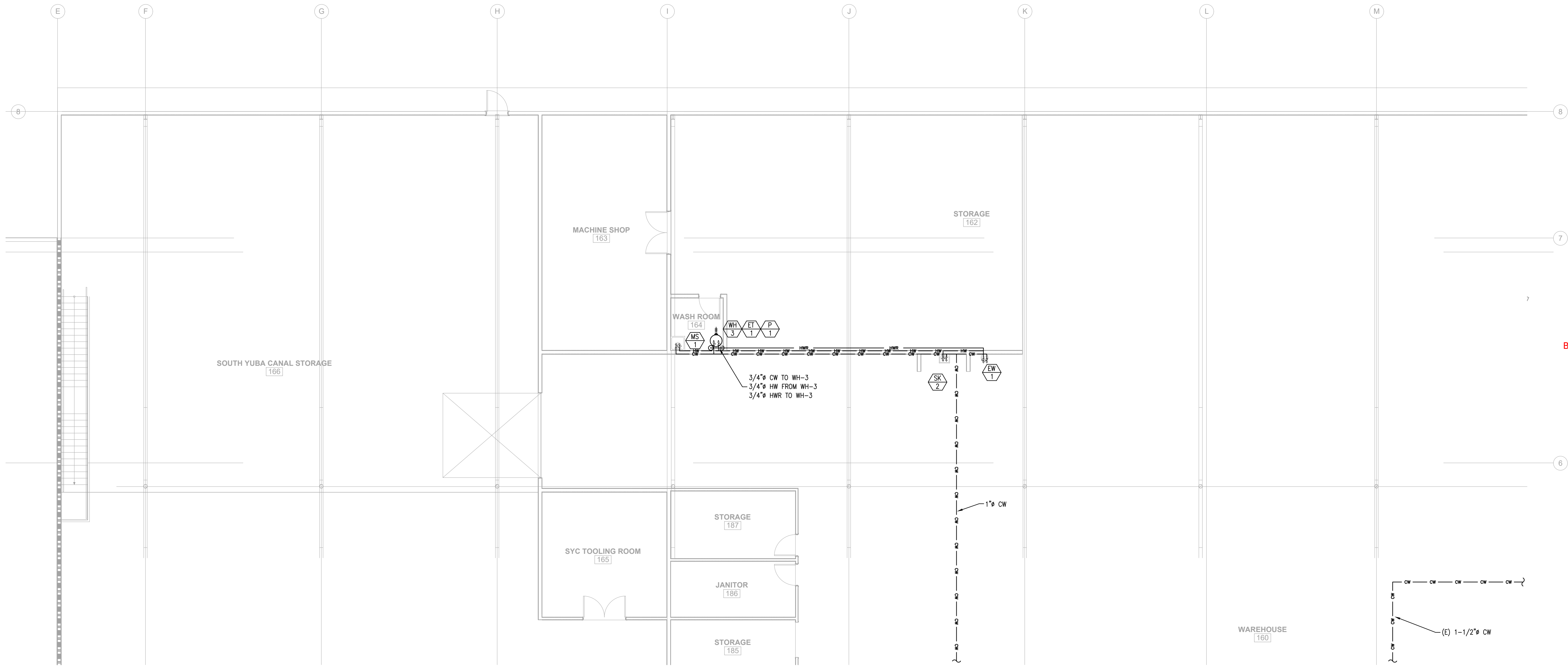
SHEET NO.

P1.2



A PLUMBING PLAN - OVERALL - ROOF
SCALE: 1/16"=1'-0"





SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
- WATER HAMMER ARRESTERS SHALL BE APPROVED MECHANICAL DEVICES IN ACCORDANCE WITH ASSE 1010 AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES PER CPC 609.11
- ALL APPLICABLE PIPING SHALL BE INSULATED IN ACCORDANCE WITH CENC 120.3 AND CPC 609.12, SEE PIPE INSULATION SCHEDULE FOR MINIMUM THICKNESS
- INSTALL THERMOSTATIC MIXING VALVES (TMV-1) AT ALL FIXTURES WITH DOMESTIC HOT WATER OR WATER HEATERS TO ENSURE MAXIMUM OUTLET TEMPERATURE OF 120°F U.O.N.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



DATE SIGNED 07-03-26

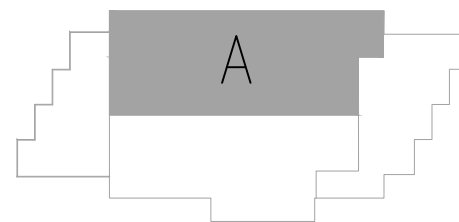
KEY NOTES:

- ① CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC

A PLUMBING PLAN - VIEW A - DOMESTIC WATER
SCALE: 1/8"=1'-0"



NORTH



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

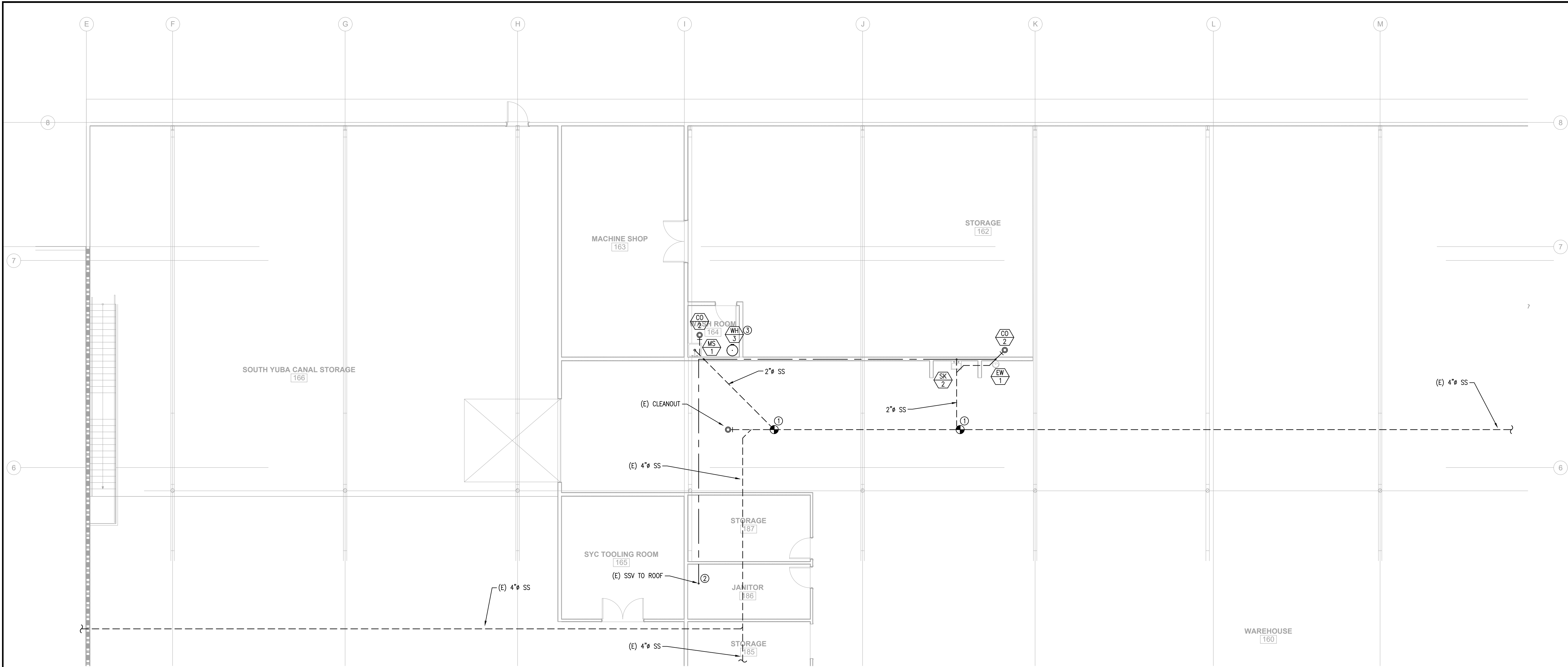
PROJECT NUMBER 25107

SHEET TITLE

PLUMBING PLAN
VIEW A
DOMESTIC WATER

SHEET NO.

P2.1



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
- ENSURE 1/4" PER FOOT SLOPE FOR SANITARY SEWER PIPING
- PROVIDE WALL CLEANOUTS AT ALL LAVATORIES, HAND SINKS, URINALS

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

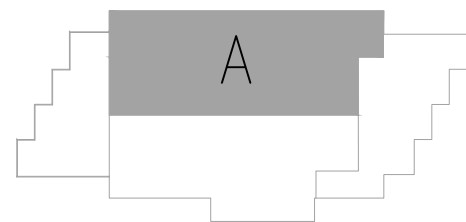
KEY NOTES:

- CONNECT TO EXISTING SANITARY SEWER. FIELD VERIFY EXACT LOCATION, DEPTH, SIZE, AND FLOW DIRECTION PRIOR TO THE START OF WORK. VERIFY WASTE PIPING IS ACTIVE PRIOR TO CONNECTING
- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC
- RELIEF VALVE AND PIPING TO MOP SINK

A PLUMBING PLAN - VIEW A - SEWER & VENT
SCALE: 1/8"=1'-0"



NORTH



ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

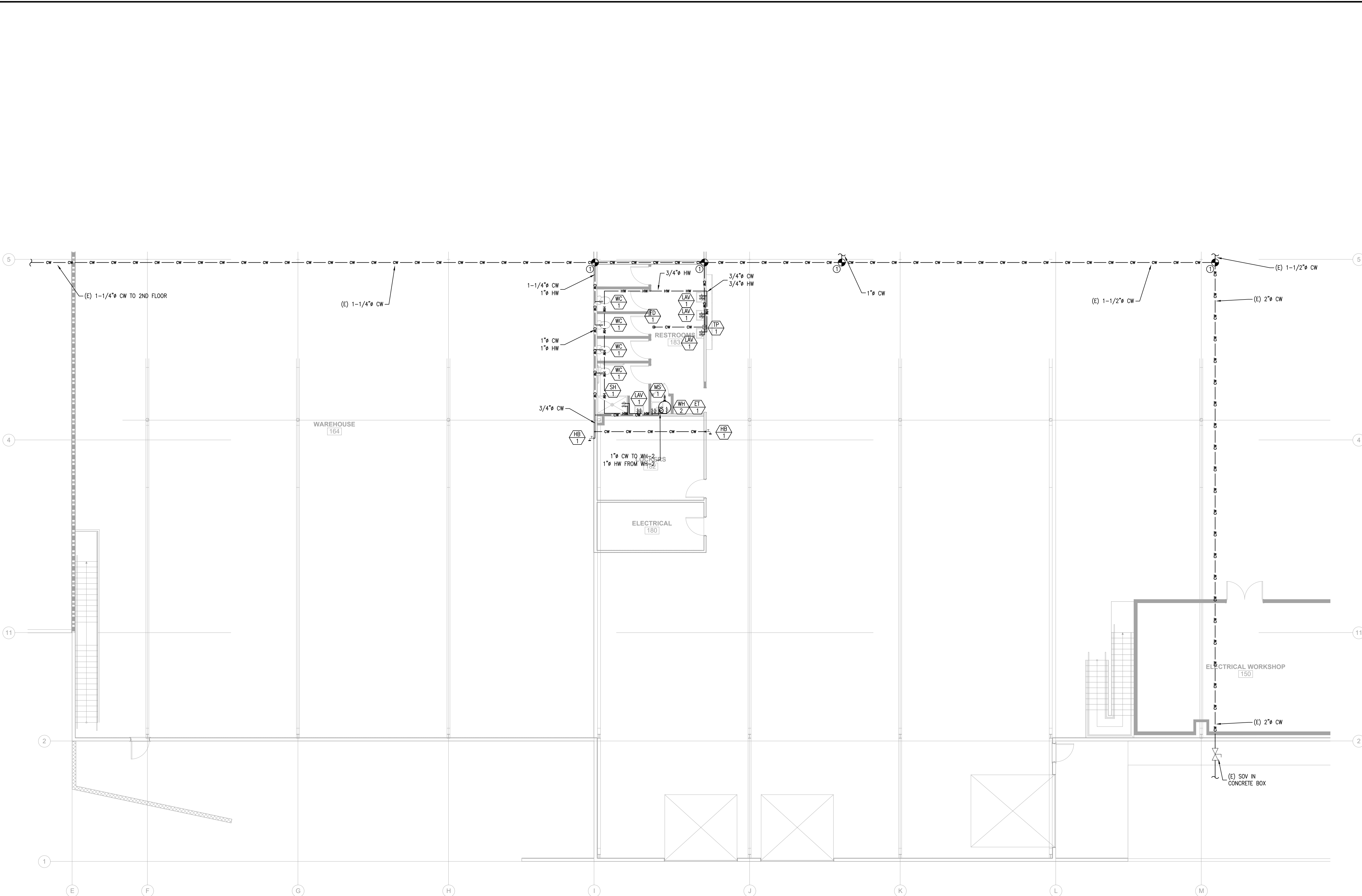
PROJECT NUMBER 25107

SHEET TITLE

PLUMBING PLAN
VIEW A
SEWER & VENT

SHEET NO.

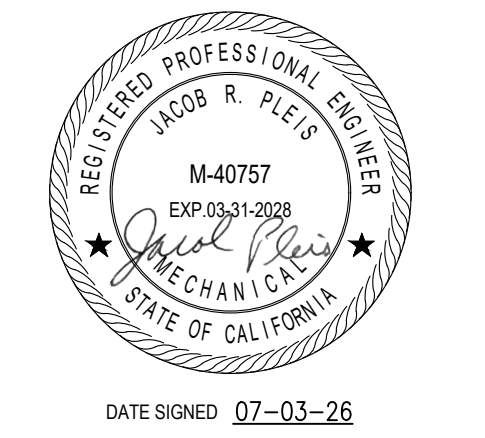
P2.2



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
 - WATER HAMMER ARRESTERS SHALL BE APPROVED MECHANICAL DEVICES IN ACCORDANCE WITH ASSE 1010 AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES PER CPC 609.11
 - ALL APPLICABLE PIPING SHALL BE INSULATED IN ACCORDANCE WITH CENC 120.3 AND CPC 609.12, SEE PIPE INSULATION SCHEDULE FOR MINIMUM THICKNESS
 - INSTALL THERMOSTATIC MIXING VALVES (TMV-1) AT ALL FIXTURES WITH DOMESTIC HOT WATER OR WATER HEATERS TO ENSURE MAXIMUM OUTLET TEMPERATURE OF 120°F U.O.N.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

- KEY NOTES:**
- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC

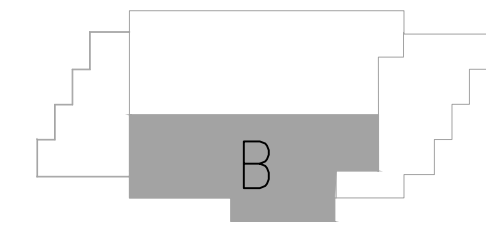


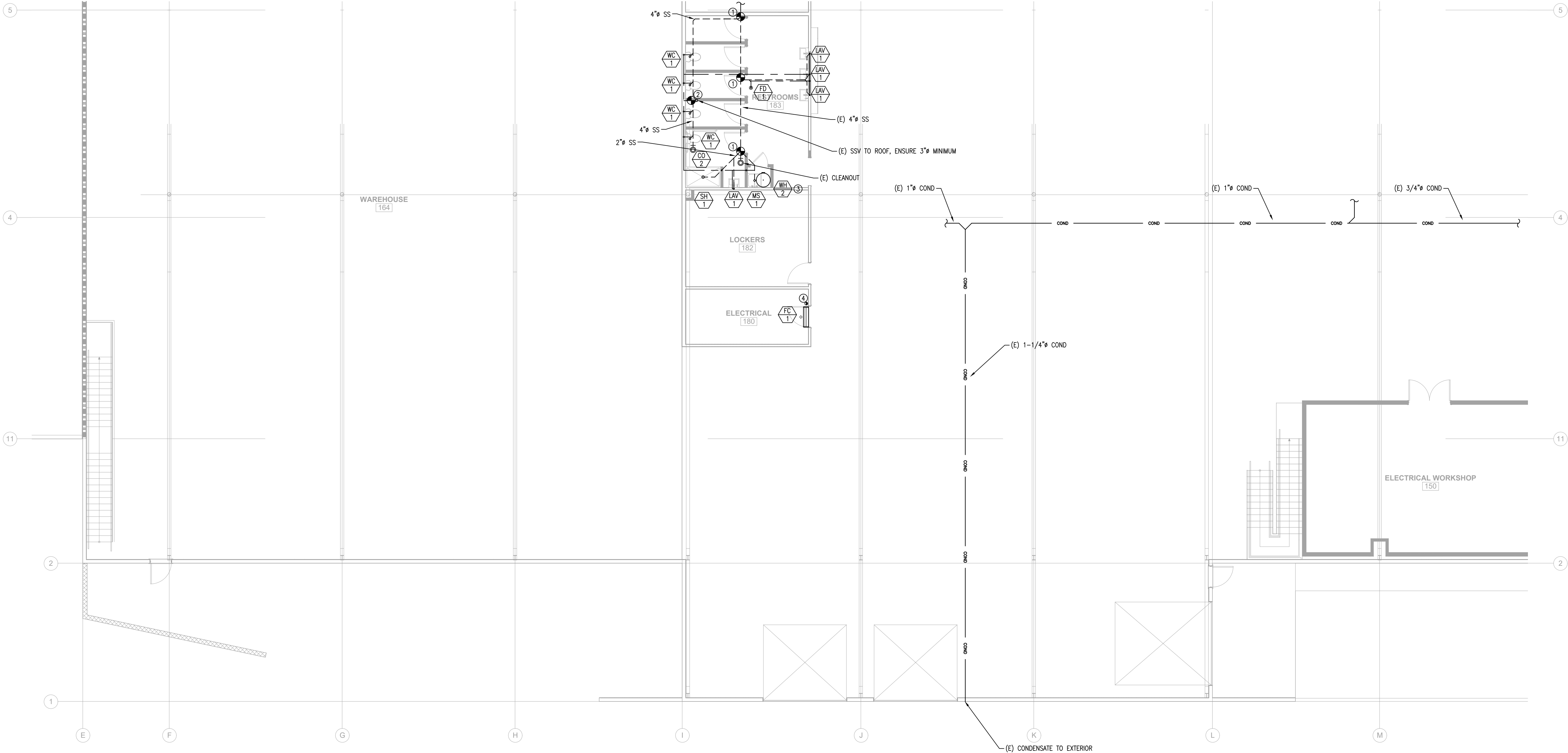
N.I.D. HYDRO OFFICE RENOVATION
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	PLUMBING PLAN VIEW B DOMESTIC WATER
SHEET NO.	P3.1

PLUMBING PLAN - VIEW B - DOMESTIC WATER
SCALE: 1/8"=1'-0"



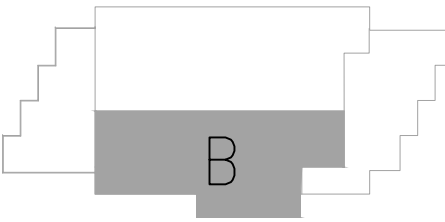


- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
 - ENSURE 1/4" PER FOOT SLOPE FOR SANITARY SEWER PIPING
 - ENSURE MINIMUM 1/8" PER FOOT SLOPE FOR ALL CONDENSATE PIPING AND INSTALL PER CPC 814. ALL CONDENSATE PIPING SHALL BE 3/4" U.O.N. OR LARGER IF RECOMMENDED BY THE MANUFACTURER
 - PROVIDE WALL CLEANOUTS AT ALL LAVATORIES, HAND SINKS, URINALS

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

- KEY NOTES:**
- CONNECT TO EXISTING SANITARY SEWER. FIELD VERIFY EXACT LOCATION, DEPTH, SIZE, AND FLOW DIRECTION PRIOR TO THE START OF WORK. VERIFY WASTE PIPING IS ACTIVE PRIOR TO CONNECTING
 - CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC
 - RELIEF VALVE AND PIPING TO MOP SINK
 - CONDENSATE PUMPED TO MOP SINK OR OTHER APPROVED LOCATION

A PLUMBING PLAN - VIEW B - SEWER & VENT
SCALE: 1/8"=1'-0"



N.I.D. HYDRO OFFICE RENOVATION
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	PLUMBING PLAN VIEW B SEWER & VENT
SHEET NO.	P3.2

A PLUMBING PLAN - VIEW C - DOMESTIC WATER
SCALE: 1/8"=1'-0"



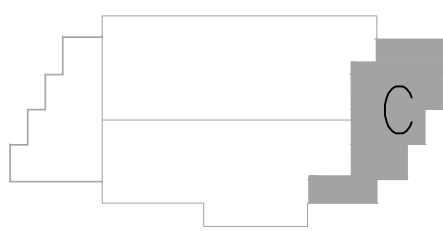
SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
- WATER HAMMER ARRESTERS SHALL BE APPROVED MECHANICAL DEVICES IN ACCORDANCE WITH ASSE 1010 AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES PER CPC 609.11
- ALL APPLICABLE PIPING SHALL BE INSULATED IN ACCORDANCE WITH CENC 120.3 AND CPC 609.12, SEE PIPE INSULATION SCHEDULE FOR MINIMUM THICKNESS
- INSTALL THERMOSTATIC MIXING VALVES (TMV-1) AT ALL FIXTURES WITH DOMESTIC HOT WATER OR WATER HEATERS TO ENSURE MAXIMUM OUTLET TEMPERATURE OF 120°F U.O.N.
- PROVIDE TRAP PRIMERS AT ALL FLOOR DRAIN LOCATIONS

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC



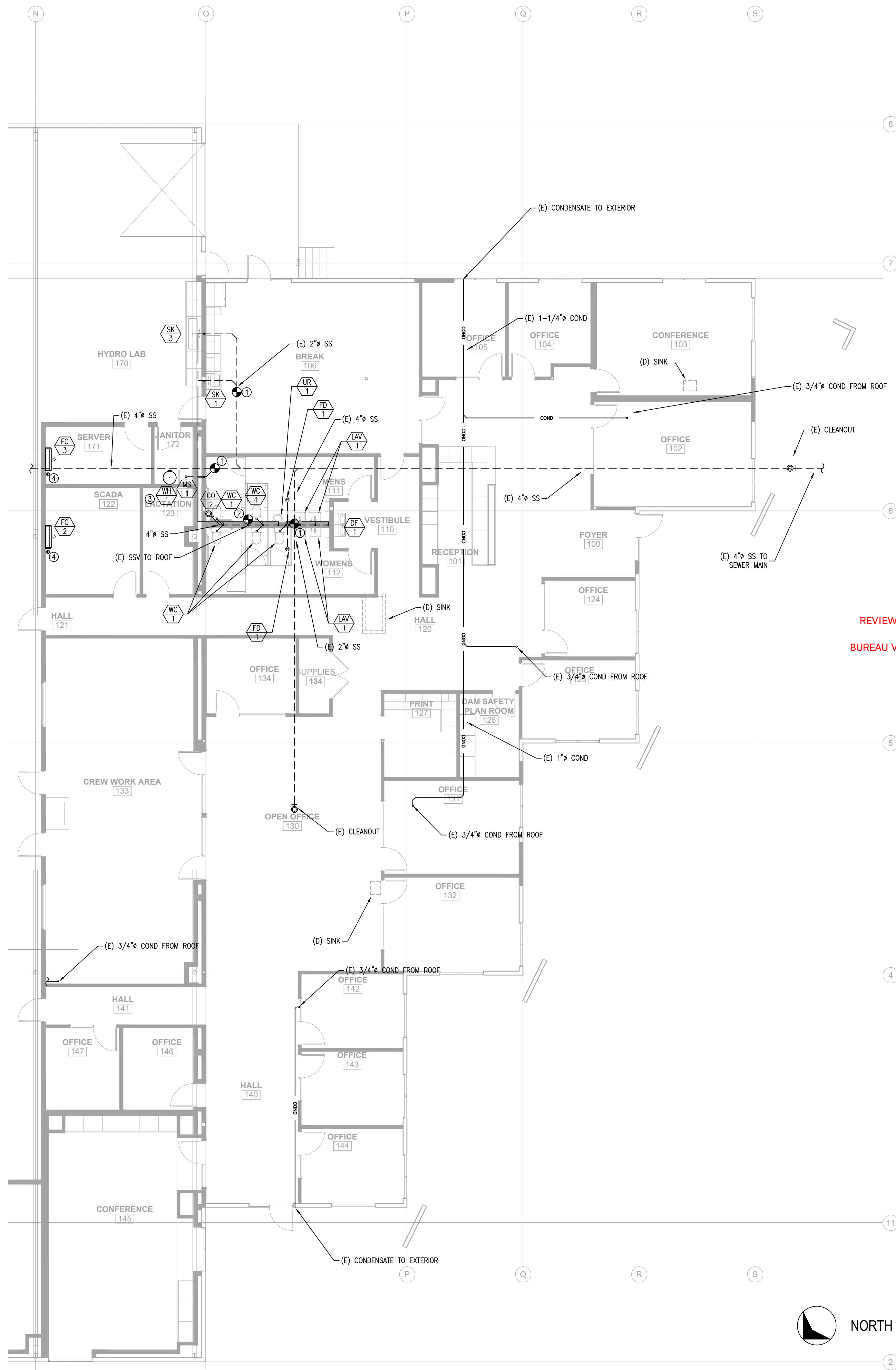
N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054



ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

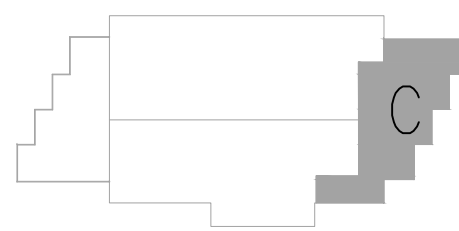
PROJECT NUMBER	25107
SHEET TITLE	PLUMBING PLAN VIEW C DOMESTIC WATER
SHEET NO.	P4.1



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
 - ENSURE CLEANOUT TO GRADE EXISTS
 - ENSURE 1/4" PER FOOT SLOPE FOR SANITARY SEWER PIPING
 - ENSURE MINIMUM 1/8" PER FOOT SLOPE FOR ALL CONDENSATE PIPING AND INSTALL PER CPC 814. ALL CONDENSATE PIPING SHALL BE 3/4" U.O.N. OR LARGER IF RECOMMENDED BY THE MANUFACTURER
 - PROVIDE WALL CLEANOUTS AT ALL LAVATORIES, HAND SINKS, URINALS
 - FLOORS SHALL BE SLOPED TO FLOOR DRAINS PER CPC 418.5
 - CONTRACTOR SHALL ENSURE ALL EXISTING CONDENSATE PIPING IS SERVED BY CLEANOUTS PER CPC 814.3.1, PROVIDE AS NEEDED

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

- KEY NOTES:**
- CONNECT TO EXISTING SANITARY SEWER. FIELD VERIFY EXACT LOCATION, DEPTH, SIZE, AND FLOW DIRECTION PRIOR TO THE START OF WORK. VERIFY WASTE PIPING IS ACTIVE PRIOR TO CONNECTING
 - CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC
 - RELIEF VALVE AND PIPING TO MOP SINK
 - CONDENSATE PUMPED TO MOP SINK OR OTHER APPROVED LOCATION



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

PLUMBING PLAN
VIEW C
SEWER & VENT

SHEET NO.

P4.2



DATE SIGNED 07-03-26





SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL APPLIANCES AND FIXTURES/PIPING SHOWN ARE (N) U.O.N.
- ENSURE MINIMUM 1/8" PER FOOT SLOPE FOR ALL CONDENSATE PIPING AND INSTALL PER CPC 814. ALL CONDENSATE PIPING SHALL BE 3/4" U.O.N. OR LARGER IF RECOMMENDED BY THE MANUFACTURER
- ALL EXISTING CONDENSATE IS ROUTED TO EXTERIOR LOCATION

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

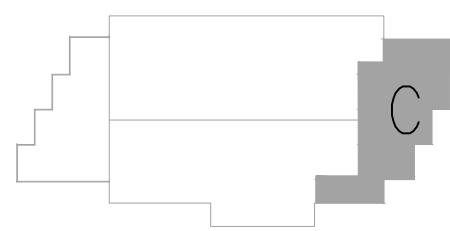
KEY NOTES:

- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC

A PLUMBING PLAN - VIEW C - ROOF
SCALE: 1/8"=1'-0"



NORTH



OPTIMIZED ENERGY
& FACILITIES CONSULTING, INC.
5734 Lonelee Boulevard, Rocklin, CA 95765
Office: (916) 626 5518 www.oefcinc.com



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

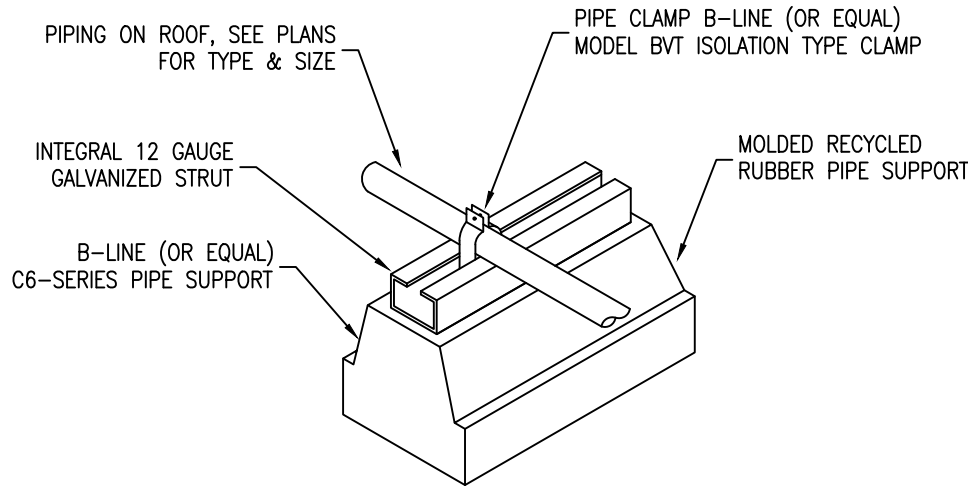
PROJECT NUMBER 25107

SHEET TITLE

PLUMBING PLAN
VIEW C
ROOF

SHEET NO.

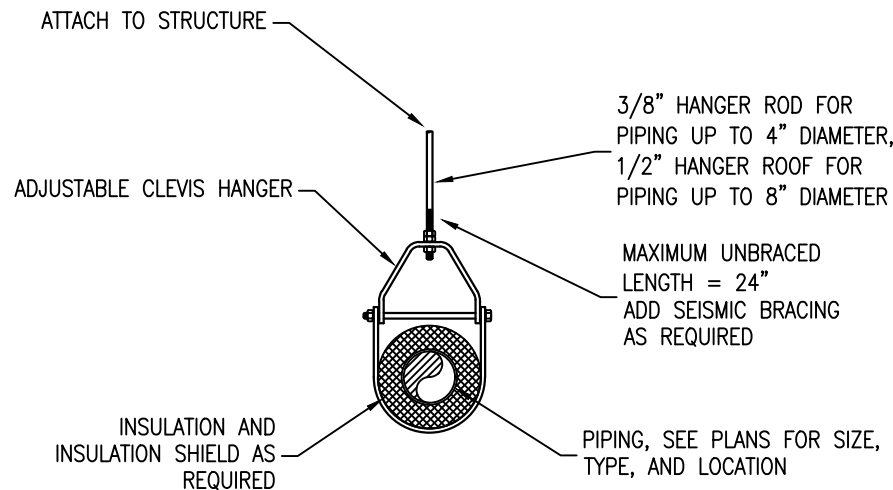
P4.3



- NOTES:
- WHERE EXTENDED HEIGHT IS REQUIRED, PROVIDE CE-SERIES
 - MAXIMUM SPACING BETWEEN SUPPORTS NOT TO EXCEED 8'-0"

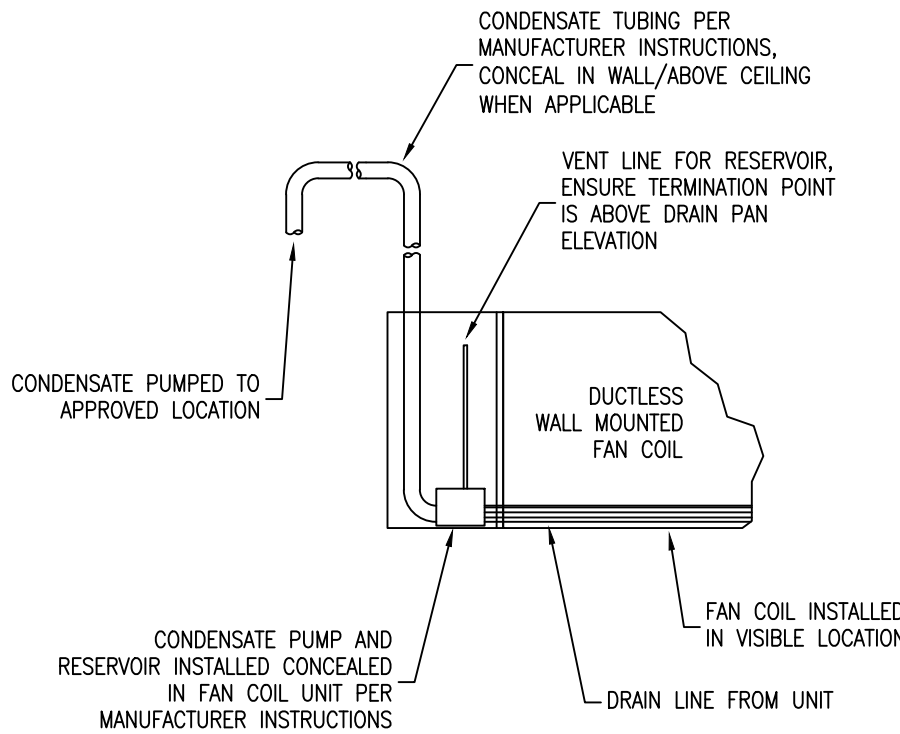
PIPE SUPPORT ON ROOF

1



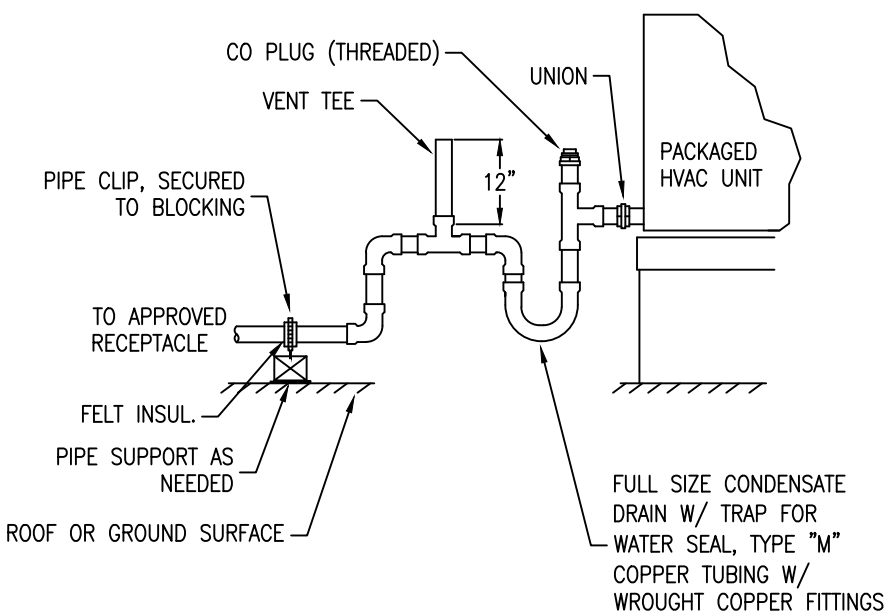
PIPE HANGER SUPPORT

2



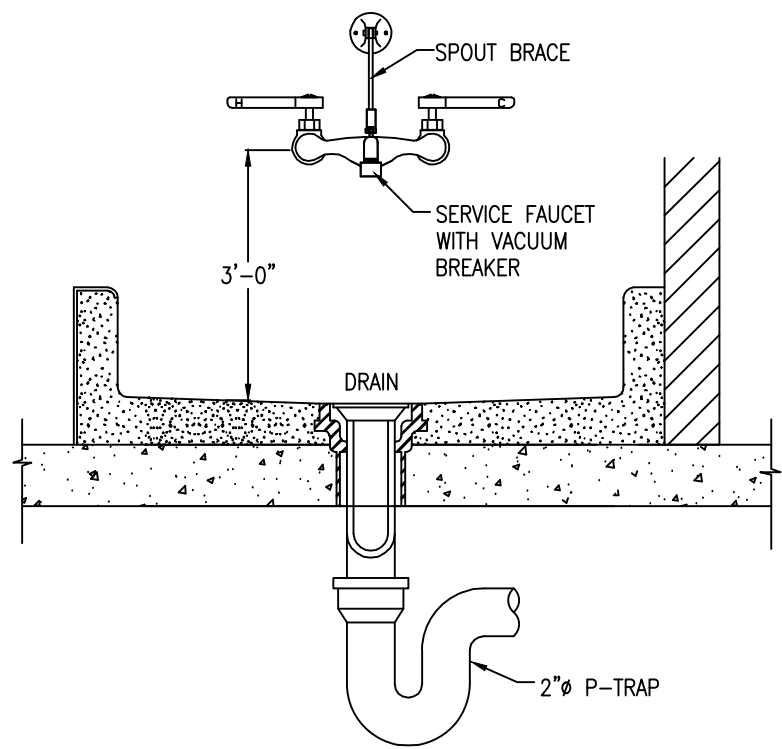
DUCTLESS MINI-SPLIT CONDENSATE

3



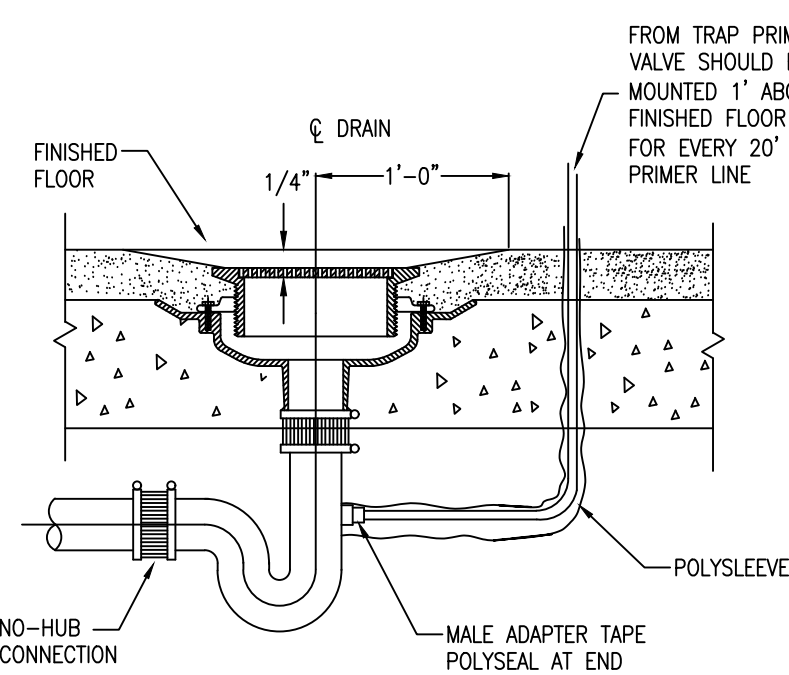
CONDENSATE DRAIN (PACKAGED)

4



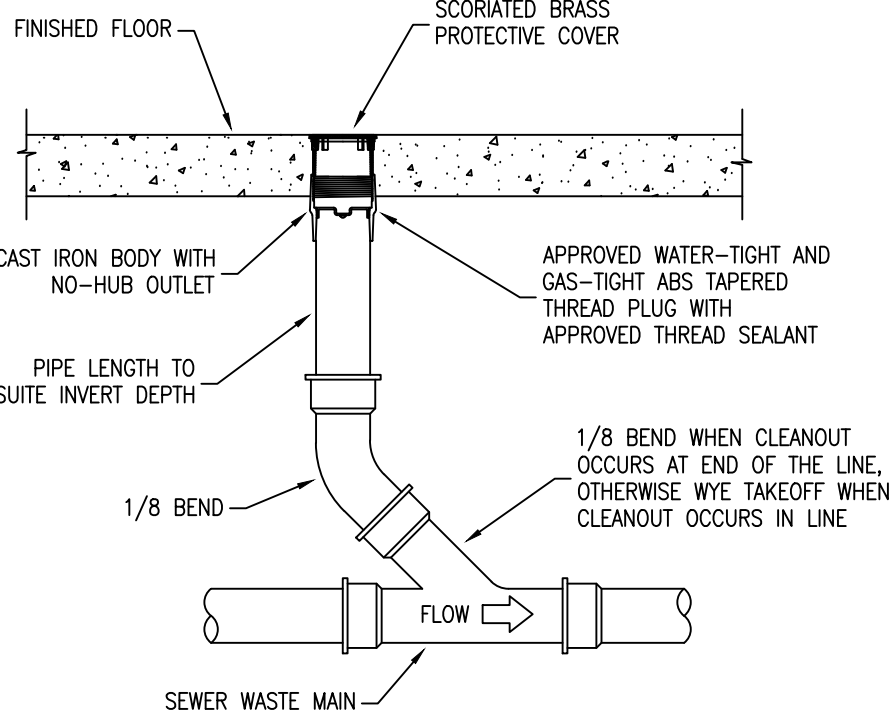
MOP SINK

5



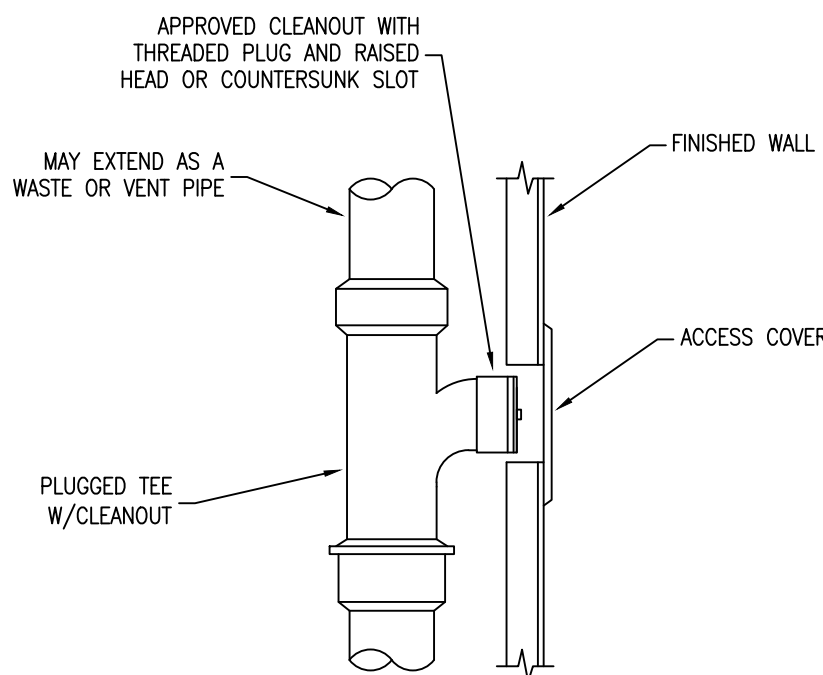
FLOOR DRAIN

6



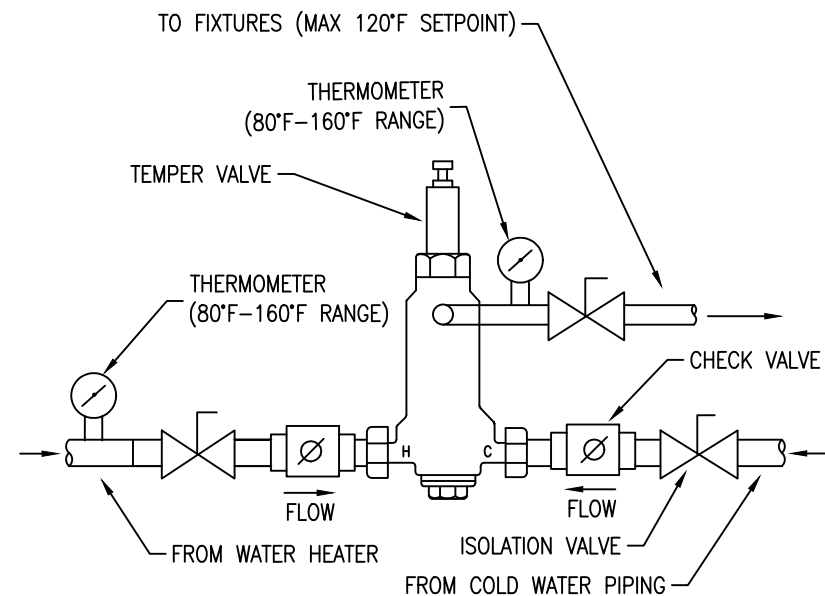
FLOOR CLEANOUT

7



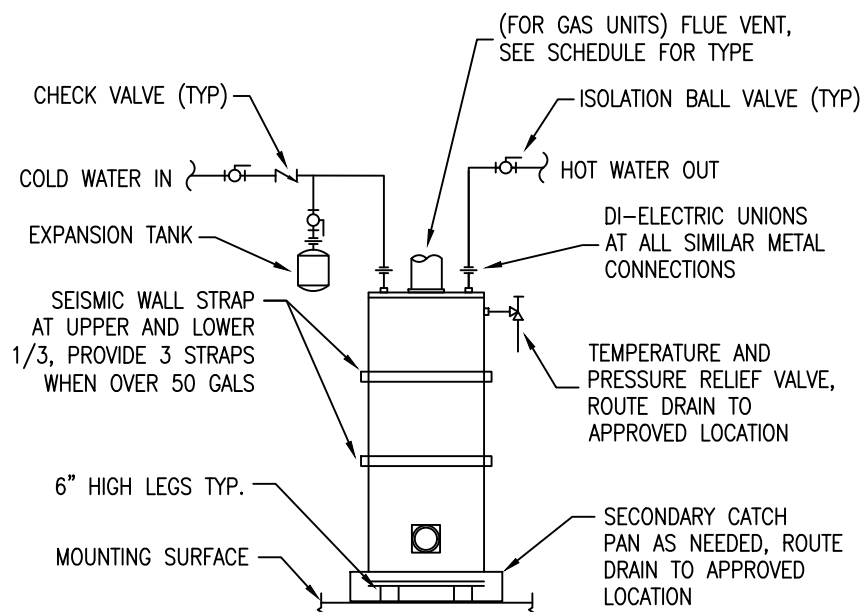
WALL CLEANOUT

8



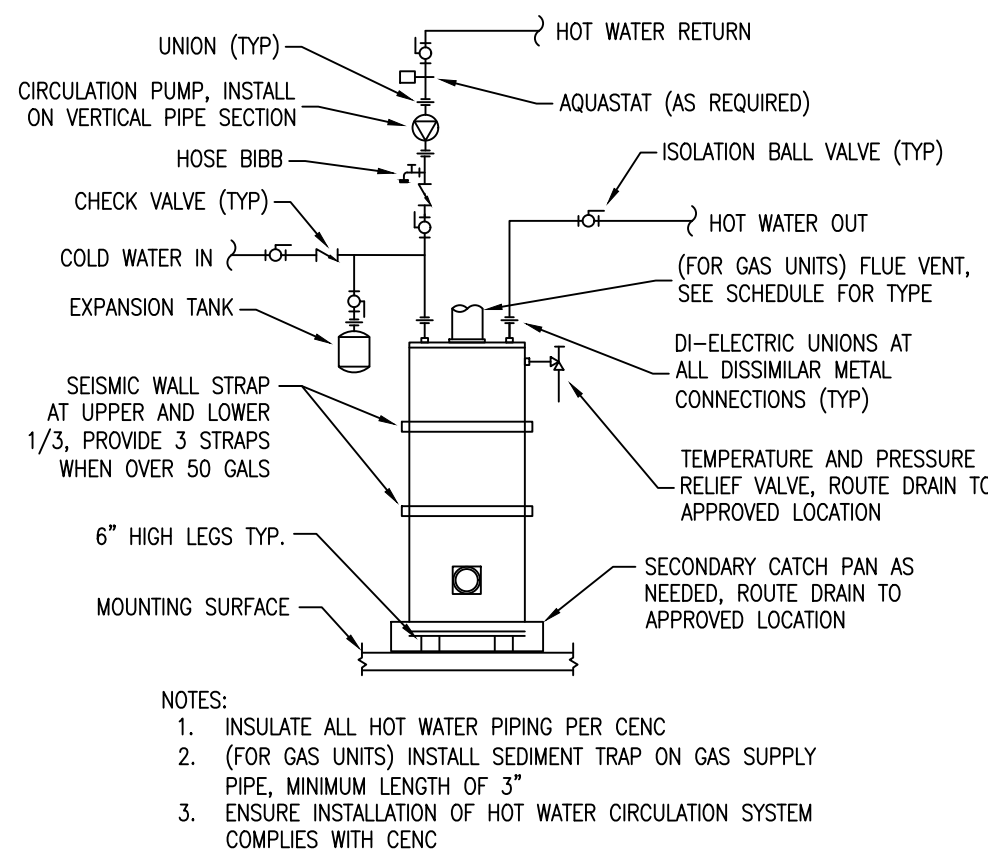
THERMOSTATIC MIXING VALVE

9



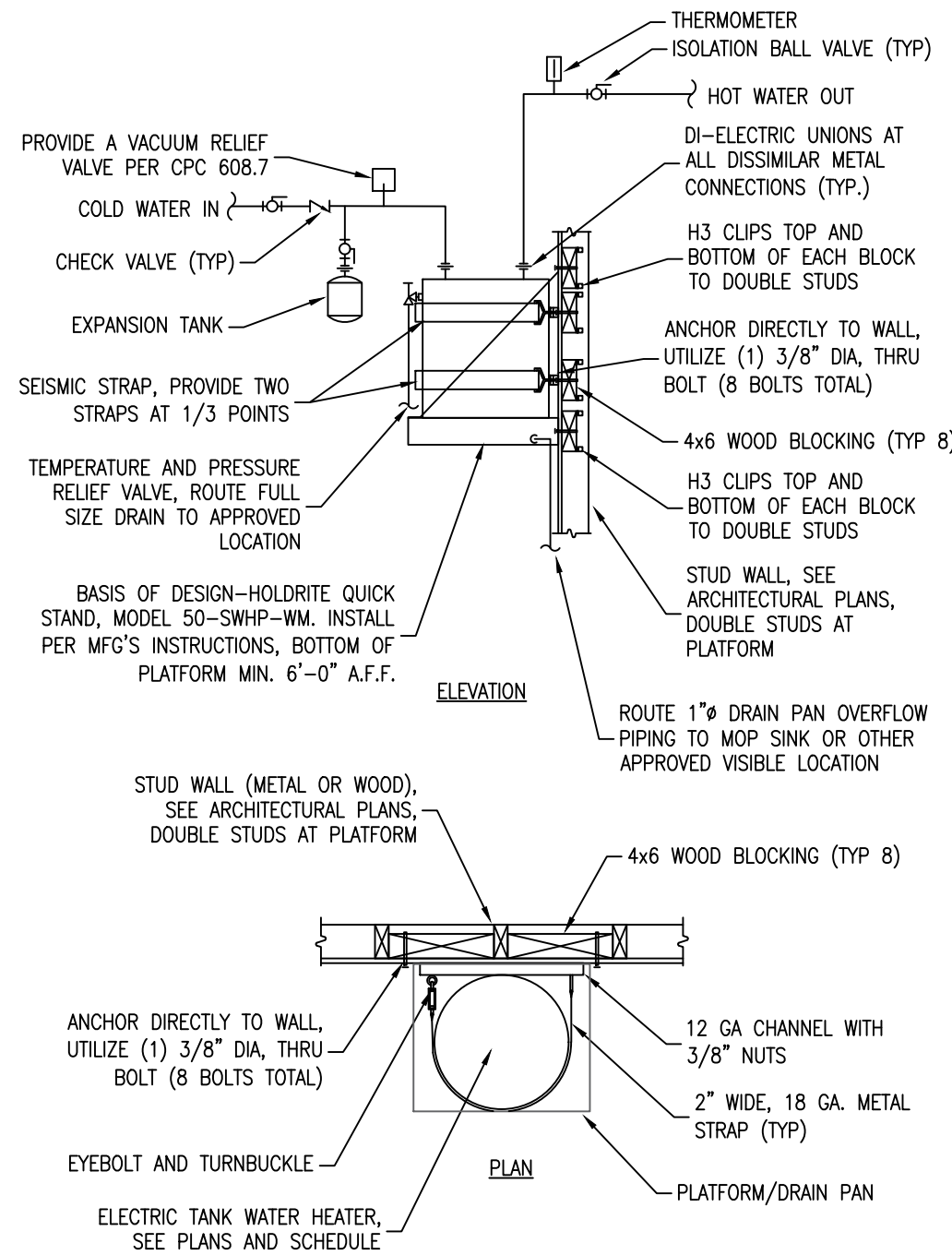
TANK WATER HEATER

10



TANK WATER HEATER WITH HW CIRC

11



- NOTES:
- PLATFORM AND STRAP TO COMPLY WITH SEISMIC ZONE REQUIREMENTS
 - INSULATE ALL HOT WATER PIPING PER CENC
 - ENSURE INSTALLATION OF HOT WATER CIRCULATION SYSTEM COMPLIES WITH CENC

PLATFORM MOUNTED WATER HEATER

12

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

PLUMBING
DETAILS

SHEET NO.

P5.0

STATE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §160.4 and §170.2(d), and with requirements §180.1-1 for additions and §180.2 for alterations.		NRCC-PLB-B (Page 1 of 9)	
Project Name: NID Hydroelectric Field Office		Report Page:	
Project Address: 148 Whitcomb Ave		Date Prepared: 3/17/2026	

A. GENERAL INFORMATION			
01 Project Location (city) Collax	02 Climate Zone 11		
03 Occupancy Types Within Project (select all that apply):			
☒ Commercial/Industrial ☒ Office ☒ Support Areas ☒ Warehouse			

B. PROJECT SCOPE This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.1, §170.2(d) and §141.0(a)/§180.1, or §141.0(b)(2N) / §180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.			
My project consists of (check all that apply):	System Type ^{1,2}	System Components	
☒ New system (DHW system being installed for the first time)	Serving Nonresidential or MF/Hotel/Motel Common use area	☒ Equipment ☒ Distribution ☒ Controls	
☒ New system (DHW system being installed for the first time)	Serving Nonresidential or MF/Hotel/Motel Common use area	☒ Equipment ☒ Distribution ☒ Controls	
☒ New system (DHW system being installed for the first time)	Serving Nonresidential or MF/Hotel/Motel Common use area	☒ Equipment ☒ Distribution ☒ Controls	
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls	

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
²Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily and hotel/motel occupancies

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance	Generated Date/Time: Report Version: 2025.0.000 Schema Version: rev 20250101	Documentation Software: EnergyPro Compliance ID: EPR-5910-0326-0097 Report Generated: 2026-03-17 15:35:42
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	
Project Name: NID Hydroelectric Field Office	Report Page:	(Page 4 of 9)	
	Date Prepared:	3/17/2026	

F. DOMESTIC HOT WATER EQUIPMENT								
Name or Item Tag	Quantity	System Status	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Rated Efficiency	Minimum Efficiency Required	Maximum Standby Loss
RHEEM/R UUD 4D4D-T8	1	New/Added	Electric Storage	36	17,061	0.93	Must meet Federal Minimum Requirements	Must meet Federal Minimum Requirements

FOOTNOTES: In systems > 12MBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% EER requirements via an input capacity-weighted average.

FOOTNOTES: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://accertappliance.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

DOMESTIC HOT WATER DISTRIBUTION SYSTEM		
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §1203.3 and §1405.5. For multi-family and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §160.4, §170.2(d).		
Mandatory Pipe Insulation All Occupancies - §1203.3, §160.4		
System Name		
Yes	Not Applicable	Requirement
16	●	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: - Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall extend securely against all framing members. - Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. - Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation. For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A or Table 120.3-A2 (see below) per §1203.3: - Recirculating system piping, including supply and return piping of the water heater - The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system - Pipes that are externally heated
17	●	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A or Table 120.3-A2 (see below) per §1203.3: - Recirculating system piping, including supply and return piping of the water heater - The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system - Pipes that are externally heated

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	
Project Name: NID Hydroelectric Field Office	Report Page:	(Page 7 of 9)	
Date Prepared:	Date Prepared:	3/17/2026	

System Name	Requirement		
	Yes	Not Applicable	
01	☒	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §130.1(a).
02	☐	☐	Systems with capacity > 167,000 BTU/h equipped with outlet temperature controls per §130.1(c)(1) unless covered by California Plumbing Code §13.0.
03	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §130.3(c)(2) unless systems serves healthcare facility.
04	☐	☒	For recirculation systems serving multiple dwelling units, design includes a mechanical and/or digital thermostatic master mixing valve on each distribution supply and return loop per §170.2(d) or §180.1(b)(3) for additions.
05	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix A-4.4.2.9 or §170.2(d).
06	☐	☒	Combustion air positive shut-off shall be provided per §120.9(a) & §160.4(d)(1) on all newly installed commercial boilers as follows: - Boilers with input capacity > 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure - Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	Boiler combustion air fans with motor > 10 hp shall meet one of the following for newly installed boilers per §120.9(b) & §160.4(d)(2): - The fan motor shall be driven by a variable speed drive OR - The fan motor shall include controls that limit the fan motor demand to <30% of the total design wattage at 50% of the design air volume.
08	☐	☒	Newly installed boilers with input capacity (dgtgr) §5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain exs (stack gas) oxygen concentrations < 5% by volume on a dry basis over firing rates of 70-100%. Combustion air volume shall be controlled with respect to firing rate or fire gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited per §120.9(c) & §160.4(d)(3).

DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION <i>Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online</i>

NRCI PLB-E - Must be submitted for all buildings		
	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance	Report Version: 2025.0.000 Schema Version: rev 20250101	Compliance ID: EPR-5510-C126-0097 Report Generated: 2024-03-17 15:35:42

STATE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	
Project Name: NID Hydroelectric Field Office		Report Page: (Page 2 of 9)	
		Date Prepared: 3/17/2020	

C. COMPLIANCE RESULTS				
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.				
01	02	03	04	05
Domestic Hot Water Equipment	Distribution Systems	Controls	Pool/Spa	Compliance Results
Table F	Table G	Table H	Table J	
Yes	Yes	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with <u>uneditable</u> comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-PLB-6	
Project Name: NID Hydroelectric Field Office	Report Page:	(Page 5 of 9)	
	Date Prepared:	3/17/2026	

DOMESTIC HOT WATER DISTRIBUTION SYSTEM			
18	●	●	Per §120.3(b) §160.4(f), pipe and appurtenance installation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.
Mandatory Pipe Insulation All Occupancies - §120.3, §160.4			
System Name			
	Yes	Not Applicable	Requirement
16	●	●	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: - Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall cover securely against all framing members - Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix R4.5. - Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
17	●	●	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A1 or Table 120.3-A2 (See below) per §120.3: - Recirculating system piping, including supply and return piping of the water heater - The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system - Pipes that are externally heated
18	●	●	Per §120.3(b) §160.4(f), pipe and appurtenance installation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

CA Building Energy Efficiency Standards – 2025 Nonresidential Compliance	Generated Date/Time: Report Version: 2025.0.000 Schema Version: rev 20250101	Documentation Software: EnergyPro Compliance ID: EPR-5910-0326-0097 Report Generated: 2026-03-17 15:35:42
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STATE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-PLB-6	
Project Name: NID Hydroelectric Field Office		Report Page: (Page 8 of 9)	
Date Prepared:		3/17/2026	

DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
<i>There are no forms required for this project.</i>
DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
<i>There are no forms required for this project.</i>

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance	Generated Date/Time: Report Version: 2025.0.000 Schema Version: rev 20250101	Documentation Software: EnergyPro Compliance ID: EPR-5910-0326-0097 Report Generated: 2026-03-17 15:35:42
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Domestic Water Heating System										SALVADORIA ENERGY COMMISSION														
CERTIFICATE OF COMPLIANCE																				NRC-PLB-6				
Project Name: NID Hydroelectric Field Office										Report Page:					(Page 3 of 6)									
Date Prepared:										3/17/2026														

F. DOMESTIC HOT WATER EQUIPMENT																			
<i>This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. Compliance with prescriptive requirements in §140.5(c) / §170.2(d) must also be demonstrated and with §141.0 / §180.1 / §180.2 for addition and alteration scopes.</i>																			
Equipment Schedule: Water Heating Efficiency and Standby Loss																			
01		02		03						04									
System Name		Space Type		Nonresidential		Exception to §140.5(c)/§170.2(d)§18						Capacity-weighted Average Efficiency %							
05		06		07		08		09		10		11		12		13			
Name or Item Tag		Quantity		System Status		Equipment Type		Volume (gal)		Rated Input Capacity (Btu/h)		Rated Efficiency		Minimum Efficiency Required		Maximum Standby Loss			
RHEEM/R UUD ELD52-FTB		1		New/ Addition		Electric Storage		45		20,473		0.93		Must meet Federal Minimum Requirements		Must meet Federal Minimum Requirements			
01		02		03						04									
System Name		Space Type		Nonresidential		Exception to §140.5(c)/§170.2(d)§18						Capacity-weighted Average Efficiency %							
05		06		07		08		09		10		11		12		13			
Name or Item Tag		Quantity		System Status		Equipment Type		Volume (gal)		Rated Input Capacity (Btu/h)		Rated Efficiency		Minimum Efficiency Required		Maximum Standby Loss			
RHEEM/R UUD ELD540-TB		1		New/ Addition		Electric Storage		33		20,473		0.92		Must meet Federal Minimum Requirements		Must meet Federal Minimum Requirements			
01		02		03						04									
System Name		Space Type		Nonresidential		Exception to §140.5(c)/§170.2(d)§18						Capacity-weighted Average Efficiency %							
05		06		07		08		09		10		11		12		13			
Name or Item Tag		Quantity		System Status		Equipment Type		Volume (gal)		Rated Input Capacity (Btu/h)		Rated Efficiency		Minimum Efficiency Required		Maximum Standby Loss			
RHEEM/R UUD ELD40-TB		1		New/ Addition		Electric Storage		33		20,473		0.92		Must meet Federal Minimum Requirements		Must meet Federal Minimum Requirements			

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance	Generated Date/Time: Report Version: 2025.0.000 Schema Version: rev 20250101	Documentation Software: EnergyPro Compliance ID: EPR-5910-0326-0097 Report Generated: 2026-03-17 15:35:42
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	
Project Name: NID Hydroelectrc: Field Office	Report Page:	(Page 6 of 9)	
	Date Prepared:	3/17/2026	

DOMESTIC HOT WATER DISTRIBUTION SYSTEM				
Mandatory Pipe Insulation All Occupancies – §120.3, §160.4				
System Name		Requirement		
Yes	Not Applicable			
		For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: ● Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall be put securely against all framing members ● Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appraisal RA3.5. ● Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attics insulation, shall not be required to have pipe insulation.		
16	●	●	●	●
		For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A1 or Table 120.3-A2 (see below) per §120.3: ● Recirculating system piping, including supply and return piping of the water heater ● The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system ● Pipes that are externally heated		
17	●	●	●	●
		Per §120.3(b) §160.4(f), pipe and apparatusment insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.		
18	●	●	●	●

Fluid/Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			<1	1 to <1.5	1.5 to <4	1.5 to <4 (Multifamily & Hotel/Motel)
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

DOMESTIC HOT WATER CONTROLS - §110.3, §120.9, §160.4(d), §170.2(d), §180.1(b)3

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For nonresidential occupancies, compliance is demonstrated with requirements in §120.9. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §160.4(d) / §170.2(d).

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	
Project Name: NID Hydroelectric Field Office	Report Page:	(Page 9 of 9)	
Project Address: 148 Whitcomb Ave	Date Prepared:	3/17/2026	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Jacob Pleis	Documentation Author Signature: 
Company: Optimized Energy & Facilities Consulting	Expiration Date: 2026-03-17
Address: 5734 Lonetree Boulevard City/State/Zip: Rocklin CA 95765	CEAA/AVECC Certification Identification (if applicable): Phone: 916-622-4882
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct; 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance [responsible designer]; 3. I am a duly licensed professional engineer, architect, landscape architect, interior designer, building design or system design identified on this Certificate of Compliance consistent with the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations; 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application; 5. I understand that the completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.	
Responsible Person Name: Jacob Pleis	Responsible Person Signature: 
Company: Optimized Energy & Facilities Consulting, Inc	Date Signed: 2026-03-17
Address: 5734 Lonetree Blvd City/State/Zip: Rocklin CA 95765	License: MA40757 Phone: (916) 622-5518

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N.I.D. HYDRO OFFICE RENOVATION

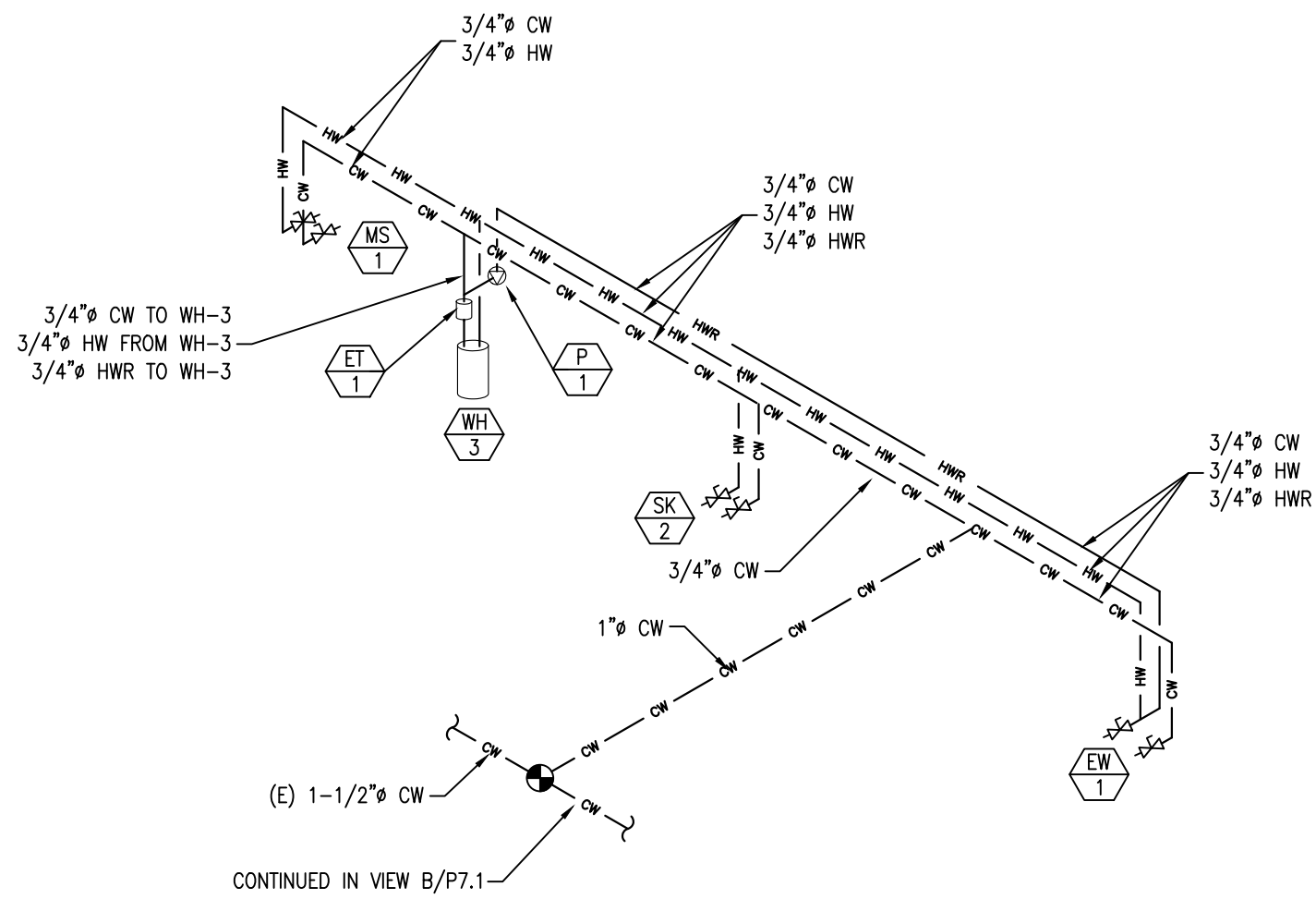
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
 PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	

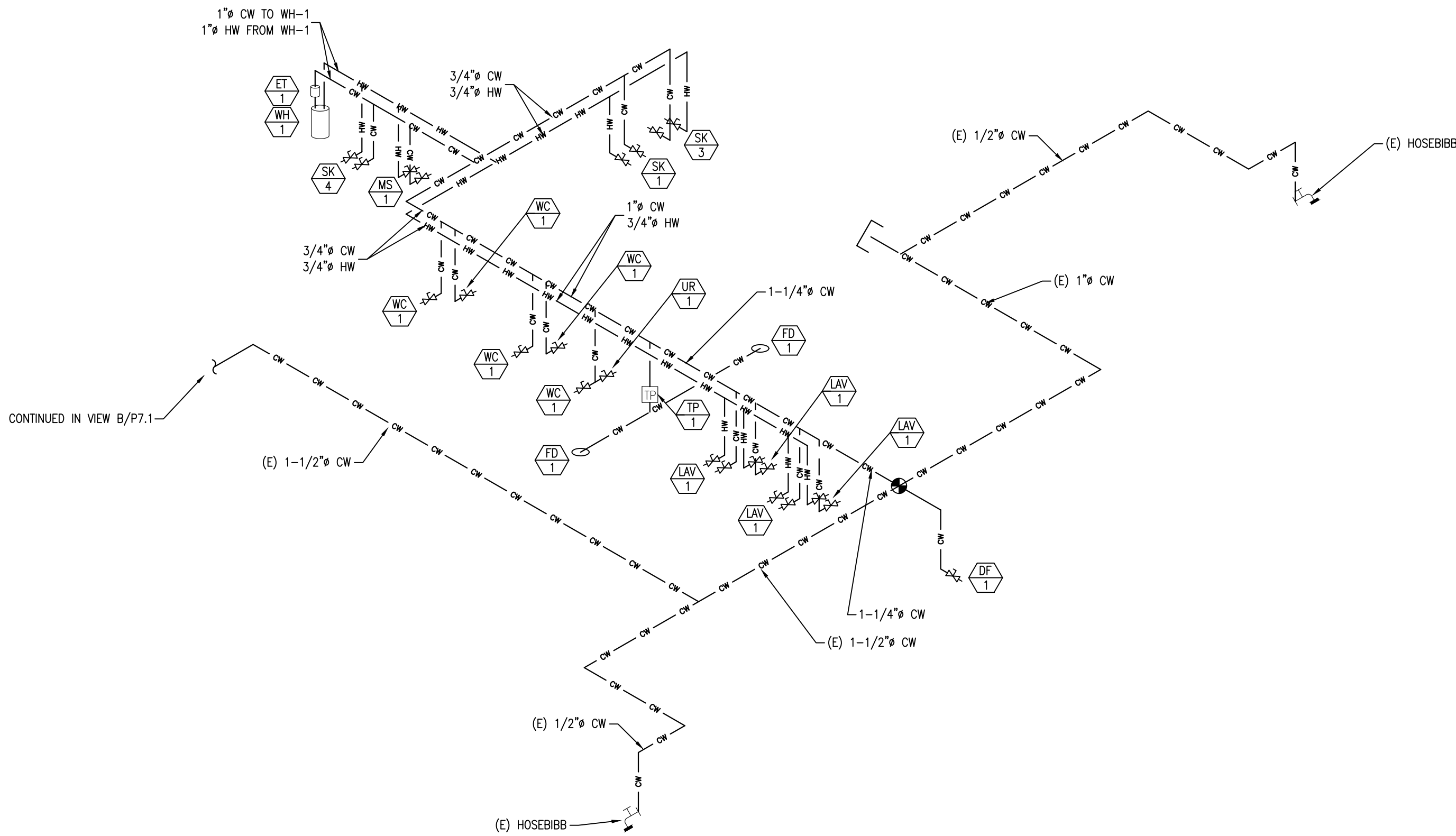
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P6.1

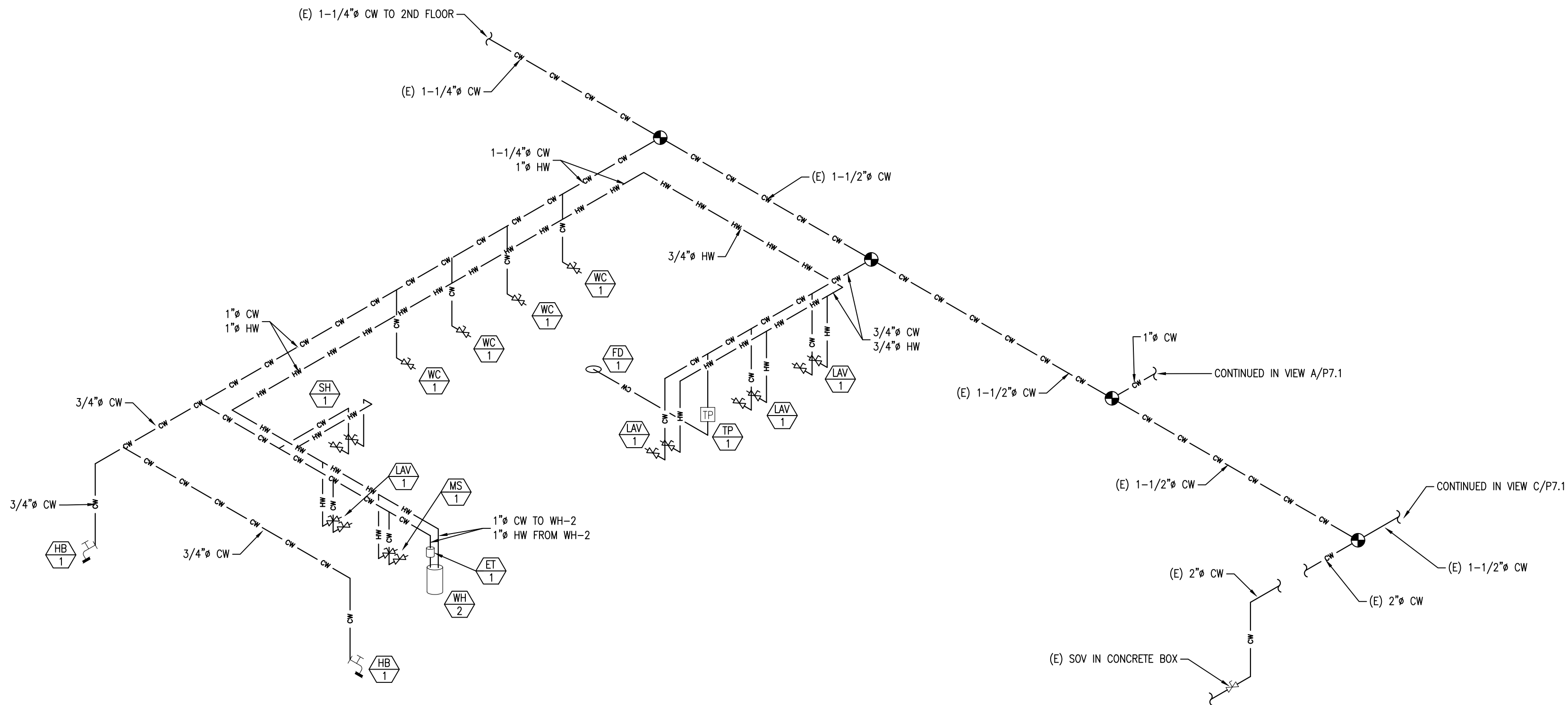


REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

A PLUMBING ISOMETRIC - VIEW A - DOMESTIC WATER
SCALE: NTS



C PLUMBING ISOMETRIC - VIEW C - DOMESTIC WATER
SCALE: NTS



B PLUMBING ISOMETRIC - VIEW B - DOMESTIC WATER
SCALE: NTS

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26
PROJECT NUMBER	25107
SHEET TITLE	PLUMBING ISOMETRICS DOMESTIC WATER
SHEET NO.	P7.1

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

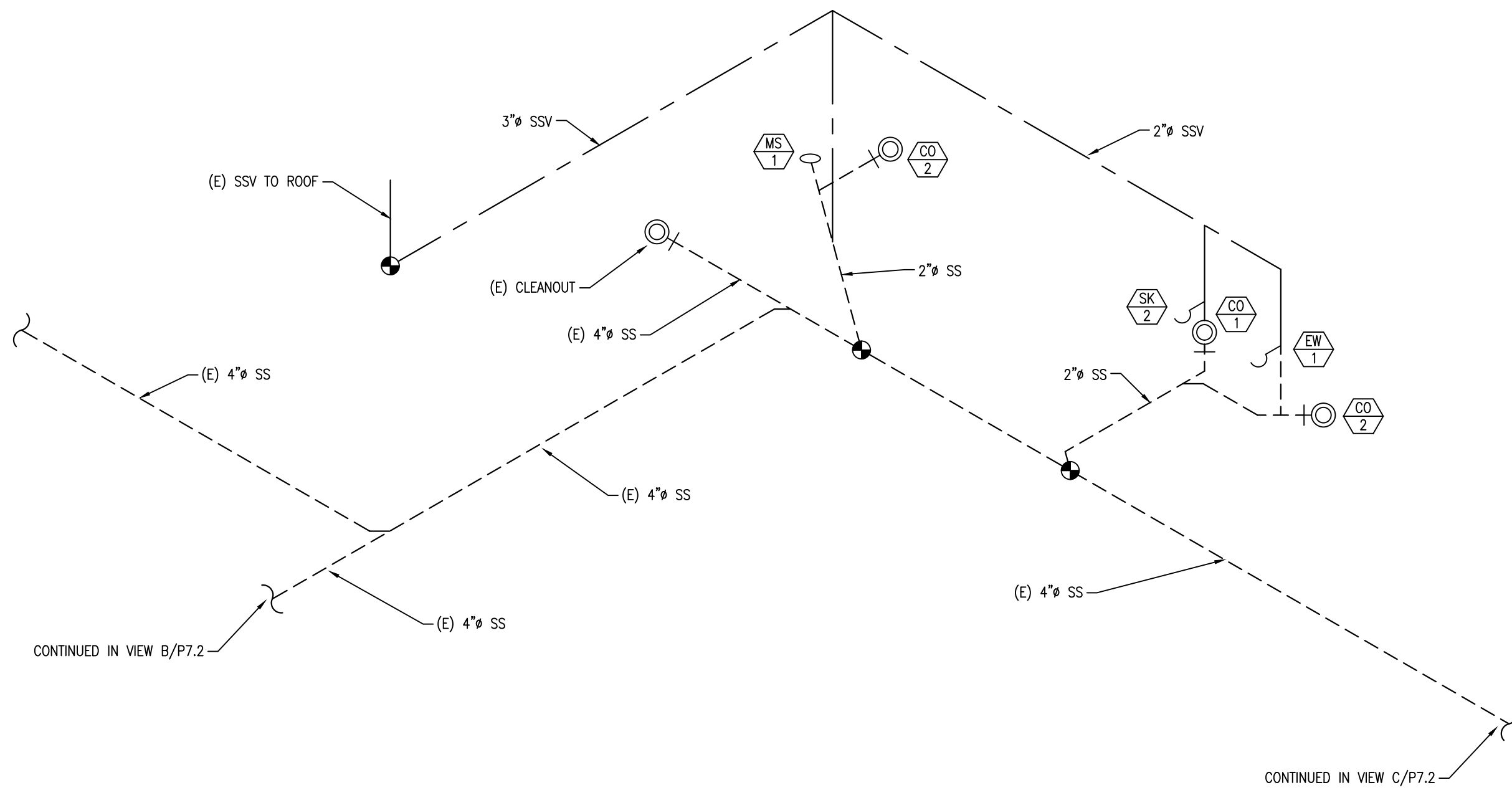
SHEET TITLE

PLUMBING
ISOMETRICS
SEWER & VENT

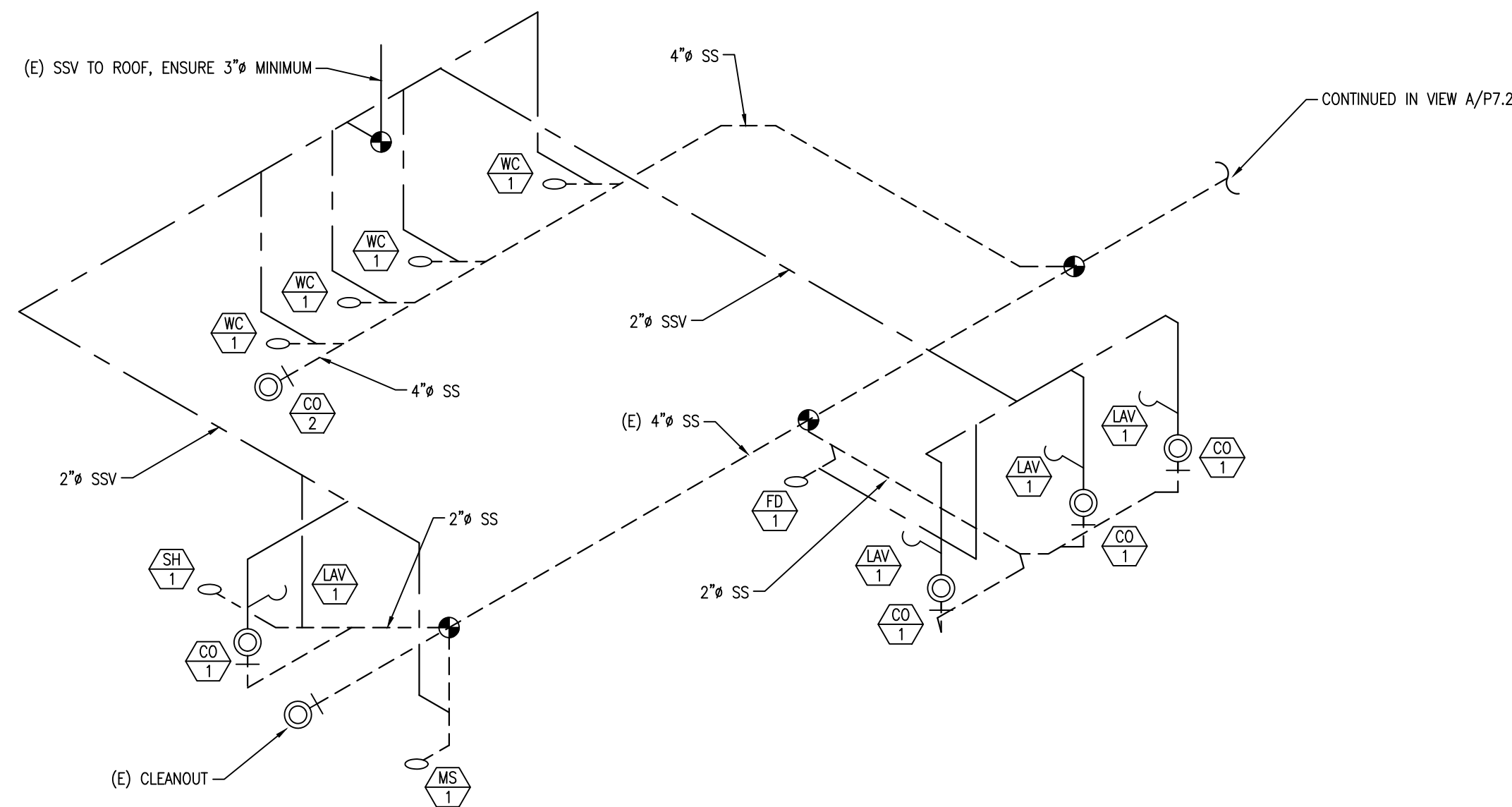
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P7.2

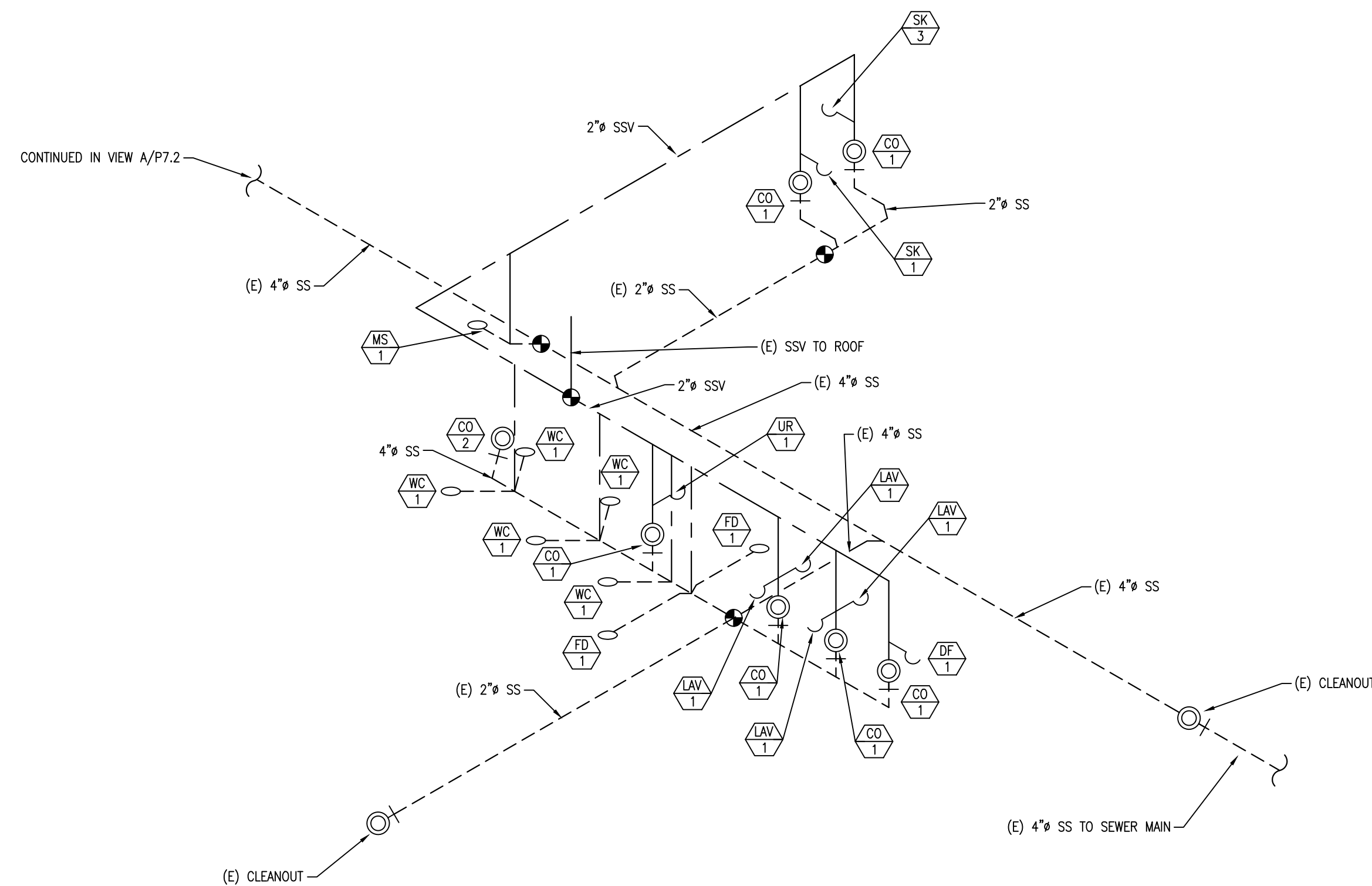
REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



A PLUMBING ISOMETRIC - VIEW A - SANITARY SEWER & VENTING
SCALE: NTS



B PLUMBING ISOMETRIC - VIEW B - SANITARY SEWER & VENTING
SCALE: NTS



C PLUMBING ISOMETRIC - VIEW C - SANITARY SEWER & VENTING
SCALE: NTS

MECHANICAL GENERAL NOTES	
1)	ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(ES) HAVING JURISDICTION: 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2025 CALIFORNIA BUILDING CODE (CBC), 2025 CALIFORNIA FIRE CODE (CFC), 2025 CALIFORNIA MECHANICAL CODE (CMC), 2025 CALIFORNIA PLUMBING CODE (CPC), 2025 CALIFORNIA ELECTRICAL CODE (CEC), 2025 CALIFORNIA ENERGY CODE (CENC), 2025 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
2)	CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD--VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
3)	DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
4)	IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY--OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
5)	DEFINITIONS: a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR. b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE. c. PROVIDE: FURNISH AND INSTALL. d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC. e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES, OR BURIED. f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE. g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FIXTURES, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE. h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
6)	CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.
7)	CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
8)	CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
9)	CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
10)	COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
11)	CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
12)	SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE--POURING CONCRETE.
13)	COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
14)	RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
15)	GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.
16)	PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
17)	ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
18)	MATERIALS AND EQUIPMENT: PROVIDE NEW, UL--LISTED, COMMERCIAL--GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
19)	INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS, CLEARANCES, ETC.
20)	LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
21)	ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.
22)	START--UP: THOROUGHLY TEST/DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.
23)	WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
24)	PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN. ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.
25)	AIR BALANCE: PROVIDE SERVICES NECESSARY TO VERIFY AIR QUANTITIES AND BALANCE FOR ESTABLISHED QUANTITIES AND UNIFORM TEMPERATURE IN THE SPACES SERVED. ADJUST ALL DAMPERS AND ELEMENTS IN GRILLES AND DIFFUSERS FOR PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS. COMPLY WITH SMACNA MANUAL FOR THE BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS.
26)	DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD.
27)	MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50, WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E84 OR UL 723
28)	ALL SUPPLY BRANCH DUCTS SHALL HAVE MANUAL VOLUME BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT
29)	PROVIDE CONICAL FITTINGS FOR ALL ROUND TO RECTANGULAR DUCTWORK CONNECTIONS
30)	PROVIDE TURNING VANES FOR RECTANGULAR DUCTWORK AT ALL HARD 90 DEGREE ELBOWS
31)	DUCTWORK SHALL MEET UL 181, CLASS I AND NFPA 90A AND 90B. DUCT SHALL BE INSTALLED STRAIGHT AND SUPPORT SPACING SHALL BE IN STRICT ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCTWORK TO BE 5' MAX LENGTH, AND SHALL BE EXTENDED TO THE FULLEST POSSIBLE LENGTH, IN ORDER TO MINIMIZE PRESSURE DROP IN THE DUCT. EXCESS DUCT LENGTHS SHALL BE SHORTENED TO PREVENT UNNECESSARY CHANGES IN DIRECTIONS, WHERE ABRUPT CHANGES IN DIRECTION ARE UNAVOIDABLE. USE ADJUSTABLE SHORT RADIUS SHEET METAL ELBOWS TO MAKE DIRECTION CHANGES. CONNECTIONS AT METAL DUCTS OR COLLARS SHALL BE MADE BY DRAW BANDS AND PRESSURE--SENSITIVE TAPE WITH THE DRAW BANDS TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AND ADJUSTABLE TENSIONING TOOL. USING PRESSURE--SENSITIVE TAPE ALONE WITHOUT DRAW BANDS IS NOT ACCEPTABLE. ALL PRESSURE--SENSITIVE TAPES AND MASTICS USED SHALL COMPLY WITH UL 181.
32)	HVAC EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION WITHOUT A FILTER INSTALLED TO PROTECT THE EVAPORATOR COIL. AFTER ALL CONSTRUCTION IS COMPLETED, ALL CONSTRUCTION FILTERS SHALL BE REMOVED AND NEW FILTERS SHALL BE INSTALLED.
33)	HVAC EQUIPMENT SHALL BE CERTIFIED BY THE MANUFACTURER FOR COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS.

MECHANICAL CALGREEN NOTES	
5.504.1	THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
5.504.3	AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
5.504.5.3	IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MERV OF 13.
5.506.1	FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF CENC 120.1, CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.
5.506.2	BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH CENC 120.1.
5.508.1	INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2
5.508.1.1	CHLOROFLUOROCARBONS (CFCs). INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs.
5.508.1.2	HALONS. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS.
5.410.4.5	PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.
5.410.4	TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.
5.410.4.3.1	BEFORE A NEW SPACE--CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHOULD BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1.

MECHANICAL SCOPE OF WORK	
1)	REPLACEMENT OF EXISTING GAS/ELECTRIC PACKAGED UNITS WITH NEW HEAT PUMP PACKAGED UNIT AND INSTALLATION OF ALL ASSOCIATED DUCTWORK, DAMPERS, AND GRILLES
2)	INSTALLATION OF NEW DUCTLESS MINI--SPLIT UNITS AND ALL ASSOCIATED PIPING
3)	INSTALLATION OF NEW EXHAUST SYSTEMS AND ALL ASSOCIATED DUCTWORK, DAMPERS, GRILLES, AND MAKE UP AIR LOUVERS
4)	EXISTING GAS/ELECTRIC PACKAGED UNITS ABOVE WAREHOUSE AND 2ND FLOOR OFFICE SHALL BE ABANDONED IN PLACE

MECHANICAL LEGEND	
	POC
	GAS POC
	COLD WATER POC
	CONDENSATE POC
	POWER AND CONTROL WIRING
	SWITCH
	THERMOSTAT
	CO2 SENSOR
	FLEX DUCT
	DAMPER
	DUCT REDUCER
	CEILING DIFFUSER -- TBAR
	CEILING DIFFUSER -- HARDLID
	SIDE/SPIRAL DIFFUSER/RETURN
	SLOT DIFFUSER/RETURN
	CEILING RETURN -- TBAR
	CEILING RETURN -- HARDLID
	EXHAUST GRILLE -- TBAR
	EXHAUST GRILLE -- HARDLID
	CEILING FIRE--SMOKE DAMPER
	FIRE--SMOKE DAMPER
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	DIAMETER
AC	AIR CONDITIONING
OC	ON CENTER
CFM	CUBIC FEET PER MINUTE
FA,TB	FROM ABOVE, TO BELOW
FB,TA	FROM BELOW, TO ABOVE
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
GA	GAUGE
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
BHP	BRAKE HORSEPOWER
MAX / MIN	MAXIMUM / MINIMUM
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SMS	SHEET METAL SCREW
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED

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August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.



5734 LoneTree Boulevard, Rocklin, CA 95765
Office: (916) 626-5518 www.oefcinc.com



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26
PROJECT NUMBER	25107
SHEET TITLE	
MECHANICAL GEN. NOTES	
SHEET NO.	

M0.0

REPLACED PACKAGED HEAT PUMP SCHEDULE																																				
TAG	MANU	MODEL	LOCATION	SERVES	TONS	REF	SUPPLY FAN					COOLING					HEATING		CONDENSER		COMPRESSOR		STRIP HEATER		ELECTRICAL			SEER2 (EER2) [EER]	HSPF2 (COP2)	MIN OUTSIDE AIR CFM		WEIGHT (LBS)	REMARKS			
							CFM	ESP	RPM	BHP	FLA	TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	MBH @47°F	MBH @17°F	QTY	FLA (EA)	QTY	RLA (EA)	KW	FLA	V-ø-Hz	MCA	MOCP			HI	LO					
PHP-1	CARRIER	50FEQA06	ROOF	RECEPTION, HALL, OFFICES	5.0	R-454B	2000	1.23"	2170	1.09	2.1	54.55	43.88	80°F	67°F	105°F	56.0	29.0	1	0.8	1	9.5	6.0	7.2	460-3-60	24	30	13.4 (11.5)	6.7 (3.7)	524	214	826	1, 2, 3, 4, 5, 7, 9, 11			
PHP-2	CARRIER	50FEQM07	ROOF	OFFICES, CONF, BREAK	6.0	R-454B	2400	1.26"	2352	1.38	2.6	65.34	51.63	80°F	67°F	105°F	63.0	34.5	1	0.8	1	9.6	6.0	7.2	460-3-60	25	30	(11.2) [15.0]	(3.4)	352	N/A	831	1, 2, 3, 4, 5, 6, 7, 10			
PHP-3	CARRIER	50FEQA05	ROOF	OPEN OFFICES, RR	4.0	R-454B	1600	1.18"	1990	0.85	1.7	43.31	34.77	80°F	67°F	105°F	45.0	22.0	1	0.8	1	6.0	6.0	7.2	460-3-60	19	20	13.4 (11.5)	6.7 (3.5)	263	N/A	715	1, 2, 3, 4, 5, 7, 8			
PHP-4	CARRIER	50FEQA06	ROOF	OFFICES, CONF, HALL	5.0	R-454B	2000	1.23"	2170	1.09	2.1	54.55	43.88	80°F	67°F	105°F	56.0	29.0	1	0.8	1	9.5	6.0	7.2	460-3-60	24	30	13.4 (11.5)	6.7 (3.7)	422	226	826	1, 2, 3, 4, 5, 7, 9, 11			
PHP-5	CARRIER	50FEQA04	ROOF	ELEC. WORKSHOP	3.0	R-454B	1200	1.07"	1999	0.58	1.2	31.31	24.2	80°F	67°F	105°F	34.0	18.0	1	0.8	1	5.8	6.0	7.2	460-3-60	19	20	13.4 (11.5)	6.7 (3.6)	120	N/A	714	1, 2, 3, 4, 5, 7, 12			
1)	PROVIDE UNIT WITH R-454B REFRIGERANT (SAFETY GROUP A2L, HIGH PROBABILITY SYSTEM) AND FACTORY INTEGRAL REFRIGERANT LEAK DETECTION SENSOR & CONTROLS					5)	PROVIDE WITH SUPPLEMENTARY ELECTRIC RESISTANCE STRIP HEAT AND CONTROLS COMPLIANT WITH CENC 110.2(B), POWER FOR STRIP HEAT PROVIDED BY UNIT																9)	PROVIDE WITH ULTRA LOW-LEAKAGE ECONOMIZER W/ MODULATING POWER EXHAUST AND FAULT DETECTION DIAGNOSTIC, PROVIDE SEPARATE POWER AND NON-FUSED DISCONNECT FOR CANFAB 1120-PE/MPE, 460V, 3ø, 1.5 FLA, 1.875 MCA, 3.375 MOCP												
2)	MOUNT ON (E) CURB TO REMAIN, CONTRACTOR SHALL FIELD VERIFY THE EXISTING CURB CONDITION AND DIMENSIONS PRIOR TO ORDERING NEW UNITS. PROVIDE REPLACEMENT CURB AS NEEDED					6)	PROVIDE WITH MINIMUM OF 2-STAGES OF MECHANICAL COOLING CAPACITY															10)	PROVIDE WITH ULTRA LOW-LEAKAGE ECONOMIZER W/ MODULATING POWER EXHAUST AND FAULT DETECTION DIAGNOSTIC, PROVIDE SEPARATE POWER AND NON-FUSED DISCONNECT FOR CANFAB 1120-PE/MPE, 460V, 3ø, 2.4 FLA, 3 MCA, 5.4 MOCP													
3)	PROVIDE INDOOR FAN WITH DIRECT DRIVE (ECM), MED STATIC MOTOR					7)	PROVIDE SA DUCT SMOKE DETECTOR PER CMC 609.1, COORDINATE WITH THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL INTERRUPT THE POWER SOURCE OF ALL AIR-MOVING EQUIPMENT AND SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION PER CFC 907.3.1															11)	PROVIDE WITH DEMAND CONTROL VENTILATION (DCV) CO2 SENSOR, THE RATE OF OUTDOOR AIR MAY BE REDUCED TO THE MINIMUM 'LO' LEVEL IF THE CO2 SENSOR IS SATISFIED PER CENC 120.1													
4)	LOW SPEED SUPPLY FAN SETTING SHALL BE LOCKED OUT, UNIT SHALL OPERATE AS SINGLE ZONE. CONSTANT VOLUME DURING OCCUPIED HOURS. CONTRACTOR SHALL COORDINATE WITH THE HVAC UNIT FACTORY REPRESENTATIVE TO ACCOMPLISH SINGLE ZONE CONSTANT VOLUME OPERATION					8)	PROVIDE WITH ULTRA LOW-LEAKAGE ECONOMIZER W/ MODULATING POWER EXHAUST AND FAULT DETECTION DIAGNOSTIC, PROVIDE SEPARATE POWER AND NON-FUSED DISCONNECT FOR CANFAB 1120-PE/MPE, 460V, 3ø, 1.2 FLA, 1.5 MCA, 2.7 MOCP															12)	PROVIDE WITH ULTRA LOW-LEAKAGE ECONOMIZER W/ BAROMETRIC RELIEF AND FAULT DETECTION DIAGNOSTIC													

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BUREAU VERITAS NORTH AMERICA, INC.

MINI-SPLIT HEAT PUMP SCHEDULE																																
OUTDOOR UNIT															INDOOR UNIT															SEER2 (EER2)	HSPF2	REMARKS
TAG	MANU	MODEL	LOCATION	TONS	REF	COOLING			HEATING		ELECTRICAL				WEIGHT (LBS)	TAG	TYPE	MANU	MODEL	LOCATION	SERVES	TONS	CFM	FAN FLA	WEIGHT (LBS)							
						TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	MBH Ø47°F	MBH Ø17°F	V-ø-Hz	COND FLA		COMP RLA	MCA	MOCP														
HP-1	mitsubishi	PUZ-AK12NL	ROOF	1.0	R-454B	12.0	8.76	80°F	67°F	95°F	18.0	9.4	208-1-60	0.5	7	16.0	27	99	FC-1	DUCTLESS	mitsubishi	PKA-AL12NL	ELECTRICAL 180	ELECTRICAL 180	1.0	385	0.19	28	21.1 (14.8)	10.1	1, 2, 3, 4, 5	
HP-2	mitsubishi	PUZ-AH24NL	ROOF	2.0	R-454B	24.0	17.28	80°F	67°F	95°F	28.0	15.3	208-1-60	0.4	7	22.0	37	155	FC-2	DUCTLESS	mitsubishi	PKA-AK24NL	SCADA 122	SCADA 122	2.0	775	0.36	46	21.1 (12.0)	9.2	1, 2, 3, 4, 5	
HP-3	mitsubishi	PUZ-AK12NL	ROOF	1.0	R-454B	12.0	8.76	80°F	67°F	95°F	18.0	9.4	208-1-60	0.5	7	16.0	27	99	FC-3	DUCTLESS	mitsubishi	PKA-AL12NL	SERVER 171	SERVER 171	1.0	385	0.19	28	21.1 (14.8)	10.1	1, 2, 3, 4, 5	
1)	PROVIDE UNIT WITH R-454B REFRIGERANT (SAFETY GROUP A2L, HIGH PROBABILITY SYSTEM), TOTAL CHARGE IS LESS THAN 6.6 LBS MEETING ASHRAE 15 CHAPTER 7.3.1 SINCE UNIT IS NOT INSTALLED IN A PUBLIC CORRIDOR/LOBBY AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER LISTING REQUIREMENTS										2) MOUNT OUTDOOR UNIT ON SLEEPERS										4) MOUNT INDOOR UNIT ON WALL, MINIMUM 7" AFF U.O.N.											
											3) INDOOR UNIT IS POWERED VIA OUTDOOR UNIT										5) PROVIDE WITH INTEGRAL CONDENSATE PUMP											

RIGID DUCT SCHEDULE			
TYPE	DUCT SIZE (IN.)	MINIMUM THICKNESS (IN.)	GALVANIZED GAUGE NO.
ROUND	≤14	0.0157	28
	16-18	0.0187	26
	≥20	0.0236	24
RECTANGULAR	≤14	0.0157	28
	>14	0.0187	26

EXHAUST FAN SCHEDULE															
TAG	MANU.	MODEL	MOUNTING TYPE	SERVES	CFM	E.S.P.	RPM	ELECTRICAL					SONES	WEIGHT (LBS.)	REMARKS
								V-ø-Hz	WATTS	AMPS	BHP	HP			
EF-1	PANASONIC	FV-0511VF1	CEILING	JANITOR	50	0.10"	795	115-1-60	4.0	0.08	-	-	<0.3	9.5	2, 6
EF-2	GREENHECK	CSP-A700-VG	INLINE	RESTROOMS	400	0.25"	875	115-1-60	48	4.1	-	-	0.5	39	2, 4, 5
EF-3	GREENHECK	G-240-VG	ROOF	NORTH SIDE WAREHOUSE	6200	0.17"	720	208-3-60	-	12.6	0.9	2	14.5	217	1, 3, 4, 5
EF-4	GREENHECK	G-100-VG	ROOF	MACHINE SHOP	600	0.25"	971	115-1-60	-	3.8	0.05	1/4	4.1	104	1, 3, 4, 5
EF-5	GREENHECK	G-200-VG	ROOF	WORKSHOP HOOD	2400	0.39"	654	208-1-60	-	8.0	0.3	1	7.1	173	1, 3, 4, 5
EF-6	GREENHECK	G-240-VG	ROOF	SOUTH SIDE WAREHOUSE	6500	0.18"	754	208-3-60	-	12.6	1.04	2	15.5	217	1, 3, 4, 5
EF-7	GREENHECK	G-100-VG	ROOF	WAREHOUSE RESTROOMS	560	0.26"	916	115-1-60	-	3.8	0.04	1/4	3.4	104	1, 2, 4, 5
1)	MOUNT UNIT ON MANUFACTURER CURB							4) PROVIDE WITH BACKDRAFT DAMPER							
2)	FAN TO OPERATE DURING NORMAL BUSINESS HOURS VIA TIMESWITCH							5) E.S.P. LISTED INCLUDES BACKDRAFT DAMPER PRESSURE DROP							
3)	PROVIDE STARTER/SPEED CONTROLLER, COORDINATE CONTROL REQUIREMENTS WITH OWNER							6) FAN SHALL INCLUDE AN INTEGRAL BACKDRAFT DAMPER							

AIR TERMINAL DEVICE SCHEDULE							
TAG	TYPE	MANU.	MODEL	MOUNTING LOCATION	FRAME	MODULE SIZE	REMARKS
CD-1	CEILING DIFFUSER	TITUS	PCS	CEILING	BORDER TYPE 3	24"x24"	LAY IN, PERFORATED STEEL DIFFUSER WITH 4-WAY DEFLECTION
CD-2	CEILING DIFFUSER	TITUS	MCD	CEILING	BORDER TYPE 1	SEE PLANS	SURFACE MOUNT, STEEL DIFFUSER WITH 4-WAY DEFLECTION, PROVIDE WITH MODEL AG-95 OPPOSED BLADE DAMPER
CR-1	CEILING RETURN	TITUS	PAR	CEILING	BORDER TYPE 3	24"x24"	LAY IN, STEEL PERFORATED GRILLE
CE-1	CEILING EXHAUST	TITUS	50F	CEILING	BORDER TYPE 1	SEE PLANS	SURFACE MOUNT, ALUMINUM EGGRATE GRILLE
CE-2	CEILING EXHAUST	TITUS	50F	CEILING	BORDER TYPE 1	SEE PLANS	SURFACE MOUNT, ALUMINUM EGGRATE GRILLE, PROVIDE WITH RECESSED SCREWDRIVER OPERATED OPPOSED BLADE DAMPER

INTAKE LOUVER SCHEDULE													
TAG	MANU.	MODEL	LOCATION	SERVES	CFM	E.S.P.	DIMENSIONS	THROAT VELOCITY (FPM)	WEIGHT (LBS.)	REMARKS			
IL-1	GREENHECK	EAD-635 (22X48)	NORTH WALL	NORTH WAREHOUSE	1240	0.01"	22"x48"	334	30	1, 2,	4		
IL-2	GREENHECK	EAD-635 (22X48)	NORTH WALL	NORTH WAREHOUSE	1240	0.01"	22"x48"	334	30	1, 2,	4		
IL-3	GREENHECK	EAD-635 (22X48)	NORTH WALL	NORTH WAREHOUSE	1240	0.01"	22"x48"	334	30	1, 2,	4		
IL-4	GREENHECK	EAD-635 (22X48)	NORTH WALL	NORTH WAREHOUSE	1240	0.01"	22"x48"	334	30	1, 2,	4		
IL-5	GREENHECK	EAD-635 (22X48)	NORTH WALL	NORTH WAREHOUSE	1240	0.01"	22"x48"	334	30	1, 2,	4		
IL-6	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1250	0.01"	22"x48"	337	30	1,	3, 4		
IL-7	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1250	0.01"	22"x48"	337	30	1,	3, 4		
IL-8	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1250	0.01"	22"x48"	337	30	1,	3, 4		
IL-9	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1260	0.01"	22"x48"	337	30	1,	3, 4		
IL-10	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1260	0.01"	22"x48"	337	30	1,	3, 4		
IL-11	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1260	0.01"	22"x48"	337	30	1,	3, 4		
IL-12	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1260	0.01"	22"x48"	337	30	1,	3, 4		
IL-13	GREENHECK	EAD-635 (22X48)	NORTH WALL	SOUTH WAREHOUSE	1260	0.01"	22"x48"	337	30	1,	3, 4		
1)	COORDINATE EXACT LOCATION OF LOUVER IN WALL WITH ARCHITECT AND OWNER'S REPRESENTATIVE, ENSURE LOUVER FITS WITHIN EXISTING FRAMING					3)	LOUVER TO BE INTERLOCKED WITH EXHAUST FANS EF-4, EF-5, EF-6, EF-7						
2)	LOUVER TO BE INTERLOCKED WITH EXHAUST FANS EF-3					4)	PROVIDE WITH DAMPER, RUSKIN RLH-120 ELECTRIC 120V DAMPER ACTUATOR						

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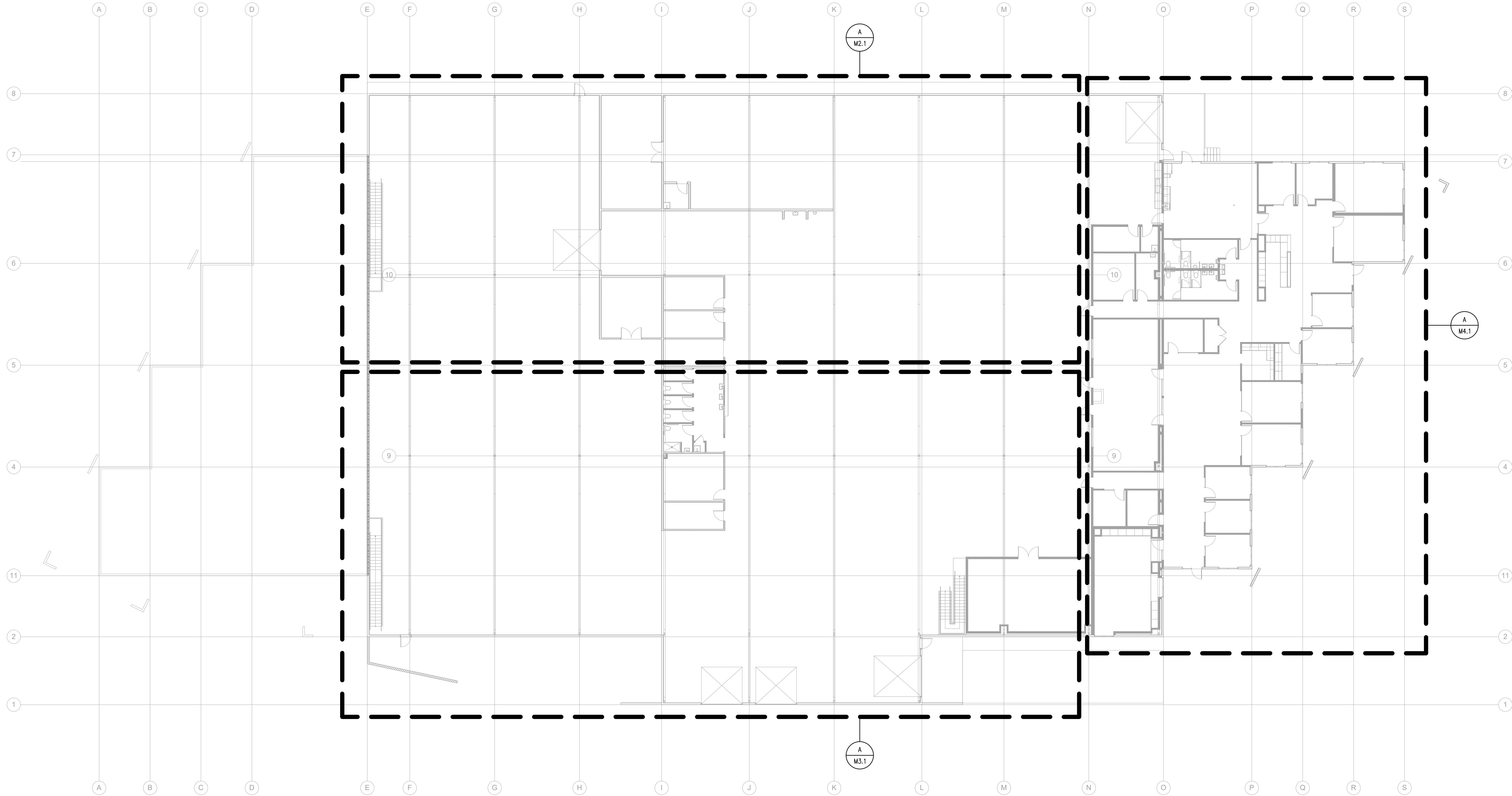
N.I.D. HYDRO OFFICE RENOVATION
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
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PROJECT NUMBER 25107

SHEET TITLE
MECHANICAL PLAN
OVERALL
1ST FLOOR

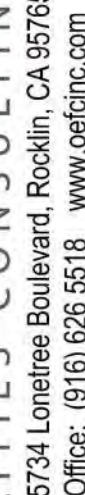
SHEET NO.
M1.1



A MECHANICAL PLAN - OVERALL - 1ST FLOOR
SCALE: 1/16"=1'-0"



BUREAU VERITAS NORTH AMERICA, INC



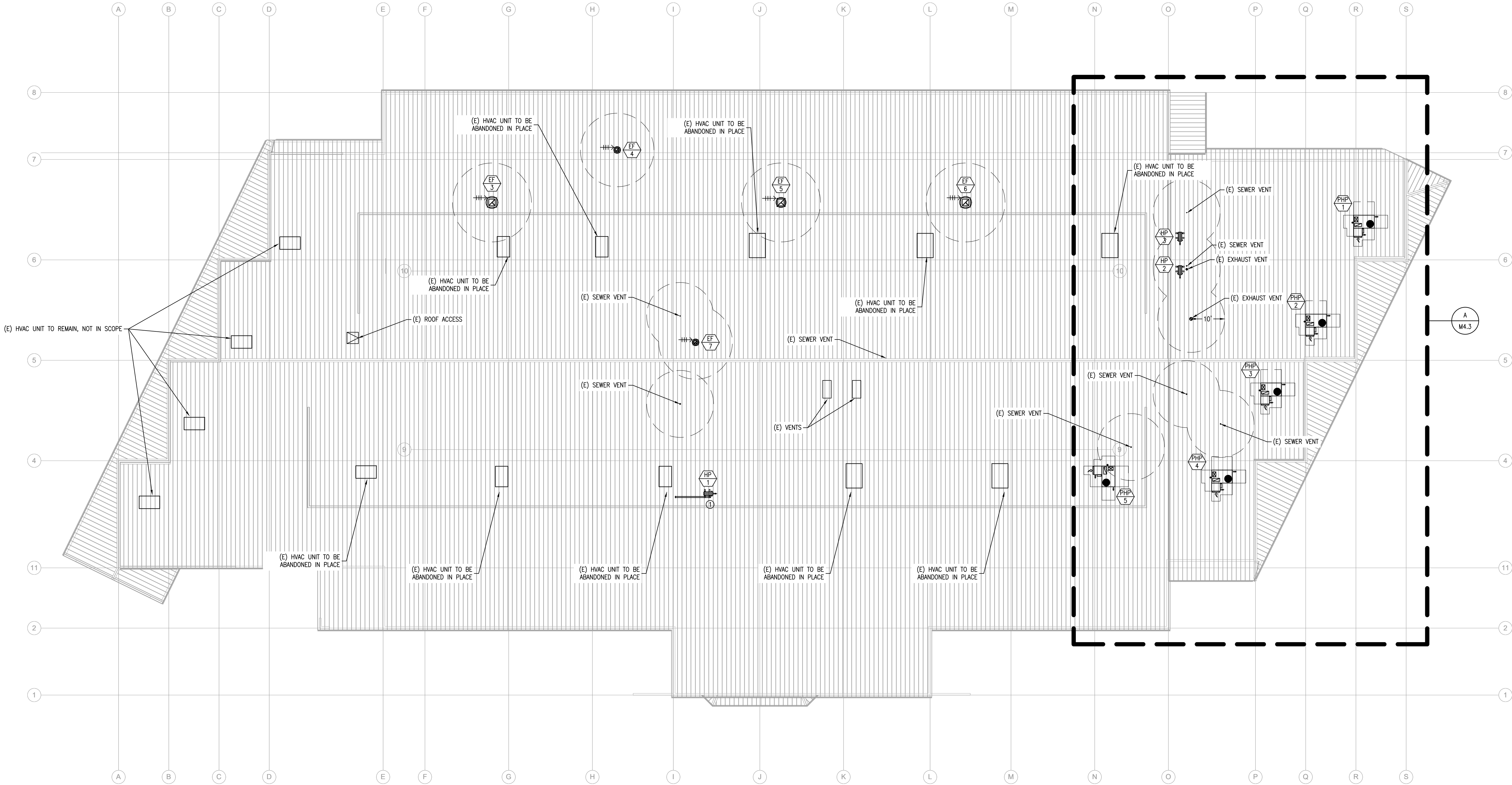
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

PROJECT NUMBER 25107

SHEET NO.

SCALE: 1/16"=1'-0"





SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
- HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.6
- CONTRACTOR SHALL VERIFY ALL A2L REFRIGERANT-CONTAINING SYSTEMS MEET THE REQUIREMENTS OF ASHRAE 15, INCLUDING ALL REFRIGERANT LEAK DETECTION SENSORS, SAFETY SHUT-OFF VALVES, AND VENTILATION, AS REQUIRED
- PROVIDE NAMEPLATE FOR EACH SELF-CONTAINED REFRIGERATION SYSTEM PER CMC 1115.5, WHICH INCLUDES A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS BEING USED PER CMC 1104.6.2.1. PROVIDE LABEL ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED PER CMC 1104.6.2.2
- CONTRACTOR SHALL FIELD VERIFY THE EXACT REFRIGERANT PIPE ROUTING, PIPE SIZING, AND TOTAL SYSTEM REFRIGERANT CHARGE (LBS) AND ENSURE COMPLIANCE WITH CMC 1102
- OUTDOOR AIR INTAKES SHALL MEET THE REQUIREMENTS OF CMC 402.4, INCLUDING MINIMUM SEPARATION DISTANCES PER CMC TABLE 402.4.1
- ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- LIQUID AND SUCTION REFRIGERANT LINE SETS PER MANUFACTURER REQUIREMENTS

A MECHANICAL PLAN - OVERALL - ROOF
SCALE: 1/16"=1'-0"



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

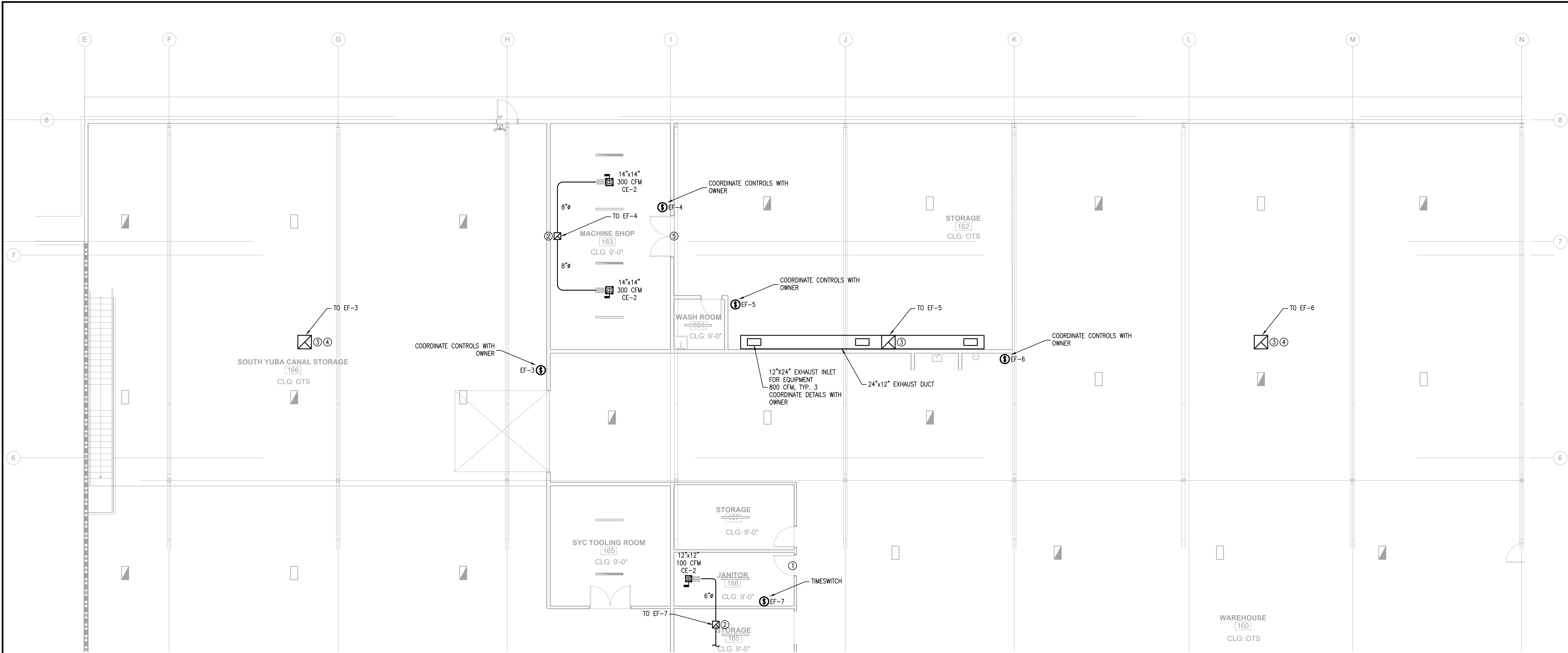
PROJECT NUMBER 25107

SHEET TITLE

MECHANICAL PLAN
OVERALL
ROOF

SHEET NO.

M1.3



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
- HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.6
- ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
- CONCEALED DUCTWORK SHALL BE RIGID GALVANIZED METAL INSTALLED PER CMC 603.1 AND 603.3. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. DUCTWORK SHALL BE INSULATED WITH MINIMUM R-4.2. DUCTWORK LOCATED OUTDOORS, IN UNCONDITIONED SPACES, OR ABOVE INSULATED CEILINGS TO BE R-8 PER CENC 120.4(A). FLEX DUCT CONNECTORS PER CMC 603.4 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1
- EXPOSED DUCTWORK SHALL BE MINIMUM 28 GAUGE GALVANIZED SPIRAL. SEE RIGID DUCTWORK CONSTRUCTION TABLE. MOUNT DUCTWORK AS CLOSE TO FRAMING AS POSSIBLE U.O.N. CONTRACTOR TO VERIFY HEIGHT WITH OWNER BEFORE INSTALLATION AND CONSULT MEOR IF MOUNTING HEIGHT DIFFERS FROM ORIGINAL DESIGN
- DUCT RISERS SHALL BE INTERNALLY LINED WITH R-8, DUCT SIZES SHOWN ON PLANS ARE THE OUTER DIMENSIONS AND BASED ON 2 INCH THICK INSULATION

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

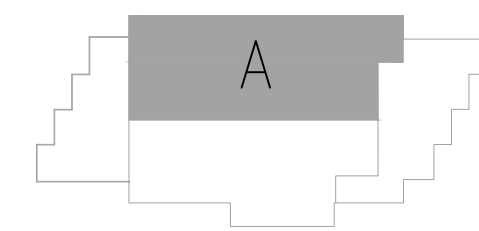
KEY NOTES:

- UNDERCUT DOOR FOR EXHAUST MAKEUP AIR
- 12"x12" EXHAUST RISER FROM EXHAUST FAN ON ROOF
- 24"x24" EXHAUST RISER FROM EXHAUST FAN ON ROOF
- EXTEND EXHAUST RISER FROM FAN ON ROOF INTO WAREHOUSE SPACE AND PROVIDE INTAKE WITH BIRDSCREEN
- PROVIDE (2) LOUVERS IN DOUBLE DOOR (ONE ON EACH DOOR) FOR EXHAUST MAKE-UP AIR. MINIMUM SIZE OF 18"x18" EACH

A MECHANICAL PLAN - VIEW A - 1ST FLOOR
SCALE: 1/8"=1'-0"



NORTH



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

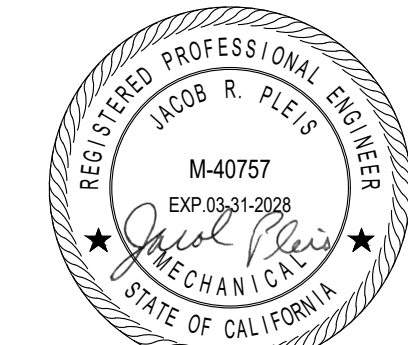
PROJECT NUMBER 25107

SHEET TITLE

MECHANICAL PLAN
VIEW A
1ST FLOOR

SHEET NO.

M2.1



DATE SIGNED 07-03-26

OPTIMIZED ENERGY
& FACILITIES CONSULTING, INC.
5734 LoneTree Boulevard, Rocklin, CA 95765
Office: (916) 626-5518 www.oefcinc.com

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
- HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.8.
- CONTRACTOR SHALL VERIFY ALL A2L REFRIGERANT-CONTAINING SYSTEMS MEET THE REQUIREMENTS OF ASHRAE 15, INCLUDING ALL REFRIGERANT LEAK DETECTION SENSORS, SAFETY SHUT-OFF VALVES, AND VENTILATION, AS REQUIRED.
- PROVIDE NAMEPLATE FOR EACH SELF-CONTAINED REFRIGERATION SYSTEM PER CMC 1115.5, WHICH INCLUDES A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS BEING USED PER CMC 1104.6.2.1. PROVIDE LABEL ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED PER CMC 1104.6.2.2.
- CONTRACTOR SHALL FIELD VERIFY THE EXACT REFRIGERANT PIPE ROUTING, PIPE SIZING, AND TOTAL SYSTEM REFRIGERANT CHARGE (LBS) AND ENSURE COMPLIANCE WITH CMC 1102.
- PROVIDE SMOKE DETECTORS IN THE MAIN SUPPLY AIR DUCT(S) FOR AIR-MOVING SYSTEMS IN EXCESS OF 2000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS PER CMC 609.1.
- THERMOSTATS TO BE INSTALLED AT 48" A.F.F. (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVING OVER 24" IN DEPTH AND 34" IN HEIGHT. COORDINATE EXACT LOCATION WITH OWNER.
- ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
- CONCEALED DUCTWORK SHALL BE RIGID GALVANIZED METAL INSTALLED PER CMC 603.1 AND 603.3. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. DUCTWORK SHALL BE INSULATED WITH MINIMUM R-4.2. DUCTWORK LOCATED OUTDOORS, IN UNCONDITIONED SPACES, OR ABOVE INSULATED CEILINGS TO BE R-8 PER CENC 120.4(c). FLEX DUCT CONNECTORS PER CMC 603.4 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1.
- EXPOSED DUCTWORK SHALL BE MINIMUM 28 GAUGE GALVANIZED SPIRAL. SEE RIGID DUCTWORK CONSTRUCTION TABLE. MOUNT DUCTWORK AS CLOSE TO FRAMING AS POSSIBLE U.O.N. CONTRACTOR TO VERIFY HEIGHT WITH OWNER BEFORE INSTALLATION AND CONSULT MEOR IF MOUNTING HEIGHT DIFFERS FROM ORIGINAL DESIGN.
- DUCT RISERS SHALL BE INTERNALLY LINED WITH R-8. DUCT SIZES SHOWN ON PLANS ARE THE OUTER DIMENSIONS AND BASED ON 2 INCH THICK INSULATION.

KEY NOTES:

- UNDERCUT DOOR FOR EXHAUST MAKEUP AIR
- LIQUID AND SUCTION REFRIGERANT LINE SETS PER MANUFACTURER REQUIREMENTS
- INSTALL LOCKBOX FOR THERMOSTAT ON WALL
- COORDINATE EXACT LOCATION OF INTAKE LOUVER IN FIELD, ENSURE LOUVER FITS WITHIN FRAMING OF EXTERIOR WALL



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

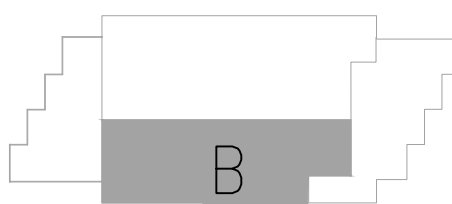
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	MECHANICAL PLAN VIEW B 1ST FLOOR

SHEET NO.	M3.1
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A MECHANICAL PLAN - VIEW B - 1ST FLOOR
SCALE: 1/8"=1'-0"





A MECHANICAL PLAN - VIEW C - 1ST FLOOR
SCALE: 1/8"=1'-0"

SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
- HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.8.
- CONTRACTOR SHALL VERIFY ALL A2L REFRIGERANT-CONTAINING SYSTEMS MEET THE REQUIREMENTS OF ASHRAE 15, INCLUDING ALL REFRIGERANT LEAK DETECTION SENSORS, SAFETY SHUT-OFF VALVES, AND VENTILATION, AS REQUIRED.
- PROVIDE NAMEPLATE FOR EACH SELF-CONTAINED REFRIGERATION SYSTEM PER CMC 1115.5, WHICH INCLUDES A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS BEING USED PER CMC 1104.6.2.1. PROVIDE LABEL ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED PER CMC 1104.6.2.2.
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- PROVIDE SMOKE DETECTORS IN THE MAIN SUPPLY AIR DUCT(S) FOR AIR-MOVING SYSTEMS IN EXCESS OF 2000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS PER CMC 609.1.
- THERMOSTATS TO BE INSTALLED AT 48" A.F.F. (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVING OVER 24" IN DEPTH AND 34" IN HEIGHT. COORDINATE EXACT LOCATION WITH OWNER.
- ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
- CONCEALED DUCTWORK SHALL BE RIGID GALVANIZED METAL INSTALLED PER CMC 603.1 AND 603.3. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. DUCTWORK SHALL BE INSULATED WITH MINIMUM R-4.2. DUCTWORK LOCATED OUTDOORS, IN UNCONDITIONED SPACES, OR ABOVE INSULATED CEILINGS TO BE R-8 PER CMC 120.4(A). FLEX DUCT CONNECTORS PER CMC 603.4 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1.
- DUCT RISERS SHALL BE INTERNALLY LINED WITH R-8. DUCT SIZES SHOWN ON PLANS ARE THE OUTER DIMENSIONS AND BASED ON 2 INCH THICK INSULATION.
- ALL HARD 90° ELBOWS SHALL BE INSTALLED WITH TURNING VANES.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- UNDERCUT DOOR FOR EXHAUST MAKEUP AIR
- UNDERCUT DOOR FOR RETURN MAKEUP AIR
- LIQUID AND SUCTION REFRIGERANT LINE SETS PER MANUFACTURER REQUIREMENTS
- INSTALL THERMOSTAT WITH INTEGRAL CO2 SENSOR OR INSTALL SEPARATE CO2 SENSOR ADJACENT TO THERMOSTAT ON WALL
- 18"x21" SUPPLY AIR AND 16"x30" RETURN AIR RISERS FROM HVAC UNIT ON ROOF



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26
PROJECT NUMBER	25107
SHEET TITLE	MECHANICAL PLAN VIEW C 1ST FLOOR
SHEET NO.	M4.1

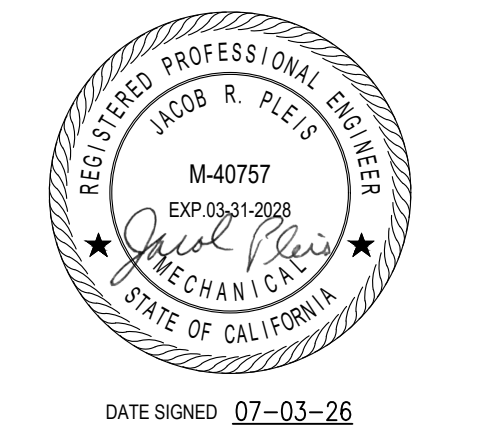
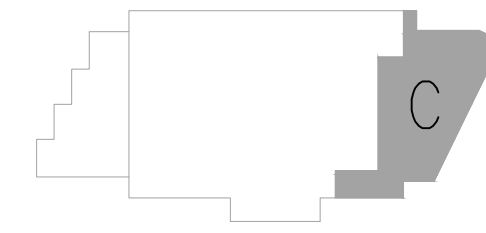


- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
 - PROVIDE SMOKE DETECTORS IN THE MAIN SUPPLY AIR DUCT(S) FOR AIR-MOVING SYSTEMS IN EXCESS OF 2000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS PER CMC 609.1
 - EXPOSED DUCTWORK SHALL BE MINIMUM 28 GAUGE GALVANIZED SPIRAL. SEE RIGID DUCTWORK CONSTRUCTION TABLE. MOUNT DUCTWORK AS CLOSE TO FRAMING AS POSSIBLE U.O.N. CONTRACTOR TO VERIFY HEIGHT WITH OWNER BEFORE INSTALLATION AND CONSULT MEOR IF MOUNTING HEIGHT DIFFERS FROM ORIGINAL DESIGN
 - DUCT RISERS SHALL BE INTERNALLY LINED WITH R-8. DUCT SIZES SHOWN ON PLANS ARE THE OUTER DIMENSIONS AND BASED ON 2 INCH THICK INSULATION
 - ALL HARD 90° ELBOWS SHALL BE INSTALLED WITH TURNING VANES
 - CONCEALED DUCTWORK SHALL BE RIGID GALVANIZED METAL INSTALLED PER CMC 603.1 AND 603.3. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. DUCTWORK SHALL BE INSULATED WITH MINIMUM R-4.2. DUCTWORK LOCATED OUTDOORS, IN UNCONDITIONED SPACES, OR ABOVE INSULATED CEILINGS TO BE R-8 PER CENC 120.4(A). FLEX DUCT CONNECTORS PER CMC 603.4 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1

- KEY NOTES:**
- 16"x18" SUPPLY AIR AND 16"x30" RETURN AIR RISERS FROM HVAC UNIT ON ROOF

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

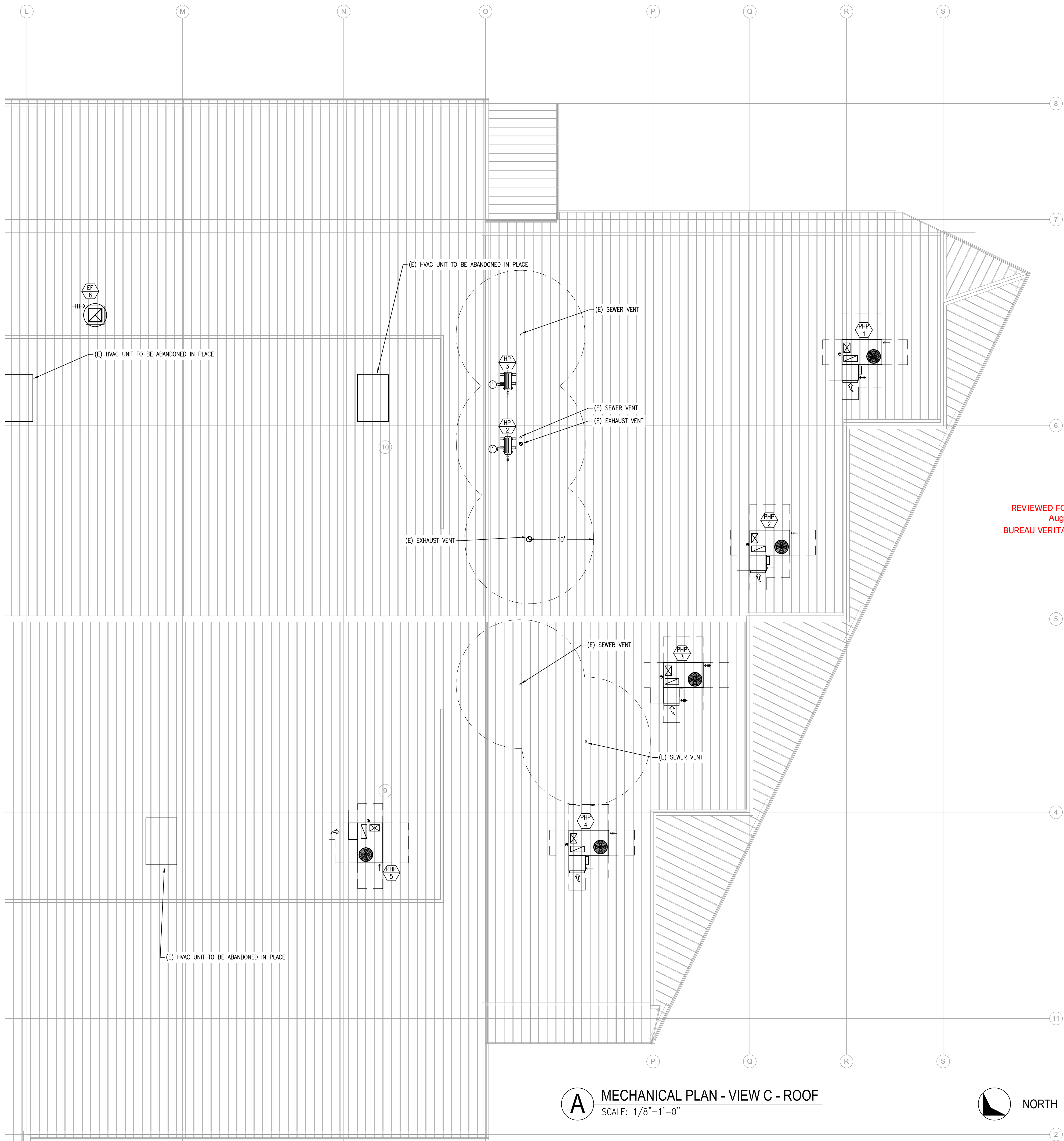
A MECHANICAL PLAN - VIEW C - MEZZANINE
SCALE: 1/8"=1'-0"



N.I.D. HYDRO OFFICE RENOVATION
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	MECHANICAL PLAN VIEW C MEZZANINE
SHEET NO.	M4.2



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
- HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.6
- CONTRACTOR SHALL VERIFY ALL A2L REFRIGERANT-CONTAINING SYSTEMS MEET THE REQUIREMENTS OF ASHRAE 15, INCLUDING ALL REFRIGERANT LEAK DETECTION SENSORS, SAFETY SHUT-OFF VALVES, AND VENTILATION, AS REQUIRED
- PROVIDE NAMEPLATE FOR EACH SELF-CONTAINED REFRIGERATION SYSTEM PER CMC 1115.5, WHICH INCLUDES A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS BEING USED PER CMC 1104.6.2.1. PROVIDE LABEL ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED PER CMC 1104.6.2.2
- CONTRACTOR SHALL FIELD VERIFY THE EXACT REFRIGERANT PIPE ROUTING, PIPE SIZING, AND TOTAL SYSTEM REFRIGERANT CHARGE (LBS) AND ENSURE COMPLIANCE WITH CMC 1102
- OUTDOOR AIR INTAKES SHALL MEET THE REQUIREMENTS OF CMC 402.4, INCLUDING MINIMUM SEPARATION DISTANCES PER CMC TABLE 402.4.1
- ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- LIQUID AND SUCTION REFRIGERANT LINE SETS PER MANUFACTURER REQUIREMENTS



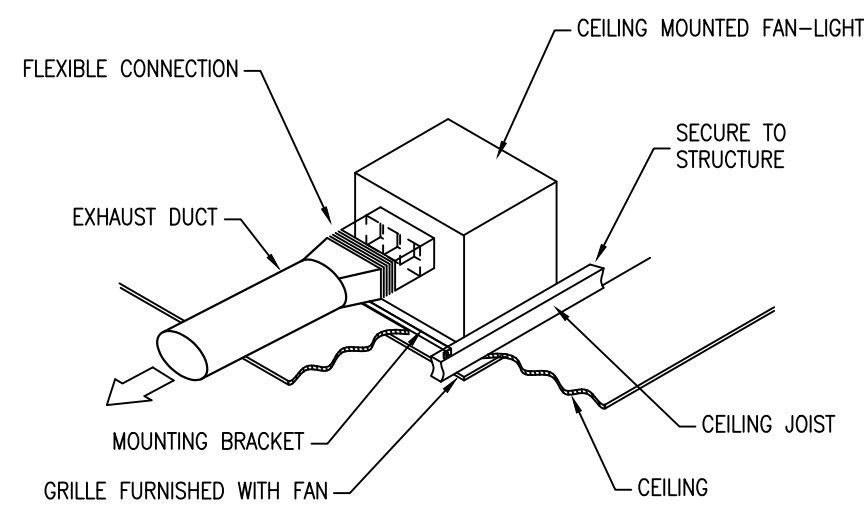
DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

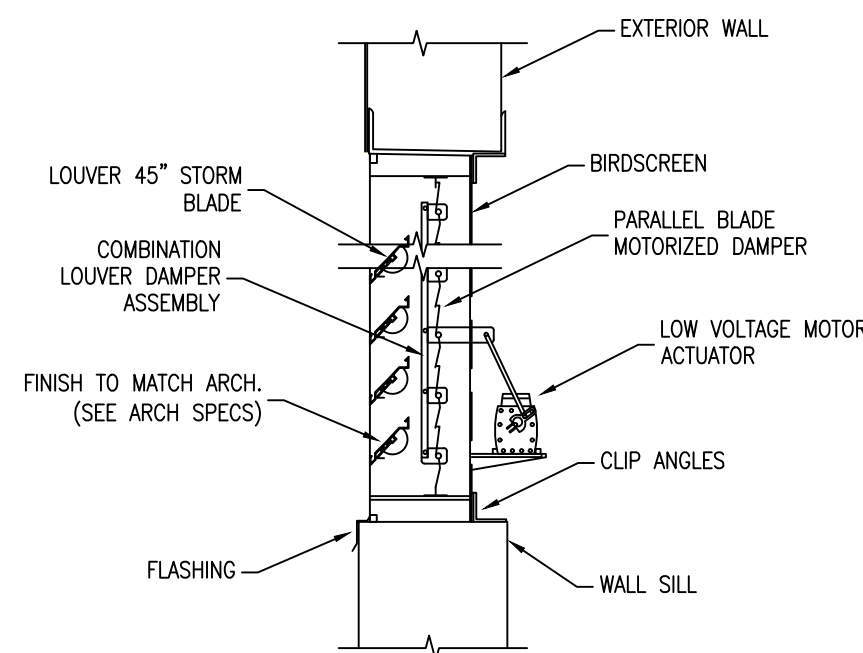
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107
SHEET TITLE MECHANICAL PLAN VIEW C ROOF
SHEET NO. M4.3



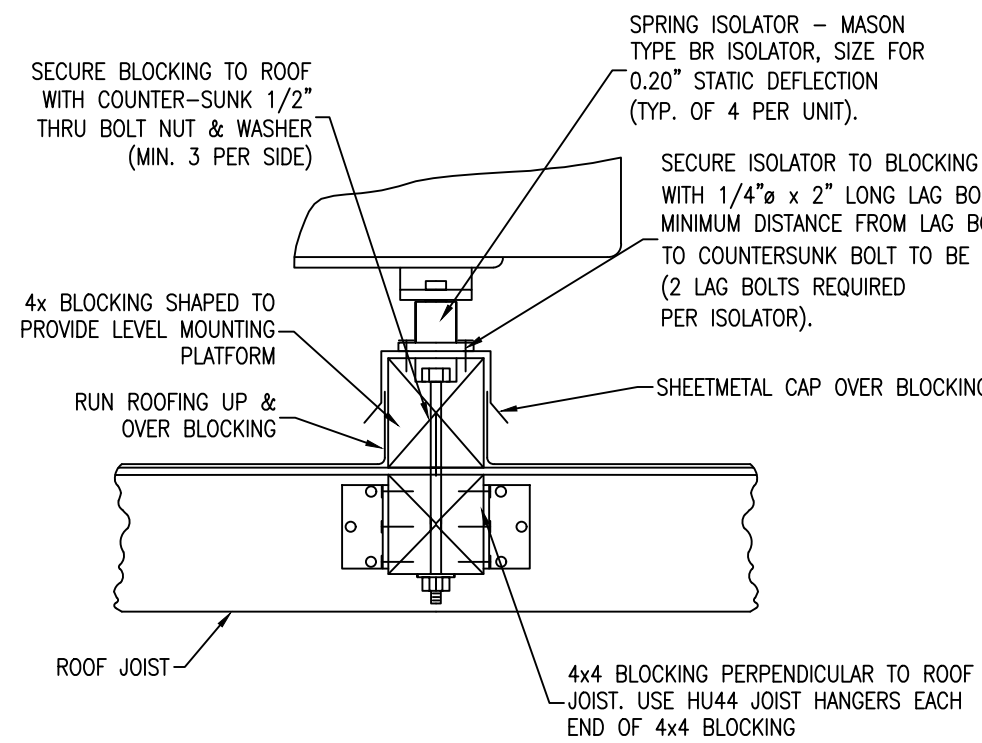
CEILING EXHAUST FAN

1



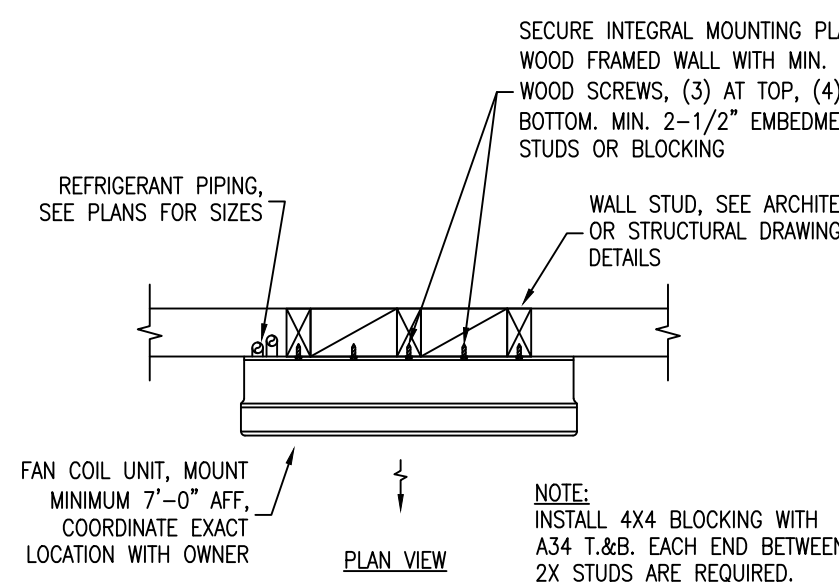
INTAKE LOUVER

2



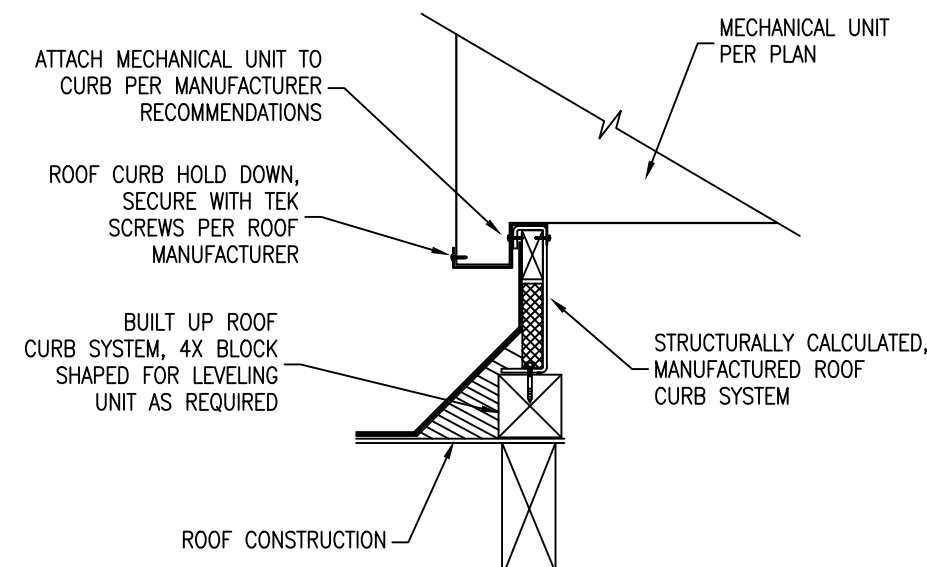
MECH UNIT SLEEPER MOUNTING

3



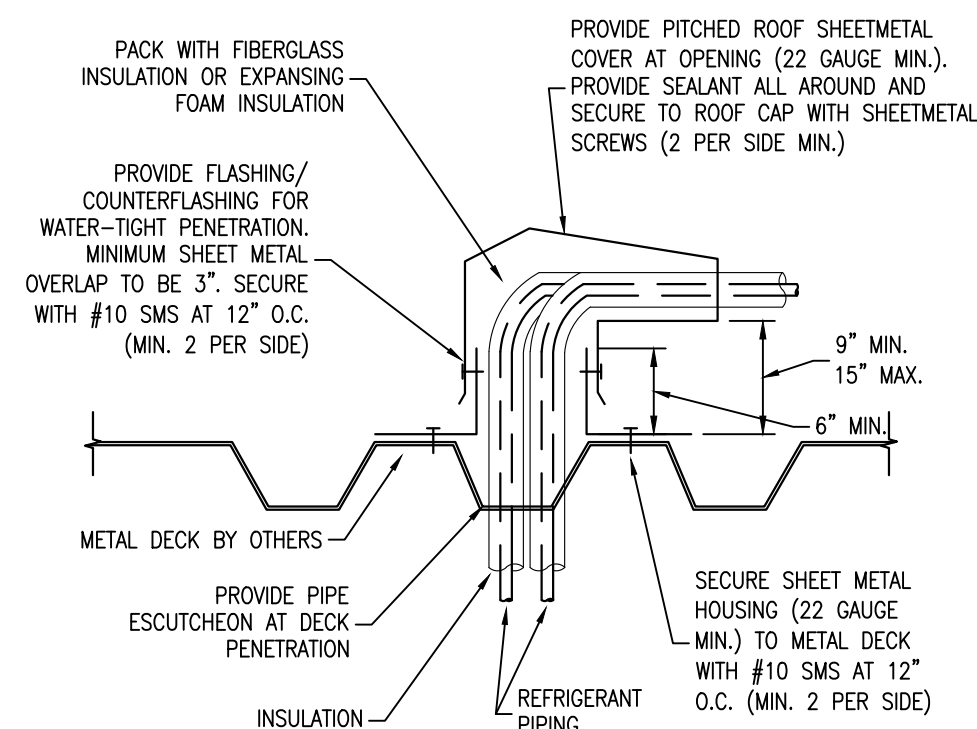
WALL MOUNTED FAN COIL

4



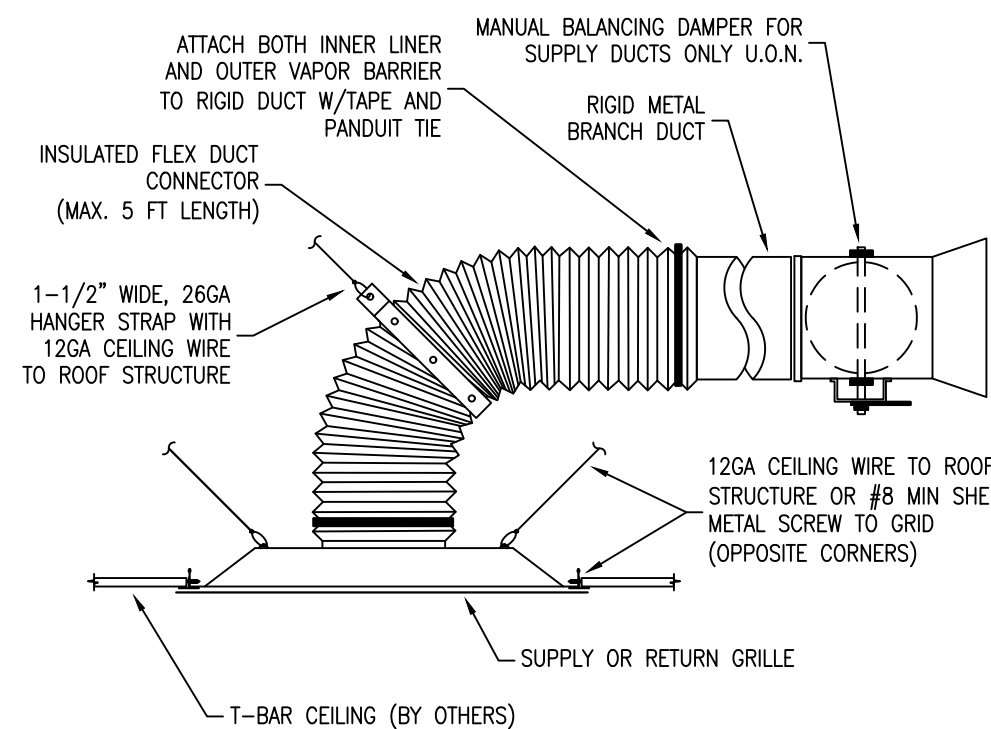
MECH UNIT CURB MOUNTING

5



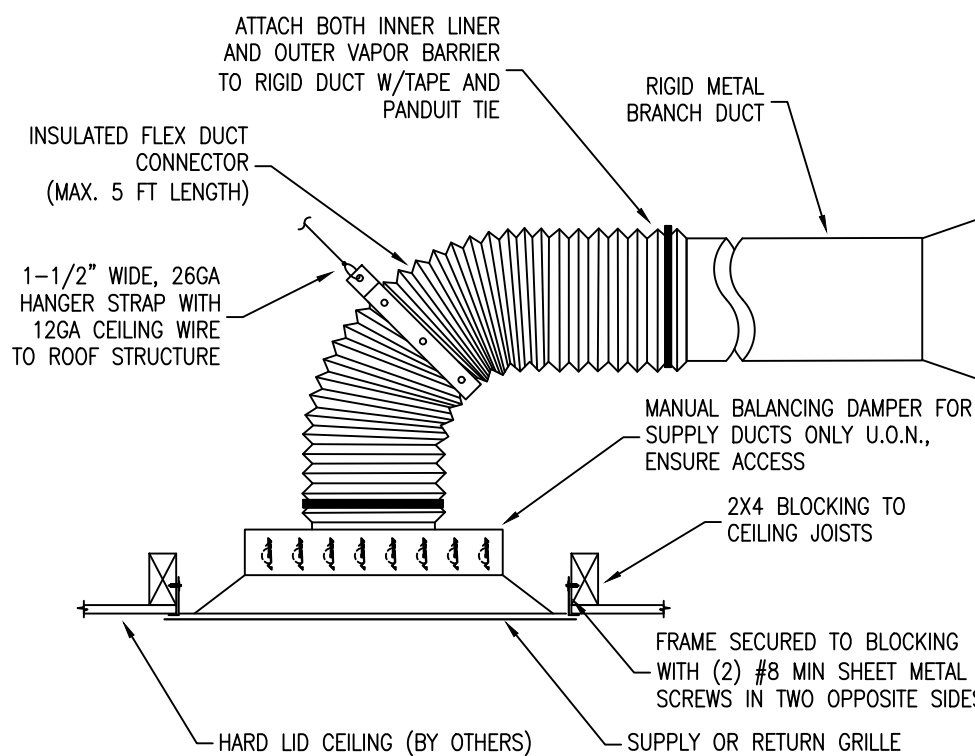
REFRIGERANT THRU METAL ROOF

6



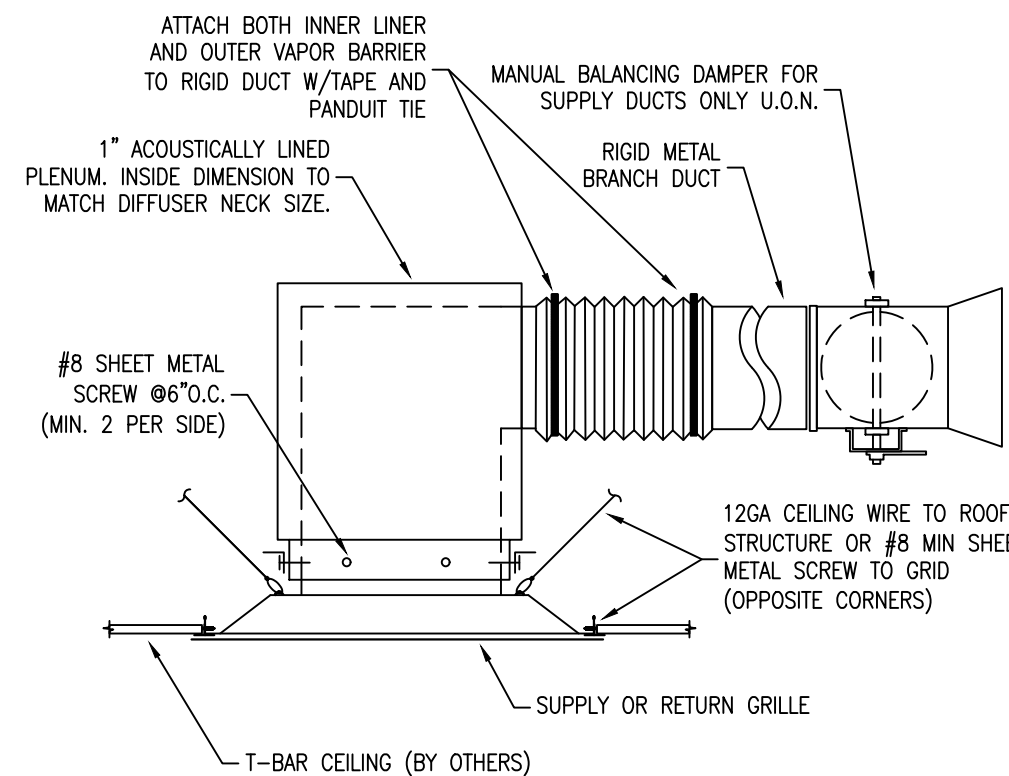
GRILLE MOUNTING (T-BAR)

7



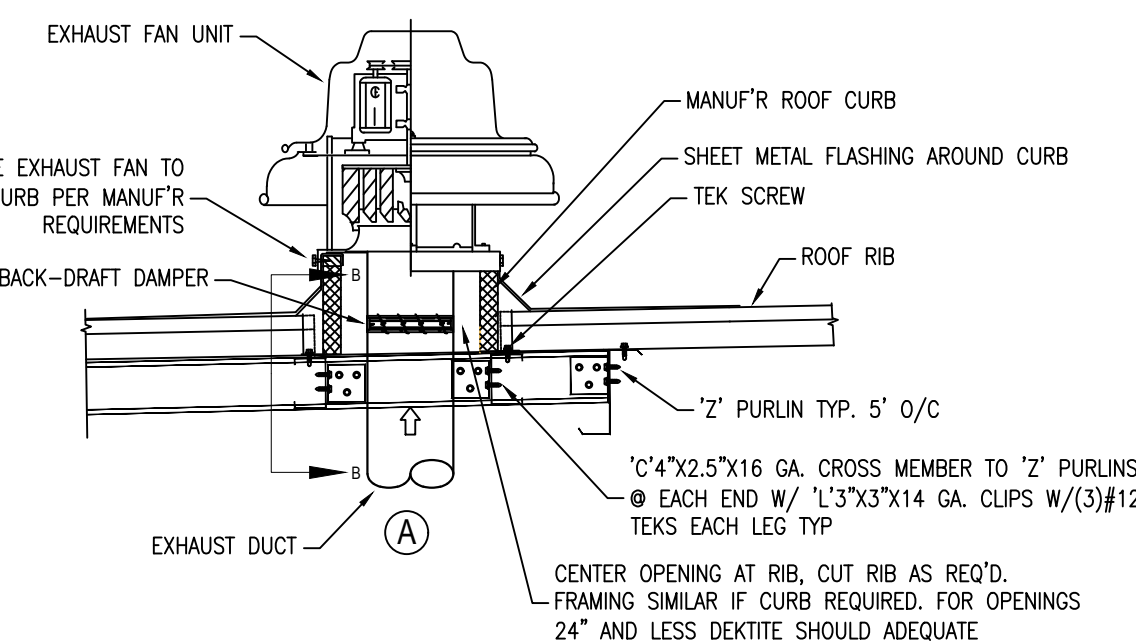
GRILLE MOUNTING (HARD LID)

8



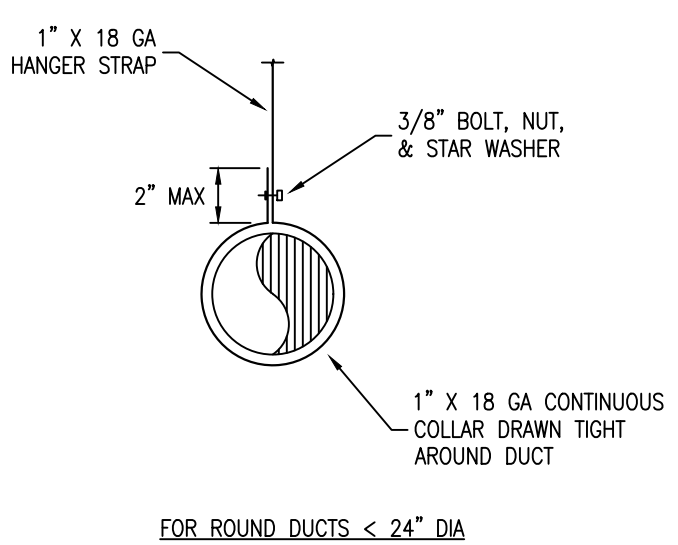
GRILLE MOUNTING (T-BAR)

9



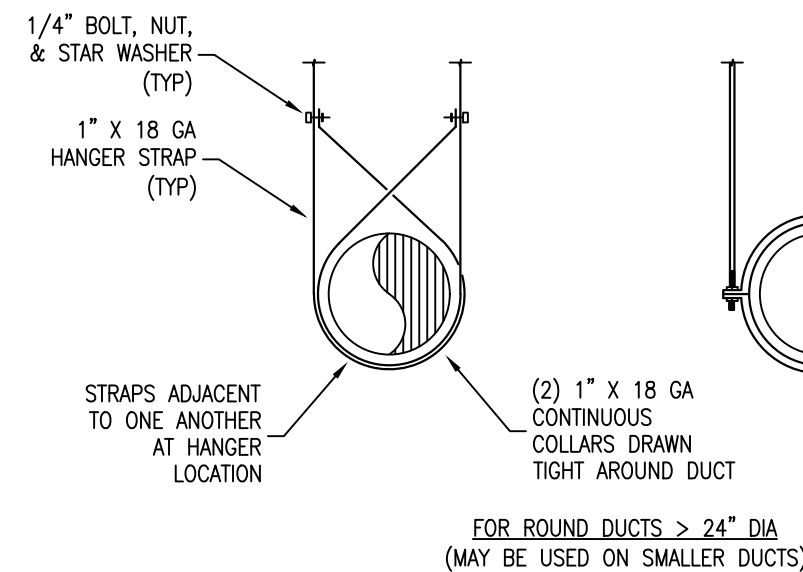
SSM ROOF - EXHAUST FAN MOUNTING

12



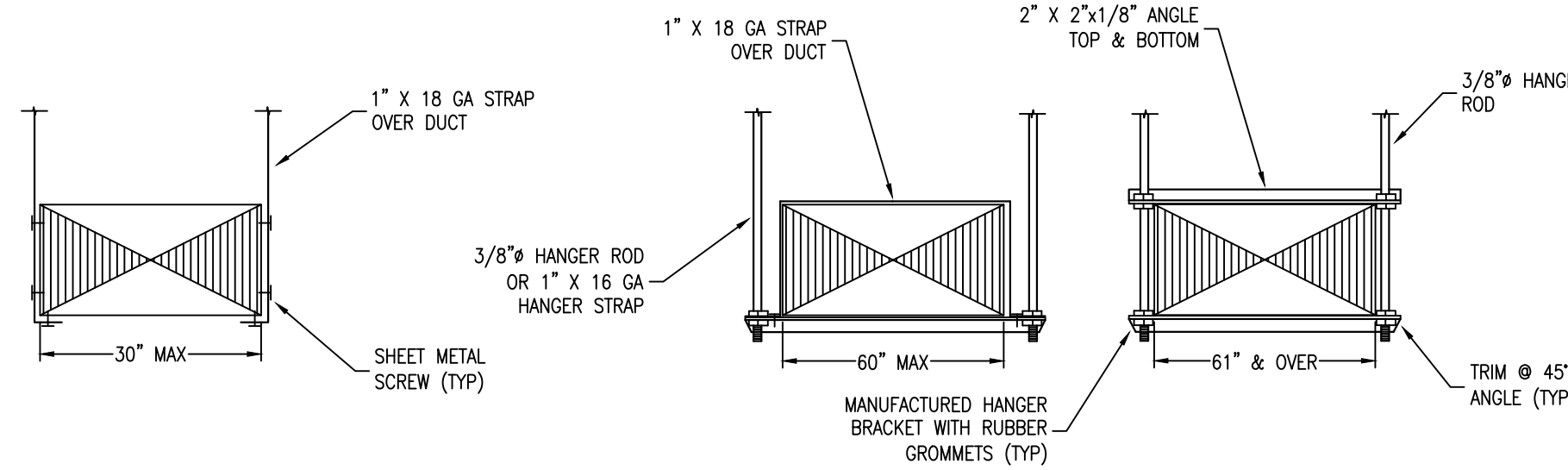
ROUND DUCT SUPPORT

10



RECTANGULAR DUCT SUPPORT

11



FIRE/SMOKE DAMPER DETAIL - FSD

13

- NOTES:
1. ALL DUCT SUPPORTS SHALL BE PROPERLY SECURED TO THE OVERHEAD STRUCTURE
 2. DUCT SUPPORTS, SPACING, AND ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE IN FULL COMPLIANCE, BUT NOT LIMITED TO: CMC 603.3 AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE
 3. PROVIDE LATERAL AND LONGITUDINAL SWAY BRACING PER SMACNA SEISMIC GUIDELINES

- NOTES:
1. ALL DUCT SUPPORTS SHALL BE PROPERLY SECURED TO THE OVERHEAD STRUCTURE
 2. DUCT SUPPORTS, SPACING, AND ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE IN FULL COMPLIANCE, BUT NOT LIMITED TO: CMC 603.3 AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE
 3. PROVIDE LATERAL AND LONGITUDINAL SWAY BRACING PER SMACNA SEISMIC GUIDELINES

NOTE: INSTALL ALL FIRE/SMOKE DAMPERS PER MANUFACTURES INSTRUCTION AS REQUIRED BY STATE FIRE MARSHAL.

UL 555 AND UL 555S LISTED, CLASS I FSD SEE FLOOR PLANS FOR LOCATION AND SIZE OF DAMPER

CBC 716.3.3.2 SMOKE DAMPER ACTUATION.

THE SMOKE DAMPER SHALL CLOSE UPON ACTUATION OF A LISTED SMOKE DETECTOR OR DETECTORS INSTALLED IN ACCORDANCE WITH SECTION 907.3.

WHERE A TOTAL-COVERAGE SMOKE DETECTOR SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

Project Name: NID Hydroelectric Field Office

Report Page: (Page 1 of 31)

Project Address: 148 Whitcomb Ave

Date Prepared: 3/17/2026

A. GENERAL INFORMATION					
01 Project Location (city)	Colfax	04	Total Conditioned Floor Area	8581	
02 Climate Zone	11	05	Total Unconditioned Floor Area	37976	
03 Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1	
• Commercial Industrial • Office • Support Areas • Warehouse					

B. PROJECT SCOPE					
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)(2) and §180.2(b)(2) for alterations.					
01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☒	Heating Air System	☐	Water Economizer	☒	Air Economizer
☒	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
☒	Ventilation (including DOAS, ERV, HRV systems)	☐	System Piping	☒	Fan Systems
Mechanical Controls		☐	Cooling Towers	☒	Ductwork (existing to remain, altered or new)
		☐	Chillers		
☒	Mechanical Controls (existing to remain, altered or new)	☐	Boilers	☐	Zonal Systems/ Terminal Boxes

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)										
01	02	03	04	05	06	07	08	09	10	11
PHP-5	Unitary Heat Pumps	Air-cooled, pkg (1phase)	NA: Altered per §141.0(b)(2)E and §180.2(b)(2)	39.43	34	20.47	30.79	28	22.67	21.37
HP-1/FC-1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	10.03	18	0	10.38	8.76	0.54	2.81
HP-2/FC-2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	15.61	28	0	21.3	17.28	0	2.88
HP-3/FC-3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	10.03	18	0	10.66	8.76	0	1.93
FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)(1). Healthcare facilities are exempted.										
It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.										
If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.										
Authority having jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).										
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)										
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Heating Mode		Cooling Mode					
			Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	
PHP-1	<65,000	HSPF2	6.7	6.7	Not Required	SEER2	13.4	13.4		
PHP-2	>=65,000 and <135,000	COP	3.4	3.4	Not Required	IEER	11	11.2		
PHP-3	<65,000	HSPF2	6.7	6.7	Not Required	SEER2	13.4	13.4		
PHP-4	<65,000	HSPF2	6.7	6.7	Not Required	SEER2	13.4	13.4		
PHP-5	<65,000	HSPF2	7.5	6.7	Not Required	SEER2	14.3	13.4		
HP-1/FC-1	<65,000	HSPF2	7.5	10.1	Not Required	SEER2	14.3	21.1		
HP-2/FC-2	<65,000	HSPF2	7.5	9.2	Not Required	SEER2	14.3	21.1		

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	PHP-2	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	2,418	Economizer	Differential Temperatu re
01	02	03		04		05		06	07	08		09		10	11
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design							
						Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ²	Design Electrical Input Power Method		Motor Nameplate Horsepower	Fan Electrical Input Power (kW)				
SF	Supply	1	BaseAllowanceLT6floors	100		0.23		Manufacturer provided		1.19					
	MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.14											
	Hydronic/DX cooling coil or heat pump coil	100		0.14											
	Economizer Return Damper	100		0.05											
	Altered/Supply Fan System	100		0.14											
Supply Fan Base Allowance (watt/cfm)	0.7	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0	Fan System Allowance (kW) ³	1.67	Fan System Electrical Input Power (kW)		1.19							

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C. COMPLIANCE RESULTS															
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.															
01	02		03		04		05		06		07		08		09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)	AND	Pumps §140.4(c), §170.2(c)(4)	AND	Fans/Econo- mizers §140.4(c), §140.4(e), §140.4(f), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(i), §170.2(c)	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)(4B)	AND	Distribution §120.3, §140.4(i), §160.2, §160.3, §141.0(b)(2D), §180.2(b)(2B)	AND	Cooling Towers §110.2(e)(2)	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND		AND	Yes	AND		Yes	AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															
COMPLIES															

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
PHP-1	1	Single zone	Alteration	All Other Occupancies	☐
PHP-2	1	Single zone	Alteration	All Other Occupancies	☐
PHP-3	1	Single zone	Alteration	All Other Occupancies	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)									
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Heating Mode			Cooling Mode			
			Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-3/FC-3	<65,000		HSPF2	7.5	10.1	Not Required	SEER2	14.3	21.1
Mechanical Heat Recovery§140.4(i)									
01	02	03	04	05	06	07			
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems² (kBtu/h)	Design Capacity of All Service Water Heating Systems¹ (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery				
¹ FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.									
² FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.									

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS															
System Name	PHP-3	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	2,418	Economizer	NA: Altered other than packaged AC or HP <54 kBtu/h
01	02	03	04			05		06		07	08	09		10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)	Water Gauge (w.g.)	Allowance		Design				Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
								Component Allowance (watt/cfm) ¹	Fan Allowance (watt/cfm) ²	Design Electrical Input Power Method					
SF	Supply	1	BaseAllowanceT6Floors			100		0.23	Manufacturer provided		0.74				
MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.14										
Hydronic/DX cooling coil or heat pump coil			100		0.14										
Economizer Return Damper			100		0.05										
Altered/Supply Fan System			100		0.14										
Supply Fan Base Allowance (watt/cfm)		0.7	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			0	Fan System Allowance (kW) ³		1.11	Fan System Electrical Input Power (kW)		0.74			

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H. FAN SYSTEMS & AIR ECONOMIZERS											
System Name	PHP-5	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	NA: Altered other than packaged AC or HP <54 kBtu/h
01	02	03		04		05	06	07	08	09	10
Fan Name or Item Tag	Fan Type	Qty		Component		Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Fan Electrical Input Power (kW)
SF	Supply	1		BaseAllowanceLT6Floors		100		0.23		Manufacturer provided	0.51
				MERV 13-16 Filter upstream of thermal conditioning equipment		100		0.14			
				Hydronic/DX cooling coil or heat pump coil		100		0.14			
				Economizer Return Damper		100		0.05			
				Altered:Supply Fan System		100		0.14			
Supply Fan Base Allowance (watt/cfm)		0.7		Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0		Fan System Allowance (kW) ²		0.83	Fan System Electrical Input Power (kW)

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H. FAN SYSTEMS & AIR ECONOMIZERS											
System Name	HP-3/FC-3	Quantit y	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	NA: <=33 kBtu/h cooling
01	02	03		04		05	06	07	08	09	10
Fan Name or Item Tag	Fan Type	Qty		Component		Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower
SF	Supply	1		BaseAllowanceLT6Floors		100		0.23		Manufacturer provided	0.03
				MERV 13-16 Filter upstream of thermal conditioning equipment		100		0.14			
				Hydronic/DX cooling coil or heat pump coil		100		0.14			
				Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0		Fan System Allowance (kW) ²		0.2	Fan System Electrical Input Power (kW)

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35

² Low-turnaround single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

³ Fan system allowance includes fan system base allowance.

⁴ Filter pressure loss can only be counted once per fan system.

⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

⁶ Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.

⁷ Indoor fans meeting the requirements of §140.4(a)(3D) shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

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I. SYSTEM CONTROLS											
HP-3/FC-3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	NA: Single Zone	NA: PTAC, PTHS, Rm AC, HP	NA: Alteration	NA: Alteration Project	NA: Single Zone	NA: Altered Equipment	

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY												
This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(e)(38 § 140.4(p) and § 140.4(q) for all nonresidential and hotel/motel and §124.9(a)(1)(b)(2), §160.3(a)(4), §170.2(a)(4), §170.2(b)(4C) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.												
01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.										
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces.										
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(2).										
Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems												
04		05				06				07		
System Name	PHP-1	System Design OA CFM Airflow ¹				524	System Design Transfer Air CFM				0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²
											Provided	
08	09	10	11	12	13	14	15	16				
Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)											Exh. Vent per §120.1(c)(4) & §160.2(c)(4)	
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴ §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)			
Office >=250	Office space	276			41.4	0			DCV	NA: Not required per §120.1(d)(3)		
									Occ Sensor	NA: Not required space type		

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H. FAN SYSTEMS & AIR ECONOMIZERS											
System Name	HP-1/FC-1	Quantit y	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	NA: <=33 kBtu/h cooling
01	02	03		04		05	06	07	08	09	10
Fan Name or Item Tag	Fan Type	Qty		Component		Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower
SF	Supply	1		BaseAllowanceLT6Floors		100		0.23		Manufacturer provided	0.03
				MERV 13-16 Filter upstream of thermal conditioning equipment		100		0.14			
				Hydronic/DX cooling coil or heat pump coil		100		0.14			
				Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0		Fan System Allowance (kW) ²		0.2	Fan System Electrical Input Power (kW)

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)(4D)											
01	02	03	04	05	06	07	08	09	10	11	
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)(4D)	Exhaust Air Heat Recovery §140.4(q) & §170.2(c)(4D)	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass	
Fan Energy Index (FEI)											
01				02				03			
Name or Item Tag				FEI Exception				FEI			
PHP-1				Embedded Fan <SHP or <4.1kW							
PHP-2				Embedded Fan <SHP or <4.1kW							
PHP-3				Embedded Fan <SHP or <4.1kW							
PHP-4				Embedded Fan <SHP or <4.1kW							
PHP-5				Embedded Fan <SHP or <4.1kW							
HP-1/FC-1				Embedded Fan <SHP or <4.1kW							
HP-2/FC-2				Embedded Fan <SHP or <4.1kW							
HP-3/FC-3				Embedded Fan <SHP or <4.1kW							

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J. VENTILATION AND INDOOR AIR QUALITY												
Office <250	Office space	252			37.8	0	0		DCV	NA: Not required per §120.1(d)(3)		
								Occ Sensor	NA: Not required space type			
Conference	Conference/ meeting	291			144	0	0		DCV	Provided per §120.1(d)(4)		
								Occ Sensor	NA: Not required space type			
Breakroom	Break room	608			301	0	0		DCV	NA: Not required per §120.1(d)(3)		
								Occ Sensor	NA: Not required space type			
17	Total System Required Min OA CFM					524	18	Ventilation for this System Complies?			Yes	
	04		05			06			07			
System Name	PHP-2		System Design OA CFM Airflow ¹			352	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(21) ²		
08	09		10	11	12	13	14	15	16			
Mechanical Ventilation Required per §120.1(c)(3) ³ & §160.2(c)(3)							Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		Provided			
Space Name or Item Tag	Occupancy Type ⁴					Conditioned Floor Area (ft ²)	# of Showers/heads/ toilets	# of people ⁵	Required Min CFM	Required Min CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e) ⁶ §160.2(c)(5D) §160.2(c)(5F) §160.2(c)(5P)	
Restrooms	Toilet (private) - cont. exsh.					336	6	0	150	0	DCV Occ Sensor	NA: Not required per §120.1(d)(3) NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) & §160.2(c)(3)				Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3)* §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)		
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM		Provided per Design CFM	
Office <250	Office space	113			17	0	0	DCV	NA: Not required per §120.1(d)(3)
								Occ Sensor	NA: Not required space type
Office >250	Office space	1642			246.3	0	0	DCV	NA: Not required per §120.1(d)(3)
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				263	18	Ventilation for this System Complies?		Yes
D4		D5			D6		D7		
System Name	PH-P-4	System Design OA CFM Airflow ⁶		422	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(2) 1	
		Provided							
08	09	10	11	12	13	14	15	16	
Mechanical Ventilation Required per §120.1(c)(3) & §160.2(c)(3)				Exh. Vent per §120.1(c)(4) & §160.2(c)(4)				DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3)* §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)	
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV	NA: Not required per §120.1(d)(3)
Corridor	Corridor	368	1		55.2	70	0	Occ Sensor	NA: Not required space type

Generated Date/Time:

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: NID Hydroelectric Field Office

Report Page: (Page 22 of 31)

Date Prepared: 3/17/2026

J. VENTILATION AND INDOOR AIR QUALITY								
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) & §160.2(c)(3)					Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		
	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3)* §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)	
Electrical	All others	102			0	0	DCV NA: Not required per §120.1(d)(3)	
17	Total System Required Min OA CFM					0	18	Occ Sensor NA: Not required space type
						Ventilation for this System Complies?		Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

² Air filtration requirements apply to the following three system types per §120.1(c)(1A): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ §120.2(c)(3) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices >250 ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restaurants, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)		
This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and mandatory requirements found in §120.4(g) for duct sealing.		
01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

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L. DISTRIBUTION (DUCTWORK AND PIPING)						
					Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	
					Duct leakage testing per CMC Section 603.9.2 required for these systems?	
11	No	The scope of the project includes only duct systems serving healthcare facilities			No	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.				
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.				
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.				
15		The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos.				
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A				
18		All ductwork is an extension of an existing duct system				
19		Ductwork serving individual dwelling unit				
20		< 25 ft of new or replacement space conditioning ducts installed				
21	R-4.2	Duct Insulation R-value				
22		Ductwork Existing To Remain				
23		Duct System Connected To Altered Space Conditioning System				
The answers to the questions below apply to the following duct systems:			PH-P-4	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No	

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J. VENTILATION AND INDOOR AIR QUALITY										
Office <250	Office space	577			86.6	0	0		DCV	NA: Not required per §120.1(d)(3)
Conference	Conference/ meeting	560			277.2	0	0	DCV	NA: Not required space type	
								DCV	Provided per §120.1(d)(4)	
17	Total System Required Min OA CFM					419	18	Ventilation for this System Complies?		Yes
04		05				06		07		
System Name	PH-P-5	System Design OA CFM Airflow ⁶		120	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(2) 1		
08	09	10	11	12	13	14	15	16		
						Exh. Vent per §120.1(c)(4) & §160.2(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3)* §160.2(c)(5D) §160.2(c)(5E) §160.2(c)(5D)		
Space Name or Item Tag		Occupancy Type ⁴		Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Manufacturin g (Precision)	General Manufacturing: non-chemical	801				120.2	0	0	DCV	NA: Not required per §120.1(d)(3)
17	Total System Required Min OA CFM					120	18	Ventilation for this System Complies?		Yes
04		05				06		07		
System Name	HP-1/FC-1	System Design OA CFM Airflow ⁶		0	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)(2) and §160.2(c)(2) 1		
08	09	10	11	12	13	14	15	16		

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L. DISTRIBUTION (DUCTWORK AND PIPING)						
Duct Leakage Testing						
The answers to the questions below apply to the following duct systems:			PH-P-1	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No	
				Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No	
				Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes	
11	No	The scope of the project includes only duct systems serving healthcare facilities				
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.				
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.				
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.				
15		The scope of the project includes an existing duct system, which is constructed, insulated or sealed with asbestos.				
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A				
18		All ductwork is an extension of an existing duct system				
19		Ductwork serving individual dwelling unit				
20		< 25 ft of new or replacement space conditioning ducts installed				
21	R-4.2	Duct Insulation R-value				
22		Ductwork Existing To Remain				
23		Duct System Connected To Altered Space Conditioning System				
The answers to the questions below apply to the following duct systems:			PH-P-2	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No	

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NRCC-MCH-E

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L. DISTRIBUTION (DUCTWORK AND PIPING)						
			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?			No
			Duct leakage testing per CMC Section 603.9.2 required for these systems?			Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities				
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.				
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.				
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:				
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A				
18		All ductwork is an extension of an existing duct system				
19		Ductwork serving individual dwelling unit				
20		≤25 ft of new or replacement space conditioning ducts installed				
21	R-4.2	Duct Insulation R-value				
22		Ductwork Existing To Remain				
23		Duct System Connected To Altered Space Conditioning System				
The answers to the questions below apply to the following duct systems:			PHP-5	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?		No

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title

NRCC-MCH-E - Must be submitted for all buildings

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Mechanical Systems

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: NID Hydroelectric Field Office	Report Page: (Page 31 of 31)	
Project Address: 148 Whitcomb Ave	Date Prepared: 3/17/2026	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jacob Pleis

Documentation Author Signature: *Jacob Pleis*

Company: Optimized Energy & Facilities Consulting

Signature Date: 2026-03-17

Address: 5734 Lonetree Boulevard

CEAA/AVCC Certification Identification (if applicable):

City/State/Zip: Rocklin CA 95765

Phone: 916-622-4882

RESPONSIBLE PERSON'S DECLARATION STATEMENT

certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Jacob Pleis

Responsible Person Signature: *Jacob Pleis*

Responsible Person Scope:

Company: Optimized Energy & Facilities Consulting, Inc

Date Signed: 2026-03-17

Address: 5734 Lonetree Blvd

License: M40757

City/State/Zip: Rocklin CA 95765

Phone: (916) 626-5518

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQM07 (MEDIUM STATIC); CARRIER SOFEQA05 (3 PH, MED STATIC); CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQA04 (1 PH, MED STATIC); MITSUBISHI PUZ-AK12NL; MITSUBISHI PUZ-AK24NL; MITSUBISHI PUZ-AK12NL;
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	MITSUBISHI PUZ-AK12NL; MITSUBISHI PUZ-AK24NL; MITSUBISHI PUZ-AK12NL;
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQM07 (MEDIUM STATIC); CARRIER SOFEQA05 (3 PH, MED STATIC); CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQA04 (1 PH, MED STATIC);
NRCA-MCH-06-A Demand Control Ventilation Systems	CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQM07 (MEDIUM STATIC); CARRIER SOFEQA06 (3 PH, MED STATIC);

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-12-A FDD - Packaged Units

CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQM07 (MEDIUM STATIC); CARRIER SOFEQA05 (3 PH, MED STATIC); CARRIER SOFEQA06 (3 PH, MED STATIC); CARRIER SOFEQA04 (1 PH, MED STATIC);

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes
	Plan sheet or construction document location M-Sheets

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REVIEWED FOR CODE COMPLIANCE

August 28, 2026

BUREAU VERITAS NORTH AMERICA, INC.



DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.

COLFAX, CA 95713

APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

MECHANICAL

ENERGY COMPLIANCE

SHEET NO.

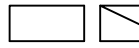
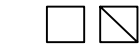
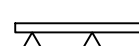
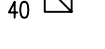
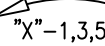
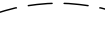
M6.4

ELECTRICAL GENERAL NOTES	
1)	ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(ES) HAVING JURISDICTION: 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2025 CALIFORNIA BUILDING CODE (CBC), 2025 CALIFORNIA FIRE CODE (CFC), 2025 CALIFORNIA MECHANICAL CODE (CMC), 2025 CALIFORNIA PLUMBING CODE (CPC), 2025 CALIFORNIA ELECTRICAL CODE (CEC), 2025 CALIFORNIA ENERGY CODE (CENC), 2025 CALIFORNIA GREEN BUILDING CODE (GGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
2)	CEC AND MAXIMUM VOLTAGE DROP OF 5% WILL DEFINE CONDUCTOR SIZING.
3)	ALL CONDUCTORS SHALL BE IN CONDUITS, U.O.N. CONDUITS SHALL BE USED IN THE FOLLOWING METHODS: - POLYVINYL CHLORIDE (PVC) CONDUITS ALLOWED FOR UNDERGROUND OTHERWISE PROVIDE RMC OR IMC. INSTALL PER CEC TABLE 300.5 BURIAL DEPTH REQUIREMENTS - ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION FITTINGS MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS; - LIQUID TIGHT FLEXIBLE METAL CONDUIT WHERE REQUIRED; - FLEXIBLE METALLIC CONDUIT, WHERE REQUIRED BY CEC, IN DRY LOCATIONS. NOTE: ALL CONDUITS IN HAZARDOUS LOCATIONS (PER CEC) SHALL MEET THE REQUIREMENTS OF CEC CHAPTER 5. - CONNECTION TO LIGHT FIXTURES ABOVE LAY-IN CEILING MAY USE 3/8" FLEXIBLE METAL CONDUIT PER CEC 348.20(A)(2) - ALL EXPOSED CONDUIT SUBJECT TO WEAR OR COLLISION SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METALLIC TUBING (MT). APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND. - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL RACEWAY PENETRATIONS OF FIRE RATED CEILINGS, PARTITIONS, WALLS AND STRUCTURAL SLABS.
4)	FOR TELEPHONE SYSTEM: PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF CEC 800 AND TELEPHONE COMPANY.
5)	ALL EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED DISCONNECTING MEANS PER CEC. ALL DISCONNECT SWITCHES SHALL BE SIZED PER CEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, U.O.N. SWITCHES SHALL BE HORSE POWER RATED, OF HEAVY DUTY TYPE. PROVIDE MEANS FOR PAD LOCKING IN THE OPEN POSITION.
6)	ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP.
7)	ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
8)	LIGHTING SYSTEMS SHALL COMPLY WITH CENC. ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DIMMER SWITCHES, AND CONTROLS SHALL BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AS MEETING ALL CENC REQUIREMENTS AND BE LISTED IN THE APPLICABLE ENERGY COMMISSION DIRECTORY. ALL SUCH DEVICES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LIGHT FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH CBC SEISMIC REQUIREMENTS.
9)	LIGHT POLLUTION REDUCTION: OUTDOOR LIGHTING SYSTEMS SHALL BE INSTALLED TO COMPLY WITH CENC, CGC, OR LOCAL JURISDICTION ORDINANCE, WHICHEVER IS MORE STRINGENT.
10)	ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC., (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. ALL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE METALLIC LIQUID TIGHT. ALL EQUIPMENT IN HAZARDOUS LOCATIONS, PER CEC, CHAPTER 5, SHALL BE IN ACCORDANCE WITH THE CEC. ALL EQUIPMENT IN CORROSIVE ENVIRONMENTS SHALL BE IN ENCLOSURES (SUCH AS NEMA 4X) RATED FOR THE ENVIRONMENT.
11)	RECEPTABLES AND SWITCHES INTENDED TO BE ACCESSIBLE TO THE PUBLIC SHALL BE INSTALLED IN ACCORDANCE WITH CBC 11B-308. INSTALLATION HEIGHT ABOVE FINISHED FLOOR OR GROUND SHALL BE AS FOLLOWS: TOP OF UNOBSTRUCTED OUTLET BOXES SHALL BE NO MORE THAN 48 INCHES, BOTTOM OF UNOBSTRUCTED OUTLET BOXES SHALL BE NO LESS THAN 15 INCHES, ETC.
12)	UTILITY SERVICE AND REQUIREMENTS SHALL BE COORDINATED WITH POWER SERVICE WITH POWER COMPANY. PROVIDE FOR ALL STANDARD POWER COMPANY REQUIREMENTS. FAULT CURRENT RATINGS SHALL BE PROVIDED BY UTILITY.
13)	THE LAYOUTS OF THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING, NOR EVERY STRUCTURAL DIFFICULTY THAT WILL BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK. ALIGNMENT OF EQUIPMENT AND ROUTING OF RACEWAYS MAY BE VARIED SLIGHTLY TO ACCOMMODATE ARCHITECTURAL CONDITIONS OR TO AVOID THE WORK OF OTHER TRADES. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM CONTRACT DRAWINGS, DETAILS OF DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE FOR WRITTEN APPROVAL OF THE ENGINEER.
14)	THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND THEIR SUBCONTRACTORS FOR THE APPROPRIATE TRADE. WHERE THE OWNER ACTS AS THEIR OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.
15)	CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
16)	CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
17)	COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND MECHANICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
18)	CUTTING AND PATCHING: ANY CUTTING, ATTACHING, OR WELDING TO BUILDING STRUCTURE SHOULD BE COORDINATED AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
19)	SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
20)	COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
21)	RESTORE ALL DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
22)	PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
23)	WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY WORK UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

ELECTRICAL CALGREEN NOTES	
5.106.5.3	ELECTRIC VEHICLE (EV) CHARGING. CONSTRUCTION SHALL COMPLY WITH CGC SECTION 5.106.5.3.1 OR SECTION 5.106.5.3.2 TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).
5.106.5.3.1	SINGLE CHARGING SPACE REQUIREMENTS. WHEN ONLY A SINGLE CHARGING SPACE IS REQUIRED PER CGC TABLE 5.106.5.3.3, A RACEWAY IS REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC
5.106.5.3.2	MULTIPLE CHARGING SPACES REQUIREMENTS. WHEN MULTIPLE CHARGING SPACES ARE REQUIRED PER CGC TABLE 5.106.5.3.3, RACEWAY(S) IS/ARE REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC
5.106.5.3.3	EV CHARGING SPACE CALCULATION. CGC TABLE 5.106.5.3.3 SHALL BE USED TO DETERMINE IF SINGLE OR MULTIPLE CHARGING SPACE REQUIREMENTS APPLY FOR THE FUTURE INSTALLATION OF EVSE.
5.106.5.3.4	IDENTIFICATION. THE SERVICE PANEL OR SUBPANEL(S) CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE"
5.106.5.3.5	FUTURE CHARGING SPACES: FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN CGC SECTION 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.

LIGHTING FIXTURE SCHEDULE												
TAG	TYPE	MANU.	SERIES	MODEL	QTY.	MOUNTING	VOLT.	WATTAGE	SOURCE	LUMENS	CCT	REMARKS
A	2'X4' FIXTURE	COOPER	METALUX	24MMS-L3C3-UNV HIGH	99	T-BAR	120	47.0	LED	6598	4000K	
B	DOWNLIGHT	COOPER	HALO	HC6150010-HM60525840-61WDH	22	RECESSED	120	14.5	LED	1500	4000K	
C	DOWNLIGHT	COOPER	HALO	HC4150010-HM40525840-41WDH	4	RECESSED	120	14.5	LED	1500	4000K	
D	HIGH BAY	METALUX	LHBS SELECTABLE	LHBS-1218-UNV-L84050-U	52	SUSPENDED @18' AFF	277	124.0	LED	18275	4000K	
F	4' STRIP	COOPER	METALUX	4SNLED-LD5-34SL-LC-UNV-L840-CD1-U	18	CEILING SURFACE	120	25.0	LED	3567	4000K	
EMX	EMER/EXIT COMBO	ISOLITE	CMB	CMB-EM-X-U-WH-MTEBP-L1	1	CEILING SURFACE	120	-	LED	-	-	90 MIN BATTERY BACKUP, UL 924
EMX-R	EMER/EXIT COMBO WITH REMOTE HEAD	ISOLITE	CMB	CMB-EM--U-WH-MTEBP-L1-EB WITH MWH-BK-1-LW	6	CEILING SURFACE	120	-	LED	-	-	90 MIN BATTERY BACKUP, UL 924, 1.5W REMOTE HEAD
NOTES: COORDINATE ALL ARCHITECTURAL TRIM AND ACCESSORY OPTIONS WITH OWNER												
EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL												
LIGHT FIXTURE SHOWN WITH "EM" DESIGNATION AND SHADING () INDICATES EMERGENCY FIXTURE SHALL BE CONNECTED TO EM CIRCUIT OR PROVIDED WITH 90 MINUTE EMERGENCY BATTERY BACKUP												

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

ELECTRICAL LEGEND	
	2X4 LIGHT FIXTURE (SURFACE, RECESSED)
	2X2 LIGHT FIXTURE (SURFACE, RECESSED)
	FIXTURE W/ BATTERY BACKUP (TYP. ALL SHADED FIXTURES)
	RECESSED DOWNLIGHT
	ROUND SURFACE MOUNT LIGHT
	PENDANT LIGHT
	TRACK LIGHT
	SIGNLIGHT
	WALL MOUNT LIGHT
	POLE MOUNT LIGHT - 2 HEAD
	POLE MOUNT LIGHT - 1 HEAD
	EXIT/EMERGENCY COMBO LIGHT
	EMERGENCY FIXTURE
	EXIT LIGHT
	CEILING EXHAUST FAN
	WALL MOUNTED SWITCH
	WALL MOUNTED 3-WAY SWITCH
	PHOTOCELL
	PRIMARY AND SECONDARY DAYLIT ZONES
	CEILING MOUNTED SENSOR
	RECEPTACLE - DUPLEX
	RECEPTACLE - QUADRUPLEX
	RECEPTACLE - DEDICATED
	RECEPTACLE - 2-POLE
	RECEPTACLE - SPECIALTY, SEE PLANS FOR TYPE
	RECEPTACLE WITH USB PORT
	FLOOR MOUNTED RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	PHONE-DATA PORT
	SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	JUNCTION BOX
	DISCONNECT - POLES (CAPACITY/FUSE)
	HOME RUN - PANEL-CIRCUIT(S)
	WIRE/CONDUIT - OVERHEAD
	WIRE/CONDUIT - UNDERGROUND
	POWER PANEL
	TRANSFORMER
AFF	ABOVE FINISHED FLOOR
+XX"	HEIGHT (INCHES) AFF
D	DIMMER
M	OCCUPANCY SENSOR
V	VACANCY SENSOR
GFCI	GROUND FAULT CURRENT INTERRUPTER
WP	WEATHERPROOF
HP	HORSEPOWER
BHP	BRAKE HORSEPOWER
NTS	NOT TO SCALE
GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
MSB	MAIN SWITCHBOARD
SBJ	SYSTEM BONDING JUMPER
SSBJ	SUPPLY SIDE BONDING JUMPER
BCPM	BRANCH CIRCUIT POWER METER
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED



5734 LoneTree Boulevard, Rocklin, CA 95765
Office: (916) 826-5518 www.oefcinc.com



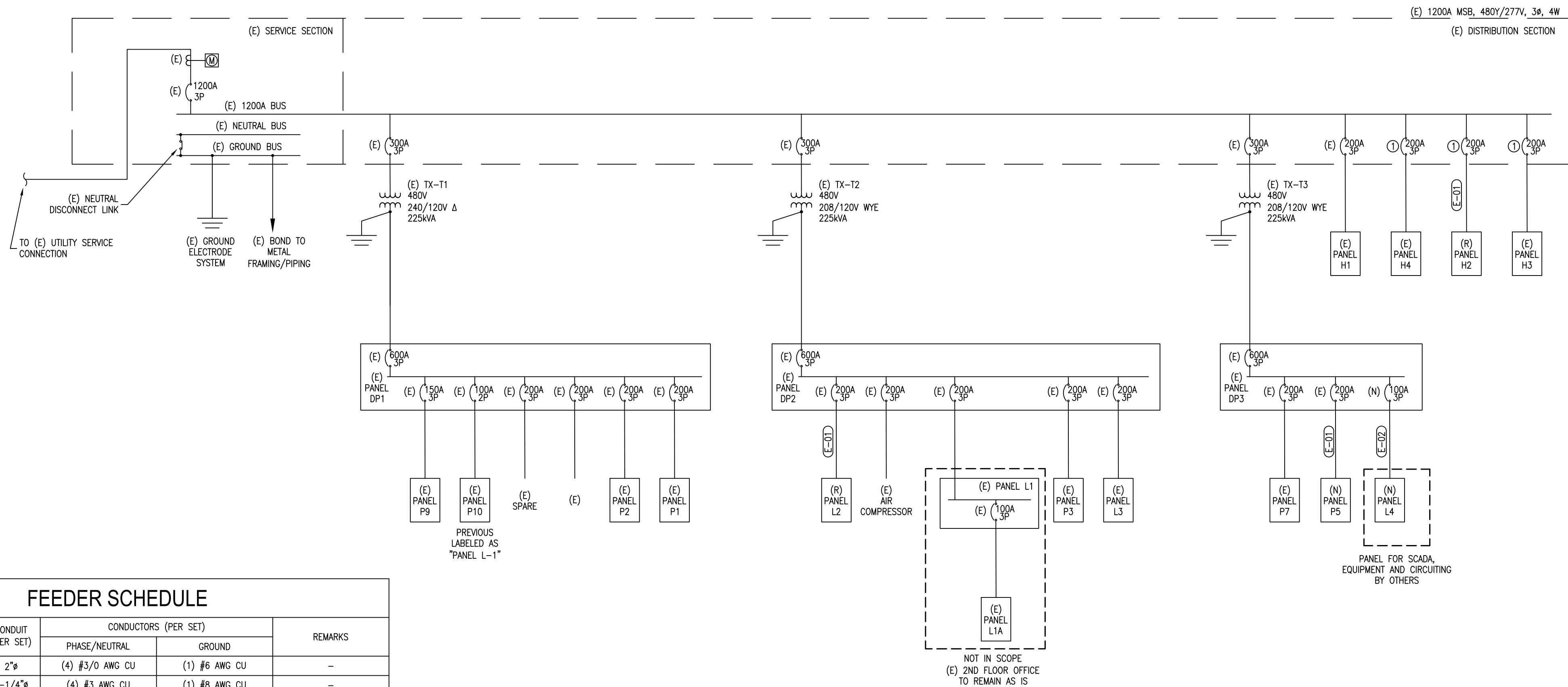
DATE SIGNED 07-03-26

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
 PLAN CHECK #1	07-03-26
PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL SCHEDULES, ONE-LINE, & GEN. NOTES
SHEET NO.	E0.0

ONE-LINE DIAGRAM



ONE-LINE NOTES:

- (N) - NEW
(E) - EXISTING
(R) - RELOCATED
(F) - FUTURE
- ALL EQUIPMENT/WIRING IS (N) U.O.N.
- ALUMINUM WIRING INSULATION SHALL BE XHHW, U.O.N. COPPER WIRING INSULATION SHALL BE THWN-2, U.O.N.
- THE SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED PER CEC 230.70(B)
- POST A DATED AVAILABLE FAULT CURRENT CALCULATION AT THE SERVICE EQUIPMENT PER CEC 110.24
- SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROLS PANELS, ETC. SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL MEET 110.21(B) AND BE CLEARLY VISIBLE PER CEC 110.16
- ALL SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC 408.4(B)
- CEC 110.15 HIGH-LEG MARKING. ON A 4-WIRE, DELTA-CONNECTED SYSTEM WHERE THE MIDPOINT OF ONE PHASE WINDING IS GROUNDED, ONLY THE CONDUCTOR OR BUSBAR HAVING THE HIGHER PHASE VOLTAGE TO GROUND SHALL BE DURABLY AND PERMANENTLY MARKED BY AN OUTER FINISH THAT IS ORANGE IN COLOR OR BY OTHER EFFECTIVE MEANS. SUCH IDENTIFICATION SHALL BE PLACED AT EACH POINT ON THE SYSTEM WHERE A CONNECTION IS MADE IF THE GROUNDED CONDUCTOR IS ALSO PRESENT.
- 408.3(F)1 HIGH-LEG IDENTIFICATION. A SWITCHBOARD, SWITCHGEAR, OR PANELBOARD CONTAINING A 4-WIRE, DELTA-CONNECTED SYSTEM WHERE THE MIDPOINT OF ONE PHASE WINDING IS GROUNDED SHALL BE LEGIBLY AND PERMANENTLY FIELD MARKED AS FOLLOWS: "CAUTION C PHASE HAS 208 VOLTS TO GROUND".

ONE-LINE KEY NOTES:

- REPLACE (E) 225A BREAKER FOR (E) 200A BUS PANEL
- PROVIDE 24 CIRCUIT, 10KAIC, SURFACE MOUNT PANEL. COORDINATE WITH OWNER FOR PANEL REQUIREMENTS AND UPS BACKUP

FEEDER SCHEDULE

TAG	# OF SETS	CONDUIT (PER SET)	CONDUCTORS (PER SET)		REMARKS
			PHASE/NEUTRAL	GROUND	
E-01	1	2"	(4) #3/0 AWG CU	(1) #6 AWG CU	-
E-02	1	1-1/4"	(4) #3 AWG CU	(1) #6 AWG CU	-

EXISTING 'MSB' SCHEDULE

Panel Name:		MSB				Bus Rating:		1200A		
Voltage & Phase:		480Y/277 - 3Ø -4W				AIC Rating:		(E)		
Mounting:		Surface				Main Type:		Circuit Breaker		
Enclosure Rating:		NEMA 3R				MCB Rating:		1200A		
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
O	47960	(E) TX-T1	300/3	1	A	2	200/3	(E) Panel H1	19057	O
O	49771		-	3	B	4	-		19057	O
O	51905		-	5	C	6	-		19057	O
O	42811	(E) TX-T2	300/3	7	A	8	200/3	(E) Panel H4	0	O
O	44028		-	9	B	10	-		0	O
O	46985		-	11	C	12	-		0	O
				13	A	14	200/3	(E) Panel H2	25921	O
				15	B	16	-		25921	O
				17	C	18	-		25921	O
				19	A	20	200/3	(E) Panel H3	3730	O
				21	B	22	-		5915	O
				23	C	24	-		5290	O
O	4770.086	(E) TX-T3	300/3	25	A	26	225/3	Spare		
O	4932.888		-	27	B	28	-			
O	6114.526		-	29	C	30	-			
				31	A	32				
				33	B	34				
				35	C	36				
				37	A	38				
				39	B	40				
				41	C	42				
Largest Motor VA		7649								
Largest Motor Phases:		A,B,C								

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	144249.6	149625.6	155272.7	449147.8	1.00	449148
Load Totals	144249.6	149625.6	155272.7	449147.8	1.00	449147.82
VA of Largest Motor				7648.512	0.25	1912.128
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	144886.9	150263.0	155910.1			
Load Balance	96.4%	99.9%	103.7%			
VA Load This Panel				451060.0		
Amperage This Panel Per Largest Phase VA				562.9		

VOLTAGE DROP SUMMARY

Voltage Drop Summary				
Total Feeder Voltage Drop		Worst Case Branch Circuit		Worst Case Voltage Drop
MSB-->H1	0.01%	H1-31,33,35	0.79%	0.79%
MSB-->H2	0.38%	H2-37,39,41	0.97%	1.35%
MSB-->H3	0.03%	H3-25,27,29	2.13%	2.17%
MSB-->TX-T1-->DP1-->P10	1.09%	P10-2	2.07%	3.17%
MSB-->TX-T1-->DP1-->P2	0.21%	P2-20,22,24	0.56%	0.77%
MSB-->TX-T1-->DP1-->P1	0.21%	P1-41	1.38%	1.59%
MSB-->TX-T2-->DP2-->L2	1.14%	L2-3	3.11%	4.25%
MSB-->TX-T2-->DP2-->P3	0.26%	P3-31,33	4.51%	4.76%
MSB-->TX-T3-->DP3-->P5	0.49%	P5-33	1.78%	2.27%

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

ELECTRICAL
ONE-LINE

SHEET NO.

E0.1

RELOCATED PANEL 'H1' SCHEDULE

Panel Name: H1					Bus Rating: 250A					
Voltage & Phase: 480Y/277 - 3Ø - 4W					A/C Rating: (E)					
Mounting: Surface					Main Type: Lugs Only					
Enclosure Rating: NEMA 1					Upstream Feed Size: 200A					
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	20/3	1	A	2				
			-	3	B	4				
			-	5	C	6				
		Spare	20/3	7	A	8	100/3	Spare		
			-	9	B	10	-			
			-	11	C	12	-			
		Spare	20/3	13	A	14				
			-	15	B	16				
			-	17	C	18				
		Spare	20/3	19	A	20				
			-	21	B	22				
			-	23	C	24				
		Spare	20/3	25	A	26				
			-	27	B	28				
			-	29	C	30				
EV	1912	Fork Lift Charger	20/3	31	A	32				
EV	1912		-	33	B	34				
EV	1912		-	35	C	36				
EV	13333	EV Charger	70/3	37	A	38				
EV	13333		-	39	B	40				
EV	13333		-	41	C	42				

Largest Motor VA	0
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	15245.57	15245.57	15245.57	45736.72	1.25	57171
O = Other	0	0	0	0	1.00	0
Load Totals	15245.57	15245.57	15245.57	45736.72	1.25	57170.901
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	19057.0	19057.0	19057.0			
Load Balance	100.0%	100.0%	100.0%			
VA Load This Panel						57170.9
Amperage This Panel Per Largest Phase VA						68.8

RELOCATED PANEL 'H2' SCHEDULE

Panel Name: H2					Bus Rating: 200A					
Voltage & Phase: 480Y/277 - 3Ø - 4W					A/C Rating: (E)					
Mounting: Surface					Main Type: Lugs Only					
Enclosure Rating: NEMA 1					Upstream Feed Size: 200A					
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	30/3	1	A	2	30/3	Spare		
			-	3	B	4	-			
			-	5	C	6	-			
		Spare	30/3	7	A	8	30/3	Spare		
			-	9	B	10	-			
			-	11	C	12	-			
		Spare	30/3	13	A	14	30/3	Spare		
			-	15	B	16	-			
			-	17	C	18	-			
		Spare	30/3	19	A	20	30/3	Spare		
			-	21	B	22	-			
			-	23	C	24	-			
M	5206	PHP-1	30/3	25	A	26	30/3	PHP-4	5206	M
M	5206		-	27	B	28	-		5206	M
M	5206		-	29	C	30	-		5206	M
M	5365	PHP-2	30/3	31	A	32	20/3	PHP-5	3984	M
M	5365		-	33	B	34	-		3984	M
M	5365		-	35	C	36	-		3984	M
M	4170	PHP-3	20/3	37	A	38	15/3	PHP-1 thru 5 Power Exhaust	1992	M
M	4170		-	39	B	40	-		1992	M
M	4170		-	41	C	42	-		1992	M

Largest Motor VA	7648.512
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	25921.48	25921.48	25921.48	77764.43	1.00	77764
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	0	0	1.00	0
Load Totals	25921.48	25921.48	25921.48	77764.43	1.00	77764.434
VA of Largest Motor				7648.512	0.25	1912.128
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	26558.9	26558.9	26558.9			
Load Balance	100.0%	100.0%	100.0%			
VA Load This Panel						79676.6
Amperage This Panel Per Largest Phase VA						95.9

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

EXISTING PANEL 'H3' SCHEDULE

Panel Name: H3			Bus Rating: 200A							
Voltage & Phase: 480Y/277 - 3Ø - 4W			A/C Rating: (E)							
Mounting: Surface			Main Type: Lugs Only							
Enclosure Rating: NEMA 1			Upstream Feed Size: 200A							
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
L	1116	Lighting - Canal Storage	20/1	1	A	2				
L	1240	Lighting - Warehouse - NE	20/1	3	B	4				
L	744	Lighting - Warehouse - NW	20/1	5	C	6				
L	868	Lighting - Warehouse - SE	20/1	7	A	8	20/2	(E) Exterior Lighting - Parking Lot	1000	L
L	992	Lighting - Warehouse - SW	20/1	9	B	10	-		1000	L
L	1488	Lighting - Canal Storage	20/1	11	C	12	20/1	(E) Exterior Lighting - East Cans	500	L
		Spare	20/1	13	A	14	20/2	(E) Exterior Lighting - Parking Lot		L
L	500	(E) Lighting - Wall Packs	20/1	15	B	16	-			
L	500	(E) Lighting - Wall Packs	20/1	17	C	18				
				19	A	20				
				21	B	22	20/2	(E) Exterior Lighting - Parking Lot	1000	L
				23	C	24	-		1000	L
				25	A	26				
				27	B	28				
				29	C	30				
				31	A	32				
				33	B	34				
				35	C	36				
				37	A	38				
				39	B	40				
				41	C	42				

Largest Motor VA	0
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	2984	4732	4232	11948	1.25	14935
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	0	0	1.00	0
Load Totals	2984	4732	4232	11948	1.25	14935
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	3730.0	5915.0	5290.0			
Load Balance	74.9%	118.8%	106.3%			
VA Load This Panel						14935.0
Amperage This Panel Per Largest Phase VA						21.4

RELOCATED PANEL 'H4' SCHEDULE

Panel Name: H4			Bus Rating: 200A							
Voltage & Phase: 480Y/277 - 3Ø - 4W			A/C Rating: (E)							
Mounting: Surface			Main Type: Lugs Only							
Enclosure Rating: NEMA 1			Upstream Feed Size: 200A							
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	30/3	1	A	2	30/3	Spare		
			-	3	B	4	-			
			-	5	C	6	-			
		Spare	30/3	7	A	8	20/3	Spare		
			-	9	B	10	-			
			-	11	C	12	-			
		Spare	20/3	13	A	14	20/3	Spare		
			-	15	B	16	-			
			-	17	C	18	-			
		Spare	20/3	19	A	20	20/3	Spare		
			-	21	B	22	-			
			-	23	C	24	-			
		Spare	20/3	25	A	26				
			-	27	B	28				
			-	29	C	30				
				31	A	32				
				33	B	34				
				35	C	36				
				37	A	38				
				39	B	40				
				41	C	42				
Largest Motor VA		0								

Largest Motor VA	0
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	0	0	1.00	0
Load Totals	0	0	0	0	1.00	0
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	0.0	0.0	0.0			
Load Balance	0.0%	0.0%	0.0%			
VA Load This Panel						0.0
Amperage This Panel Per Largest Phase VA						0.0

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

ELECTRICAL PANEL
SCHEDULES

SHEET NO.

E0.2

EXISTING PANEL 'DP1' SCHEDULE

Panel Name: DP1				Bus Rating: 600A						
Voltage & Phase: 240/120 - 3Ø - 4W				A/C Rating: (E)						
Mounting: Surface				Main Type: Circuit Breaker						
Enclosure Rating: NEMA 1				MCB Rating: 600A						
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
				1	A	2				
				3	B	4				
				5	C	6				
				7	A	8				
		(E) Panel P9	150/3	9	B	10	200/3	(E) Spare		
			-	11	C	12	-			
			-	13	A	14	-			
O	5105	(E) Panel P10	100/2	15	B	16	200/3	(E) Spare		
O	4025		-	17	C	18	-			
			-	19	A	20	-			
		Main Breaker	600/3	21	B	22	200/3	(E) Panel P2	24190	O
			-	23	C	24	-		23734	O
			-	25	A	26	-		23734	O
			-	27	B	28	200/3	(E) Panel P1	20476	O
			-	29	C	30	-		24146	O
			-	31	A	32	-		24226	O
Largest Motor VA		6055.072								
Largest Motor Phases:		A,B,C								
Subfeed Breaker to Panel:										

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	47959.76	49771.15	51905	149635.9	1.00	149636
Load Totals	47959.76	49771.15	51905	149635.9	1.00	149635.91
VA of Largest Motor				6055.072	0.25	1513.768
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	48464.4	50275.7	52409.6			
Load Balance	96.2%	99.8%	104.0%			
VA Load This Panel						151149.7
Amperage This Panel Per Largest Phase VA						378.2

EXISTING PANEL 'P10' SCHEDULE

Panel Name: P10					Bus Rating: 100A					
Voltage & Phase: 120/240V - 1Ø - 3W					A/C Rating: (E)					
Mounting: Surface					Main Type: Lugs Only					
Enclosure Rating: NEMA 1					Upstream Feed Size: 100A					
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	20/2	1	A	2	20/1	Recept - Storage	1080	R
			-	3	B	4	20/1	Spare		
R	900	Recept - Machine Shop	20/1	5	A	6	20/1	Spare		
		Spare	30/2	7	B	8	30/1	Spare		
			-	9	A	10	30/2	WH-3	2500	H
R	900	Recept - Machine Shop	20/1	11	B	12	-		2500	H
Largest Motor VA		0								
Largest Motor Phases:		A,B,C								
Subfeed Breaker to Panel:										

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	1980	900	0	2880	1.00	2880
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	2500	2500	0	5000	1.25	6250
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	0	0	1.00	0
Load Totals	4480	3400	0	7880	1.16	9130
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	5105.0	4025.0	0.0			
Load Balance	111.8%	88.2%	0.0%			
VA Load This Panel						9130.0
Amperage This Panel Per Largest Phase VA						42.5

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

EXISTING PANEL 'P2' SCHEDULE

Panel Name: P2					Bus Rating: 200A					
Voltage & Phase: 240/120 - 3Ø - 4W					A/C Rating: (E)					
Mounting: Surface					Main Type: Lugs Only					
Enclosure Rating: NEMA 1					Upstream Feed Size: 200A					
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
O	3984	Welder	60/3	1	A	2	20/3	EF-3	1513	M
O	3984		-	3	B	4	-		1513	M
O	3984		-	5	C	6	-		1513	M
O	1150	Lathe	20/3	7	A	8	15/1	EF-4	437	M
O	1150		-	9	B	10	15/2	EF-5	961	M
O	1150		-	11	C	12	-		961	M
L	435	Lighting - Machine / Storage / Locker	20/1	13	A	14	20/3	EF-6	1513	M
		Spare	20/1	15	B	16	-		1513	M
				17	C	18	-		1513	M
		Spare	20/1	19	A	20	30/3	Canal Storage Equipment	2656	O
				21	B	22	-		2656	O
				23	C	24	-		2656	O
O	2656	Canal Storage Equipment	30/3	25	A	26	30/3	Warehouse Equipment	2656	O
O	2656		-	27	B	28	-		2656	O
O	2656		-	29	C	30	-		2656	O
O	2656	Canal Storage Equipment	30/3	31	A	32	30/3	Warehouse Equipment	2656	O
O	2656		-	33	B	34	-		2656	O
O	2656		-	35	C	36	-		2656	O
M	437	EF-7	15/1	37	A	38	20/3	Mill	1333	M
				39	B	40	-		1333	M
				41	C	42	-		1333	M
Largest Motor VA		4539.226								
Largest Motor Phases:		A,B,C								
Subfeed Breaker to Panel:										

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	5233.661	5320.4	5320.4	15874.46	1.00	15874
L = Lighting	434.5	0	0	434.5	1.25	543
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	18413.39	18413.39	18413.39	55240.18	1.00	55240
Load Totals	24081.56	23733.8	23733.8	71549.15	1.00	71657.772
VA of Largest Motor				4539.226	0.25	1134.8064
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	24568.4	24112.1	24112.1			
Load Balance	101.3%	99.4%	99.4%			
VA Load This Panel						72792.6
Amperage This Panel Per Largest Phase VA						177.3

Notes:
240Ø Panel, High Leg is C Phase

EXISTING PANEL 'P1' SCHEDULE

Panel Name: P1					Bus Rating: 200A					
Voltage & Phase: 240/120 - 3Ø - 4W					A/C Rating: (E)					
Mounting: Surface					Main Type: Lugs Only					
Enclosure Rating: NEMA 1					Upstream Feed Size: 200A					
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	50/2	1	A	2	50/2	Spare		
			-	3	B	4	-			
M	2018	Air Compressor	30/3	5	C	6	60/3	Welder	3984	O
M	2018		-	7	A	8	-		3984	O
M	2018		-	9	B	10	-		3984	O
O	903	Band Saw	20/3	11	C	12	60/3	Welder	3984	O
O	903		-	13	A	14	-		3984	O
O	903		-	15	B	16	-		3984	O
O	2656	Iron Worker	40/3	17	C	18	60/3	Welder	3984	O
O	2656		-	19	A	20	-		3984	O
O	2656		-	21	B	22	-		3984	O
O	831	Drill Press	20/3	23	C	24	20/3	Grinder	776	O
O	831		-	25	A	26	-		776	O
O	831		-	27	B	28	-		776	O
M	800	HP-1 / FC-1	20/2	29	C	30				
M	800		-	31	A	32				
R	540	Recept - Warehouse	20/1	33	B	34	20/1	Recept - Warehouse	540	R
				35	C	36				
R	540	Recept - Warehouse	20/1	37	A	38				
R	180	Recept - HVAC Conv.	20/1	39	B	40	40/2	WH-2	3000	H
R	540	Recept - HVAC Conv.	20/1	41	C	42	-		3000	H

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	540	1260	540	2340	1.00	2340
K = Kitchen	0	0	0	0	1.00	0
M = Motor	2818.236	2018.476	2818.236	7654.947	1.00	7655
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	3000	3000	6000	1.25	7500
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	17117.73	17117.73	17117.73	51353.19	1.00	51353
Load Totals	20475.97	23396.21	23475.97	67348.14	1.02	68848.137
VA of Largest Motor				6055.072	0.25	1513.768
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	20980.6	24650.8	24730.6			
Load Balance	89.5%	105.1%	105.4%			
VA Load This Panel						70361.9
Amperage This Panel Per Largest Phase VA						178.5

Notes:
240Ø Panel, High Leg is C Phase

EXISTING PANEL 'DP2' SCHEDULE												
Panel Name: DP2				Bus Rating: 600A								
Voltage & Phase: 208Y/120 - 3Ø - 4W				A/C Rating: (E)								
Mounting: Surface				Main Type: Circuit Breaker								
Enclosure Rating: NEMA 1				MCB Rating: 600A								
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code		
				1	A	2						
				3	B	4						
				5	C	6						
				7	A	8						
				9	B	10	200/3	(E) Air Compressor	14411	M		
				11	C	12	-		14411	M		
				13	A	14	-		14411	M		
O	9083	(E) Panel L2		200/3	15	B	16	200/3	(E) Panel L1	12134	O	
O	10311			-	17	C	18	-	10334	O		
O	9974			-	19	A	20	-	6498	O		
		Main Breaker		600/3	21	B	22	200/3	(E) Panel P3	8400	O	
				-	23	C	24	-	11929	O		
				-	25	A	26	-	11929	O		
				-	27	B	28	200/3	(E) Panel L3			
				-	29	C	30	-				
				-	31	A	32	-				
Largest Motor VA			1456									
Largest Motor Phases:			C,A									
Subfeed Breaker to Panel:												
Load Code		VA Load per Phase			Calculation							
		A	B	C	Total VA	Mult.	VA Load					
R = Recept		0	0	0	0	1.00	0					
K = Kitchen		0	0	0	0	1.00	0					
M = Motor		14411.09	14411.09	14411.09	43233.26	1.00	43233					
L = Lighting		0	0	0	0	1.25	0					
H = Heat		0	0	0	0	1.25	0					
PV = Solar		0	0	0	0	1.25	0					
EV = Elec. Vehicle		0	0	0	0	1.25	0					
O = Other		28400.19	29617.01	32573.62	90590.83	1.00	90591					
Load Totals		42811.28	44028.1	46984.71	133824.1	1.00	133824.08					
VA of Largest Motor					1456	0.25	364					
Subfeed VA Loads		0.0	0.0	0.0								
Total VA Loads		42993.3	44028.1	47166.7								
Load Balance		96.1%	98.4%	105.4%								
		VA Load This Panel						134188.1				
		Amperage This Panel Per Largest Phase VA						393.1				

RELOCATED PANEL 'L2' SCHEDULE												
Panel Name: L2				Bus Rating: 200A								
Voltage & Phase: 208Y/120 - 3Ø - 4W				A/C Rating: (E)								
Mounting: Surface				Main Type: Lugs Only								
Enclosure Rating: NEMA 1				Upstream Feed Size: 200A								
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code		
R	720	Recept - Office 102	20/1	1	A	2	20/1	Lighting - Offices, Break	940	L		
R	1260	Recept - Conf Room 103	20/1	3	B	4	20/1	Lighting - Hall, Offices, Lobby	1223	L		
R	720	Recept - Office 104	20/1	5	C	6	20/1	Drinking Fountain	600	R		
R	720	Recept - Office 105	20/1	7	A	8	20/1	Recept - Server	1000	R		
R	900	Recept - Break 106	20/1	9	B	10	20/1	Recept - Server	540	R		
R	720	Recept - Reception/Foyer	20/1	11	C	12	20/1	Recept - Server	1000	R		
R	720	Recept - Office 124	20/1	13	A	14	20/1	Spare				
R	720	Recept - Office 125	20/1	15	B	16	20/1	Recept - Hydro Lab	360	R		
R	360	Recept - Hall/Lactation	20/1	17	C	18	20/1	EF-2	472	M		
R	540	Recept - RR/Janitor	20/1	19	A	20	20/1	Recept - HVAC Conv	360	R		
R	720	Recept - Print/Safety Plan	20/1	21	B	22	20/1	Recept - SCADA	720	R		
R	720	Recept - Office 134	20/1	23	C	24	20/1	Refrigerator	800	K		
R	1440	Recept - Open Office 130	20/1	25	A	26	20/1	Printer	1500	O		
		Spare	20/1	27	B	28	20/1	Spare				
		Spare	20/1	29	C	30	20/1	Spare				
R	1440	Recept - Open Office 130	20/1	31	A	32	20/1	Spare				
		Spare	20/1	33	B	34	20/1	Spare				
		Spare	20/1	35	C	36	25/2	HP-2 / FC-2	807	M		
		Spare	20/1	37	A	38	-		807	M		
H	3016	WH-1	40/2	39	B	40	20/2	HP-3 / FC-3	800	M		
H	3016		-	41	C	42	-		800	M		
Largest Motor VA			1456									
Largest Motor Phases:			C,A									
Subfeed Breaker to Panel:												
Load Code		VA Load per Phase			Calculation							
		A	B	C	Total VA	Mult.	VA Load					
R = Recept		6940	5220	4120	16280	0.81	13140					
K = Kitchen		0	0	800	800	1.00	800					
M = Motor		807.04	799.76	2078.3	3685.1	1.00	3685					
L = Lighting		940	1222.5	0	2162.5	1.25	2703					
H = Heat		0	3016	3016	6032	1.25	7540					
PV = Solar		0	0	0	0	1.25	0					
EV = Elec. Vehicle		0	0	0	0	1.25	0					
O = Other		1500	0	0	1500	1.00	1500					
Load Totals		10187.04	10258.26	10014.3	30459.6	0.96	29368.225					
VA of Largest Motor					1456	0.25	364					
Subfeed VA Loads		0.0	0.0	0.0								
Total VA Loads		9265.5	10311.1	10155.7								
Load Balance		93.5%	104.0%	102.5%								
		VA Load This Panel						29732.2				
		Amperage This Panel Per Largest Phase VA						85.9				

EXISTING PANEL 'P3' SCHEDULE

Panel Name: P3				Bus Rating: 200A						
Voltage & Phase: 208Y/120 - 3Ø - 4W				A/C Rating: (E)						
Mounting: Surface				Main Type: Lugs Only						
Enclosure Rating: NEMA 1				Upstream Feed Size: 200A						
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
				1	A	2	20/3	Spare		
				3	B	4	-			
		Spare	20/1	5	C	6	-			
		Spare	20/1	7	A	8	60/3	Spare		
		Spare	20/1	9	B	10	-			
		Spare	20/1	11	C	12	-			
		Spare	20/1	13	A	14	20/1	Spare		
		Spare	20/2	15	B	16	20/1	Spare		
			-	17	C	18	20/1	Spare		
				19	A	20	20/1	Spare		
M	229	Vehicle Gate	20/2	21	B	22	20/2	Spare		
M	229		-	23	C	24	-			
O	600	Warehouse Louvers	20/1	25	A	26	20/2	Spare		
		Spare	20/1	27	B	28	-			
				29	C	30	30/2	Spare		
EV	3120	EV Charger	40/2	31	A	32	-			
EV	3120		-	33	B	34	40/3	Spare		
EV	3120	EV Charger	40/2	35	C	36	-			
EV	3120		-	37	A	38	-			
EV	3120	EV Charger	40/2	39	B	40	40/2	EV Charger	3120	EV
EV	3120		-	41	C	42	-		3120	EV
Largest Motor VA		457.6								
Largest Motor Phases:		B,C								
Subfeed Breaker to Panel:										

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	228.8	228.8	457.6	1.00	458
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	6240	9360	9360	24960	1.25	31200
O = Other	600	0	0	600	1.00	600
Load Totals	6840	9588.8	9588.8	26017.6	1.24	32257.6
VA of Largest Motor				457.6	0.25	114.4
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	8400.0	11986.0	11986.0			
Load Balance	77.8%	111.1%	111.1%			
VA Load This Panel				32372.0		
Amperage This Panel Per Largest Phase VA				99.9		

EXISTING PANEL 'DP3' SCHEDULE

Panel Name: DP3				Bus Rating: 600A						
Voltage & Phase: 208Y/120 - 3Ø - 4W				AIC Rating: (E)						
Mounting: Surface				Main Type: Circuit Breaker						
Enclosure Rating: NEMA 1				MCB Rating: 600A						
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
				1	A	2	100/3	(N) Pnl L4		
				3	B	4	-			
				5	C	6	-			
				7	A	8				
				9	B	10				
				11	C	12				
				13	A	14				
O	0	(E) Panel P7	200/3	15	B	16	200/3	Spare		
O	0		-	17	C	18	-			
O	0		-	19	A	20	-			
		Main Breaker	600/3	21	B	22	200/3	(N) Panel P5	4933	O
			-	23	C	24	-		6115	O
			-	25	A	26	-		4770	O
			-	27	B	28				
			-	29	C	30				
			-	31	A	32				

Largest Motor VA	0
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	0	0	0	0	1.00	0
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	0	0	0	0	1.25	0
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	4770.086	4932.888	6114.526	15817.5	1.00	15818
Load Totals	4770.086	4932.888	6114.526	15817.5	1.00	15817.5
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	4770.1	4932.9	6114.5			
Load Balance	90.5%	93.6%	116.0%			
	VA Load This Panel					15817.5
	Amperage This Panel Per Largest Phase VA					51.0

RELOCATED PANEL 'P5' SCHEDULE

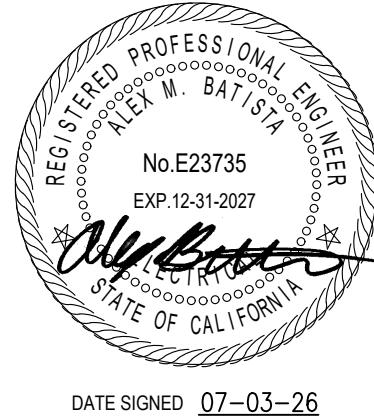
Panel Name: P5			Bus Rating: 200A							
Voltage & Phase: 208Y/120 - 3Ø - 4W			AIC Rating: 10kAIC							
Mounting: Surface			Main Type: Lugs Only							
Enclosure Rating: NEMA 1			Upstream Feed Size: 200A							
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
		Spare	30/1	1	A	2	20/1	Recept - Open Office	360	R
		Spare	20/2	3	B	4	20/1	Recept - Mezzanine	540	R
			-	5	C	6	20/1	Recept - HVAC Conv	180	R
		Spare	20/3	7	A	8	30/2	Spare		
			-	9	B	10	-			
			-	11	C	12	30/2	Spare		
R	1080	Recept - Conf Room 145	20/1	13	A	14	-			
R	1080	Recept - Conf Room 145	20/1	15	B	16	50/2	Spare		
R	900	Recept - Electrical Workshop	20/1	17	C	18	-			
R	900	Recept - Electrical Workshop	20/1	19	A	20	20/2	Spare		
R	500	Recept - Electrical Workshop	20/1	21	B	22	-			
R	500	Recept - Electrical Workshop	20/1	23	C	24	-			
L	175	Lighting - Mezzanine	20/1	25	A	26	20/1	Recept - Office 142	720	R
L	1269	Lighting - Open Offices, Work Area	20/1	27	B	28	20/1	Recept - Office 143	720	R
L	1410	Lighting - Workshop, Conf, Offices	20/1	29	C	30	20/1	Recept - Office 144	720	R
R	720	Recept - Office 131	20/1	31	A	32	20/1	Recept - Office 146	720	R
R	720	Recept - Office 132	20/1	33	B	34	20/1	Recept - Office 147	720	R
		Spare	20/1	35	C	36	20/3	Spare		
R	1080	Recept - Crew Work Area 133	20/1	37	A	38	-			
R	1080	Recept - Crew Work Area 133	20/1	39	B	40	-			
R	1260	Recept - Crew Work Area 133	20/1	41	C	42	-			

Largest Motor VA	0
Largest Motor Phases:	A,B,C
Subfeed Breaker to Panel:	

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	5580	5360	3560	14500	0.84	12250
K = Kitchen	0	0	0	0	1.00	0
M = Motor	0	0	0	0	1.00	0
L = Lighting	175	1269	1410	2854	1.25	3568
H = Heat	0	0	0	0	1.25	0
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	0	0	1.00	0
Load Totals	5755	6629	4970	17354	0.91	15817.5
VA of Largest Motor				0	0.25	0
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	4932.9	6114.5	4770.1			
Load Balance	93.6%	116.0%	90.5%			
	VA Load This Panel					15817.5
	Amperage This Panel Per Largest Phase VA					51.0

Notes:
- Panel AIC rating based on wire size and length

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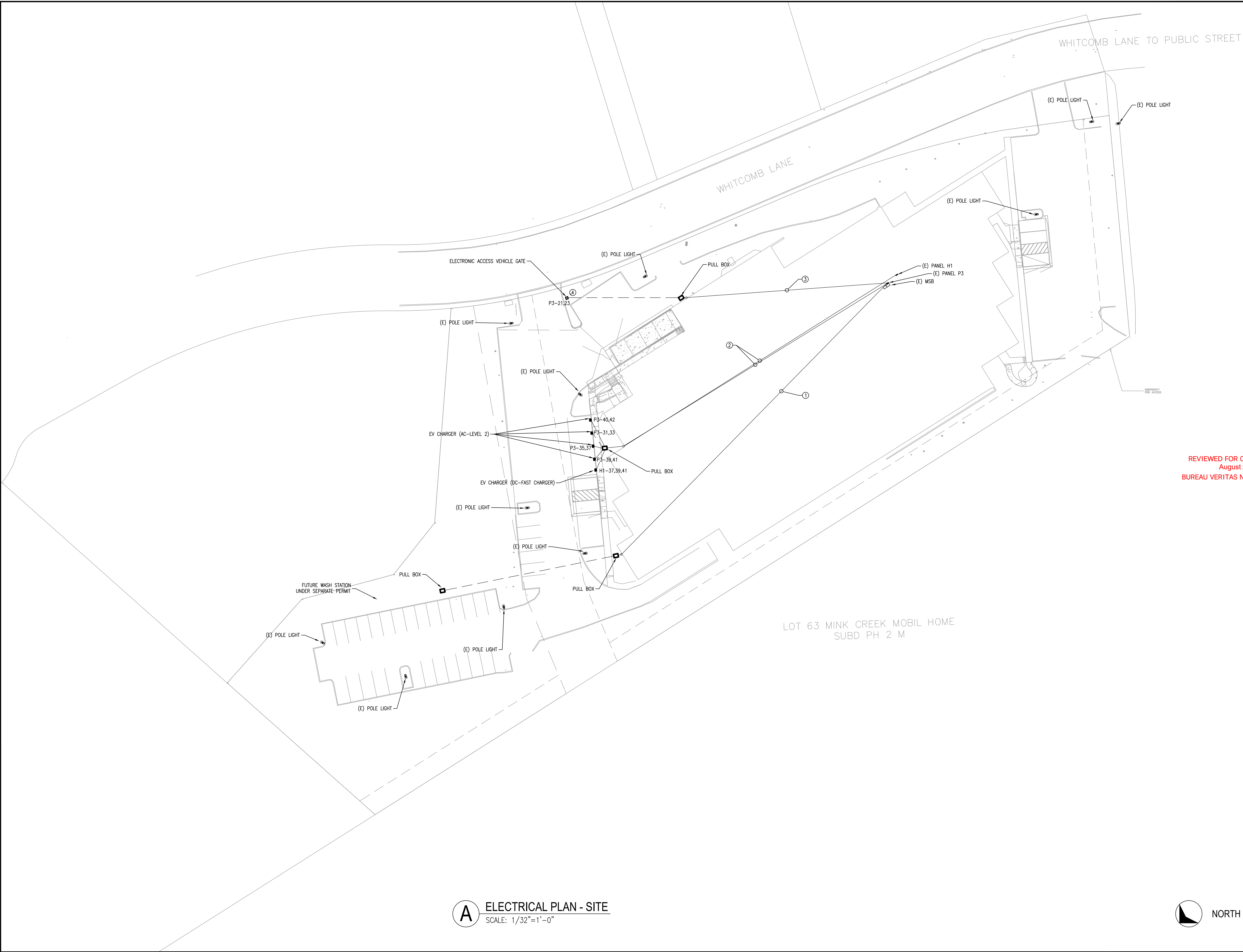


N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PANEL SCHEDULES
SHEET NO.	E0.5



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL LIGHT FIXTURES/CONTROLS SHOWN ARE (N) U.O.N.
 - ALL EQUIPMENT AND POWER/CONDUIT SHOWN ARE (N) U.O.N.
 - ALL WIRING TO BE #12 AWG CU AND ALL CONDUIT TO BE 1" U.O.N.
 - ALL UNDERGROUND CONDUIT SHALL BE PVC U.O.N. AND HAVE A MINIMUM BURIAL DEPTH PER CEC TABLE 300.5
 - ALL OUTDOOR LIGHTING AND CONTROLS ARE EXISTING TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING FUNCTIONALITY AND REPLACE FIXTURES/CONTROLS AS NEEDED

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KEY NOTES:

- PROVIDE (2) 2" CONDUITS TO THE FUTURE WASH STATION UNDER A SEPARATE PERMIT
- PROVIDE THE FOLLOWING FOR EV CHARGERS:

(4) SETS OF:
(2) #8 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT

(1) SET OF:
(2) #6 CU THWN-2
(1) #8 CU GND
3/4" CONDUIT
- PROVIDE THE FOLLOWING FOR THE MOTORIZED GATE:

3/4" CONDUIT:
(2) #8 CU THWN-2, (1) #10 CU GND

1" SIGNAL CONDUIT:
INSIDE THE GATE MOTOR ENCLOSURE FOR FUTURE CONTROLS INTEGRATION
- INSTALL GATE OPERATOR AND ALL ASSOCIATED CONTROLS FOR A FULLY FUNCTIONING GATE SYSTEM. COORDINATE WITH OWNER SPECIFIC CONTROLS, INCLUDING BUT NOT LIMITED TO, KEYPAD AND LOOP DETECTION SYSTEMS. PROVIDE ALL UNDERGROUND CONDUIT/CABLES FOR GATE CONTROLS AS NEEDED. INSTALL A FIELD SUPPLIED GFCI CONVENIENCE RECEPTACLE IN THE MANUFACTURER OUTLET BOX INSIDE THE MOTOR ENCLOSURE

A ELECTRICAL PLAN - SITE
SCALE: 1/32"=1'-0"



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PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE

ELECTRICAL PLAN
SITE

SHEET NO.

E1.0

SHEET NOTES:

1. (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO



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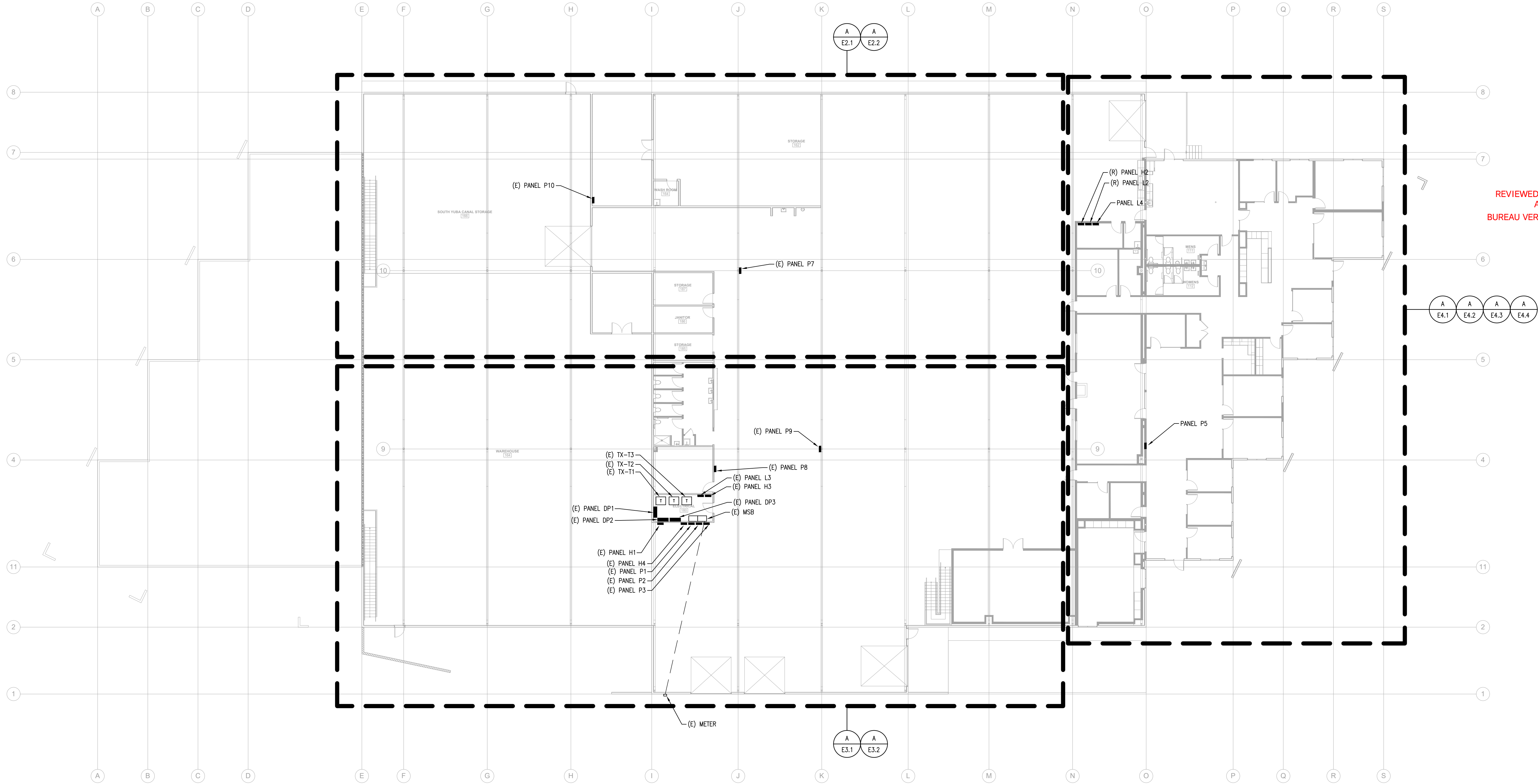
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE
ELECTRICAL PLAN
OVERALL
1ST FLOOR

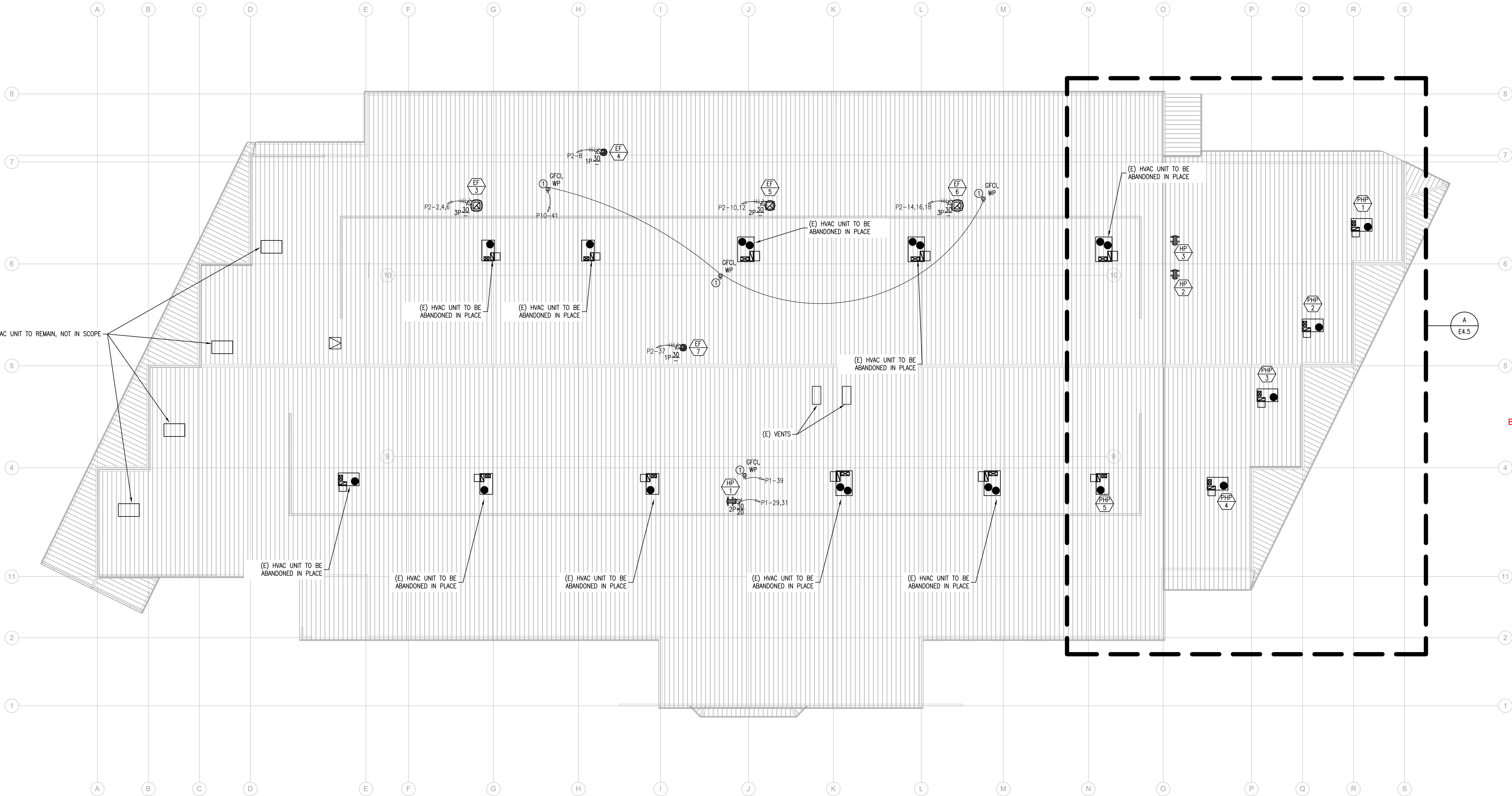
SHEET NO.

E1.1



A ELECTRICAL PLAN - OVERVIEW - 1ST FLOOR
SCALE: 1/16"=1'-0"





- SHEET NOTES:
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
 - BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
 - ALL CONDUIT/WIRING DISTRIBUTION SHOWN TO BE INSTALLED BELOW THE ROOF, U.O.N. PENETRATE ROOF IMMEDIATELY ADJACENT THE RECEPTACLE/EQUIPMENT
 - ALL DISCONNECT SWITCHES LOCATED OUTDOORS SHALL BE NEMA 3R PER CEC TABLE 110.28
 - ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER CEC 210.8 AND 406.9(B)

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- KEY NOTES:
- ① PROVIDE HVAC CONVENIENCE RECEPTACLE

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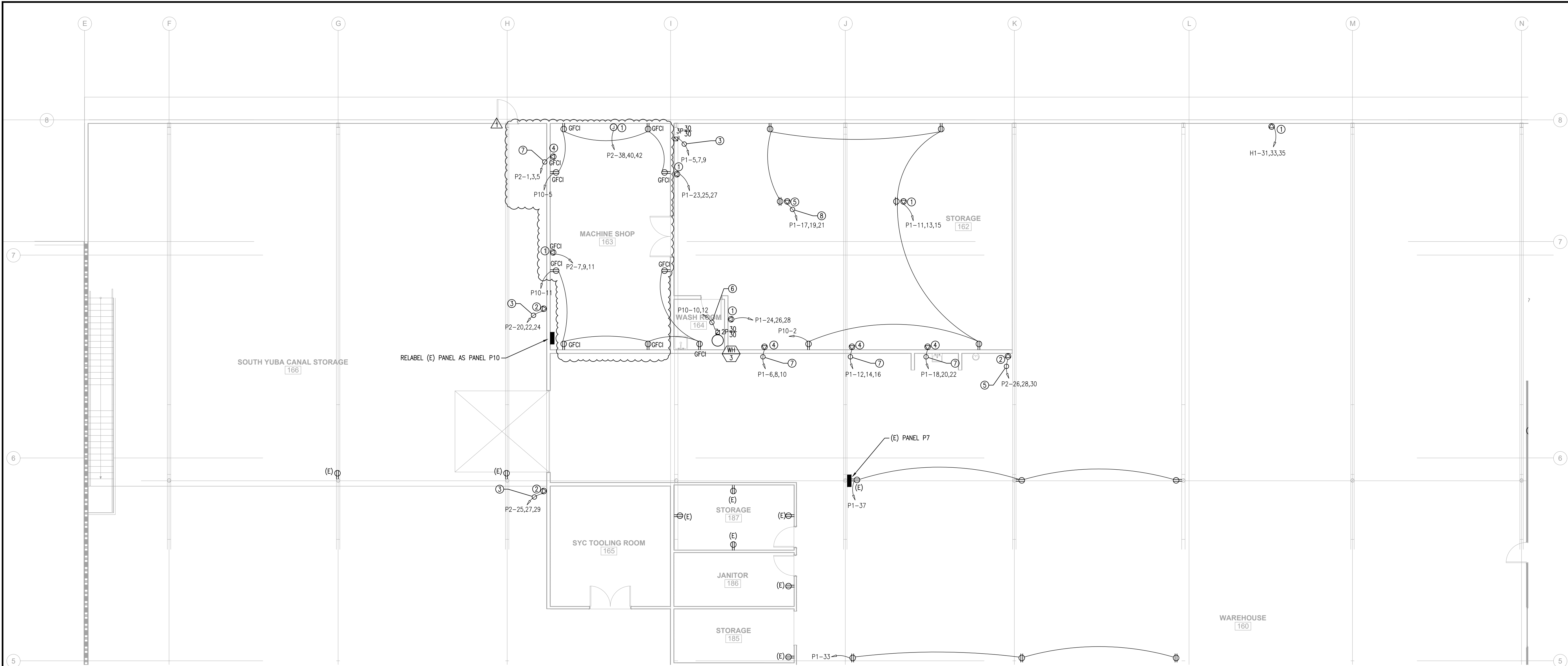
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN OVERALL ROOF

SHEET NO.
E1.2

A ELECTRICAL PLAN - OVERALL - ROOF
SCALE: 1/16"=1'-0"





SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
- BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
- BOTTOM OF BOXES FOR RECEPTACLES AND DATA PORTS SHALL BE AT 16" ABOVE FINISHED FLOOR, U.O.N.
- GFCI RECEPTACLES SHALL BE WIRED IN PARALLEL
- COORDINATE ALL POWER REQUIREMENTS WITH OWNER FOR EQUIPMENT



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KEY NOTES:

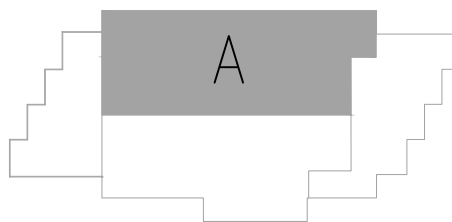
- PROVIDE NEMA 14-20R RECEPTACLE
- PROVIDE NEMA 14-30R RECEPTACLE
- (3) #10 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT
- PROVIDE NEMA 14-60R RECEPTACLE
- PROVIDE NEMA 14-40R RECEPTACLE
- (2) #10 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT
- (3) #6 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT
- (3) #8 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT



ELECTRICAL PLAN - VIEW A - POWER - 1ST FLOOR
SCALE: 1/8"=1'-0"

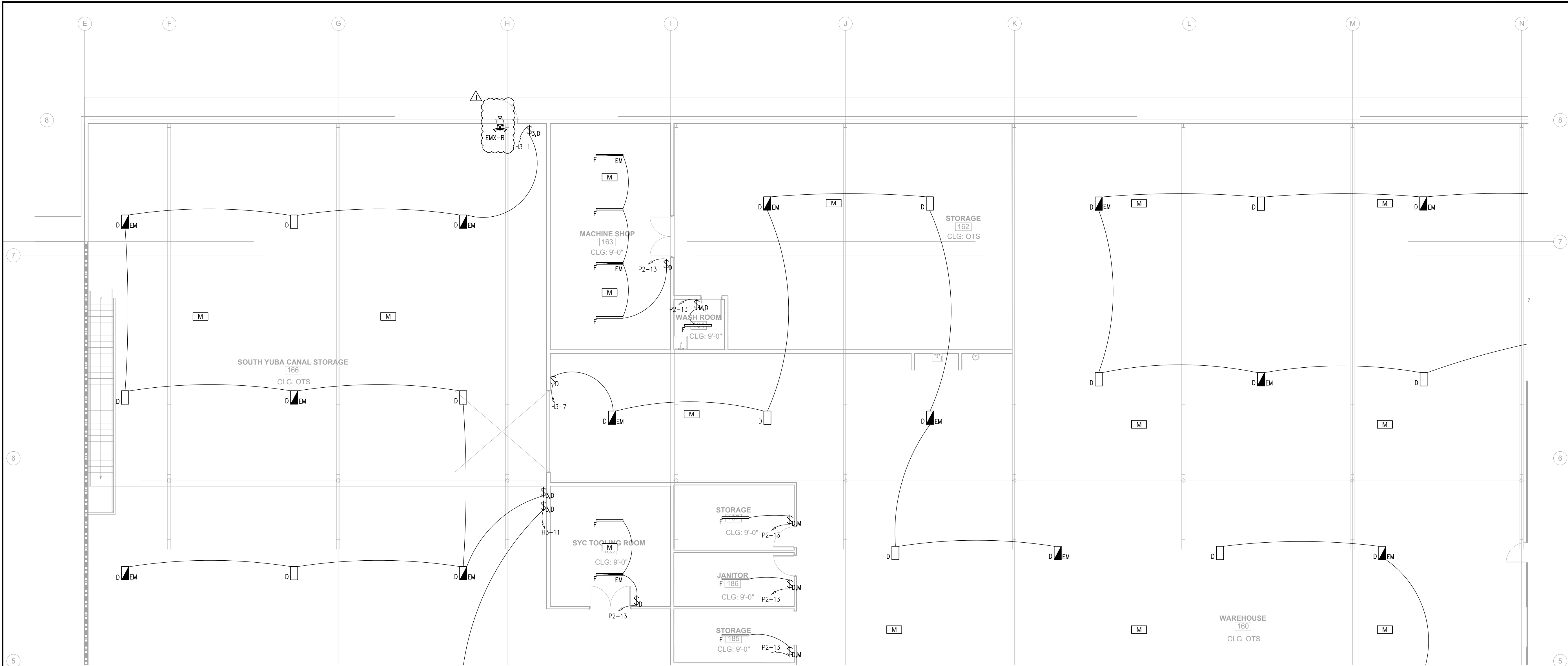


NORTH



ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN VIEW A POWER 1ST FLOOR
SHEET NO.	E2.1

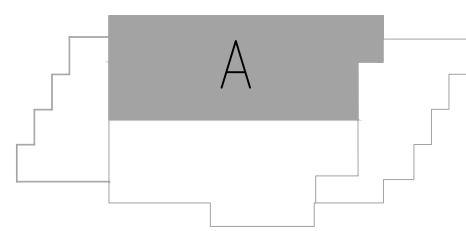


SHEET NOTES:

1. (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
2. ALL LIGHT FIXTURES/CONTROLS SHOWN ARE (N) U.O.N.
3. BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
4. TOP OF BOXES FOR SWITCHES SHALL BE AT 44" ABOVE FINISHED FLOOR, U.O.N.
5. ALL LIGHTING CONTROLS, INCLUDING BUT NOT LIMITED TO TIME SWITCHES, PHOTOSENSORS, DIMMERS, AND OCCUPANCY SENSING DEVICES SHALL COMPLY WITH CENC 110.9, 130.0-130.5, 140.6-140.8, AND 141.0. CONTROLS MAY BE SELF-CONTAINED OR PART OF A LIGHTING CONTROL SYSTEM AS DEFINED IN CENC 100.1. RECOMMENDED LIGHTING CONTROL SYSTEMS MEETING THESE REQUIREMENTS INCLUDE ACUITY NLIGHT AND COOPER WAVELINK. CONTROL ELEMENTS SHOWN ON PLANS ARE THE MINIMUM REQUIRED AND SHALL BE INCLUDED IN ANY LIGHTING CONTROL SYSTEM. CONSULT PREFERRED MANUFACTURERS FOR PRODUCT SPECIFICATION AND INSTALLATION DETAILS
6. ALL NEW LIGHT FIXTURES INSTALLED WITHIN 1/2" OF COMBUSTIBLE MATERIAL SHALL BE RATED FOR AND LABELED AS TYPE IC (INSULATION CONTACT)
7. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE. BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. CONNECT ALL EMERGENCY/EXIT LIGHT FIXTURES TO NEAREST UNSWITCHED HOT LEG LIGHTING CIRCUIT

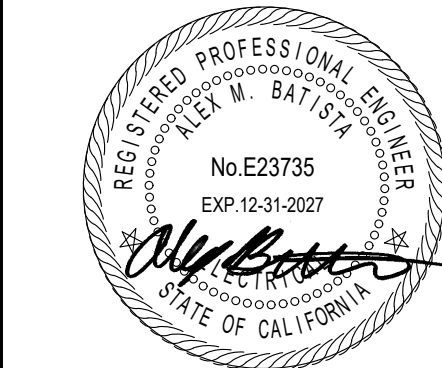
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A ELECTRICAL PLAN - VIEW A - LIGHTING - 1ST FLOOR
SCALE: 1/8"=1'-0"



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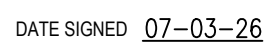
DATE SIGNED 07-03-26

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN VIEW A LIGHTING 1ST FLOOR
SHEET NO.	E2.2



- 
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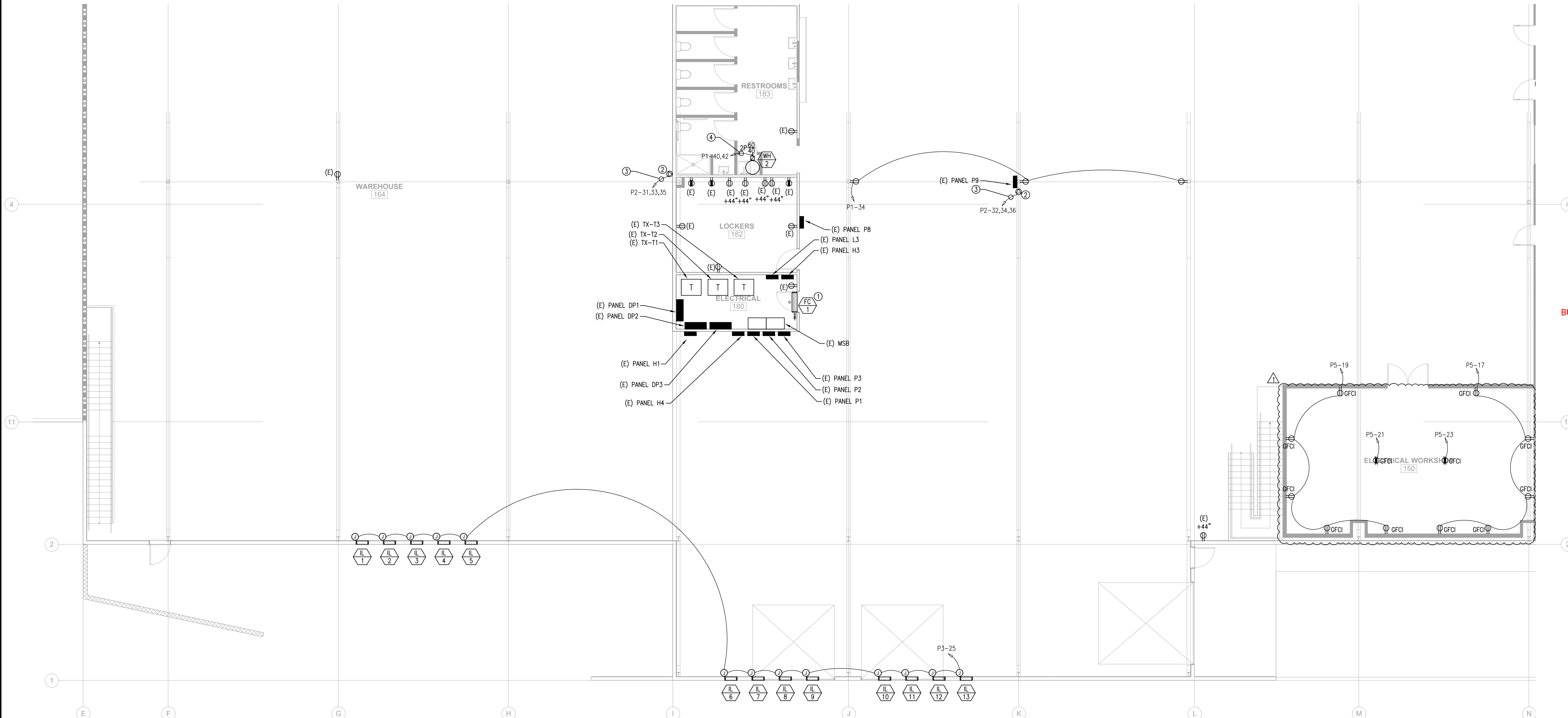
PROJECT NUMBER 25107

SHEET TITLE

ELECTRICAL PLAN
POWER
VIEW B
1ST FLOOR

SHEET NO.

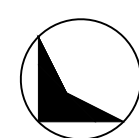
E3.1



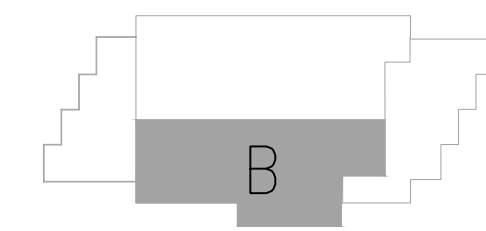
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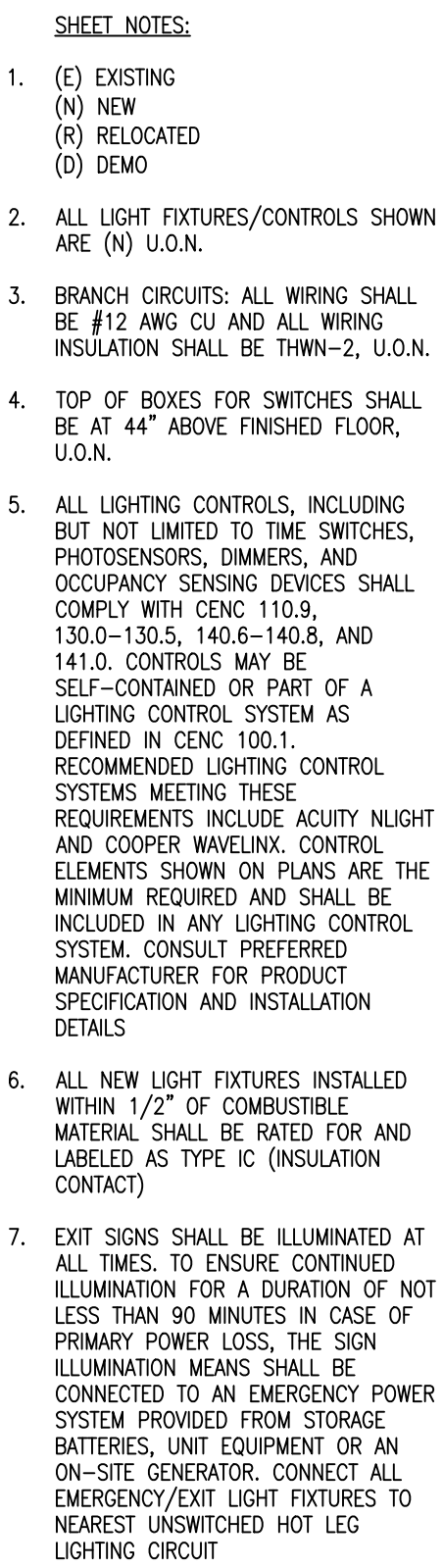
- ① INDOOR FAN COIL POWERED VIA OUTDOOR CONDENSER UNIT, PROVIDE WIRING BETWEEN INDOOR AND OUTDOOR UNITS PER MANUFACTURER REQUIREMENTS AND COORDINATE WITH MECHANICAL CONTRACTOR
- ② PROVIDE NEMA 14-30R RECEPTACLE
- ③ (3) #10 CU THWN-2
(1) #10 CU GND
3/4"Ø CONDUIT
- ④ (2) #8 CU THWN-2
(1) #10 CU GND
3/4"Ø CONDUIT

A ELECTRICAL PLAN - VIEW B - POWER - 1ST FLOOR
SCALE: 1/8"=1'-0"



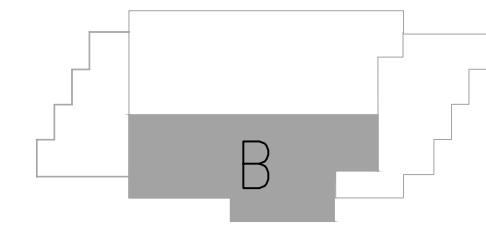
NORTH



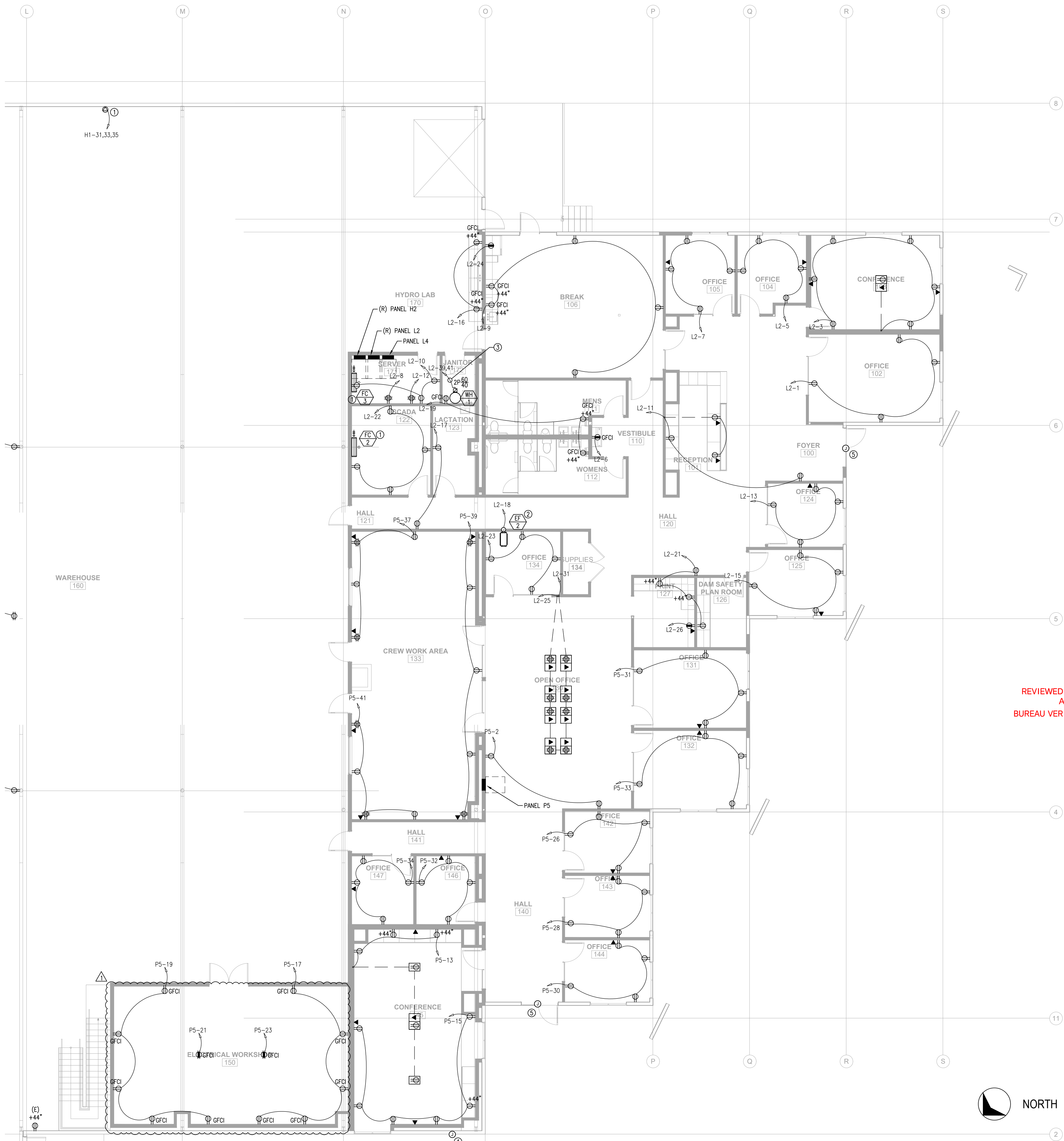


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PERMIT	03-17-26
 PLAN CHECK #1	07-03-26

E3.2

 NORTH

A ELECTRICAL PLAN - VIEW C - POWER - 1ST FLOOR
SCALE: 1/8"=1'-0"



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
- BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
- BOTTOM OF BOXES FOR RECEPTACLES AND DATA PORTS SHALL BE AT 16" ABOVE FINISHED FLOOR, U.O.N.
- GFCI RECEPTACLES SHALL BE WIRED IN PARALLEL
- COORDINATE ALL POWER REQUIREMENTS WITH OWNER FOR EQUIPMENT
- ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER CEC 210.8 AND 406.9(B)
- TOP OF BOXES FOR SWITCHES SHALL BE AT 44" ABOVE FINISHED FLOOR, U.O.N.
- SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, AND MOTOR CONTROL CENTERS THAT ARE IN OTHER THAN DWELLING OCCUPANCIES AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. CEC 110.16.
- PROVIDE 3/4" CONDUIT FROM EACH DATA RECEPTACLE UP TO CEILING SPACE. STUB WITH LABELED PULL STRING FOR FUTURE WIRING BY OTHERS. VERIFY ROUTING WITH OWNER

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- INDOOR FAN COIL POWERED VIA OUTDOOR CONDENSER UNIT. PROVIDE WIRING BETWEEN INDOOR AND OUTDOOR UNITS PER MANUFACTURER REQUIREMENTS AND COORDINATE WITH MECHANICAL CONTRACTOR
- PROVIDE TIMESWITCH FOR EXHAUST FAN TO OPERATE DURING NORMAL BUSINESS HOURS
- (2) #8 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT
- PROVIDE CONDUIT FOR FUTURE RADIO ANTENNA. COORDINATE DETAILS WITH OWNER
- PROVIDE CONDUIT IN DOOR CASEWORK FOR FUTURE ACCESS CONTROLS. COORDINATE DETAILS WITH OWNER

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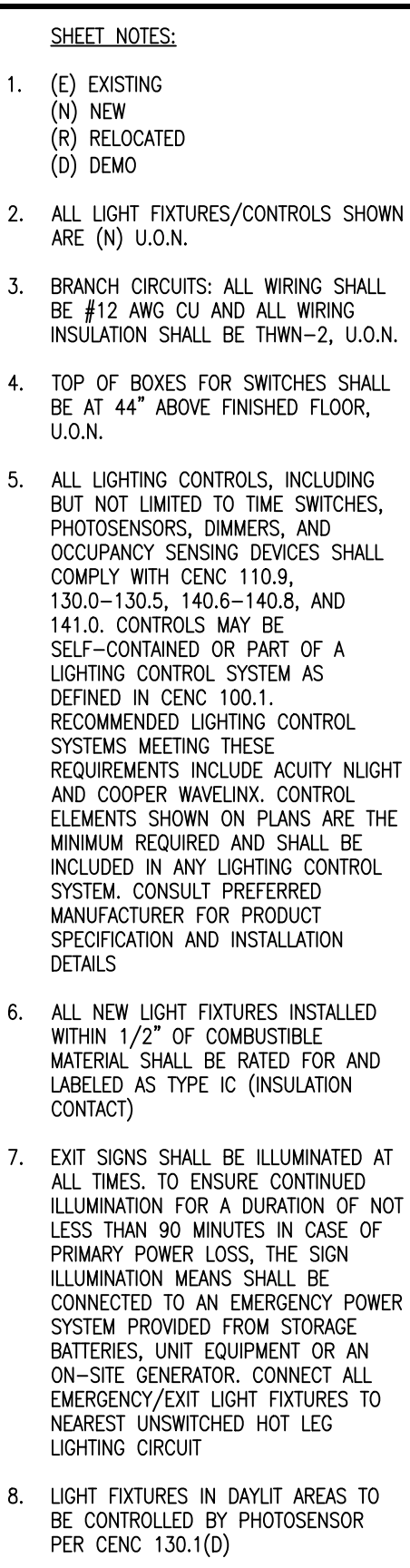
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APN: 100-230-054



DATE SIGNED 07-03-26

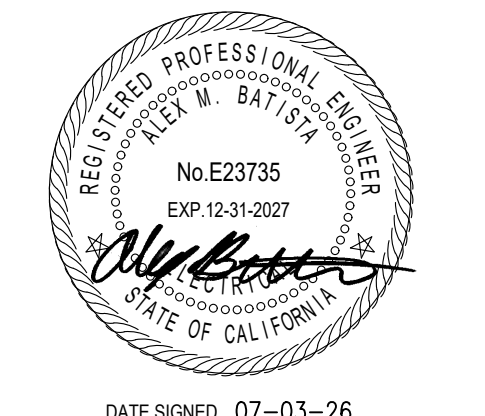
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN VIEW C POWER 1ST FLOOR
SHEET NO.	E4.1



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SHEET TITLE

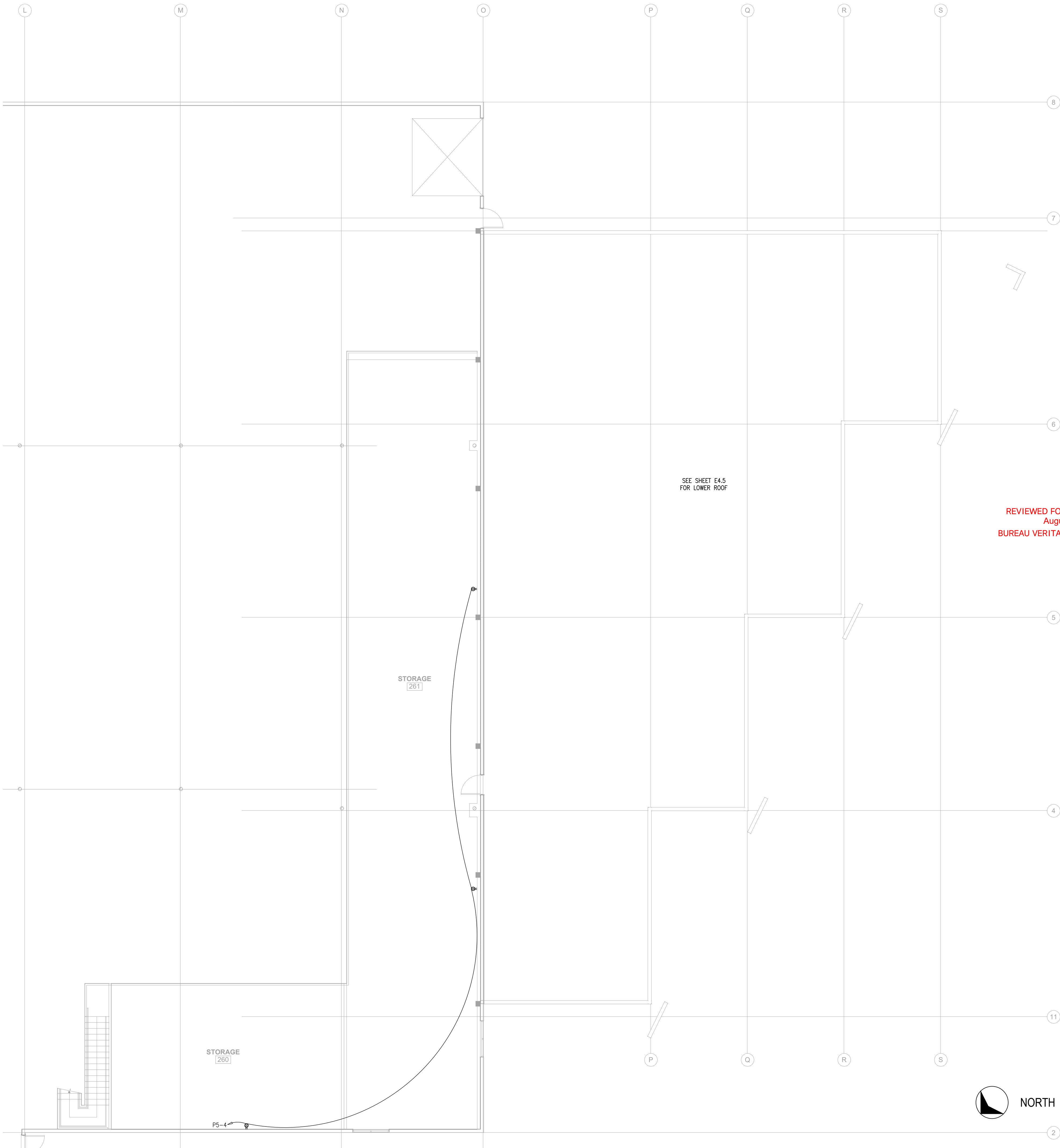
ELECTRICAL PLAN
VIEW C
LIGHTING
1ST FLOOR

SHEET NO.

E4.2

A ELECTRICAL PLAN - VIEW C - LIGHTING - 1ST FLOOR
SCALE: 1/8"=1'-0"

A ELECTRICAL PLAN - VIEW C - POWER - MEZZANINE
SCALE: 1/8"=1'-0"



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
- BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
- BOTTOM OF BOXES FOR RECEPTACLES AND DATA PORTS SHALL BE AT 16" ABOVE FINISHED FLOOR, U.O.N.



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PLAN CHECK #1	07-03-26

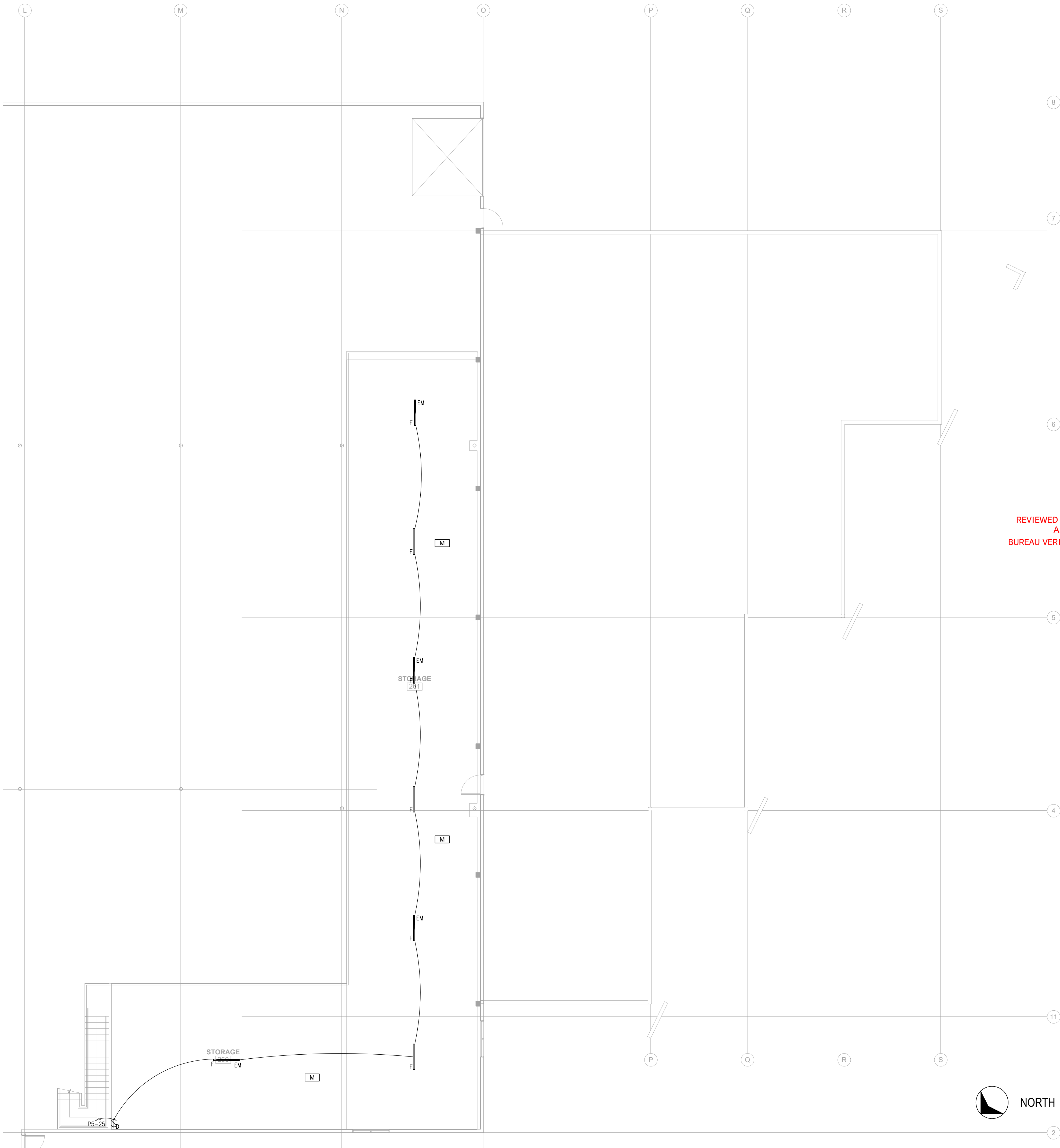
PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN VIEW C POWER MEZZANINE

SHEET NO.
E4.3

A

ELECTRICAL PLAN - VIEW C - LIGHTING - MEZZANINE

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



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL LIGHT FIXTURES/CONTROLS SHOWN ARE (N) U.O.N.
- BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
- TOP OF BOXES FOR SWITCHES SHALL BE AT 44" ABOVE FINISHED FLOOR, U.O.N.
- ALL LIGHTING CONTROLS, INCLUDING BUT NOT LIMITED TO TIME SWITCHES, PHOTOSENSORS, DIMMERS, AND OCCUPANCY SENSING DEVICES SHALL COMPLY WITH CENC 110.9, 130.0-130.5, 140.6-140.8, AND 141.0. CONTROLS MAY BE SELF-CONTAINED OR PART OF A LIGHTING CONTROL SYSTEM AS DEFINED IN CENC 100.1. RECOMMENDED LIGHTING CONTROL SYSTEMS MEETING THESE REQUIREMENTS INCLUDE ACUITY NIGHT AND COOPER WAVELINK. CONTROL ELEMENTS SHOWN ON PLANS ARE THE MINIMUM REQUIRED AND SHALL BE INCLUDED IN ANY LIGHTING CONTROL SYSTEM. CONSULT PREFERRED MANUFACTURER FOR PRODUCT SPECIFICATION AND INSTALLATION DETAILS
- ALL NEW LIGHT FIXTURES INSTALLED WITHIN 1/2" OF COMBUSTIBLE MATERIAL SHALL BE RATED FOR AND LABELED AS TYPE IC (INSULATION CONTACT)
- EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. CONNECT ALL EMERGENCY/EXIT LIGHT FIXTURES TO NEAREST UNSWITCHED HOT LEG LIGHTING CIRCUIT
- PROVIDE PARTIAL OFF OCCUPANCY SENSORS IN CORRIDORS, STAIRWELLS, STACKS, AND WAREHOUSE AISLES. ENSURE SENSOR HAS FULL-OFF CAPABILITY

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APN: 100-230-054

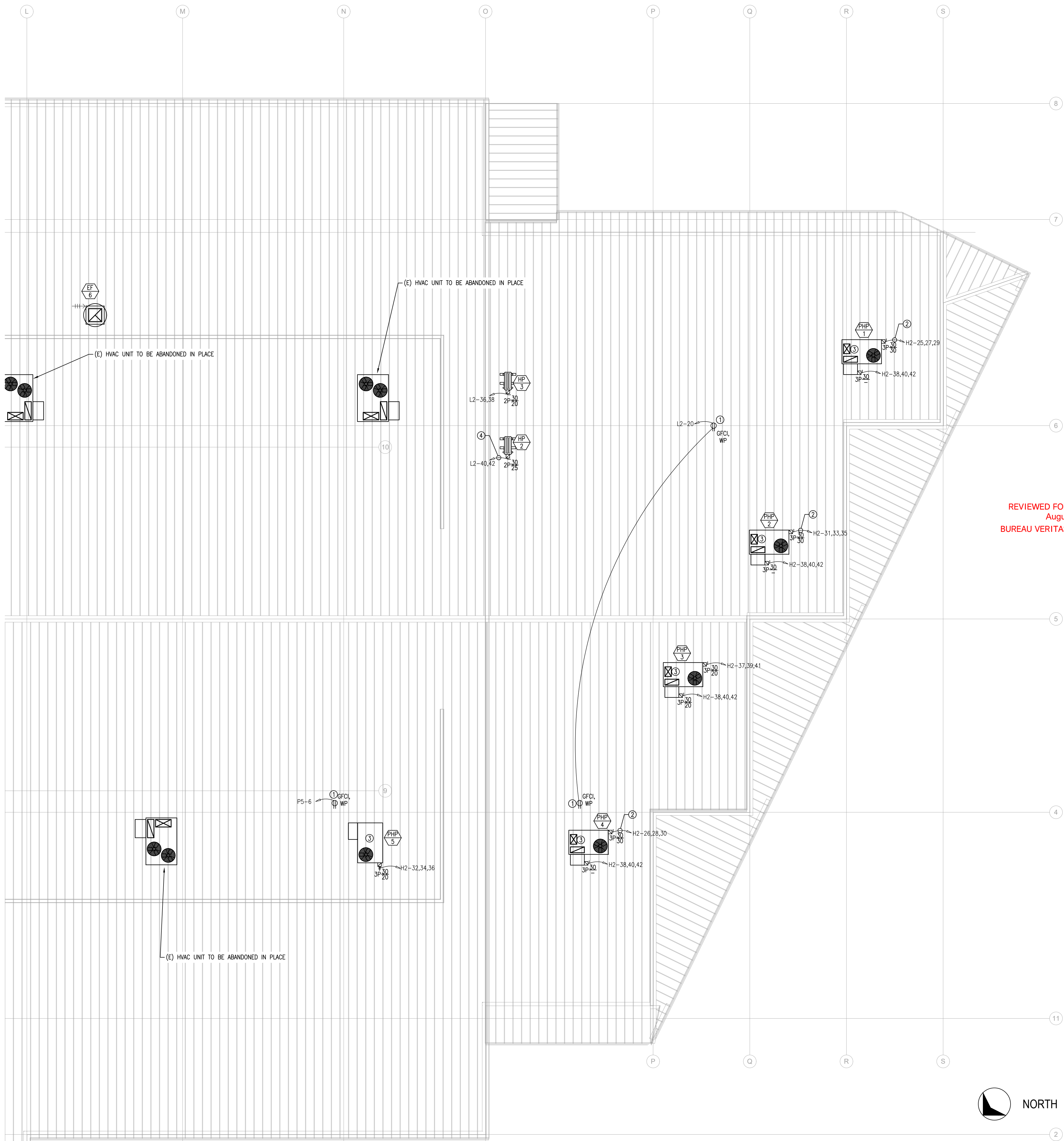
ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER 25107

SHEET TITLE
ELECTRICAL PLAN
VIEW C
LIGHTING
MEZZANINE

SHEET NO.
E4.4

A ELECTRICAL PLAN - VIEW C - ROOF
SCALE: 1/8"=1'-0"



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
- BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
- ALL CONDUIT/WIRING DISTRIBUTION SHOWN TO BE INSTALLED BELOW THE ROOF, U.O.N. PENETRATE ROOF IMMEDIATELY ADJACENT THE RECEPTACLE/EQUIPMENT
- ALL DISCONNECT SWITCHES LOCATED OUTDOORS SHALL BE NEMA 3R PER CEC TABLE 110.28
- ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER CEC 210.8 AND 406.9(B)

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

KEY NOTES:

- PROVIDE HVAC CONVENIENCE RECEPTACLE
- (3) #10 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT
- PROVIDE POWER FOR HVAC DUCT SMOKE DETECTOR, COORDINATE EXACT LOCATION AND VOLTAGE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR
- (2) #10 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

PROJECT NUMBER	25107
SHEET TITLE	ELECTRICAL PLAN VIEW C ROOF
SHEET NO.	E4.5



DATE SIGNED 07-03-26

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)(2) for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)(4) for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.
Project Name: NID Hydroelectric Field Office
Report Page: (Page 1 of 9)
Project Address: 148 Whitcomb Ave
Date Prepared: 3/17/2026

A. GENERAL INFORMATION				
01 Project Location (city)	Colfax	04 Total Conditioned Floor Area (ft²)	8,581	
02 Climate Zone	11	05 Total Unconditioned Floor Area (ft²)	37,976	
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1	
● Commercial Industrial ● Office ● Support Areas ● Warehouse				

B. PROJECT SCOPE				
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)(2) / §180.2(b)(4) for alterations.				
Scope of Work		Conditioned Spaces		Unconditioned Spaces
01	02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System		Area Category Method	8581	Area Category Method 37976
Total Area of Work (ft²)				
			8581	37976

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
Report Version: 2025.0.000
Schema Version: rev 20250101
Compliance ID: EPR-5910-0326-0098
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
Report Page: (Page 4 of 9)
Date Prepared: 3/17/2026

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
This table includes lighting controls for conditioned and unconditioned spaces.											
Building Level Controls				02				03			
01								Field Inspector			
Mandatory Demand Response §110.12(c)				Shut-off controls §130.1(c) / §160.5(b)4C				Pass Fail			
NA < 4,000W subject to multilevel				See Area/Space Level Controls (Column 8)				☐ ☐			
Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) / §160.5(b)4A	Multi-Level Controls §130.1(b) / §160.5(b)4B	Shut-Off Controls §130.1(c) / §160.5(b)4C	Primary/Sky-lit Daylighting §130.1(d) / §160.5(b)4D	Secondary Daylighting §140.6(a)(1) / §170.2(e)(2)A	Interlocked Systems §140.6(a)(2) / §170.2(e)(2)B	Field Inspector			
								Pass Fail			
Office Reception	Lounge	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: General Ltg < 75W	NA: General Ltg < 75W	No	☐	☐		
Office >250	Office (>250 square feet)	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: General Ltg < 75W	NA: General Ltg < 75W	No	☐	☐	☐	
Office <250	Office (<=250 square feet)	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	NA: General Ltg < 75W	No	☐	☐		

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
Report Page: (Page 7 of 9)
Date Prepared: 3/17/2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Janitor (UC)	General Commercial Industrial Work AreaLow Bay	0.6	141	84.6	No	No
Storage, General (UC)	All Other Space Types	0.4	597	238.8	No	No
Machine Shop, Low Bay (UC)	General Commercial Industrial Work AreaLow Bay	0.6	594	356.4	No	No
Machine Shop, High Bay (UC)	General Commercial Industrial Work Area High Bay	0.65	406	263.9	No	No
Lockers (UC)	Locker/Dressing Room	0.45	224	100.8	No	No
Restrooms (UC)	Restroom	0.65	224	145.6	No	No
TOTALS:			37,976	15,524.7	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
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C. COMPLIANCE RESULTS										
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.										
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(1) / §170.2(e)	Allowed Lighting Power per §140.6(b) / §170.2(e) (Watts)				≥	Adjusted Lighting Power per §140.6(a) / §170.2(e) (Watts)			05 must be ≥ 08 §140.6 / §170.2(e)	
	01	02	03	04		05	06	07		08
	Complete Building §140.6(c)(1)	Area Category §140.6(c)(2) §170.2(e)(4)	Area Category Additional §140.6(c)(2)G §170.2(e)(4)Av (-)	= Total Allowed (Watts)		Total Designed (Watts) (1)	PAF Lighting Control Credits §140.6(a)(2) §170.2(e)(1)B (-)	= Total Adjusted (Watts) *Includes Adjustments		
(See Table I)	(See Table I)	(See Table J)		(See Table F)	(See Table P)					
Conditioned	5,179.2	0	= 5,179	≥ 4,848	0	= 4848	COMPLIES			
Unconditioned	15,524.7	0	= 15,525	≥ 7,080	0	= 7080	COMPLIES			
Controls Compliance (See Table H for Details)										
One-for-one Luminaire Alterations Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)										
Restrooms	Restroom	Readily Accessible and located in the same space.	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐	
Conference	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐	
Warehouse	Commercial Industrial Storage Area	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐	
13										
Plan Sheet Showing Daylit Zones:										

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.						
Conditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area CategoryPAF	PAF
Office >>250	Office (>250 square feet)	0.6	276	165.6	No	No
Office <250	Office (<=250 square feet)	0.65	252	163.8	No	No
Conference	Convention; Conference, Multipurpose and Meeting Center	0.75	291	218.2	No	No
Breakroom	Lounge	0.55	608	334.4	No	No
Restrooms	Restroom	0.65	336	218.4	No	No

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
Report Page: (Page 8 of 9)
Date Prepared: 3/17/2026

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online
Form/Title
NRCA-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>
Form/Title
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
NRCA-LTI-03-A - Must be submitted for daylight responsive controls.

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
Report Page: (Page 3 of 9)
Date Prepared: 3/17/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE										
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.										
Designed Wattage: Conditioned Spaces										
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3) / §170.2(e)(2)C	Design Watts	Field Inspector	
									Pass	Fail
A	A	No	NA	47	Mfr. Spec	98	No	4,606	☐	☐
B	B	No	NA	14.5	Mfr. Spec	11	No	159.5	☐	☐
C	C	No	NA	14.5	Mfr. Spec	4	No	58	☐	☐
F	F	No	NA	25	Mfr. Spec	1	No	25	☐	☐
Total Designed Watts: CONDITIONED SPACES								4,848		
Designed Wattage: Unconditioned Spaces										
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3) / §170.2(e)(2)C	Design Watts	Field Inspector	
									Pass	Fail
A	A	No	NA	47	Mfr. Spec	1	No	47	☐	☐
B	B	No	NA	14.5	Mfr. Spec	11	No	159.5	☐	☐
D	D	No	NA	124	Mfr. Spec	52	No	6,448	☐	☐
F	F	No	NA	25	Mfr. Spec	17	No	425	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								7,080		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4)B / §170.2(e)(2)D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

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Report Generated: 2026-03-17 17:09:00

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-E
Project Name: NID Hydroelectric Field Office
Report Page: (Page 6 of 9)
Date Prepared: 3/17/2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Office Reception	Lounge	0.55	596	327.8	No	No
Corridor	Corridor	0.4	660	264	No	No
Lactation	Lounge	0.55	87	47.8	No	No
Office <250	Office (<=250 square feet)	0.65	768	499.2	No	No
Storage, General	All Other Space Types	0.4	101	40.4	No	No
Storage, General (Indirect)	All Other Space Types	0.4	134	53.6	No	No
Office <250	Office (<=250 square feet)	0.65	113	73.4	No	No
Office <250	Office (>250 square feet)	0.6	1,642	985.2	No	No
Corridor	Corridor	0.4	368	147.2	No	No
Office <250	Office (<=250 square feet)	0.65	577	375	No	No
Conference	Convention, Conference, Multipurpose and Meeting Center	0.75	560	420	No	No
Manufacturing (Precision)	General Commercial Industrial Work Area Precision	0.85	801	680.8	No	No
Electrical	Electrical, Mechanical, or Telephone Room	0.4	141	56.4	No	No
Electrical	Electrical, Mechanical, or Telephone Room	0.4	168	67.2	No	No
Electrical	Electrical, Mechanical, or Telephone Room	0.4	102	40.8	No	No
TOTALS:			8,581	5,179.2	See Tables J, or P for detail	
Unconditioned Spaces						
O1	O2	O3	O4	O5	O6	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Watts (Watts)	Additional Allowance / Adjustment Area Category	PAF
Warehouse (UC)	Storage - Commercial/Industrial - Shipping and Handling	0.4	35,697	14,278.8	No	No
Wash Room (UC)	General Commercial Industrial Work Area Low Bay	0.6	55	33	No	No
Janitor (UC)	General Commercial Industrial Work Area Low Bay	0.6	38	22.8	No	No

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b)/ §160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and §141.0(b)(1)/ §180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3/ §170.2 for newly constructed buildings, and §141.0/ §180.1/ §180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Project Name:

NID Hydroelectric Field Office

Report Page:

(Page 1 of 6)

Date Prepared:

7/3/2026

Project Address:

148 Whitcomb Ave

A. GENERAL INFORMATION

01	Project Location (city)	Colfax	05	# of Stories (Habitable Above Grade)		1	
02	Zipcode	95713	06	Total Conditioned Floor Area (ft²)		801	
03	Climate Zone	11	07	Total Unconditioned Floor Area (ft²)		0	
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per § 100.0(f).					08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.¹
• Commercial Industrial							

¹ FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c)/ §170.2(b). Compliance with §140.3(c)/ §170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3/ §170.2 and §141.0(a)/ §180.1 and §141.0(b)1 and 2/ §180.2 for additions and alterations.

My project consists of (check all that apply)		Component Types	
01		02	
☐ New Construction or Newly Conditioned Space	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft.	☐ Roof	☐ Walls
☒ Addition of conditioned space	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft		☐ Floors
☐ Addition is <=700 ft²	☐ Addition is >700 ft²	☐ Roof	☒ Walls
☒ Alteration of conditioned space	☐ Alteration of conditioned space		☐ Exterior Opaque Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ Roof Assembly	☒ Fenestration/ Glazed Doors¹
		☐ Roofing Material	☐ Exterior Opaque Doors
		☐ Fenestration	

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-5910-0726-0028 Schema Version: rev 20250101 Report Generated: 2026-07-03 03:44:27

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

NID Hydroelectric Field Office

Report Page:

(Page 4 of 6)

Date Prepared:

7/3/2026

H. WALL ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Metal Building Walls

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft²)	Area-weighted U-factor for Wall Type	Designed	Compliance Results Using Area-Weighted Calculation Option
Metal Building	456	0.053	0.047	COMPLIES

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This section does not apply to this project.

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCI-ENV-E - Must be submitted for all buildings

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-5910-0726-0028 Schema Version: rev 20250101 Report Generated: 2026-07-03 03:44:27

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

NID Hydroelectric Field Office

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(Page 2 of 6)

Date Prepared:

7/3/2026

B. PROJECT SCOPE

¹ FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with Fenestration. ² Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recasts may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components		Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors
01	02	03	04	05
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)
		Yes		
				COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-5910-0726-0028 Schema Version: rev 20250101 Report Generated: 2026-07-03 03:44:27

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

NID Hydroelectric Field Office

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Date Prepared:

7/3/2026

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

NID Hydroelectric Field Office

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7/3/2026

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)/ §170.2(a) for new constructions, §141.0(a)/ §180.1 for additions and §141.0(b)1B/ §180.2 for alterations.

01	Indicate wall types included in the project:¹ ☐ Framed ☐ Mass (new only) ☐ Concrete Sandwich Panel (new only) ☐ SIPs ☐ ICF (new only) ☐ Metal Panels ☒ Metal Building ☐ Spandrel/ Curtain Wall ☐ Straw Bale ☐ Log Home (new only)										
² FOOTNOTES: Wall types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.											

Metal Building Walls

01	02	03	04	05	06	07	08	09	10	11
Calculate Area-Weighted Average U-factor for Metal Building Walls¹	Occupancy & Status	How Design U-factor was determined	Insulation System	Cavity Insulation per Design	Continuous insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area¹ ft²	
N	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Double layer - Batt w/R 6+R 13	19	19	U-factor	0.053	per IAA per Software/ Other	0.047	456
12	Location in Construction Documents Showing Air Barrier		A-Sheets							

¹ FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building walls may not be combined with other wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in §141.0(b)1B1. ² If "R-value" is shown in cell 08 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B1. ³ Wall area minus any fenestration area

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-5910-0726-0028 Schema Version: rev 20250101 Report Generated: 2026-07-03 03:44:27

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

NRCC-ENV-E

Project Name:

NID Hydroelectric Field Office

Report Page:

(Page 6 of 6)

Date Prepared:

7/3/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Jacob Pleis

Documentation Author Signature:

Company:

Optimized Energy & Facilities Consulting

Signature Date:

2026-07-03

Address:

5734 Lonetree Boulevard

CEA/NA/ECC Certification Identification (if applicable)

City/State/Zip:

Rocklin CA 95765

Phone:

916-622-4882

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 5, and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name:

Russell Davidson

Responsible Person Signature:

Company:

Russell Davidson Architecture + Design

Date Signed:

2026-07-03

Address:

1489 Crown Point Court, Suite C

License:

City/State/Zip:

Grass Valley CA 95945

Phone:

(530) 264-5559

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-5910-0726-0028 Schema Version: rev 20250101 Report Generated: 2026-07-03 03:44:27

REVIEWED FOR CODE COMPLIANCE
August 28, 2026
BUREAU VERITAS NORTH AMERICA, INC.

.\25107 NID Hydroelectric Field Office - ENV Page 007.tif

.\25107 NID Hydroelectric Field Office - ENV Page 008.tif

.\25107 NID Hydroelectric Field Office - ENV Page 009.tif

N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
PERMIT	03-17-26
PLAN CHECK #1	07-03-26

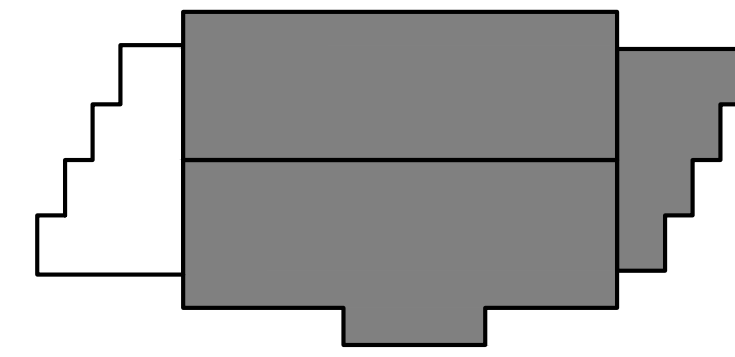
PROJECT NUMBER	25107
SHEET TITLE	TITLE 24 ENERGY
SHEET NO.	EN0.0

OPTIMIZED ENERGYTM
 & FACILITIES CONSULTING, INC.
 5734 Loretine Boulevard, Roodin, CA 95765
 Office: (916) 626-5518 www.oefcinc.com

N.I.D. HYDRO OFFICE RENOVATION
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
BID SET	04-10-28
PROJECT NUMBER	25107
SHEET TITLE	
GENERAL NOTES	
SHEET NO.	
F001	

KEY PLAN - LEVEL 1



WALL LEGEND

- NEW CEILING HEIGHT WALL
- - - EXISTING WALL TO BE DEMOLISHED
= = = EXISTING WALL

SPRINKLER DESIGN CRITERIA

- LIGHT HAZARD:
0.10 GPM/SQ.FT.
225 SQ.FT. MAX HEAD COVERAGE
15' MAX HEAD SPACING
- ORDINARY HAZARD (GROUP 1):
0.15 GPM/SQ.FT.
130 SQ.FT. MAX HEAD COVERAGE
15' MAX HEAD SPACING
- ORDINARY HAZARD (GROUP 2):
0.20 GPM/SQ.FT.
130 SQ.FT. MAX HEAD COVERAGE
15' MAX HEAD SPACING
- EXISTING WAREHOUSE STORAGE:
0.30 GPM/SQ.FT.
130 SQ.FT. MAX HEAD COVERAGE
WAREHOUSE CALCULATED FOR
STORAGE: 30 GPM / 2000 SQFT W/
HIGH TEMPERATURE SPRINKLERS
(NFPA 13, TABLE 21.2.2.1.1)

N.I.D. HYDRO OFFICE RENOVATION

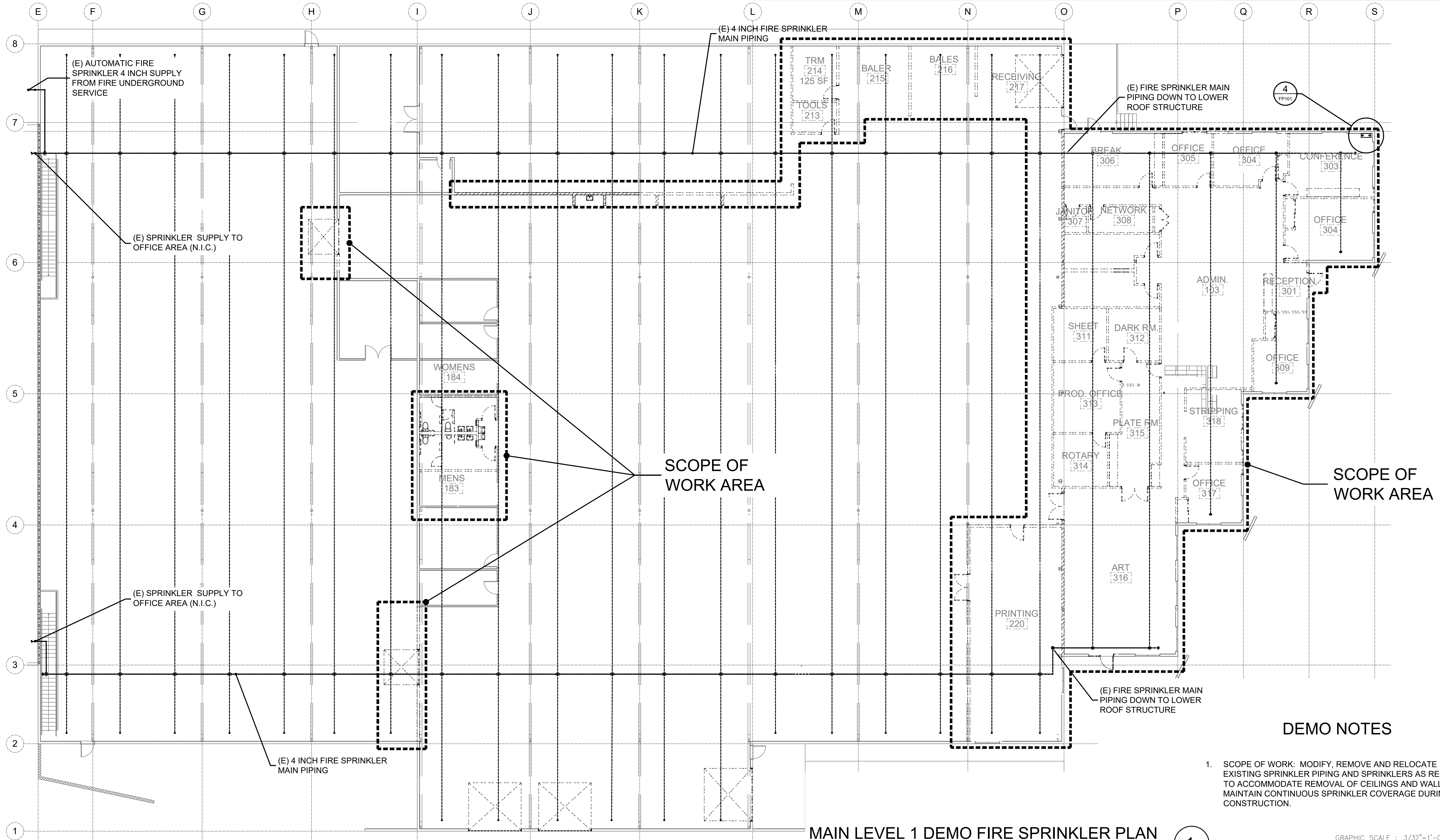
148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
BD SET	04-10-26

PROJECT NUMBER	25107
SHEET TITLE	LEVEL 1 DEMO FIRE SPRINKLER PLAN
SHEET NO.	F100

1. SCOPE OF WORK: MODIFY, REMOVE AND RELOCATE EXISTING SPRINKLER PIPING AND SPRINKLERS AS REQUIRED TO ACCOMMODATE REMOVAL OF CEILINGS AND WALLS. MAINTAIN CONTINUOUS SPRINKLER COVERAGE DURING CONSTRUCTION.

F100



MAIN LEVEL 1 DEMO FIRE SPRINKLER PLAN

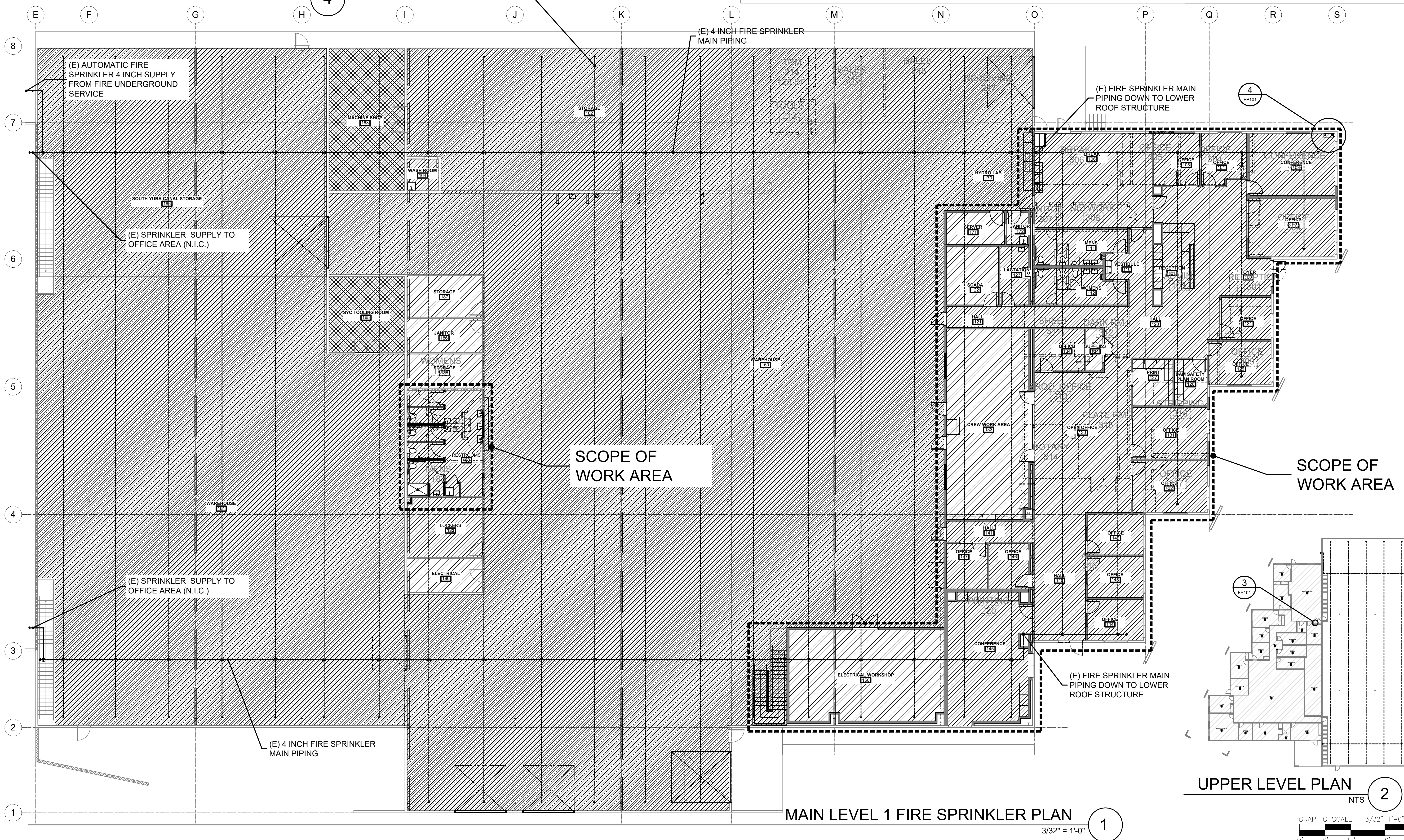
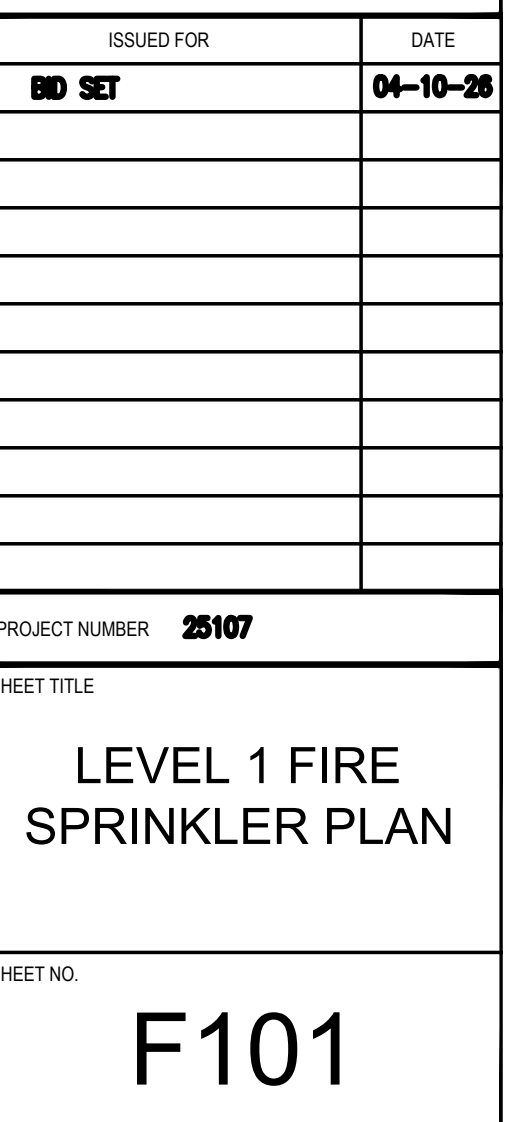
3/32" = 1'-0"

1

DEMO NOTES

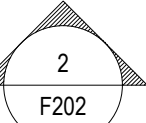
1. SCOPE OF WORK: MODIFY, REMOVE AND RELOCATE EXISTING SPRINKLER PIPING AND SPRINKLERS AS REQUIRED TO ACCOMMODATE REMOVAL OF CEILINGS AND WALLS. MAINTAIN CONTINUOUS SPRINKLER COVERAGE DURING CONSTRUCTION.

GRAPHIC SCALE : 3/32"=1'-0"
0' 6' 12' 20' 30'





ELEVATION VIEW OF OFFICE AREA

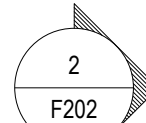


(E) FIRE SPRINKLER MAIN AS SHOWN LOWER LEVEL PLAN

(E) FIRE SPRINKLER BRANCH LINE PIPING (TYPICAL)

(E) FIRE SPRINKLER MAIN AS SHOWN LOWER LEVEL PLAN

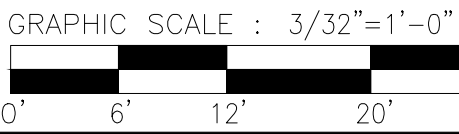
SCOPE OF WORK AREA



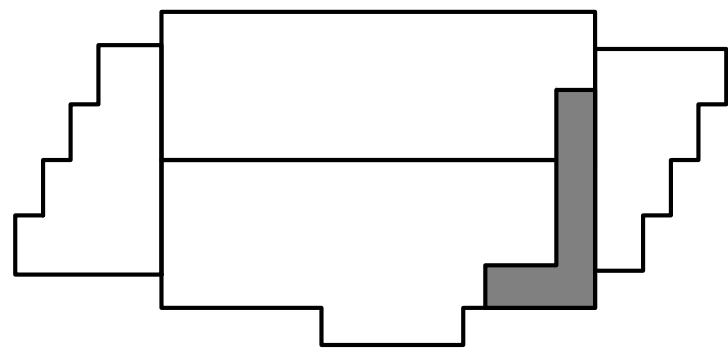
MEZZANINE FIRE SPRINKLER PLAN

3/32" = 1'-0"

1



KEY PLAN - MEZZANINE



WALL LEGEND

- NEW CEILING HEIGHT WALL
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL

SPRINKLER DESIGN CRITERIA

- LIGHT HAZARD: 0.10 GPM/SQ.FT. 225 SQ.FT. MAX HEAD COVERAGE 15' MAX HEAD SPACING
- ORDINARY HAZARD (GROUP 1): 0.15 GPM/SQ.FT. 130 SQ.FT. MAX HEAD COVERAGE 15' MAX HEAD SPACING
- ORDINARY HAZARD (GROUP 2): 0.20 GPM/SQ.FT. 130 SQ.FT. MAX HEAD COVERAGE 15' MAX HEAD SPACING
- EXISTING WAREHOUSE STORAGE: 0.30 GPM/SQ.FT. 130 SQ.FT. MAX HEAD COVERAGE WAREHOUSE CALCULATED FOR STORAGE 30 GPM / 2000 SQFT W/ HIGH TEMPERATURE SPRINKLERS (NFPA 13, TABLE 21.2.2.1.1)



N.I.D. HYDRO OFFICE RENOVATION

148 WHITCOMB AVE.
COLFAX, CA 95713
APN: 100-230-054

ISSUED FOR	DATE
80 SET	04-10-26
PROJECT NUMBER	25107
SHEET TITLE	MEZZANINE FIRE SPRINKLER PLAN
SHEET NO.	F202